

# **REHABILITATION OF THE ALICIA WATERWORKS SYSTEM**

## **Alicia, Bohol**

### **Comprehensive Project Profile**

#### **I. PROJECT DESCRIPTION**

1. Project Title: Rehabilitation of the Alicia Waterworks System
2. Project Type: Income-Generating Project with an infrastructure component
3. Project Components:
  - a. Additional Pipings
  - b. Construction of Water Filter (4.0m x 5.0m x 5.0m)
4. Project Location
  - a. Pipelines from Putlongcam and Delmonte, Alicia to Households Water Meters in Barangay Poblacion
  - b. Water Filter in Puti, Putlongcam, Alicia, Bohol

#### **II. PROJECT STATUS**

1. Project Idea: Project Profile and Program of Work is available
2. Source of Fund: For Funding

#### **III. PROJECT JUSTIFICATION**

1. Project Background

The Water System in the Municipality has not undergone any major rehabilitation or development for maximum utility since its establishment many years ago. Basically, there are enough water sources to cater to 350 households, which are estimated to consume an average of 30 cubic meters per month (or a monthly total consumption of 10,500 cubic meter/month). It was estimated that the source could supply up to 16,693 cubic meters a month (or an estimated supply of 85 gallons per minute) using a 6-inch pipe. However, due to the use of cheaper, smaller main pipes and leakage in the pipelines, only 55% of these supplies could flow to consumer faucets and thus be utilized for domestic and commercial purposes. Furthermore, due to what seemed to be insufficient water supply, several consumers resort to illegal water tapping from the main line itself, further reducing water supply in the elevated areas.

On the other hand, due to lack of modern facilities like water filters, when heavy rains come debris, animal feces and even sludge are deposited in the Water Reservoir. This, in turn, will seep through waterlines into the households and commercial faucets. More often than not, when this happens consumers almost always have brownish, cloudy water coming out of their faucets, making the water unsafe to drink or to use for cooking. It is also during this period when the danger of gastroenteritis and other disease similar in nature are rampant. This situation has prompted the present administration to propose the rehabilitation of the current waterworks system. This project involves the construction and installation of a water filter at the source and replacement of the existing pipelines. Instead of utilizing the

present three mainline pipes measuring 6 inches, 3 inches, and 2 inches each, only the 6-inch pipe and a new 5-inch pipe will be used to ensure maximum collection of water in the Reservoir. The existing 2-inch and 3-inch pipe cannot contain all the water supply through the Reservoir because they are too small, and are more vulnerable to leakage.

## 2. Project Linkage

If implemented, this project will not only encourage the people to value the importance of water and conserve it, this will also encourage them to diligently pay their bills as a result of the improved water services. This will enhance the livelihood of the people as well as improve their health condition. Instead of spending their time fetching or looking for water from far-flung water sources, because of a regular and sufficient supply of water, more time can now be spent on income-earning activities like gardening, hog or poultry raising, etc. This will result into an improved individual income and a better economic condition of the people.

Agricultural productivity will also improve, as well as local eco-tourism ventures, because more people will be interested to bring in products into the town, more people will be enticed to visit and stay in the place and consequently, more investments will be generated. Health conditions and sanitation will also improve. Incidents of gastroenteritis and sanitation-related ailments will be minimized.

## 3. Project Objectives

- a. To improve delivery of water services to the consumers.
- b. To optimize water supply to the households/consumers.
- c. To increase revenues from Waterworks.
- d. To improve health condition and sanitation of the people.
- e. To improve local economy and agriculture, and promote eco-tourism.
- f. To instill the value of water as an important natural resources in life.

## 4. Sectoral Objectives

“Water is life”, an adage goes. As such, it is vital to human existence. The present administration of the Municipal LGU sees the need to rehabilitate the existing Waterworks System to improve the delivery of water services. This is also in line with the government's thrust to improve the condition of the people through the delivery of basic services. Through this project, the livelihood opportunities for the people will be maximized, and economic conditions of the entire municipality are expected to improve. The agriculture industry will also flourish. The project is also a part of the Infrastructure Development Program of the municipal LGU.

