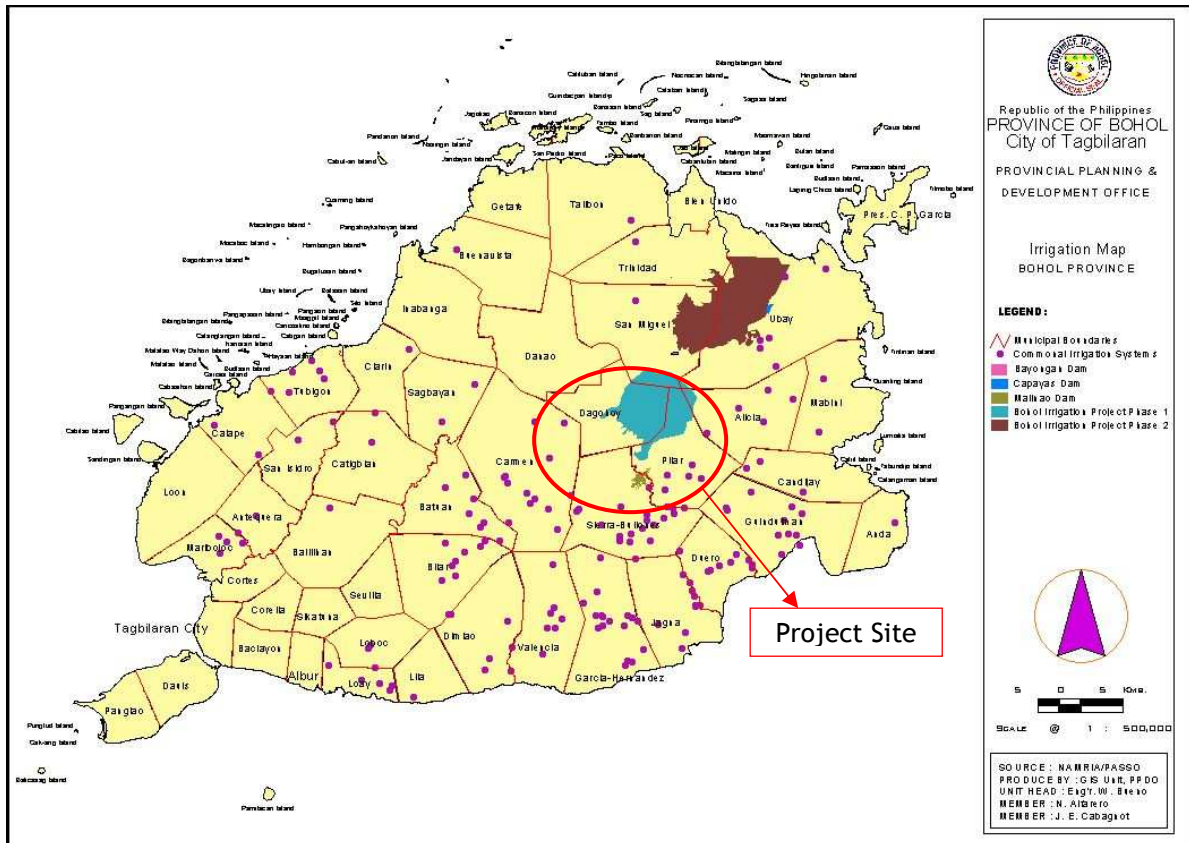




Comprehensive Project Profile



I. PROJECT DESCRIPTION

1.1 Project Title : **REHABILITATION AND IMPROVEMENT OF IRRIGATION FACILITIES AND ACQUISITION OF EQUIPMENT**

1.2 Project Proponents:

BIAD 5 Municipalities, Bohol Province (Municipal Governments of Pilar, Dagohoy, Batuan, Bilar, Carmen, Danao, Sagbayan and Sierra Bullones)

1.3 Project Type : Capital Forming Project

1.4 Project Components

- 1.4.1 Improvement/Concreting of Cobe Dam
- 1.4.2 Improvement/Concreting of Lateral Canals
- 1.4.3 Construction of Small Water Impounding Project
- 1.4.4 Acquisition of Water pump

II. PROJECT STATUS:

The Malinao Dam Irrigation Project in the Municipality of Pilar presently irrigates more than five thousand hectares of riceland covering also the town of Dagohoy, which is part of BIAD 5. The dam has its 5 cobe dam components situated in different areas covered by the irrigation system, which are made of earth materials. Said cobe dams are small barriers placed across streams and creeks that serve as the storage dam, allowing it to be released gradually. Presently, it has been observed that said dam could no longer store the desired quantities of water due to soil erosion that affect the earth-filled barriers.

The existing lateral canals or distribution canals from the Malinao Dam to the municipality of Dagohoy area, which is approximately 3 kilometers in length is also made of earth materials. Said canal could not evenly distribute water to the desired beneficiaries due to massive damage brought about by floods and other manual destruction, resulting to the difficulty in controlling the flow of water in the canal.

The municipalities of Sagbayan, Dagohoy, Sierra-Bullones, Batuan, Bilar and Danao has no feasible areas for irrigation project but have their respective identified sites for the construction of Small Water Impounding Project. Most of these areas have their respective minor spring, which could eventually produce a large volume of water upon construction. Said Small Water Impounding units shall have their respective water pump to be used during long drought.

2.1 Project Components

The project includes three (3) components. These are:

a) Improvement/Concreting of cobe dam.

This involves the concreting of 5 cobe dams in the Municipality of Pilar. These dams are presently of earth materials and the need for its concreting is vital and necessary to maintain its strength in storing significant quantities of water.

b) Concreting of lateral canals.

This involves the concreting of approximately 3 kilometers of lateral canals from the storage dam in Malinao, Pilar to the town of Dagohoy area.

c) Construction of Small Water Impounding Project and acquisition of water pump.

