



Republic of the Philippines
Department of Environment and Natural Resources
FOREST MANAGEMENT BUREAU
Visayas Avenue, Diliman, 1100 Quezon City
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E-mail Address: fmb@denr.gov.ph Website: <https://www.forestry.denr.gov.ph>

FOREST MANAGEMENT BUREAU
RELEASED
JAN 04 2024
RECORDS UNIT

MEMORANDUM

FOR : The Regional Executive Directors
DENR MIMAROPA

FROM : The OIC, Assistant Secretary for Field Operations – Western Mindanao
and Director, in concurrent capacity

SUBJECT : **SUBMISSION OF PROPOSED SITE FOR THE
CONSTRUCTION OF SMALL WATER IMPOUNDING SYSTEM
(SWIS) STRUCTURE FOR CY 2024**

DATE : **DEC 29 2023**

This pertains to your memorandum dated 07 November 2023, which outlined the proposed sites for the construction of Small Water Impounding Systems (SWIS) by PENRO Palawan in Fiscal Year (FY) 2024.

Upon careful examination of the submitted documents, it has been observed that the three proposed areas within Palawan are in close proximity to the CY 2017, 2018, and 2021 NGP Plantations. Specifically, these sites are planned for construction within So. Salpan and So. Parangue in Brgy. Aramaywan, Narra, Palawan, and Brgy. Sta. Maria, Dumaran, Palawan. It is duly noted that coordination with relevant stakeholders, as well as site reconnaissance and identification, have already been carried out.

While acknowledging that the proposed sites align with the objective to support NGP Plantation, it has come to our attention that there are no allocated funds for the construction of SWIS in Palawan for FY 2024. Consequently, we recommend including and considering the construction of SWIS at the identified three sites in Palawan in the FY 2025 Work and Financial Plan of the Region. Additionally, we would like to emphasize the primary purpose of SWIS, which is to supply water for the reforestation efforts of the DENR.

Lastly, we would like to remind the Region to adhere to the design and costing specifications outlined in FMB Technical Bulletin 13-A, titled "Supplemental Standard Cost and Design for Small Water Impounding System (Spring Development)."

FOR YOUR INFORMATION AND CONSIDERATION, PLEASE.

for: [Signature]
ARLEIGH J. ADORABLE, CESO III

Copy furnished:
DENR Policy and Planning Service



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

Date: **NOV 07 2023**

MEMORANDUM

FOR : The OIC, Assistant Secretary for Field Operations-Western Mindanao and Director, Forest Management Bureau in concurrent capacity

FROM : The OIC, Regional Executive Director

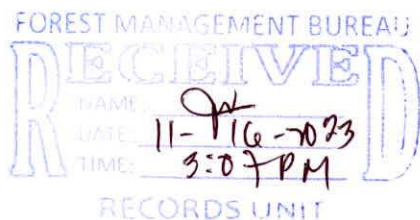
SUBJECT : **SUBMISSION OF PROPOSED SITE FOR THE CONSTRUCTION OF SMALL WATER IMPOUNDING SYSTEM (SWIS) STRUCTURE FOR CY 2024**

Respectfully forwarded are the Memoranda dated September 21, 2023 and October 4, 2023 of PENR Officer Felizardo B. Cayatoc, submitting the required information/documents on the proposed three (3) Small Water Impounding System (SWIS) structures to be established within the jurisdiction of PENRO, Palawan for CY 2024, as follows:

1. Sitio Salpan, Barangay Aramaywan, Narra, Palawan
2. Sita Parangue, Barangay Aramaywan, Narra, Palawan
3. Barangay Sta. Maria, Dumarán, Palawan

Accordingly, the identified sites are adjacent to NGP plantations established in 2017, 2018 and 2021.

For information and consideration.



FELIX S. MIRASOL, JR., CESO IV

cc: The Chief, Planning and Management Division
MIMAROPA Region



Department of Environment
and Natural Resources
MIMAROPA Region



Doc ID: 120807

CDD/PFMS/MPL/10-27-2023

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D-42104 (w/ends.)



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
National Highway, Bgy. Alfonso XIII, Quezon, Palawan
Contact No.: 0917-160-4920
Email: cenroquezonpal@denr.gov.ph

April 25, 2023

MEMORANDUM

FOR : The Provincial Environment and
Natural Resources Officer
Sta. Monica, Puerto Princesa City

FROM : OIC CENRO & Concurrent PASu, MMPL
Quezon, Palawan

SUBJECT : **SUBMISSION OF PROPOSED SMALL WATER
IMPOUNDING STRUCTURE (SWIS) FOR CY 2024.**

**DENR PENRO
PALAWAN RECORDS
RECEIVED**

DATE: 05-02-2023 CN 23-3932

Nana

In connection with your memorandum dated April 12, 2023 regarding the above-mentioned subject.

In this regards, respectfully submit the following data/information, to wit:

- Map of the proposed SWIS overlayed with the watershed;
- Report of the conducted coordination with the concerned stakeholders;
- GIS map of the Identified Sites for SWIS overlayed with the geotagged pictures taken.

For his information and record.



RENATO S. GONZAGA



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
National Highway, Bgy. Alfonso XIII, Quezon, Palawan
Email: cenroquezon@denr.gov.ph

April 24, 2023

MEMORANDUM

FOR : The Community Environment
And Natural Resources Officer
Quezon, Palawan

THRU : The CDS Chief

FROM: The Forest Extension Officer

SUBJECT: **REPORT ON THE CONDUCTED COORDINATION FOR THE
PROPOSED SMALL WATER IMPOUNDING STRUCTURE (SWIS)
FOR CY 2024**

Please be informed that on February 22, 2023 the undersigned personnel conducted site identification together with Barangay Kagawad Honorable Rogelio Tindog.

The team identified two (2) potential site including the Spring in So. Salpan and Parangue, Brgy. Aramaywan, Narra Palawan, and one (1) river located in the aforementioned Barangay.

Further the identified potential site for the SWIS was nearby adjacent to the NGP Sites CY 2017, 2018 and 2021. Also the said site had never been experience drought.

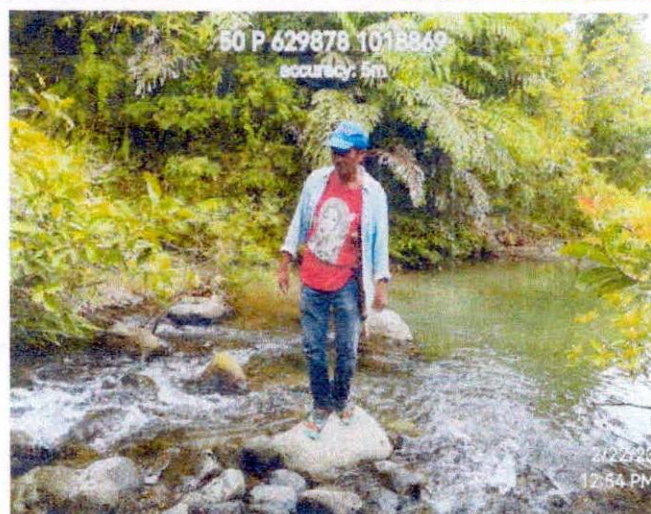
Attached are the Geotagged pictures and Map of the site.

For information and consideration.


NORLAN T. GALLARDO

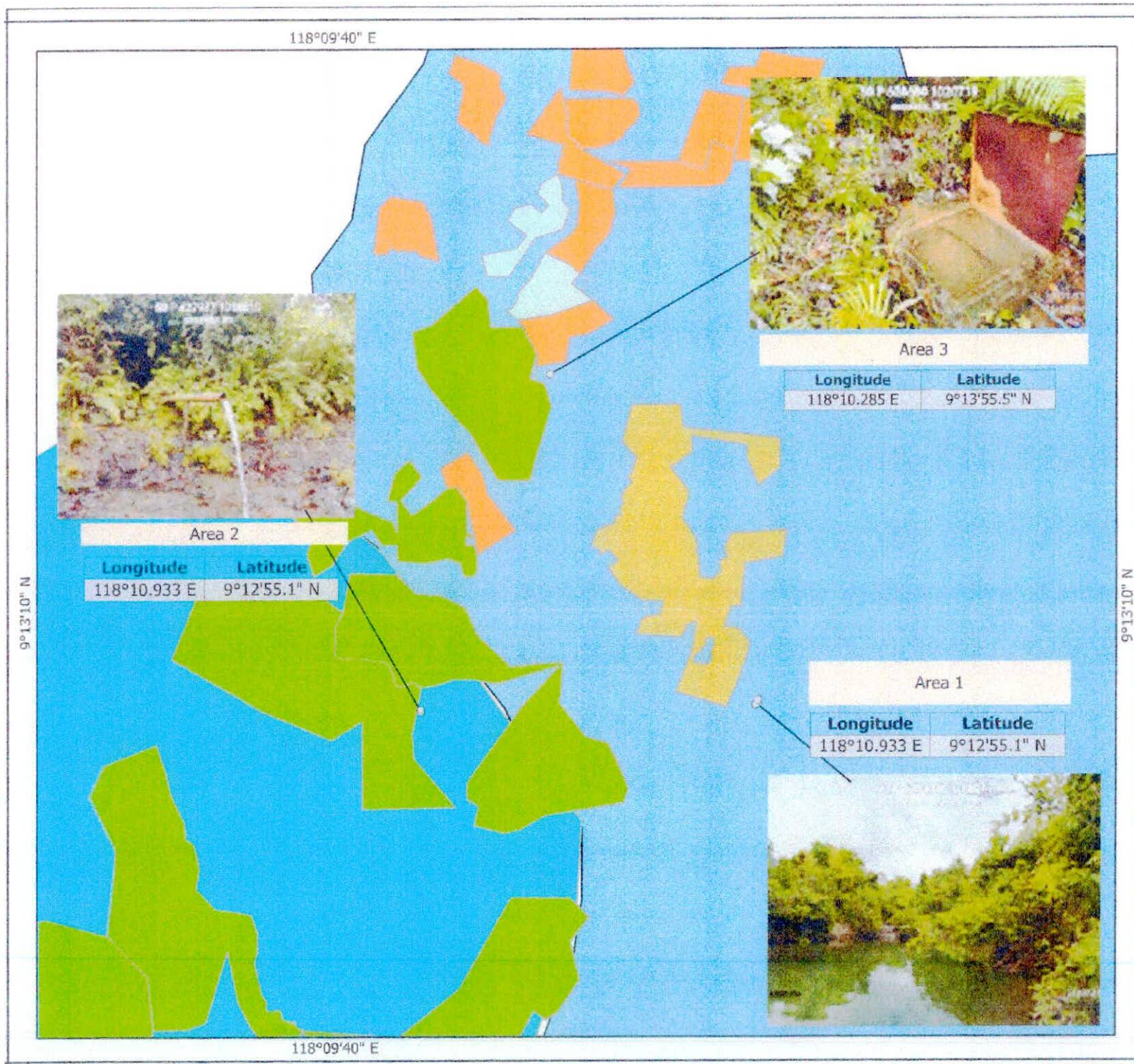


Republic of the Philippines
Department of Environment and Natural Resources
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COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
National Highway, Bgy. Alfonso XIII, Quezon, Palawan
Email: cenroquezon@denr.gov.ph



Geotagged photos during conducted identification of proposed Small Water Impounding Structure (SWIS)

Ngallako



Republic of the Philippines
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RA - MIMAPORA REGION
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Quezon, Palawan



**SHOWING THE IDENTIFIED
SITES FOR SMALL WATER
IMPOUNDING
SYSTEM (SWIS)
OF DENR CENRO-QUEZON
PALAWAN**

situated at :

Barangay : Aramaywan

Municipality : Narra

Province : Palawan

SCALE : 1:30000

Projection: Universal Transverse Mercator-Zone 50 (N)
Datum : World Geodetic 1984 (WGS84)

LEGEND

- Location of SWIS
- NGP Areas : Year
 - 2017
 - 2018
 - 2020
 - 2021
- Tiplan Watershed
- Aramaywan Watershed

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
REGION IV-B MIMAROPA
PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE

PROGRAM OF WORKS

PROJECT: CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
LOCATION: BGY. ARAMAYWAN NARRA, PALAWAN
APPROPRIATION: Php3,296,000.00
CAL. DAYS TO COMPLETE: 150 DAYS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
	GENERAL REQUIREMENTS				
A.1.1(5)	CONSTRUCTION OF TEMP. FACILITIES	1	LOT	32,812.50	32,812.50
	OTHER GENERAL REQUIREMENTS				
B.5	PROJECT BILLBOARD/SIGNBOARD	1	LOT	8,531.25	8,531.25
B.7	OCCUPATIONAL SAFETY AND HEALTH				
B.7	PROGRAM	1	LOT	6,930.00	6,930.00
B.9	MOBILIZATION / DEMOBILIZATION	1	LOT	34,608.00	34,608.00
	EARTHWORKS				
1700(1)	CLEARING & GRUBBING	1	LOT	39,375.00	39,375.00
803 (1) c	STRUCTURE EXCAVATION & BACKFILLING	25	CU.M.	767.81	19,195.31
	STRUCTURAL CONCRETE				
405(1)	STRUCTURAL CONCRETE CLASS A	90	CU.M.	10,665.96	959,936.25
405 (6)	STRUCTURAL CONCRETE,PAINTING				
405 (6)	WORKS	195	SQM	129.98	25,346.34
	REINFORCING STEEL BARS				
902.1.a2	REINFORCING STEEL BARS GRADE 60	1	LOT	367,381.22	367,381.22
	FORMS AND FALSEWORKS				
414	FORMS AND FALSEWORKS	1	LOT	238,534.18	238,534.18
	DRAIN PIPE				
1001(1)	DRAIN PIPE	2400	LM.	610.20	1,464,469.95
SUB-TOTAL					3,197,120.00

DIRECT COST

1 MATERIALS	1,901,077.65	
2 LABOR	542,135.30	
TOTAL DIRECT COST	2,443,212.95	74.13%
OCM EXPENSES	360,637.95	10.94%
CONTRACTOR PROFIT	241,025.29	7.31%
VAT	152,243.81	4.62%
	3,197,120.00	
ESAO	98,880.00	3.00%

TOTAL APROPRIATION	PHp.	3,296,000.00	100.00%
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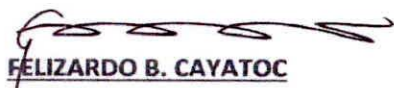
Prepared by:


RAYMART B. FUENTES
Proj. Monitoring & Evaluation Officer

RECOMMENDING APPROVAL:


RENATO S. GONZAGA
CENRO QUEZON

Approved by:


