

Republic of the Philippines
MUNICIPALITY OF DIMIAO
Province of Bohol



PROJECT PROPOSAL

**IMPROVEMENT OF WATERWORKS SERVICE SYSTEM
CONSTRUCTION OF A WATER RESERVOIR
AND INSTALLATION OF PIPELINES**

RATIONALE:

One of the major problems that beset the residents of the Barangays in the Municipality of Dimiao is the lack of a steady supply of safe potable drinking water. Although some barangays has already started investing on providing Level 2 and 3 water system (communal taps/faucets and household water outlets), however, with the size of the existing reservoirs, it is still not enough to serve all the needs of the residents for 24 hours.

If additional new reservoirs could be added to the existing tanks, including new pipelines for additional communal taps, the problem of lack of a steady supply of safe potable drinking water will be solved and thus ensure an ample supply of such to serve the needs of the residents of the Barangays 24-hours a day, 7- days a week.

With the addition of new reservoirs, the dream of every resident to have a Level 3 water system (faucets/tap inside their homes) in their respective barangays.

PROJECT DESCRIPTION:

A concrete reservoir with a base dimension of 5.0 m x 5.0 m. and a height of 5 meters (volume = 125 cu.m or 6,250 galloons full capacity) is to be constructed in a suitable location in barangays where there is no in-take nor reservoir tanks or where the water supply is indeed insufficient, preferably slightly elevated that the existing and proposed locations of the communal taps thus ensure a steady flow of water by gravity. Most likely one in each of the 18 out of the 30 barangays being serviced by the water system but with no water reservoir yet.

It shall be made of a reinforced concrete about 0.15 m. thick and shall be mixed with a water proofing admixture. It shall be constructed on top a rubble-concrete boulder base embedded 0.70 m. on the ground.

After cleaning and a 28-day curing period, pipelines shall be installed from outlets at the base of the tank towards the proposed locations of the communal taps.

STRATEGY OF IMPLEMENTATION:

A joint effort between the LGU and the ODAs facilitates the preparation of the necessary documents for the implementation of the project. It is expected that a donor agency or a foreign assistance will shoulder the amount of the materials needed while a sharing scheme between the LGU and the Barangay will serve as a counterpart for their share in the labor cost. The project will be closely monitored and supervised by a Barangay Implementing Team (BIT).

BUDGETARY REQUIREMENTS:

BILL OF MATERIALS

Project Title: **Construction of water reservoir and installation of pipelines**

Location: **ARC Barangays, Dimiao, Bohol**

Appropriation: **264,614.13**

Concrete vol: 15 cu. m.

BILL OF MATERIALS:

QTY.	UNIT	DESCRIPTION	UNIT COST	TOTAL COST
225	Bags	Portland Cement	165.00	37,125.00
15	Cu. M.	Sand	500.00	7,500.00
7	Kls.	Tie wire	40.00	280.00
9	Cu. M.	Gravel	500.00	4,500.00
625	Bd. Ft.	125-2x3x10 Coco Lumber	12.50	7,812.50
32	Pcs.	Marine Plywood 1/4" thk.	350.00	11,200.00
25	Kls.	Assorted CW nails	40.00	1,000.00
400	Meters	P.E. Pipe 2" dia. SDR- 9	225.00	90,000.00
95	Pcs.	12mm dia. RSB	160.00	15,200.00
5	Pcs.	2" dia.x 12" Sch. 40 GI nipple	75.00	375.00
15	cu.m.	Boulders	500.00	7,500.00
			TOTAL	182,492.50

SUMMARY

<i>Materials Cost</i>	182,492.50
<i>Labor Cost</i>	<u>82,121.63</u>
<i>Cost per Tank</i>	264,614.13
	<i>x 18 barangays</i>
<i>Total Project Cost</i>	= 4,763,054.30

With the new 18 water reservoir tanks added and the corresponding service pipelines in the respective barangays, and the steady supply from the water sources (along with the rehabilitation of the main pipeline) it is believed that water service will be greatly improved to the satisfaction of the constituents offering 24 hours level 3 water service system.