This involves the construction of Small Water Impounding Project to the 6 municipalities of BIAD 5 as shown in the Table below. Each project shall have their respective water pump components to supplement the drawing out of water during dry season.

NAME OF LGU	Number of Proposed SWIP	Number of Proposed Water Pump	Number of Barangays covered
Sagbayan	24	24	12
Carmen	6	6	2
Bilar	10	10	4
Batuan	10	10	6
Sierra-Bullones	10	10	5
Danao	15	15	8
TOTAL	75	75	37

III PROJECT JUSTIFICATION

3.1 Project Background

BIAD 5 covers 8 municipalities in the Province of Bohol and is considered as the rice granary of the province with 28 percent of rice land in Bohol located in the area. It accounted for most of the rice production in Bohol.

Summary of Farm and Palay Areas (in hectares) of BIAD 5

Municipality	Palay Area	
	Hectarage	Percent Share
1 Batuan	1,602.00	3.05%
2 Bilar	685.00	1.30%
3 Carmen	3,576.83	6.81%
4 Dagohoy	2,551.00	4.85%
5 Danao	825.00	1.57%
6 Pilar	3,188.75	6.07%
7 Sagbayan	978.30	1.86%
8 Sierra Bullones	1,455.49	2.77%
BIAD 5, Total	14,862.37	28.28%
BOHOL	52,554.85	100%

The Municipalities of Pilar and Dagohoy are served by the Malinao Dam Irrigation System in Pilar, Bohol, which is the main reservoir. The main dam has its 5 component cobe dams that store water from the main reservoir prior to its distribution to adjacent municipalities through lateral canals including the town of Dagohoy.

The 5 Cobe Dams are presently made of earth materials that anytime may collapse due to constant soil erosion that weakens its resistance in holding the capacity of the volume of water. However, this could be protected through the concreting of its barriers.

The lateral canals that distribute water to the town of Dagohoy, which is approximately 3 kilometers in length are also made of earth materials. The volume of water traveling the said canal could not be expected to appropriately reached the lower portion of the rice land due to massive damage during flood occurrence. It easily absorb the loosen soil aside from its difficulty in maintaining the canals.

The municipalities of Sierra-Bullones, Carmen, Bilar and Batuan, which have mini-irrigation facilities, found it imperative to propose the construction of Small Water Impounding Project (SWIP) with the municipalities of Sagbayan and Danao that has no feasible areas for large dam irrigation. Each impounding project shall have their respective water pump components that could be used as alternative in the extraction of water during long drought.

The above-mentioned facts prompted the BIAD 5 municipalities to conceptualize the said projects in the light of providing better service to our constituency particularly the farmers.

3.2 Project Linkage

The project is in support of the Poverty Reduction Program of the Provincial Government of Bohol and in conformity with the Integrated Water Supply Master Plan of Bohol.

3.3 Project Objectives

The overall goal of the project is to increase agricultural production to provide sufficient rice supply.

3.4 Sectoral Objectives

3.4.1 Alleviate poverty

3.4.2 Improve the quality of life of farmers

3.4.3 Increase income of Municipality and residents

3.4.4 increase per capita income of farmers

IV PROJECT FINANCING

Funds Needed: The estimated project cost is ₱28,500,000.00

Shown in the table below is a breakdown of expenditures:

PARTICULARS	TOTAL COST
1. Improvement/Concreting of Cobe Dam <i>Five (5) Cobe Dams at P3,000,000.00 each</i>	15,000,000.00
2. Concreting of Lateral Canals <i>Three (3) Kilometers Lateral Canals at P750.00/Linear meter X 1,000M x 3 km.</i>	2,250,000.00
3. Construction of Small Water Impounding Project. <i>75 units SWIP @ P100,000.00 each</i>	7,500,000.00
4. Acquisition of water pump <i>75 units water pump at P50,000.00 each</i>	3,750,000.00
TOTAL	28,500,000.00

V PROJECT BENEFIT & COSTS

1. Project Beneficiaries

Direct beneficiaries of the project will be the local farmers of the 8 BIAD 5 municipalities and some barangays of the adjacent municipalities in other BIAD areas.

2. Social Benefits

The project will provide the local farmers sufficient access to water for agricultural production that will greatly improve and increase production in the respective locality.

3. Economic Benefits

The year-round water supply for agricultural production will encourage our target beneficiaries to engage in other economically useful activities such as backyard gardening, hog raising, poultry raising and the like. These

activities would help augment the meager income of our farmers thus resulting to the upliftment of their living condition.

4. Social Costs

Minimal unwanted effects of the project are experienced only during the construction phase. Noise and slight pollution may be experienced only during the delivery of materials to the project site. However, this may be less felt because the proposed areas where most of the activities will be conducted is located in areas with not many inhabitants and is very far from the built-up areas.

VI PROJECT IMPLEMENTATION

1. Responsible Agencies

The lead proponents for this project are the 8 LGUs of BIAD 5 with the National Irrigation Administration (NIA) as cooperating agency for the project in the municipalities of Pilar and Dagohoy.

2. Implementation Schedule

The implementation schedule will follow after the availability of the funds for the project. The schedule of implementation will be furnished immediately to the funding donor/agencies and to the monitoring agency before the start of the project.

3. Administrative Feasibility

Each LGU, through the direct supervision of the Municipal Integrated Water Resources Management Team in coordination with the Municipal Engineering Office and the Municipal Planning and Development Office, shall oversee/monitor the financial and physical operation of the project during implementation period until its completion and operation.

4. Legal & Political Feasibility

The project has no legal obstruction as to its completion and is not expected to generate any political opposition.

5. Environmental Clearance.

Clearance from the DENR will be secured before the implementation of the project.

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