FELIZARDO B. CAYATOC
PENRO

CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
BGY. ARAMAYWAN NARRA, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	GENERAL REQUIREMENTS			DATE:	4/20/2023
				TOTAL COST:	32,812.50
ITEM NO.:	A.1.1(5)				
WORK DESCRIPTION:	CONSTRUCTION OF TEMP. FACILITIES			QTY.	1 LOT
A. MATERIALS					
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT	
PROVISION OF FIELD OFFICE	1	L.S.	25,000.00	25,000.00	
				-	
				-	
	SUB-TOTAL			25,000.00	
B. LABOR					
				-	
	SUB-TOTAL			0.00	
C. ESTIMATED DIRECT COST (EDC)= a+b				25,000.00	
D. INDIRECT COST/MARK-UP					
	OC as_15% of EDC			3,750.00	
	PROFIT as_10% of EDC			2,500.00	
	TOTAL OF (D)			6,250.00	
E. VALUE ADDED TAX_5_% of C+D				1,562.50	
F. TOTAL COST =C+D+E				32,812.50	
G. UNIT COST/ LOT				32,812.50	

ITEM OF WORKS:	OTHER GENERAL REQUIREMENTS			DATE:	4/20/2023
				TOTAL COST:	8,531.25
ITEM NO.:	B.5				
WORK DESCRIPTION:	PROJECT BILLBOARD/SIGNBOARD			QTY.	1 LOT
A. MATERIALS					
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT	
PROJECT BILLBOARD/SIGNBOARD	1	L.S	5,000.00	5,000.00	
				-	
	SUB-TOTAL			5,000.00	
B. LABOR					
				1,500.00	
				-	
	SUB-TOTAL			1,500.00	
C. ESTIMATED DIRECT COST (EDC)= a+b				6,500.00	
D. INDIRECT COST/MARK-UP					
	OC as_15% of EDC			975.00	
	PROFIT as_10% of EDC			650.00	
	TOTAL OF (E)			1,625.00	
E. VALUE ADDED TAX_5_% of C+D				406.25	
F. TOTAL COST = C+D+E				8,531.25	
G. UNIT COST/ LOT				8,531.25	

CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
BGY. ARAMAYWAN NARRA, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	OTHER GENERAL REQUIREMENTS			DATE:	4/20/2023
ITEM NO.:	B.7			TOTAL COST:	6,930.00
WORK DESCRIPTION:	OCCUPATIONAL SAFETY AND HEALTH PROGRAM QTY.				1 LOT
A. MATERIALS					
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT	
PPE's	1	LS	6,000.00	6,000.00	
	SUB-TOTAL			6,000.00	
B. LABOR					
	SUB-TOTAL			0.00	
C. ESTIMATED DIRECT COST (EDC)= a+b				6,000.00	
D. INDIRECT COST/MARK-UP					
	OC as 15% of EDC				
	PROFIT as 10% of EDC			600.00	
	TOTAL OF (E)			600.00	
E. VALUE ADDED TAX_5_% of C+D				330.00	
F. TOTAL COST = C+D+E				6,930.00	
G. UNIT COST/ LOT				6,930.00	

ITEM OF WORKS:	OTHER GENERAL REQUIREMENTS			DATE:	4/20/2023
ITEM NO.:	B.9			TOTAL COST:	34,608.00
WORK DESCRIPTION:	MOBILIZATION / DEMOBILIZATION			QTY.	1 LOT
A. MATERIALS					
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT	
MOBILIZATION / DEMOBILIZATION	1	L.S	32,960.00	32,960.00	
SUB-TOTAL				32,960.00	
B. LABOR					
SUB-TOTAL				0.00	
C. ESTIMATED DIRECT COST (EDC)= a+b				32,960.00	
D. INDIRECT COST/MARK-UP					
OC as_15% of EDC					
PROFIT as_10% of EDC					
TOTAL OF (E)				0.00	
E. VALUE ADDED TAX_5_% of C+D				1,648.00	
F. TOTAL COST = C+D+E				34,608.00	
G. UNIT COST/ LOT				34,608.00	

CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
BGY. ARAMAYWAN NARRA, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	EARTHWORKS	DATE:	4/20/2023	
		TOTAL COST:	39,375.00	
ITEM NO.:	1700(1)			
WORK DESCRIPTION:	CLEARING & GRUBBING	QTY.	1 LOT	
A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
CLEARING & GRUBBING	1	L.S.	30,000.00	30,000.00
				-
	SUB-TOTAL			30,000.00
B. LABOR				
				-
	SUB-TOTAL			0.00
C. ESTIMATED DIRECT COST (EDC)= a+b				30,000.00
D. INDIRECT COST/MARK-UP				
	OC as_15% of EDC			4,500.00
	PROFIT as_10% of EDC			3,000.00
	TOTAL OF (E)			7,500.00
E. VALUE ADDED TAX_5_% of C+D				1,875.00
F. TOTAL COST = C+D+E				39,375.00
G. UNIT COST/ LOT				39,375.00

ITEM OF WORKS:	EARTHWORKS			DATE:	4/20/2023
				TOTAL COST:	19,195.31
ITEM NO.:	803 (1) c				
WORK DESCRIPTION:	STRUCTURE EXCAVATION & BACKFILLING			QTY.	25 cu.m.
A. MATERIALS					
DESCRIPTION		QUANTITY	UNIT	UNIT COST	AMOUNT
REMOVAL OF SEDIMENT		25	cu.m.	450	11,250.00
					-
					-
		SUB-TOTAL			11,250.00
B. LABOR					
					3,375.00
					-
		SUB-TOTAL			3,375.00
C. ESTIMATED DIRECT COST (EDC)= a+b					14,625.00
D. INDIRECT COST/MARK-UP					
		OC as_15% of EDC			2,193.75
		PROFIT as_10% of EDC			1,462.50
		TOTAL OF (E)			3,656.25
E. VALUE ADDED TAX_5_% of D+E					914.06
F. TOTAL COST = D+E+F					19,195.31
G. UNIT COST/ LOT					767.81

CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
BGY. ARAMAYWAN NARRA, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	STRUCTURAL CONCRETE			DATE:	4/20/2023
				TOTAL COST:	959,936.25
ITEM NO.:	405(1)				
WORK DESCRIPTION:	STRUCTURAL CONCRETE CLASS A (IMPOUNDING,RESERVOIR(1UNIT))			QTY.	90 CU.M
A. MATERIALS					
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT	
PORTLAND CEMENT	990.00	BAGS	380	376,200.00	
GRAVEL 3/4	60.00	CU.M.	2000	120,000.00	
SAND SCREENED	30.00	CU.M.	2100	63,000.00	
SAHARA CEMENT	40.00	PACK	85	3,400.00	
				-	
SUB-TOTAL				562,600.00	
B. LABOR					
				168,780.00	
				-	
SUB-TOTAL				168,780.00	
C. ESTIMATED DIRECT COST (EDC)= a+b				731,380.00	
D. INDIRECT COST/MARK-UP					
OC as_15% of EDC				109,707.00	
PROFIT as_10% of EDC				73,138.00	
TOTAL OF (D)				182,845.00	
E. VALUE ADDED TAX_5_% of C+D				45,711.25	
F. TOTAL COST = C+D+E				959,936.25	
G. UNIT COST/ LOT				10,665.96	

CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
BGY. ARAMAYWAN NARRA, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	STRUCTURAL CONCRETE	DATE:	4/20/2023	
		TOTAL COST:	25,346.34	
ITEM NO.:	405 (6)			
WORK DESCRIPTION:	STRUCTURAL CONCRETE,PAINTING WORKS (IMPOUNDING, RESERVOIR(1-UNIT))	QTY.	1 LOT	
A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
PRIMER PAINT	9	GALS	655	5,895.00
SEMI LATEX PAINT (WHITE)	9	GALS	655	5,895.00
SEMI LATEX PAINT (GREEN)	2	GALS	680	1,360.00
SEMI LATEX PAINT (BLUE)	2	GALS	680	1,360.00
PAINT BRUSH (2")	3	PCS	45	135.00
PAINT BRUSH (1")	3	PCS	35	105.00
PAINT BRUSH (1/2")	3	PCS	35	105.00
				-
	SUB-TOTAL			14,855.00
B. LABOR				4,456.50
				-
	SUB-TOTAL			4,456.50
C. ESTIMATED DIRECT COST (EDC)= a+b				19,311.50
D. INDIRECT COST/MARK-UP				
	OC as_15% of EDC			2,896.73
	PROFIT as_10% of EDC			1,931.15
	TOTAL OF (D)			4,827.88
E. VALUE ADDED TAX_5_% of C+D				1,206.97
F. TOTAL COST = C+D+E				25,346.34
G. UNIT COST/ LOT				129.98

ITEM OF WORKS:	REINFORCING STEEL BARS	DATE:	4/20/2023	
		TOTAL COST:	367,381.22	
ITEM NO.:	902.1.a2			
WORK DESCRIPTION:	REINFORCING STEEL BARS GRADE 60 (IMPOUNDING, FILTRATION, RESERVOIR(1-UNIT))	QTY.	1 LOT	
A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
16mm Ø RSB	70.00	klb	495	34,650.00
12 mm Ø RSB	450.00	klb	375	168,750.00
10 mm Ø RSB	22.00	klb	195	4,290.00
#16 TIE WIRE	50.00	klb	85	4,250.00
HACKSAW BLADE	5.00	box	675	3,375.00
				-
				-
				-
				-
				-
				-
				-
	SUB-TOTAL			215,315.00
B. LABOR				64,594.50
	SUB-TOTAL			64,594.50
C. ESTIMATED DIRECT COST (EDC)= a+b				279,909.50
D. INDIRECT COST/MARK-UP				
	OC as_15% of EDC			41,986.43
	PROFIT as_10% of EDC			27,990.95
	TOTAL OF (D)			69,977.38
E. VALUE ADDED TAX_5_% of C+D				17,494.34
F. TOTAL COST = C+D+E				367,381.22
G. UNIT COST/ LOT				367,381.22

CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
BGY. ARAMAYWAN NARRA, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	FORMS AND FALSEWORKS	DATE:	4/20/2023	
ITEM NO.:	414	TOTAL COST:	238,534.18	
WORK DESCRIPTION:	FORMS AND FALSEWORKS	QTY.	1LOT	
A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
1/2"THK. MARINE PLYWOOD	40.00	PCS.	1450	58,000.00
2'x2'x10' GOOD LUMBER	666.67	BDFT.	75	50,000.25
2'x3'x10' GOOD LUMBER	390.00	BDFT.	75	29,250.00
ASSTD. NAIL (1")	10.00	KGS	85	850.00
ASSTD. NAIL (2 1/2")	10.00	KGS	85	850.00
ASSTD. NAIL (3")	10.00	KGS	85	850.00
SUB-TOTAL				139,800.25
B. LABOR				
				41,940.08
SUB-TOTAL				41,940.08
C. ESTIMATED DIRECT COST (EDC)= a+b				181,740.33
D. INDIRECT COST/MARK-UP				
OC as_15% of EDC				27,261.05
PROFIT as_10% of EDC				18,174.03
TOTAL OF (E)				45,435.08
E. VALUE ADDED TAX_5_% of C+D				11,358.77
F. TOTAL COST = C+D+E				238,534.18
G. UNIT COST/ LOT				238,534.18

CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
BGY. ARAMAYWAN NARRA, PALAWAN
DETAILED ESTIMATE

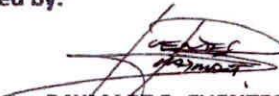
ITEM OF WORKS:	DRAIN PIPE	DATE:	4/20/2023	
		TOTAL COST:	1,464,469.95	
ITEM NO.:	1001(1)			
WORK DESCRIPTION:	DRAIN PIPE	QTY.	1800 LM.	
A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
2' Dia. G.I PIPE SCHEDULE 40	4	PCS	2,730.00	10,920.00
2' Dia. G.I ELBOW 90° SCHED 40	6	PCS	310.00	1,860.00
PE PIPES 2' Dia. (60m) SDR 17	44	ROLLS	17,500.00	770,000.00
2' Dia. dia. GATE VALVE	7	PCS	1,450.00	10,150.00
COMPRESSION COUPLING 2' Dia.	43	PCS	460.00	19,780.00
COMPRESSION TEE 2' Dia.	2	PCS	652.46	1,304.92
2' Dia.. End CAP	4	PCS	445.62	1,782.48
COMMUNAL FAUCET	17	PCS	2,500.00	42,500.00
SUB-TOTAL				858,297.40
B. LABOR				
				257,489.22
SUB-TOTAL				257,489.22
C. ESTIMATED DIRECT COST (EDC)= a+b				1,115,786.62
D. INDIRECT COST/MARK-UP				
OC as_15% of EDC				167,368.00
PROFIT as_10% of EDC				111,578.66
TOTAL OF (D)				278,946.66
E. VALUE ADDED TAX_5_% of C+D				69,736.66
F. TOTAL COST = C+D+E				1,464,469.95
G. UNIT COST/ LOT				610.20

SUMMARY

ITEM NO.	SCOPE OF WORKS	COST		
		MATERIALS	LABOR	TOTAL COST
	GENERAL REQUIREMENTS			
A.1.1(5)	CONSTRUCTION OF TEMP. FACILITIES	25,000.00		25,000.00
	OTHER GENERAL REQUIREMENTS			
B.5	PROJECT BILLBOARD/SIGNBOARD	5,000.00	1,500.00	6,500.00
B.7	OCCUPATIONAL SAFETY AND HEALTH	6,000.00	0.00	6,000.00
B.9	MOBILIZATION / DEMOBILIZATION	32,960.00	0.00	32,960.00
	EARTHWORKS			
1700(1)	CLEARING & GRUBBING	30,000.00	0.00	30,000.00
803 (1) c	STRUCTURE EXCAVATION & BACKFILLING	11,250.00	3,375.00	14,625.00
	STRUCTURAL CONCRETE			
405(1)	STRUCTURAL CONCRETE CLASS A	562,600.00	168,780.00	731,380.00
405 (6)	STRUCTURAL CONCRETE,PAINTING WORKS	14,855.00	4,456.50	19,311.50
	REINFORCING STEEL BARS			
902.1.a2	REINFORCING STEEL BARS GRADE 60	215,315.00	64,594.50	279,909.50
	FORMS AND FALSEWORKS			
414	FORMS AND FALSEWORKS	139,800.25	41,940.08	181,740.33
	DRAIN PIPE			
1001(1)	DRAIN PIPE	858,297.40	257,489.22	1,115,786.62
				2,443,212.95

