



REPUBLIC OF THE PHILIPPINES
NATIONAL IRRIGATION ADMINISTRATION
REVISED PROGRAM OF WORK

Modernization

MODERNIZATION OF NATIONAL IRRIGATION SYSTEMS
FEASIBILITY STUDY AND DETAILED ENGINEERING FOR MODERNIZATION

CY-2023

I. GENERAL INFORMATION	
1. Name of Project	: Agno River Irrigation System
2. Location	: San Manuel, Pangasinan
Coordinates of the Dam Axis:	Lat. 16.115 N Long. 120.6942 E
3. Towns Covered	: Asingan, Binalonan, Laoac, Malasiqui, Manaoag, Mangaldan, Mapandan, San Manuel, Sta. Barbara, Urdaneta City, Villasis
4. Area, Ha. [New]	: 0 ha.
[Rehab]	: 18231 ha.
5. Source of Water	: Agno River
Drainage Area (Km ²)	: 5952.00 sq.km.
Dependable Flow	: 30
6. Source of Fund	: FS/DE
7. Description of Activity	: Feasibility Study and Detailed Engineering for Modernization
Overall Project Cost	
Overall Program	P 7,500,000.00
CY Program	P 7,500,000.00
Type of Diversion	Gravity
Implementation Schedule:	
A. Starting Date	January 1, 2023
B. Completion	December 31, 2023
II. WORK TO BE UNDERTAKEN BY:	100% Force Account Contract Work
III. EQUIPMENT REQUIREMENT:	Pick-up Truck, Currentmeter, Survey Instruments
IV. MAJOR ITEMS OF WORKS	
DIRECT COST	TOTAL AMOUNT
A. Feasibility Study	
1. Plan Formulation	70,635.83
2. Surveying & Mapping Works	545,918.21
3. Geology (Surface & Sub-Surface)	133,005.83
4. Hydrology	140,937.08
5. Land Use/Agronomy	928,125.88
6. Soil and Land Classification	338,014.70
7. Drainage Investigation	153,573.73
8. Irrigation Works	220,684.70
9. Div. Works/Electro-Mech. Works	174,333.96
10. Environmental & Social Assessment	318,839.13
11. Quantity & Cost Estimates	261,949.76
12. Economics	311,836.47
13. Drafting Works	164,751.70
14. Feasibility Report Preparation	256,469.90
15. Coordination Meeting	80,985.28
16. Validation and Inspection	236,240.79
B. Detailed Engineering	
17. Survey and Mapping	577,136.56
18. Geology Confirmation (Damsite, BH, Materials)	125,014.14
19. Detailed Design	540,271.38
20. Quantity, Cost Estimates and Preparation of Specifications & Contract Documents	294,693.48
21. DE Report, NIA Standard Drawings and Plans	665,286.62
22. Social and Environmental Impact Assessment (SEIA) for ECC	714,126.76
23. POW Preparation	107,883.75
24. Review/Evaluation/Validation	139,284.37
Total (Direct Cost)	P 7,500,000.00
IV. BREAKDOWN OF COST	
A. DIRECT COST	AMOUNT
<i>By Administration</i>	
1. Salaries / Wages	5,539,882.63
2. Traveling Expenses	48,200.00
3. Service Vehicle (Including Fuel and Oil)	944,483.36
4. Office Supplies, Materials and Equipment)	953,799.65
5. Others	13,634.36
<i>By Contract</i>	
1. Contract Service	-
Sub-total "A"	7,500,000.00
B. INDIRECT COST	AMOUNT
1. Contingencies	-
Sub-total "B"	-
AMOUNT OF PROGRAM [Total A & B]	Say P 7,500,000.00
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