## 5. Regional and National Objectives

An improved Waterworks System will uplift the life of the people. One of the President's long-term plans is to improve the livelihood of the people through agriculture. Water as one of the components in agriculture is a basic to the realization of this thrust. Therefore, improved water services make a better people and a better country.

## 6. Relevance to Deprivation Indicators in the Poverty Database and Monitoring System (PDMS), to the Bohol Program Framework for Poverty Reduction, and the Millennium Development Goals

According to the PDMS data for Alicia, about 9.88% of all households in the municipality do not have access to safe, potable water. This figure is below the provincial mean of 12.57%, but is by no means a comfortable level of water deprivation: as far as access to safe water is concerned, every household should have it.

This is a key element of the Bohol Program Framework for Poverty Reduction (BPFPR) - reducing all indicators of deprivation, whatever they may be. And the BPFPR, essentially, is a localization of the MDGs, which aim to halve extreme global poverty by 2015. This project is, therefore, in consonance with global and provincial priorities.

Admittedly, the repair and rehabilitation of the Municipal Waterworks System is a responsibility of the LGU, as its owner. However, the Municipal LGU of Alicia has been unable to do this, obviously due to the inadequacy of its budget for its multifarious problems and concerns. The next best alternative, therefore, is to seek external funding for this priority. Without this assistance, a regrettable state of affairs ensues: there is an existing, recognized problem in the municipality, otherwise easily solved by the infusion of a small grant, but which continues to be unaddressed because of the absence of any such assistance.

## IV. PROJECT FINANCING

1. Estimated Project Cost	P1.3 Million
2. Breakdown of Project Cost	
a. Construction of Water Filters	P300,000.00
b. Replacement of 3.5 KM Pipelines	P1,000,000.00
3. Funding Source	For Funding
4. Counterpart Funding	Supervision and 20% Development Plan

## V. PROJECT BENEFITS AND COSTS

### 1. Beneficiaries

The direct beneficiaries are the more or less 350 households in barangay Poblacion and nearby barangays. There will be an estimated 500 people (daily average) who

will be benefited as indirect beneficiaries - the transient merchants, visitors, etc.

## 2. Social Benefits

To improve the water services, an important natural resource, is to improve the life of the society. Once this project is fully implemented, better life, health and sanitation, agriculture, and eco-tourism will result. Because of improved living conditions, households will be better able to lift themselves out of poverty.

## 3. Economic Benefits

This project will encourage people to devote more attention to income-generating activities like backyard gardening, hog or poultry/fowl raising and other activities which require regular water supply. Agricultural productivity will increase. Following the theory of demand and supply, when there is sufficient supply of water, its price per cubic meter will decrease, and the savings of the people will increase. Savings may be used to uplift their lives and may be invested in local business and creating new jobs.

## 4. Social Costs

No social costs are expected to arise from the implementation of this project. There will be no pollution or destruction of any natural resources or environmental hazards because the new pipes will follow the same path as the old pipelines. There will be no destruction of existing structures which may cause danger to life and property.

## 5. Economic Costs

The Municipal LGU has not identified any economic cost that may arise if this project will be fully implemented.

# VI. PROJECT IMPLEMENTATION

1. Responsible Agency - Municipal LGU of Alicia, Bohol through the MPDC and office of the Municipal Engineer.

## 2. Implementation Schedule

Description of Work	Physical Target	Period of Implementation
Excavation	3,500 km.	Feb. 1 - March 15, 2007
Additional Pipings	3,500 km.	Sept. 16 - Oct.30, 2007
Construction of Water Filter	one unit	July - Aug. 2007

## 3. Administrative Feasibility

The Offices of the Municipal Engineer and MPDC have the technical capability to

implement the project by administration.

#### 4. Legal and Political Feasibility

No political opposition is likely to come up in the implementation of this project.

#### 5. Environment Clearance

As stated earlier, this project does not pose any danger to the environment or threaten life or property. Being a mere repair and rehabilitation of the existing waterworks system, there is no expectation of a requirement for an additional environmental clearance.

#### 6. Social Acceptability

Having identified water as a very important part of human existence, there is no potential opposition from the community since this will improve the supply of water as a basic service. It will maximize agricultural production, enhance the livelihood and economic status of the people, and improve the health and sanitation conditions of the populace.

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