TOTAL MATERIALS COST	1,901,077.65	
TOTAL LABOR COST	542,135.30	
DIRECT COST		2,443,212.95
OC as_15% of DC		360,637.95
PROFIT as_10% of DC		241,025.29
VALUE ADDED TAX_5_% of MC+LABOR+OCM+PROFIT		152,243.81
TOTAL		3,197,120.00
ESAO, 3%(DC+PROFIT+OCM+VAT)		98,880.00
TOTAL ESTIMATE PROJECT COST		3,296,000.00

Prepared by:


RAYMART B. FUENTES
Proj. Monitoring & Evaluation Officer

RECOMMENDING APPROVAL:


RENATO S. GONZAGA
CENRO QUEZON

Approved by:


FELIZARDO B. CAYATOC
PENRO

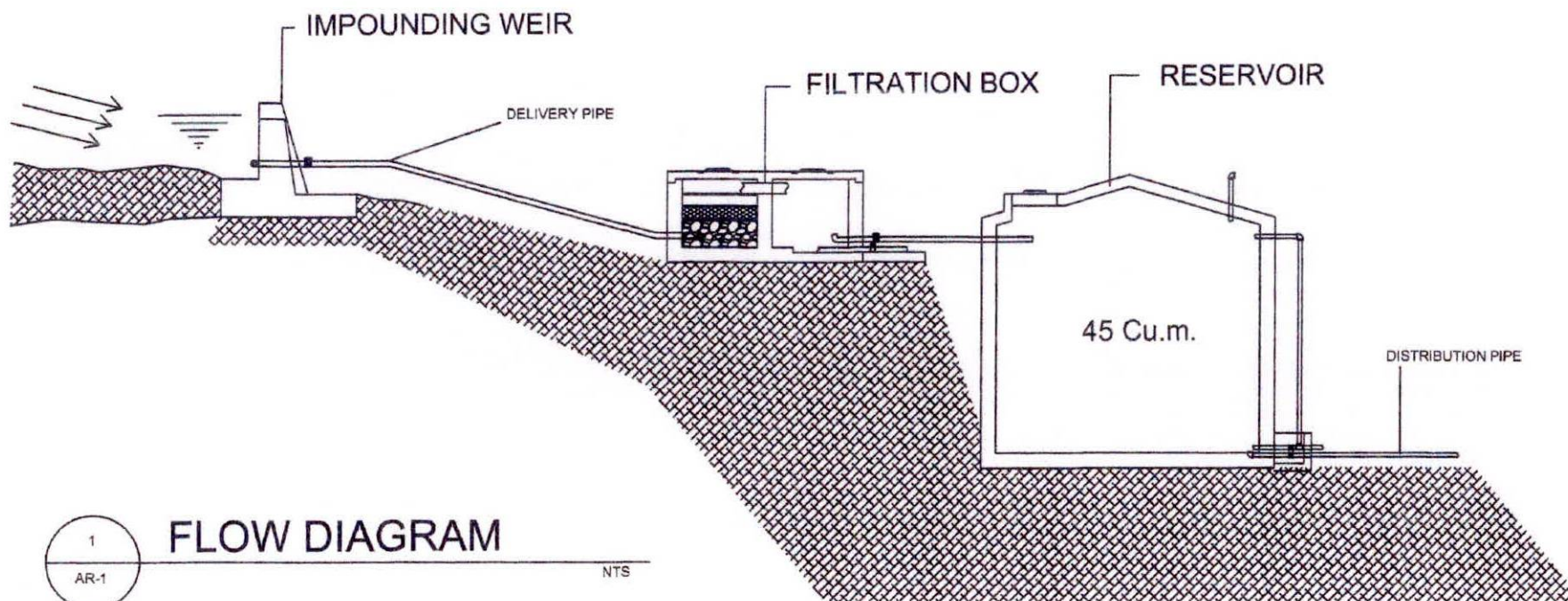
CONSTRUCTION SCHEDULE AND S-CURVE

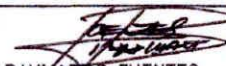
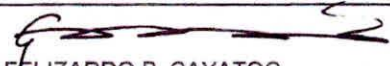
ITEM NO.	DESCRIPTION	%WEIGHT	COST	NO. OF DAYS	1ST MONTH	2ND MONTH	3RD MONTH	4TH MONTH	5TH MONTH	6TH MONTH	7TH MONTH	8TH MONTH
GENERAL REQUIREMENTS												
A.1.1(5)	CONSTRUCTION OF TEMP. FACILITIES	1.03%	32,812.50	150								
OTHER GENERAL REQUIREMENTS												
B.5	PROJECT BILLBOARD/SIGNBOARD	0.27%	8,531.25	1								
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAM	0.22%	6,930.00	150								
B.9	MOBILIZATION / DEMOBILIZATION	1.08%	34,608.00	6								
EARTHWORKS												
1700(1)	CLEARING & GRUBBING	1.23%	39,375.00	5								
803 (1) c	STRUCTURE EXCAVATION & BACKFILLING	0.60%	19,195.31	4								
STRUCTURAL CONCRETE												
405(1)	STRUCTURAL CONCRETE CLASS A	30.03%	959,936.25	95								
405 (6)	STRUCTURAL CONCRETE, PAINTING WORKS	0.79%	25,346.34	6								
REINFORCING STEEL BARS												
902.1.a2	REINFORCING STEEL BARS GRADE 60	11.49%	367,381.22	40								
414	FORMS AND FALSEWORKS	7.46%	238,534.18	14								
1001(1)	DRAIN PIPE	45.81%	1,464,469.95	51								
ABC		100%	3,197,120.00									
MONTHLY CUMMULATIVE					17.68%	15.48%	9.73%	36.67%	20.44%			
					17.68%	33.15%	42.88%	79.56%	100.00%			
PROJECT TITLE:		LOCATIO:		PREPARED BY:		APPROVED BY:						
CONSTRUCTION FO SMALL WATER IMPOUNDING SYSTEM (SWIS)		BGY. ARAMAYWAN NARRA, PALAWAN		 BAYMAR B. FUENTES Proj. Monitoring & Evaluation		 FELIZARDO B. CAYATOC PENRO						

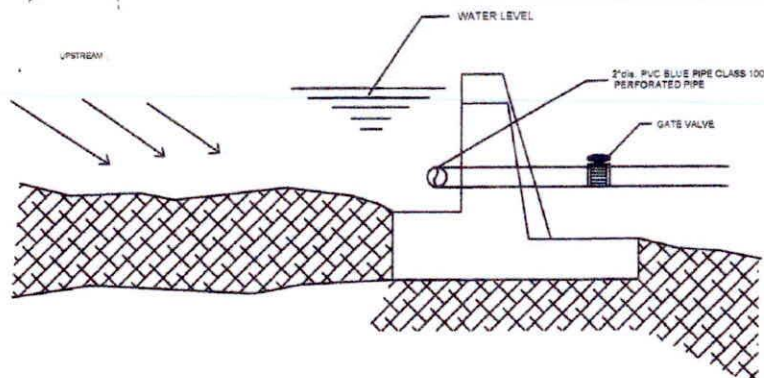
150 DAYS



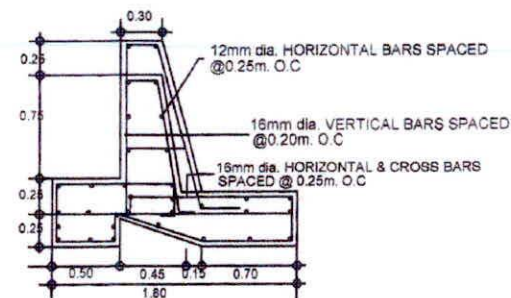
PROJECT TITLE:	LOCATIO:	PREPARED AND SUBMITTED BY:	APPROVED:
CONSTRUCTION FOR SMALL WATER IMPOUNDING SYSTEM (SWIS)	BGY. ARAMAYWAN NARRA, PALAWAN	 RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	 FELIZARDO B. CAYATOC PENRO



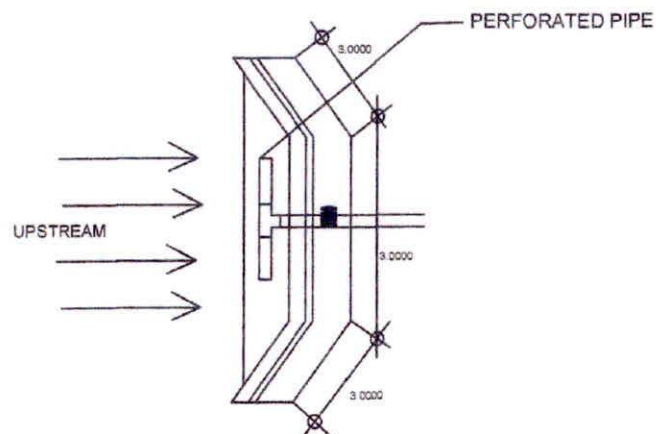
REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office QUEZON, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION Bgy. Aramaywan, Palawan	PREPARED BY  RAYMAR B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL  RENATO S. GONZAGA CENTRO QUEZON	APPROVAL  FELIZARDO B. CAYATOC PENRO	SHEET NO. 1 8
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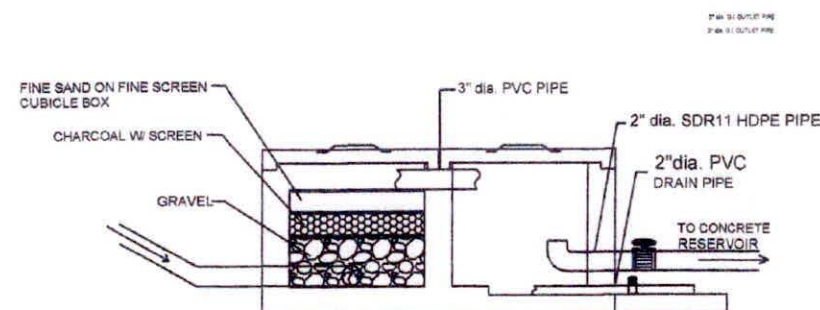
2
AR-2
WEIR CROSS SECTION "a"
NTS



1
ST-1
WEIR CROSS SECTION
NTS

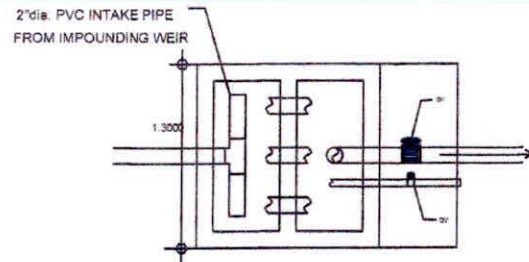


1
AR-2
WEIR CROSS SECTION
NTS



4
AR-2
FILTRATION BOX ELEV. DETAILS "A"
NTS

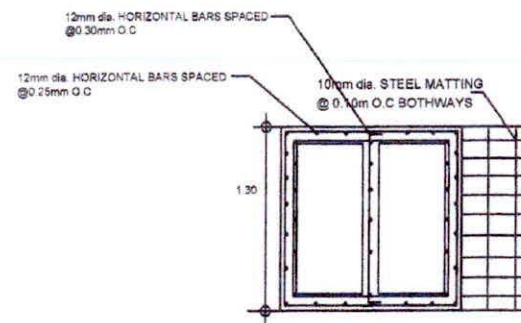
REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office QUEZON, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION Bgy. Aramaywan, Palawan	PREPARED BY RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION/ APPROVAL RENATO S. GONZAGA CENTRO QUEZON	APPROVAL FELIZARDO B. CAYATOC PENRO	SHEET NO. 2 / 8
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3
AR-2

FILTRATION BOX PLAN

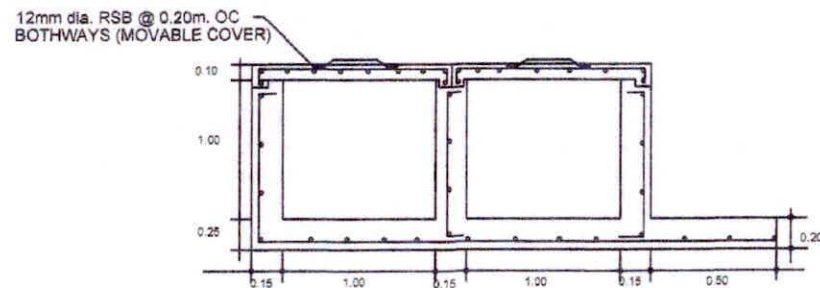
NTS



2
ST-1

FILTRATION REINFORCING DETAILS

NTS

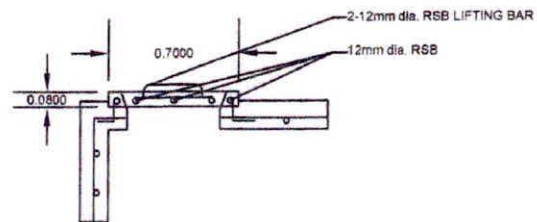


3
ST-1

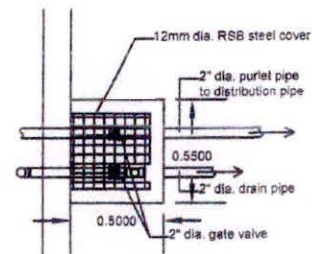
FILTRATION BOX ELEV. REINF.DETAILS

NTS

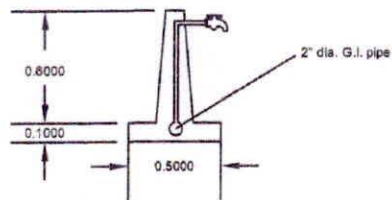
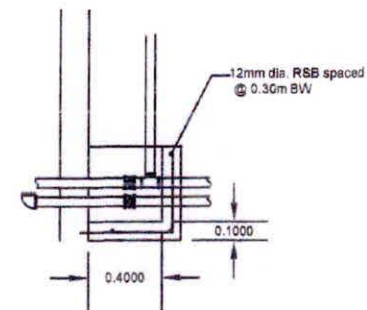
REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office QUEZON, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION Bgy. Aramaywan, Palawan	PREPARED BY RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL RENATO S. GONZAGA CENRO QUEZON	APPROVAL FELIZARDO B. CAYATOC PENRO	SHEET NO. 3 8
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DETAIL OF MANHOLE
SCALE 1:100

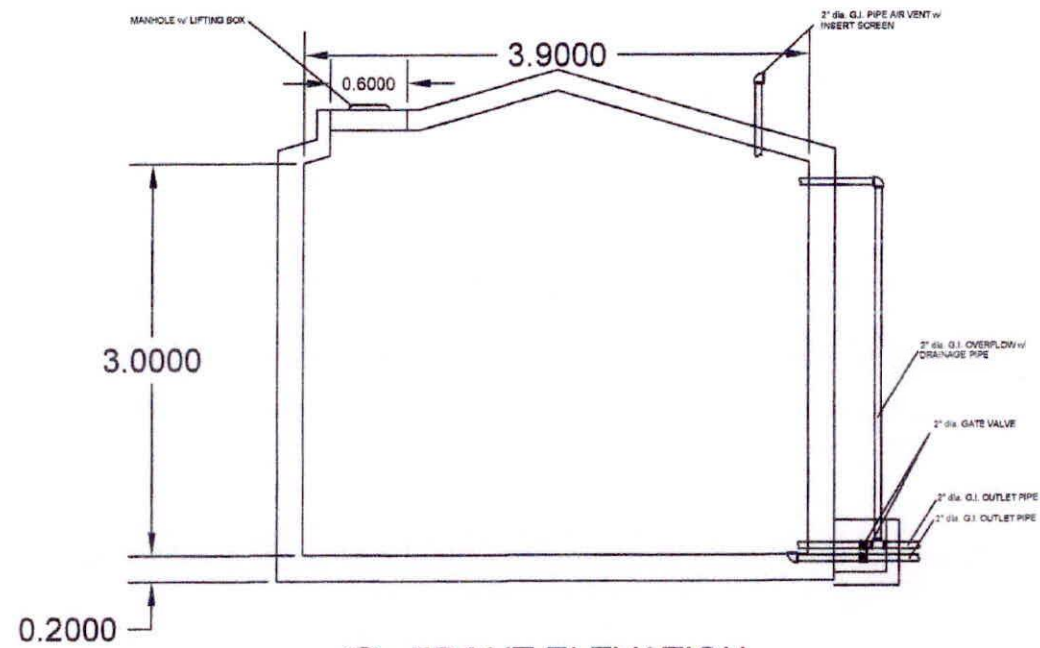


DETAIL OF VALVE BOX
SCALE 1:100



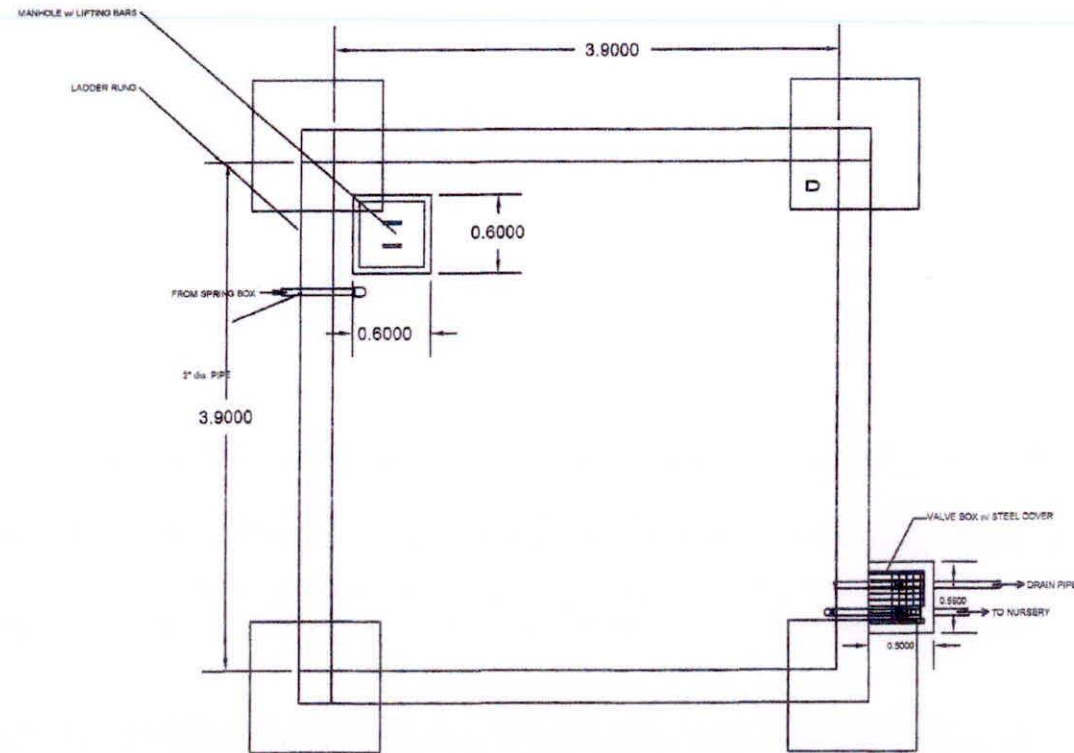
COMMUNAL FAUCET
SCALE 1:100

REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office QUEZON, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION Bgy. Aramaywan, Palawan	PREPARATION BY  RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL  RENATO S. GONZAGA CENRO QUEZON	APPROVAL  FELIZARDO B. CAYATOC PENRO	SHEET NO. 4 8
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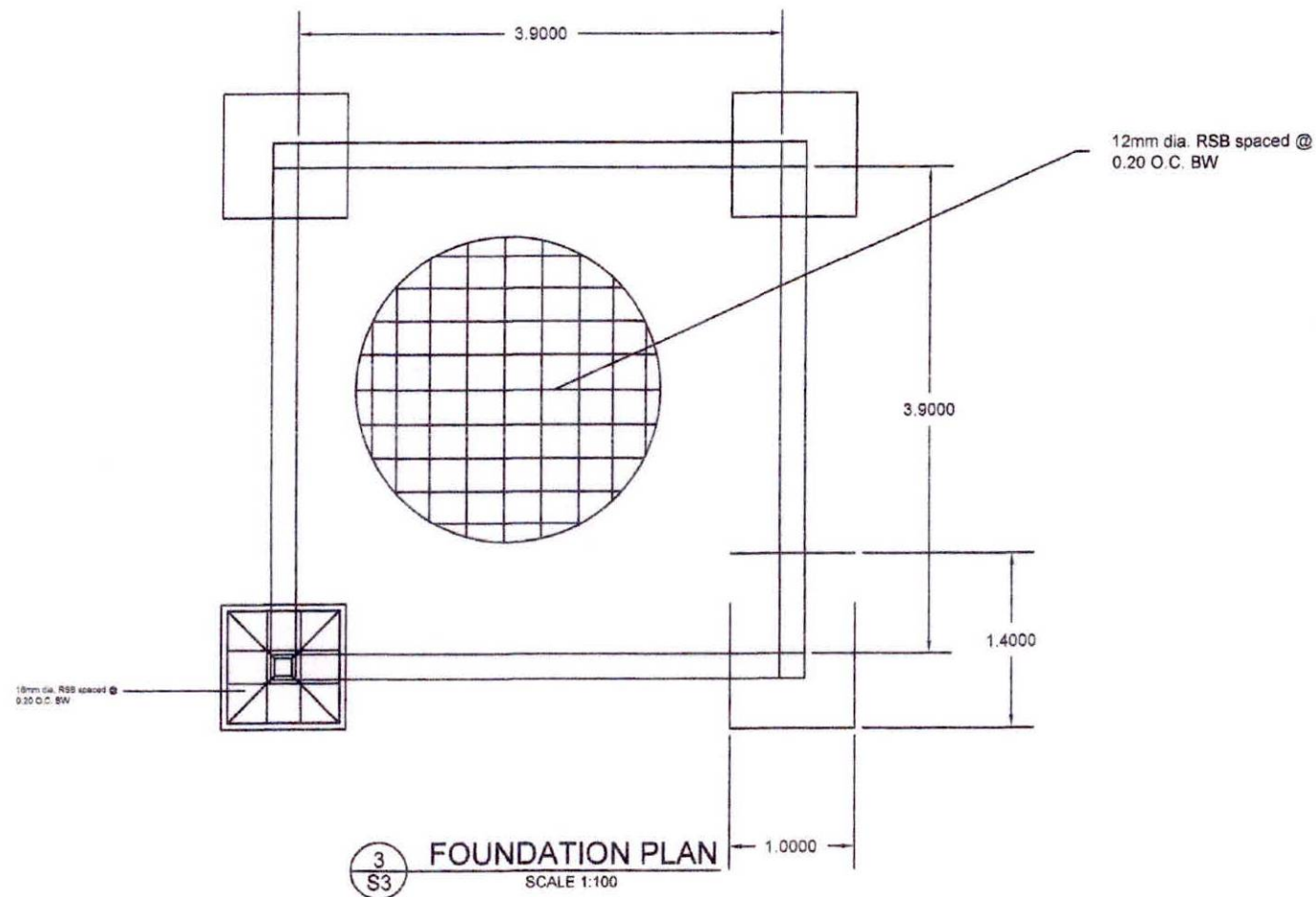
3
S3 FRONT ELEVATION
SCALE 1:100

REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office QUEZON, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWS) LOCATION Bgy. Aramaywan, Palawan	PREPARATION BY RAYMART B. FUENTES Project Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL RENATO S. GONZAGA CENRO QUEZON	APPROVAL FELIZARDO B. CAYATOC PENRO	SHEET NO. 5 8
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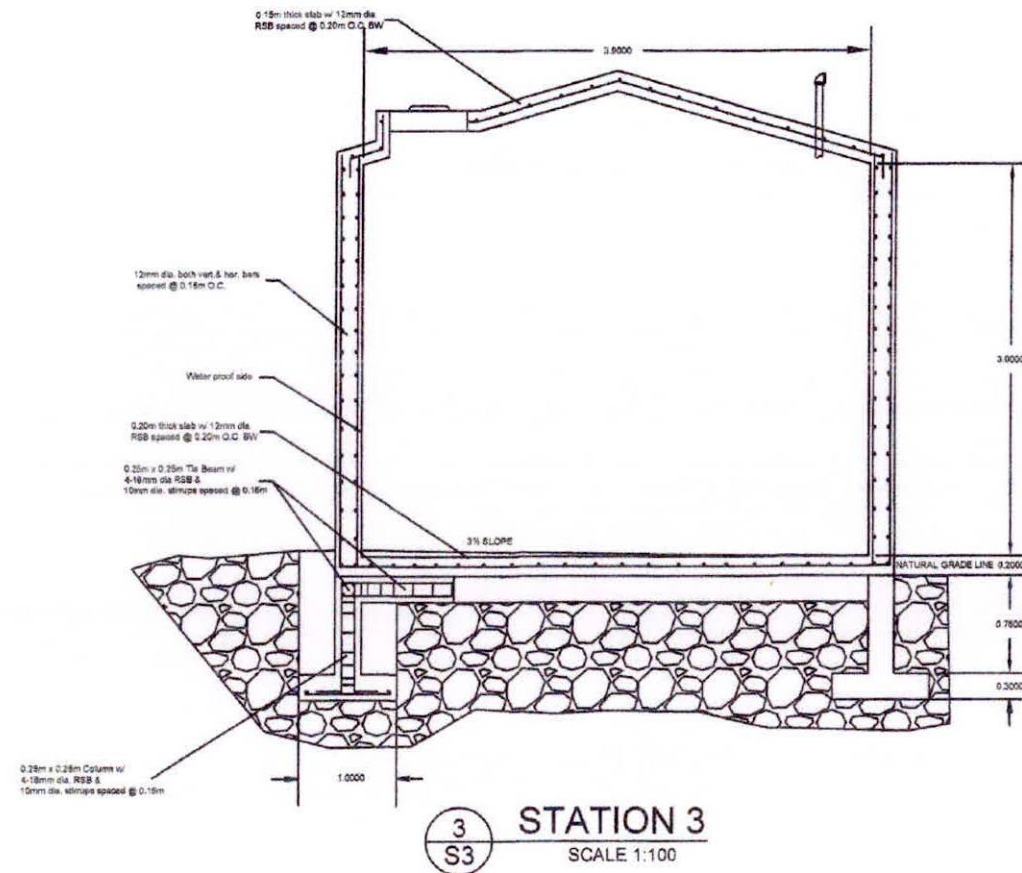


3 TOP ELEVATION
S3 SCALE 1:100

PROJECT TITLE	PREPARATION BY:	RECOMMENDATION APPROVAL	APPROVAL	SHEET NO.
REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office QUEZON, PALAWAN SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION: Bgy. Aramaywan, Palawan	RAYMART E. FUENTES Proj. Monitoring & Evaluation Officer	REYNATO S. GONZAGA CENRO QUEZON	FELIZARDO B. CAYATOC PENRO	6 8



PROJECT TITLE	PREPARATION BY:	RECOMMENDATION APPROVAL:	APPROVAL	SHEET NO.
REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office QUEZON, PALAWAN SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION: Bgy. Aramaywan, Palawan	<i>[Signature]</i> RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	<i>[Signature]</i> RENATO S. GONZAGA GENRO QUEZON	<i>[Signature]</i> FELIZARDO B. CAYATOC PENRO	7 8



REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office QUEZON, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION: Bgy. Aramaywan, Palawan	PREPARATION BY RAYMAR B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION/ APPROVAL RENATO S. GONZAGA CENTRO-QUEZON	APPROVAL FELIZARDO B. CAYATOC PENRO	SHEET NO. 8 / 8
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Republic of the Philippines
Department of Environment and Natural Resources
Provincial Environment and Natural Resources Office
Sta. Monica, Puerto Princesa City, Palawan
E-mail: denrpenropalawan@gmail.com
Telfax No. (048) 433-5638

October 4, 2023

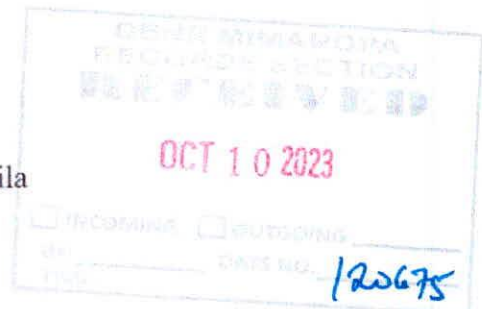
MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region
1515 DENR By the Bay Building,
Roxas Blvd., Bgy. 668, Ermita, Manila

THRU : The ARD for Technical Services

FROM : The PENR Officer
Puerto Princesa City

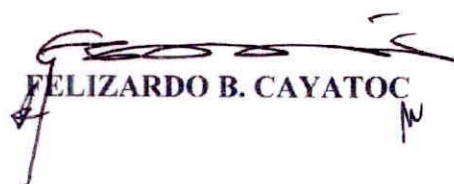
SUBJECT : **RESOLUTION DATED 22 OF MARCH 2023 OF STA. MARIA FARMERS MULTI-PURPOSE COOPERATIVE (SMFPC) FOR A SMALL WATER IMPOUNDING SYSTEM (SWIS) PROJECT IN BGY. STA. MARIA, DUMARAN, PALAWAN**



In line with our proposed target activity for CY 2024, respectfully submitted is the memorandum of CENRO Roxas, Palawan with attached Resolution dated March 22, 2023 of Sta. Maria Farmers' Multi-Purpose Cooperative (SMFPC), requesting for a SWIS Project within their CBFMA area.

Please be informed that SMFPC are one of the beneficiaries of CY 2018 National Greening Program (NGP). Attached are the necessary documents needed for the proposal such as Map of the proposed location, Program of Works, Detailed Cost Estimate, S-curve and the Sketch/Design Plan.

For information and consideration.


FELIZARDO B. CAYATOC





Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Barangay III (Poblacion), Roxas, Palawan
Telephone No. 717-0892
Email address: cenroroxaspalawan@denr.gov.ph

04 April 2023

Dumaran

MEMORANDUM

FOR : The PENR Officer
Sta. Monica, Puerto Princesa City

FROM : The CENR Officer

SUBJECT : **RESOLUTION OF 22 MARCH 2023 REQUESTING FOR A
SMALL WATER IMPOUNDING SYSTEM (SWIS) PROJECT
IN BGY. STA. MARIA, DUMARAN, PALAWAN**

**DENR PENRO
PALAWAN RECORDS
RECEIVED**

BY: _____

DATE: 04-25-2023 23 3760

Respectfully forwarded is Sta. Maria Farmers' Multi-Purpose Cooperative (SMFPC) Resolution requesting for a Small Water Impounding System (SWIS) Project in Bgy. Sta. Maria, Dumaran, Palawan certified by its Secretary and duly approved by its Board of Directors. It aims to supply its Forty-six (46) target beneficiaries and nearby communities with clean water.

For further instruction and eventual consideration.

For the CENR Officer:

RONNIE P. LILANG
Chief, Regulation and Permitting Section
Office-In-Charge

**DENR - CENRO ROXAS
RELEASED**
DATE: APR 13 2023

BY: _____

NO. 2023 04 - 0560

STA. MARIA FARMER'S MULTI-PURPOSE COOPERATIVE
Barangay Sta. Maria, Dumarán, Palawan
CDA Reg. No. 9520-04003099
TIN No. 005-327-025



Sipi sa katitikan sa regular na Pagpupulong ng mga Board of Directors ng Sta. Maria Farmer's Multi-Purpose Cooperative (SMFMPC-CBFMA) na ginanap sa bahay-pulungan ngayong ika-22 ng Marso taong 2023.

Mga dumalo: Evelyn C. Espeloy ————— BOD Chairperson
Sharene R. Bagona ————— BOD Vice-Chairperson
Loreto B. Dalan ————— BOD Member
Cristina G. Recaido ————— BOD Member
Melyn C. Francisco ————— BOD Member

Resolusyon Bilang Taong 2023

Isang Resolusyon na humihiling sa Tanggapan ng DENR-CENRO Roxas, Palawan na mabigyan ng proyekto ang samahan ng Sta. Maria Farmer's Multi-Purpose Cooperative (SMFMPC-CBFMA) tulad ng patubig o SWIS.

Kung saan, ang Barangay Sta. Maria ay mayroong Falls na pinagmumulan ng magandang daluyan ng tubig mula sa kabundukan.

Kung saan, ang samahan at ang buong kumunidad dito sa aming barangay ay nangangailangan ng mailinis at sapat na inuming tubig.

Kung saan, sa kasalukuyan ay mayroon kaming ginagamit na tubig sa aming barangay mula sa falls ngunit ito ay hindi sapat dahil dalawang oras lamang ito lumalabas tuwing umaga dahil nauubusan ng tubig ang tangke nito. Tuwing umaga lang binubuksan ang tangke tuwing hapon at gabi ang pag-ipon ng tubig sa tangke.

Kung saan, hindi ito sapat sa pang-araw-araw na pangangailangan ng mga tao lalo na kung mayroong biglaang pangangailangan tulad ng pagkakaroon bisita sa barangay at selebrasyon tulad ng kasalan at birthday.

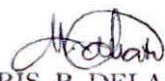
Kung saan, isa kami sa mga Beneficiary ng proyektong patubig dahil mayroon kaming CARP-AGRO Forestry Project at NGP Project.

Kung saan, matagal na kaming nagsumite ng isang Resolusyong natanggap ng opisina tulad nito noong March 8, 2021 at ito ay sinusugang muli na magsumiting muli ng Resolusyon upang matugunan ang aming kahilingan.

Kung kaya't dahil dito: Iminungkahi ni BOD Chairperson Evelyn C. Espeloy na pinangalawahan ni BOD Vice Chairperson Sharen R. Bagona at sinag-ayunan ng lahat ng kasapi ng BOD's ng Sta. Maria Farmer's Multi-Purpose (SMFMPC-CBFMA) upang ang Resolusyong ito ay maging ganap.

Ineresolbang muli, na mapaldalhan ng sipi ng Resolusyong ito sa tanggapan ng DENR-CENRO Roxas, Palawan at iba pang ahensyang concern dito sa impormasyon at agarang aksyon.

Aking pinatutunayan ang kawastuhan ng sipi ng Resolusyong ito.


MARYCRIS R. DELA TORRE
Cooperative Secretary

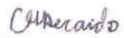
Pinagtibay:


EVELYN C. ESPELOY
BOD Chairperson


LORETO B. DALAN
BOD Member


MELYN C. FRANCISCO
BOD Member


SHARENE R. BAGONA
BOD Vice Chairperson


CRISTINA G. RECAIDO
BOD Member

STA. MARIA FARMER'S MULTI-PURPOSE COOPERATIVE
Barangay Sta. Maria, Dumarang, Palawan
CDA Reg. No. 9520-04003099
TIN No. 005-327-025

Sipi sa katitikan sa Regular na Pulong ng Board of Directors ng Sta. Maria Multi-Purpose Cooperative (SMFMPC-CBFMA) na ginanap sa bahay-pulungan ngayong ika-21 ng Pebrero taong 2021.

Mga dumalo: Evelyn C. Espeloy-----BOD Chairman
Ramon S. Recaido-----BOD Vice Chairman
Raquel V. Aurelio-----BOD Member
Loreto B. Dalan-----BOD Member
Cristina G. Recaido-----BOD Member

Mga di dumalo: wala



Resolusyon Bilang 2 Taong 2021

Isang Resolusyon na humihiling sa Tanggapan ng DENR_CENRO Roxas, Palawan na mabigyang proyekto ang samahan ng Sta. Maria Farmer's Multi-Purpose Cooperative (SMFMPC-CBFMA) tulad ng patubig o SWIS.

Kung saan, ang Barangay Sta. Maria ay mayroong pinagmumulan ng magandang daloy ng tubig na galing sa kabundukan na mayroong Falls na dito nagmumula ang magandang daloy ng tubig.

Kung saan, ang samahan at ang buong komunidad dito sa Barangay Sta. Maria ay nangangailangan ng mapagkukunan ng sapat at malinis na inuming tubig.

Kung saan, sa kasalukuyan ay mayroon kaming gingamit na tubig na mula ito sa aming falls subalit hindi ito sapat dahil dalawang oras lamag ito lumalabas kada umaga dahil nauubusan ng tubig ang tangke nito. Tuwing hapon hanggang gabi ay nag-iipon ng tubig sa tangke at sa umaga ito bubuksan upang magkaroon ng tubig ang mga tao.

Kung saan, hindi ito sapat sa pang-araw-araw na pangangailangan ng mga tao lalo na kung mayroong biglaang pangangailangan tulad ng pagkakaroon ng mga bisita sa aming barangay.

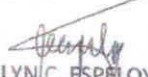
Kung kaya't dahil dito, iminungkahi ni BOD Chairman Evelyn C. Espeloy na pinangalawahan ni BOD Vice Chairman Ramon S. Recaido at sinang-ayunan ng lahat ng kasapi ng BOD'S ng Sta. Maria Farmer's Multi-Purpose Cooperative (SMFMPC-CBFMA) upang ang resolusyong ay maging ganap.

Ineresolbang muli, na mapadalan ng sipi ng Resolusyong ito sa Tanggapan ng DENR-CENRO Roxas, Palawan at iba pang ahensyang concern dito sa impormasyon at agarang aksyon.

Aking pinatutunayan ang kawastuhan ng sipi ng Resolusyong ito.

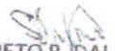

MARYCRIS R. DELA TORRE
Coop. Secretary

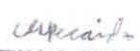
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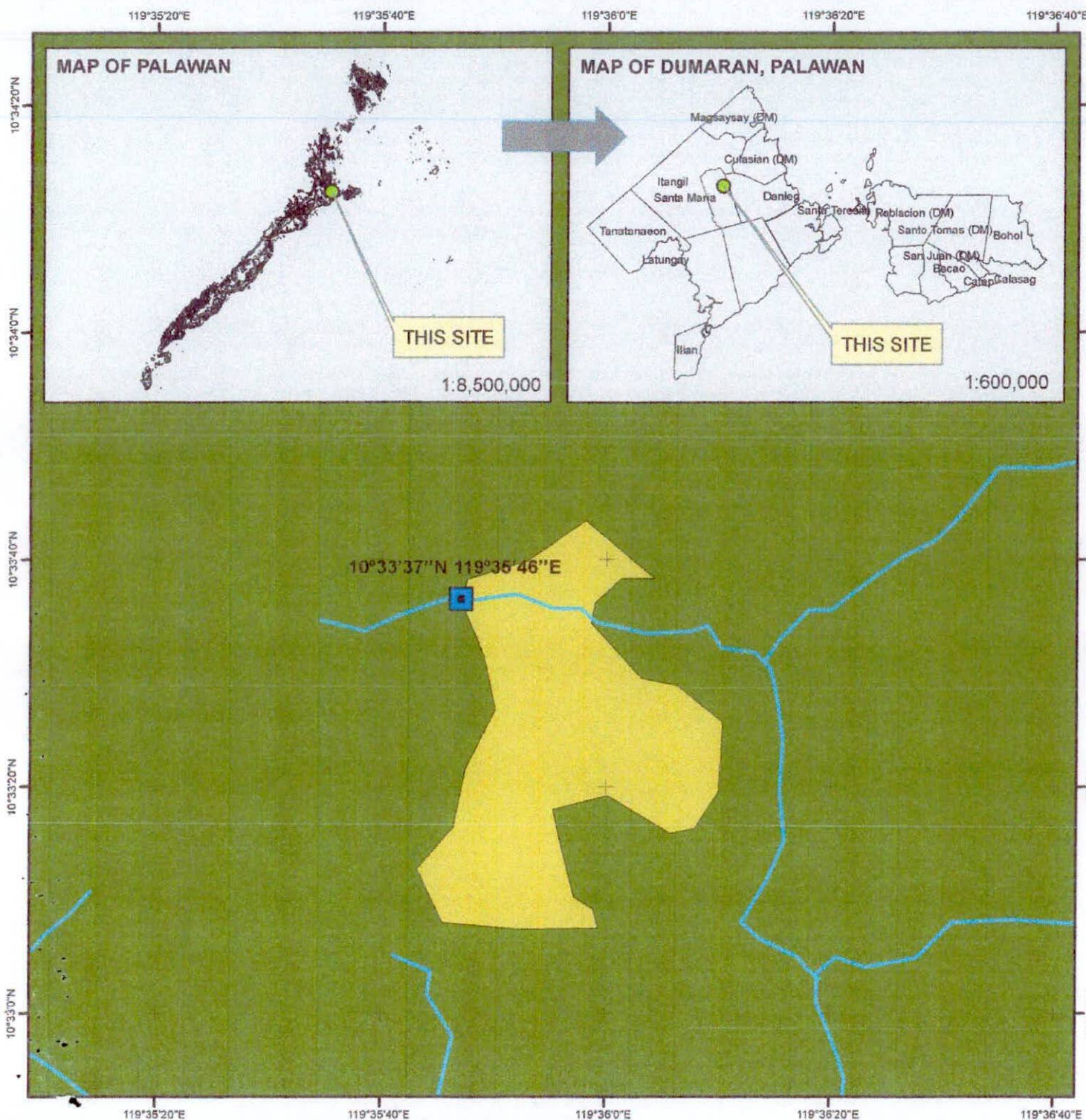

EVELYN C. ESPEY
BOD CHAIRMAN


RAMON S. RECAIDO
BOD VICE CHAIRMAN


RAQUEL V. AURELLO
BOD MEMBER


LORETO B. DALAN
BOD MEMBER


CRISTINA G. RECAIDO
BOD MEMBER

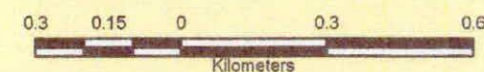


Republic of the Philippines
Department of Environment and Natural Resources
Region IV - MIMAROPA
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Barangay III, Roxas, Palawan
Contact no. 09171606578/09175028647
Email address: cenrroxaspalawan@denr.gov.ph



**MAP SHOWING THE PROPOSED
SMALL WATER IMPOUNDING SYSTEM (SWIS)
WITHIN THE NGP CY 2018 PROJECT
AT BARANGAY STA. MARIA,
DUMARAN PALAWAN**

AREA: 35 Hectares
SEEDLINGS PLANTED: 25,662
SITE CODE: 18-175318-0196-0035



Coordinate System: WGS 1984 World Mercator
Projection: Mercator
Datum: WGS 1984

Legend

Proposed SWIS Site

Creeks

NGP 2018

Palawan LC map WGS

LC_STATUS

Alienable & Disposable

Forestland

UPF

Digitized by:

JERIC V. DAGARAGA
Forest Technician I

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
REGION IV-B MIMAROPA
PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE

PROGRAM OF WORKS

PROJECT: CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
LOCATION: BGY. STA. MARIA DUMARAN, PALAWAN
APPROPRIATION: Php3,296,000.00
CAL. DAYS TO COMPLETE: 150 DAYS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
	GENERAL REQUIREMENTS				
A.1.1(5)	CONSTRUCTION OF TEMP. FACILITIES	1	LOT	32,812.50	32,812.50
	OTHER GENERAL REQUIREMENTS				
B.5	PROJECT BILLBOARD/SIGNBOARD	1	LOT	8,531.25	8,531.25
B.7	OCCUPATIONAL SAFETY AND HEALTH				
B.9	PROGRAM	1	LOT	6,930.00	6,930.00
	MOBILIZATION / DEMOBILIZATION	1	LOT	34,608.00	34,608.00
	EARTHWORKS				
1700(1)	CLEARING & GRUBBING	1	LOT	39,375.00	39,375.00
803 (1) c	STRUCTURE EXCAVATION & BACKFILLING	25	CU.M.	767.81	19,195.31
	STRUCTURAL CONCRETE				
405(1)	STRUCTURAL CONCRETE CLASS A	90	CU.M.	10,665.96	959,936.25
405 (6)	STRUCTURAL CONCRETE, PAINTING				
	WORKS	195	SQM	129.98	25,346.34
	REINFORCING STEEL BARS				
902.1.a2	REINFORCING STEEL BARS GRADE 60	1	LOT	367,381.22	367,381.22
	FORMS AND FALSEWORKS				
414	FORMS AND FALSEWORKS	1	LOT	238,534.18	238,534.18
	DRAIN PIPE				
1001(1)	DRAIN PIPE	2400	LM.	610.20	1,464,469.95
SUB-TOTAL					3,197,120.00

DIRECT COST

1 MATERIALS	1,901,077.65	
2 LABOR	542,135.30	
TOTAL DIRECT COST	2,443,212.95	74.13%
OCM EXPENSES	360,637.95	10.94%
CONTRACTOR PROFIT	241,025.29	7.31%
VAT	152,243.81	4.62%
	3,197,120.00	
ESAO	98,880.00	3.00%

TOTAL APROPRIATION	PHp.	3,296,000.00	100.00%
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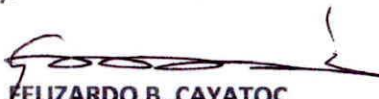
Prepared by:


RAYMART B. FUENTES
Proj. Monitoring & Evaluation Officer

RECOMMENDING APPROVAL:


PABLO L. CRUZ
CENRO ROXAS

Approved by:


FELIZARDO B. CAYATOC
PENRO

CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
BGY. STA. MARIA DUMARAN, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	GENERAL REQUIREMENTS			DATE:	4/20/2023
ITEM NO.:	A.1.1(5)			TOTAL COST:	32,812.50
WORK DESCRIPTION:	CONSTRUCTION OF TEMP. FACILITIES			QTY.	1 LOT
A. MATERIALS					
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT	
PROVISION OF FIELD OFFICE	1	L.S.	25,000.00	25,000.00	
				-	
				-	
	SUB-TOTAL			25,000.00	
B. LABOR					
				-	
	SUB-TOTAL			0.00	
C. ESTIMATED DIRECT COST (EDC)= a+b				25,000.00	
D. INDIRECT COST/MARK-UP					
	OC as_15% of EDC			3,750.00	
	PROFIT as_10% of EDC			2,500.00	
	TOTAL OF (D)			6,250.00	
E. VALUE ADDED TAX_5_% of C+D				1,562.50	
F. TOTAL COST =C+D+E				32,812.50	
G. UNIT COST/ LOT				32,812.50	

ITEM OF WORKS:	OTHER GENERAL REQUIREMENTS			DATE:	4/20/2023
ITEM NO.:	B.5			TOTAL COST:	8,531.25
WORK DESCRIPTION:	PROJECT BILLBOARD/SIGNBOARD			QTY.	1 LOT
A. MATERIALS					
DESCRIPTION		QUANTITY	UNIT	UNIT COST	AMOUNT
PROJECT BILLBOARD/SIGNBOARD		1	L.S	5,000.00	5,000.00
					-
		SUB-TOTAL			5,000.00
B. LABOR					
					1,500.00
					-
		SUB-TOTAL			1,500.00
C. ESTIMATED DIRECT COST (EDC)= a+b					6,500.00
D. INDIRECT COST/MARK-UP					
		OC as_15% of EDC			975.00
		PROFIT as_10% of EDC			650.00
		TOTAL OF (E)			1,625.00
E. VALUE ADDED TAX_5_% of C+D					406.25
F. TOTAL COST = C+D+E					8,531.25
G. UNIT COST/ LOT					8,531.25

CONSTRUCTION OF SMALL WATER
IMPOUNDING SYSTEM (SWIS)
BGY. STA. MARIA DUMARAN, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	OTHER GENERAL REQUIREMENTS		DATE:	4/20/2023
			TOTAL COST:	6,930.00
ITEM NO.:	B.7			
WORK DESCRIPTION:	OCCUPATIONAL SAFETY AND HEALTH PROGRAM QTY.			1 LOT
A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
PPE's	1	L.S	6,000.00	6,000.00
	SUB-TOTAL			6,000.00
B. LABOR				
	SUB-TOTAL			0.00
C. ESTIMATED DIRECT COST (EDC)= a+b				6,000.00
D. INDIRECT COST/MARK-UP				
	OC as _15% of EDC			
	PROFIT as _10% of EDC			600.00
	TOTAL OF (E)			600.00
E. VALUE ADDED TAX _5_% of C+D				330.00
F. TOTAL COST = C+D+E				6,930.00
G. UNIT COST/ LOT				6,930.00

ITEM OF WORKS:	OTHER GENERAL REQUIREMENTS		DATE:	4/20/2023
			TOTAL COST:	34,608.00
ITEM NO.:	B.9			
WORK DESCRIPTION:	MOBILIZATION / DEMOBILIZATION		QTY.	1 LOT
A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
MOBILIZATION / DEMOBILIZATION	1	L.S	32,960.00	32,960.00
	SUB-TOTAL			32,960.00
B. LABOR				
	SUB-TOTAL			0.00
C. ESTIMATED DIRECT COST (EDC)= a+b				32,960.00
D. INDIRECT COST/MARK-UP				
	OC as _15% of EDC			
	PROFIT as _10% of EDC			
	TOTAL OF (E)			0.00
E. VALUE ADDED TAX _5_% of C+D				1,648.00
F. TOTAL COST = C+D+E				34,608.00
G. UNIT COST/ LOT				34,608.00

IMPOUNDING SYSTEM (SWIS)
BGY. STA. MARIA DUMARAN, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	EARTHWORKS			DATE:	4/20/2023
				TOTAL COST:	39,375.00
ITEM NO.:	1700(1)				
WORK DESCRIPTION:	CLEARING & GRUBBING			QTY.	1 LOT
A. MATERIALS					
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT	
CLEARING & GRUBBING	1	L.S.	30,000.00	30,000.00	
				-	
	SUB-TOTAL			30,000.00	
B. LABOR					
				-	
	SUB-TOTAL			0.00	
C. ESTIMATED DIRECT COST (EDC)= a+b				30,000.00	
D. INDIRECT COST/MARK-UP					
	OC as_15% of EDC			4,500.00	
	PROFIT as_10% of EDC			3,000.00	
	TOTAL OF (E)			7,500.00	
E. VALUE ADDED TAX_5_% of C+D				1,875.00	
F. TOTAL COST = C+D+E				39,375.00	
G. UNIT COST/ LOT				39,375.00	

ITEM OF WORKS:	EARTHWORKS		DATE:	4/20/2023	
			TOTAL COST:	19,195.31	
ITEM NO.:	803 (1) c				
WORK DESCRIPTION:	STRUCTURE EXCAVATION & BACKFILLING		QTY.	25 cu.m.	
A. MATERIALS					
DESCRIPTION		QUANTITY	UNIT	UNIT COST	AMOUNT
REMOVAL OF SEDIMENT		25	cu.m.	450	11,250.00
					-
					-
		SUB-TOTAL			11,250.00
B. LABOR					
					3,375.00
					-
		SUB-TOTAL			3,375.00
C. ESTIMATED DIRECT COST (EDC)= a+b				14,625.00	
D. INDIRECT COST/MARK-UP					
		OC as_15% of EDC		2,193.75	
		PROFIT as_10% of EDC		1,462.50	
		TOTAL OF (E)		3,656.25	
E. VALUE ADDED TAX_5_% of D+E				914.06	
F. TOTAL COST = D+E+F				19,195.31	
G. UNIT COST/ LOT				767.81	

CONSTRUCTION OF SMALL WATER

IMPOUNDING SYSTEM (SWIS)
BGY. STA. MARIA DUMARAN, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	STRUCTURAL CONCRETE	DATE:	4/20/2023	
ITEM NO.:	405(1)	TOTAL COST:	959,936.25	
WORK DESCRIPTION:	STRUCTURAL CONCRETE CLASS A (IMPOUNDING,RESERVOIR(1UNIT))	QTY.	90 CU.M	
A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
PORTLAND CEMENT	990.00	BAGS	380	376,200.00
GRAVEL 3/4	60.00	CU.M.	2000	120,000.00
SAND SCREENED	30.00	CU.M.	2100	63,000.00
SAHARA CEMENT	40.00	PACK	85	3,400.00
				-
	SUB-TOTAL			562,600.00
B. LABOR				168,780.00
				-
	SUB-TOTAL			168,780.00
C. ESTIMATED DIRECT COST (EDC)= a+b				731,380.00
D. INDIRECT COST/MARK-UP				
	OC as_15% of EDC			109,707.00
	PROFIT as_10% of EDC			73,138.00
	TOTAL OF (D)			182,845.00
E. VALUE ADDED TAX_5_% of C+D				45,711.25
F. TOTAL COST = C+D+E				959,936.25
G. UNIT COST/ LOT				10,665.96

IMPOUNDING SYSTEM (SWIS)
BGY. STA. MARIA DUMARAN, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	STRUCTURAL CONCRETE	DATE:	4/20/2023	
ITEM NO.:	405 (6)	TOTAL COST:	25,346.34	
WORK DESCRIPTION:	STRUCTURAL CONCRETE,PAINTING WORKS (IMPOUNDING, RESERVOIR(1-UNIT))	QTY.	1 LOT	
A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
PRIMER PAINT	9	GALS	655	5,895.00
SEMI LATEX PAINT (WHITE)	9	GALS	655	5,895.00
SEMI LATEX PAINT (GREEN)	2	GALS	680	1,360.00
SEMI LATEX PAINT (BLUE)	2	GALS	680	1,360.00
PAINT BRUSH (2")	3	PCS	45	135.00
PAINT BRUSH (1")	3	PCS	35	105.00
PAINT BRUSH (1/2")	3	PCS	35	105.00
SUB-TOTAL				14,855.00
B. LABOR				4,456.50
SUB-TOTAL				4,456.50
C. ESTIMATED DIRECT COST (EDC)= a+b				19,311.50
D. INDIRECT COST/MARK-UP				
OC as_15% of EDC				2,896.73
PROFIT as_10% of EDC				1,931.15
TOTAL OF (D)				4,827.88
E. VALUE ADDED TAX_5_% of C+D				1,206.97
F. TOTAL COST = C+D+E				25,346.34
G. UNIT COST/ LOT				129.98

IMPOUNDING SYSTEM (SWIS)
BGY. STA. MARIA DUMARAN, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	FORMS AND FALSEWORKS	DATE:	4/20/2023
ITEM NO.:	414	TOTAL COST:	238,534.18
WORK DESCRIPTION:	FORMS AND FALSEWORKS	QTY.	1LOT

A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
1/2"THK. MARINE PLYWOOD	40.00	PCS.	1450	58,000.00
2'x2'x10' GOOD LUMBER	666.67	BDFT.	75	50,000.25
2'x3'x10' GOOD LUMBER	390.00	BDFT.	75	29,250.00
ASSTD. NAIL (1")	10.00	KGS	85	850.00
ASSTD. NAIL (2 1/2")	10.00	KGS	85	850.00
ASSTD. NAIL (3")	10.00	KGS	85	850.00
SUB-TOTAL				139,800.25
B. LABOR				
SUB-TOTAL				41,940.08
C. ESTIMATED DIRECT COST (EDC)= a+b				181,740.33
D. INDIRECT COST/MARK-UP				
OC as_15% of EDC				27,261.05
PROFIT as_10% of EDC				18,174.03
TOTAL OF (E)				45,435.08
E. VALUE ADDED TAX_5_% of C+D				11,358.77
F. TOTAL COST = C+D+E				238,534.18
G. UNIT COST/ LOT				238,534.18

IMPOUNDING SYSTEM (SWIS)
BGY. STA. MARIA DUMARAN, PALAWAN
DETAILED ESTIMATE

ITEM OF WORKS:	DRAIN PIPE	DATE:	4/20/2023	
ITEM NO.:	1001(1)	TOTAL COST:	1,464,469.95	
WORK DESCRIPTION:	DRAIN PIPE	QTY.	1800 LM.	
A. MATERIALS				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	AMOUNT
2' Dia. G.I PIPE SCHEDULE 40	4	PCS	2,730.00	10,920.00
2' Dia. G.I ELBOW 90° SCHED 40	6	PCS	310.00	1,860.00
PE PIPES 2' Dia. (60m) SDR 17	44	ROLLS	17,500.00	770,000.00
2' Dia. dia. GATE VALVE	7	PCS	1,450.00	10,150.00
COMPRESSION COUPLING 2' Dia.	43	PCS	460.00	19,780.00
COMPRESSION TEE 2' Dia.	2	PCS	652.46	1,304.92
2' Dia.. End CAP	4	PCS	445.62	1,782.48
COMMUNAL FAUCET	17	PCS	2,500.00	42,500.00
				-
	SUB-TOTAL			858,297.40
B. LABOR				257,489.22
				-
	SUB-TOTAL			257,489.22
C. ESTIMATED DIRECT COST (EDC)= a+b				1,115,786.62
D. INDIRECT COST/MARK-UP				
	OC as_15% of EDC			167,368.00
	PROFIT as_10% of EDC			111,578.66
	TOTAL OF (D)			278,946.66
E. VALUE ADDED TAX_5_% of C+D				69,736.66
F. TOTAL COST = C+D+E				1,464,469.95
G. UNIT COST/ LOT				610.20

SUMMARY

ITEM NO.	SCOPE OF WORKS	COST		
		MATERIALS	LABOR	TOTAL COST
	GENERAL REQUIREMENTS			
A.1.1(5)	CONSTRUCTION OF TEMP. FACILITIES	25,000.00		25,000.00
	OTHER GENERAL REQUIREMENTS			
B.5	PROJECT BILLBOARD/SIGNBOARD	5,000.00	1,500.00	6,500.00
B.7	OCCUPATIONAL SAFETY AND HEALTH	6,000.00	0.00	6,000.00
B.9	MOBILIZATION / DEMOBILIZATION	32,960.00	0.00	32,960.00
	EARTHWORKS			
1700(1)	CLEARING & GRUBBING	30,000.00	0.00	30,000.00
803 (1) c	STRUCTURE EXCAVATION & BACKFILLING	11,250.00	3,375.00	14,625.00
	STRUCTURAL CONCRETE			
405(1)	STRUCTURAL CONCRETE CLASS A	562,600.00	168,780.00	731,380.00
405 (6)	STRUCTURAL CONCRETE, PAINTING WORKS	14,855.00	4,456.50	19,311.50
	REINFORCING STEEL BARS			
902.1.a2	REINFORCING STEEL BARS GRADE 60	215,315.00	64,594.50	279,909.50
	FORMS AND FALSEWORKS			
414	FORMS AND FALSEWORKS	139,800.25	41,940.08	181,740.33
	DRAIN PIPE			
1001(1)	DRAIN PIPE	858,297.40	257,489.22	1,115,786.62
				2,443,212.95

TOTAL MATERIALS COST	1,901,077.65	
TOTAL LABOR COST	542,135.30	
DIRECT COST		2,443,212.95
OC as 15% of DC		360,637.95
PROFIT as 10% of DC		241,025.29
VALUE ADDED TAX 5 % of MC+LABOR+OCM+PROFIT		152,243.81
TOTAL		3,197,120.00
ESAO, 3%(DC+PROFIT+OCM+VAT)		98,880.00
TOTAL ESTIMATE PROJECT COST		3,296,000.00

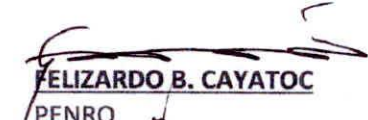
Prepared by:


RAYMARTY B. FUENTES
Proj. Monitoring & Evaluation Officer

RECOMMENDING APPROVAL:


PABLO L. CRUZ
CENRO ROXAS

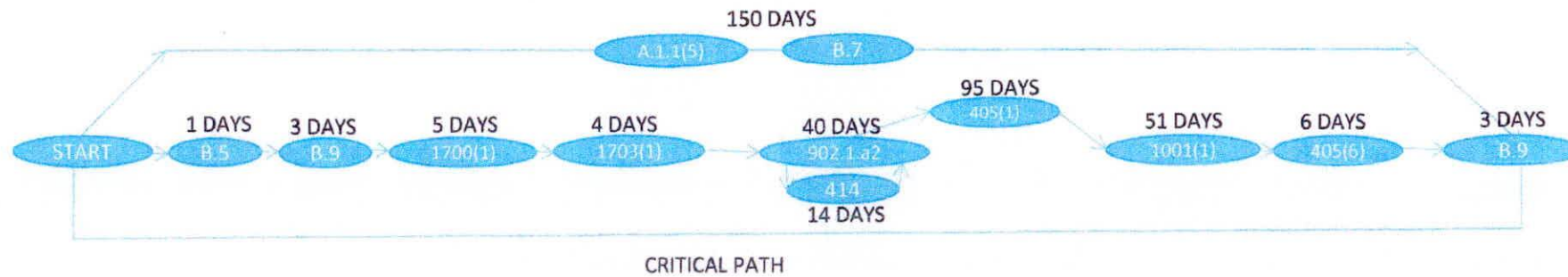
Approved by:


FELIZARDO B. CAYATOC
PENRO

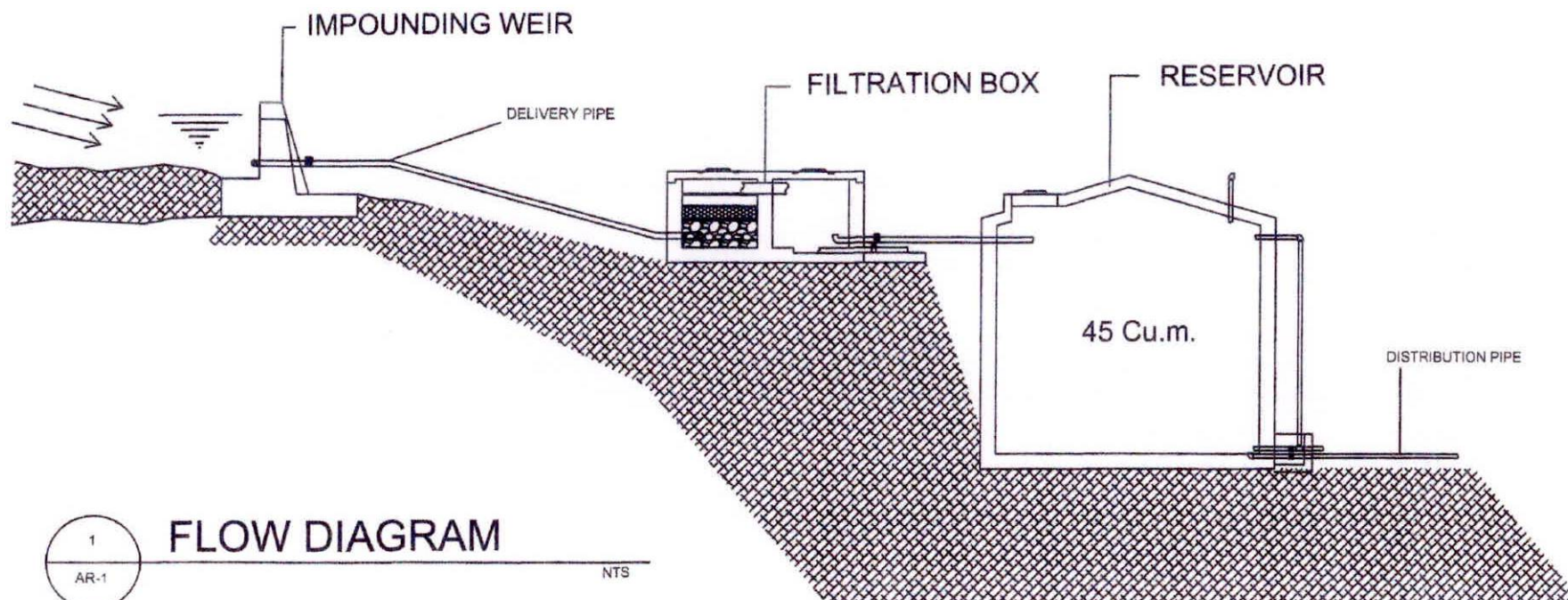
CONSTRUCTION SCHEDULE AND S-CURVE

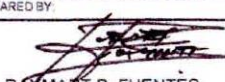
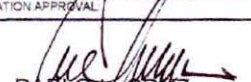
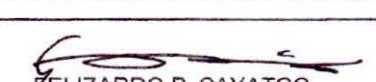
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	GENERAL REQUIREMENTS											
A.1.1(5)	CONSTRUCTION OF TEMP. FACILITIES	1.03%	32,812.50	150								
	OTHER GENERAL REQUIREMENTS											
B.5	PROJECT BILLBOARD/SIGNBOARD	0.27%	8,531.25	1								
	OCCUPATIONAL SAFETY AND											
B.7	HEALTH PROGRAM	0.22%	6,930.00	150								
B.9	MOBILIZATION / DEMOBILIZATION	1.08%	34,608.00	6								
	EARTHWORKS											
1700(1)	CLEARING & GRUBBING	1.23%	39,375.00	5								
803 (1) c	RUCTURE EXCAVATION & BACKFILLIN	0.60%	19,195.31	4								
	STRUCTURAL CONCRETE											
405(1)	STRUCTURAL CONCRETE CLASS A	30.03%	959,936.25	95								
	STRUCTURAL CONCRETE,PAINTING											
405 (6)	WORKS	0.79%	25,346.34	6								
	REINFORCING STEEL BARS											
902.1.a2	REINFORCING STEEL BARS GRADE 60	11.49%	367,381.22	40								
	FORMS AND FALSEWORKS											
414	FORMS AND FALSEWORKS	7.46%	238,534.18	14								
	DRAIN PIPE											
1001(1)	DRAIN PIPE	45.81%	1,464,469.95	51								
ABC		100%	3,197,120.00									
					17.68%	15.48%	9.73%	36.67%	20.44%			
MONTHLY CUMMULATIVE					17.68%	33.15%	42.88%	79.56%	100.00%			
PROJECT TITLE:		LOCATIO:		PREPARED BY:			APPROVED BY:					
CONSTRUCTION FO SMALL WATER IMPOUNDING SYSTEM (SWIS)		BGY. STA. MARIA DUMARAN, PALAWAN		 RAYMART B. FUENTES Proj. Monitoring & Evaluation			 FELIZARDO B. CAYATOC PENRO					

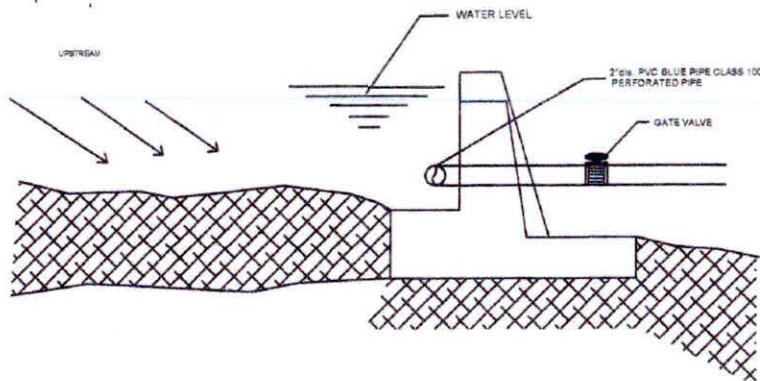
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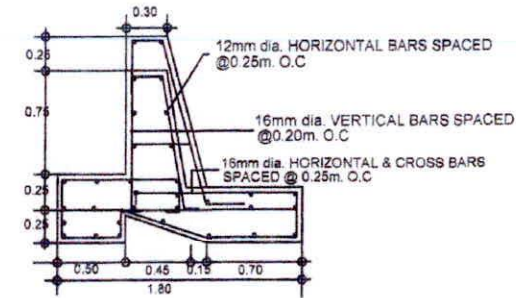
PROJECT TITLE:	LOCATIO:	PREPARED AND SUBMITTED BY:	APPROVED:
CONSTRUCTION FOR SMALL WATER IMPOUNDING SYSTEM (SWIS)	BGY. STA. MARIA DUMARAN, PALAWAN	 RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	 FELIZARDO B. CAYATOC PENRO



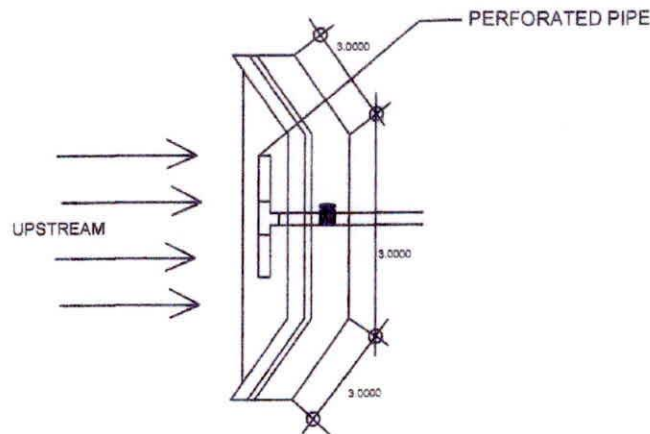
REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office ROXAS, PALAWAN	PROJECT TITLE: SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION: Bgy. Sta. Maria, Dumaran, Palawan	PREPARED BY:  RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL:  PABLO T. CRUZ CENRO ROXAS	APPROVAL:  FELIZARDO B. CAYATOC PENRO	SHEET NO. 1 8
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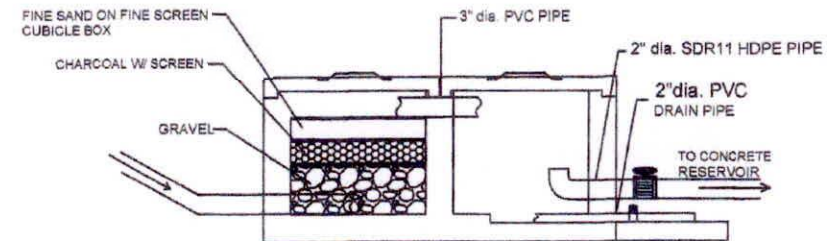
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AR-2
WEIR CROSS SECTION "a"
NTS



1
ST-1
WEIR CROSS SECTION
NTS

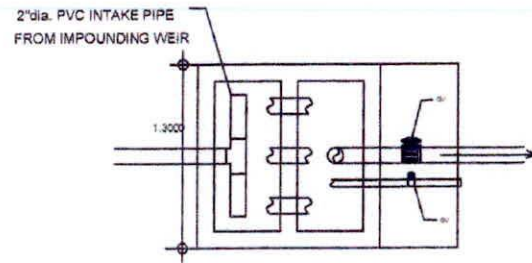


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AR-2
WEIR CROSS SECTION
NTS



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AR-2
FILTRATION BOX ELEV. DETAILS "A"
NTS

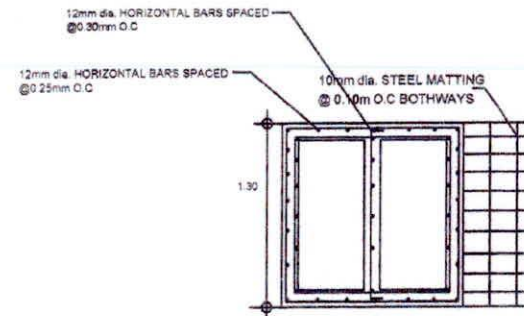
REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office ROXAS, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION: Bgy. Sta. Maria, Dumaran, Palawan	PREPARED BY: RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL: PABLO L. CRUZ CENTRO ROXAS	APPROVAL: FELIZARDO B. CAYATOC PENRO	SHEET NO. 2 8
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3
AR-2

FILTRATION BOX PLAN

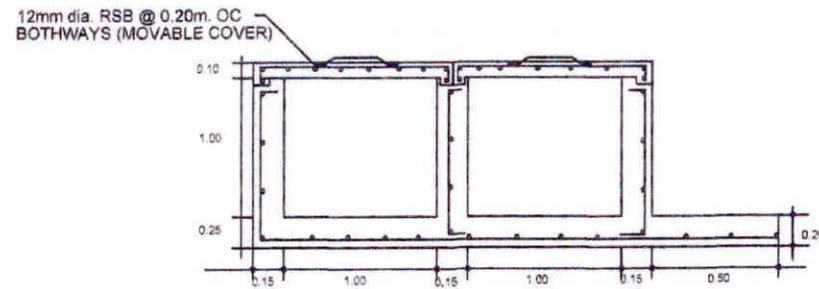
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2
ST-1

FILTRATION REINFORCING DETAILS

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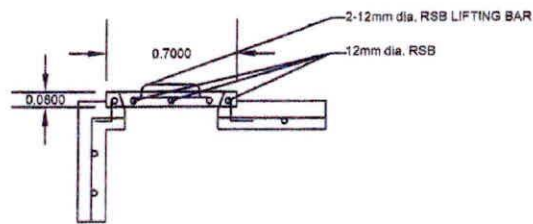


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ST-1

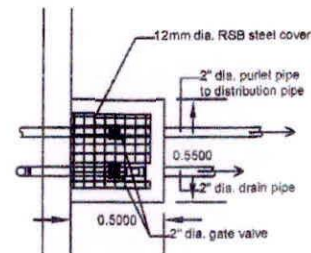
FILTRATION BOX ELEV. REINF. DETAILS

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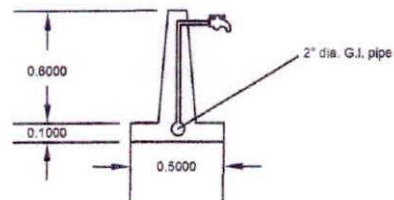
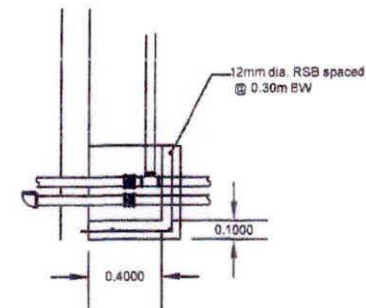
REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office ROXAS, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION: Bgy. Sta. Maria, Dumaran, Palawan	PREPARED BY: RAYMAR B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL PABLO J. CRUZ CENRO ROXAS	APPROVAL FELIZARDO B. CAYATOC PENRO	SHEET NO. 3 8
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DETAIL OF MANHOLE
SCALE 1:100

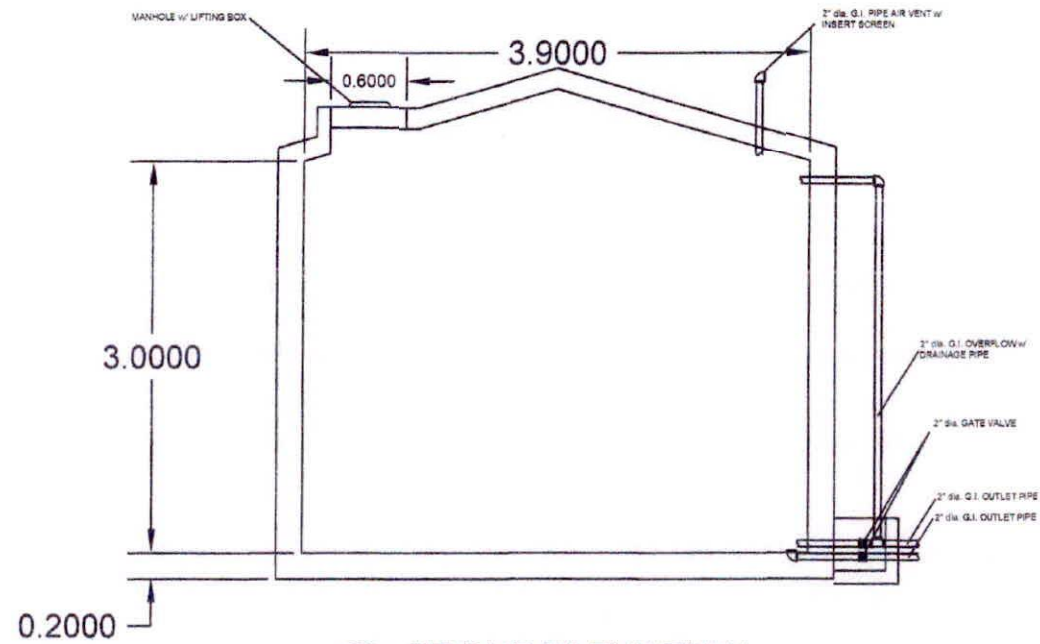


DETAIL OF VALVE BOX
SCALE 1:100



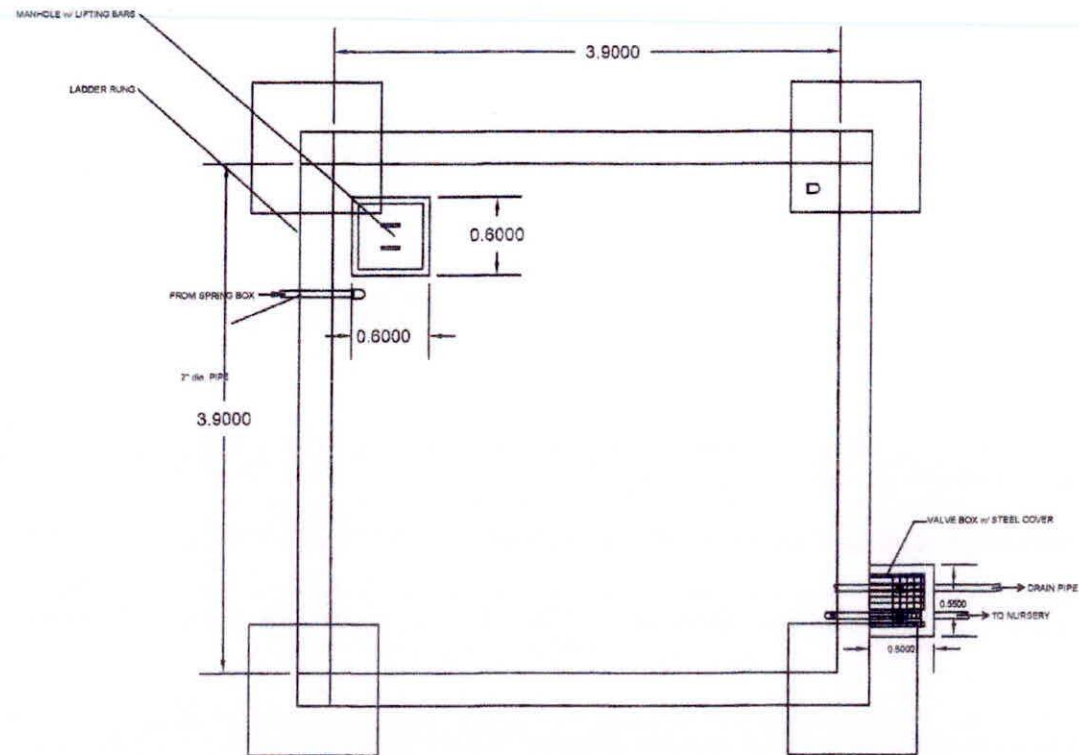
COMMUNAL FAUCET
SCALE 1:100

REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office ROXAS, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS)	PREPARATION BY RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL PABLO L. CRUZ CENRO ROXAS	APPROVAL FELIZARDO B. CAYATOC PENRO	SHEET NO 4 8
	LOCATION Bgy. Sta. Maria, Dumaran, Palawan				



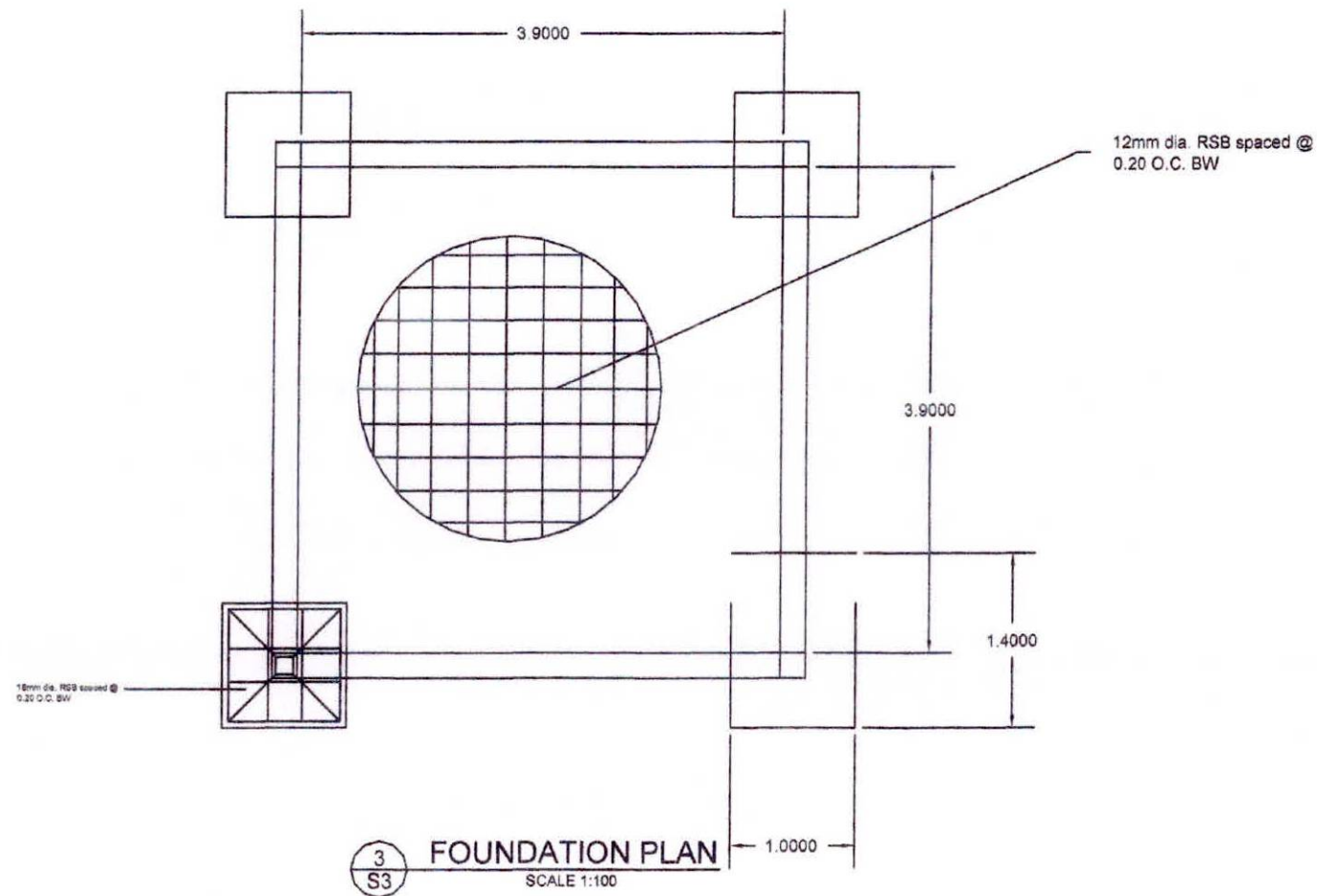
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S3 FRONT ELEVATION
SCALE 1:100

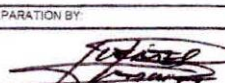
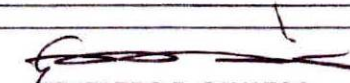
REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office ROXAS, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWS) LOCATION: Bgy. Sta. Maria, Dumaran, Palawan	PREPARATION BY: RAYMART B. FUENTES Phd. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL PABLO L. CRUZ CENRO ROXAS	APPROVAL FELIZARDO B. CAYATOC PENRO	SHEET NO. 5 8
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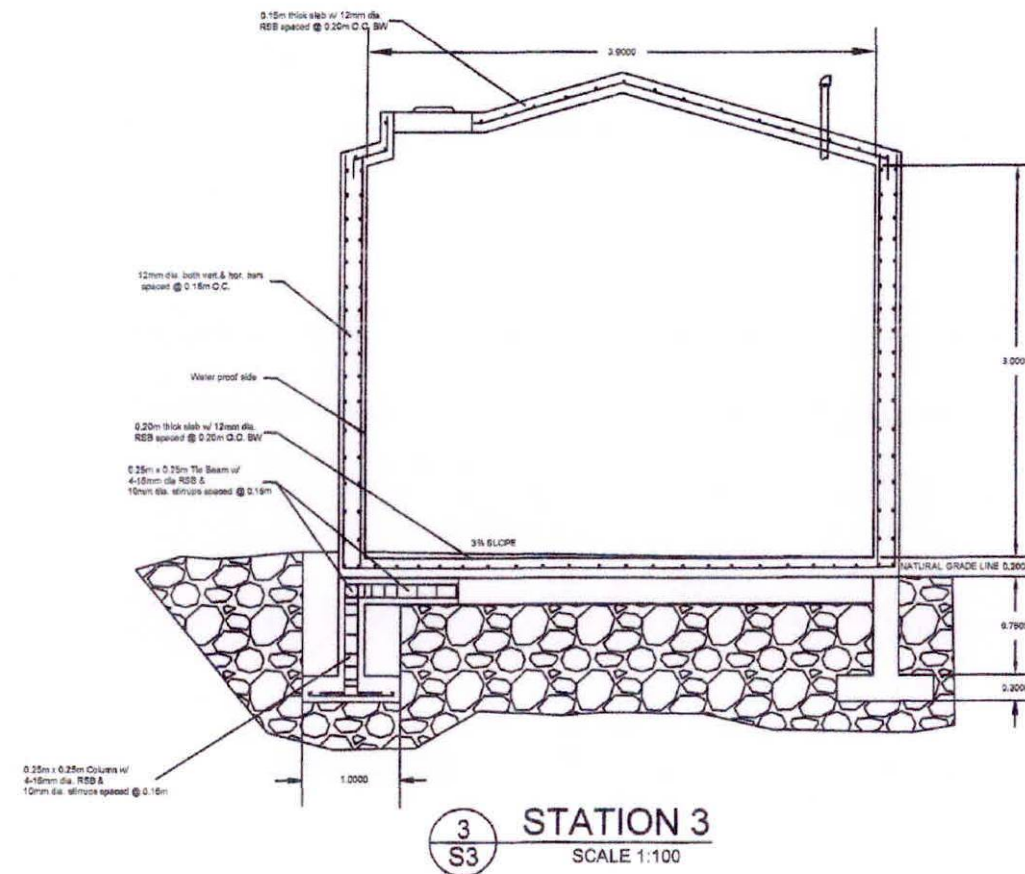


3
S3 TOP ELEVATION
SCALE 1:100

REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office ROXAS, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION Bgy. Sta. Maria, Dumaran, Palawan	PREPARATION BY RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL PABLO L. CRUZ CENRO ROXAS	APPROVAL FELIZARDO B. CAYATOC PENRO	SHEET NO. 6 8
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REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office ROXAS, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION: Bgy. Sta. Maria, Dumaran, Palawan	PREPARATION BY:  RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL  PABLO L. CRUZ CENRO ROXAS	APPROVAL  FELIZARDO B. CAYATOC PENRO	SHEET NO. 7 8
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REPUBLIC OF THE PHILIPPINES Region IV-B MIMAROPA Department of Environment and Natural Resources Office Community Environment and Natural Resources Office ROXAS, PALAWAN	PROJECT TITLE SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATION Bgy. Sta. Maria, Dumaran, Palawan	PREPARATION BY RAYMART B. FUENTES Proj. Monitoring & Evaluation Officer	RECOMMENDATION APPROVAL PABLO CRUZ CENRO ROXAS	APPROVAL FELIZARDO B. CAYATOC PENRO	SHEET NO. 8 8
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