

**Republic of the Philippines**  
**BULAN WATER DISTRICT**  
*De Vera St., Zone-4, Bulan, Sorsogon*

# ACCOMPLISHMENT REPORT C.Y 2017

## A. Administrative Area Profile Information

### Organization

1. Date Formed: May 09, 1975
2. Date CCC Issued: April 20, 1972 CCC No. 022
3. Personnel: 27 Regular: 17 Job Order: 10

### Existing System Facilities

#### 1. Service

- 1.1 Service Area: 6 person/ Household
- 1.2 Population Service Area 26934
- 1.3 No. of Household 4489
- 1.4 No. of Persons/Household 6 persons
- 1.5 Service Time (hrs/day) 24 hrs/day

#### 2. Structure and Equipment

##### 2.1 Administration Building

2.2 Office Area 176 sq. M

2.3 Warehouse 20 sq.M

2.4 Type of Water Source Spring (Deep Well-utilized in the year 2017)

2.5 Water Source Spring: Mariboc Spring, Brgy. Dolos, Bulan, Sorsogon

Deep Well: Sitio Pawa, Bulan, Sorsogon

Brgy. Lajong, Bulan Sorsogon

##### 2.6 Transmission Piping System Maintained

Size		Make	Maintained	Unit
250mm		PVC	4200	L.M
225mm	10"	PVC	5000	L.M
200mm	8"	PVC	17844	L.M
150mm	8"	PVC	5986	L.M
125mm	6"	CIP	2600	L.M
110mm	4"	PVC	4692	L.M
90mm	4"	PVC	5276	L.M
75mm	3"	PVC	4420	L.M
200mm	8"	CIP	5650	L.M
75mm	2"	PVC	1818	L.M

## 2.7 Service Connection

Type	Metered
Residential	4089
Industrial	178
Commercial A	82
Commercial B	139
Commercial C	1
<b>Total</b>	<b>4489</b>

### **WATER SOURCES:**

At present, the Bulan Water District Water Supply System maintains two(2) spring sources; one is the Mariboc Spring at Barangay Dolos and the other one is the Halagok-hagok Spring at Barangay Calpi with individual intake boxes. Two(2) deepwells at sitio Pawa and at Barangay Lajong and the latter is not yet operational until end of the 1<sup>st</sup> quarter of 2018.

With the rapid increase on demands for water services, the concessionaires of Bulan have increasingly asking for sufficient supply of water. On this process the Bulan Water District has been utilizing water supply from Mariboc Spring at Brg. Dolos, Bulan, Sorsogon, this has been the standard operation for so many decades.

The Mariboc Spring is the main water source that supplies more than half of the BWD concessionaires but as the time goes by the spring has been depleting to its critical level due to deforestation, extreme weather condition and below normal rainfall. Because of the rapid depletion BWD lost 898 concessionaires by second quarter of 2015. This has alarmed the management to develop a new water source to augment water that will sustain the water supply of Bulan.

This Lead to the construction of two deep wells at Barangay Lajong and Sitio Pawa to support the operation of the Bulan Water District.

### **MARIBOC SPRING**

The Mariboc Spring is located at Brg. Dolos, Bulan, Sorsogon its maximum capacity is 45 lps during Year 2010-2012. As the climate change came thru depletion of Water occurred that has provided the water depletion dilemma, at present the spring has a capacity of 40 lps for C.Y 2017.

It is a spring from above the mountains that supplies water necessities for the concessionaire of Bulan.

The Spring is currently depleting due to excessive summer heat, but being rehabilitated thru reforestation. The Spring service 65% of the Barangays under the service of Bulan Water District. This source has passed the Philippine National Standard for Drinking Water.

### HALAGOK-HAGOK SPRING

Halagok-hagok Spring source is located at lot 5204 owned by the Bulan Water District by way of absolute sales from Iluminada R. Asuncion-Guzman. The parcel of land is situated at Barangay Calpi, Bulan, Sorsogon containing an area of 25,260 square meters.

Lot 5204 is titled in the name of Bulan Water District. The spring serves as a recharging water source to support the Mariboc Spring, its maximum capacity is 5 lps.

3

### SITIO PAWA DEEPWELL

Sitio Pawa Deep Well was developed thru the effort of BWD Internal Cash Generated (ICG) Fund.

After series of Geo-physical Analysis, it has been approved to construct a deep well at sitio Pawa last March 2016. It has been operational in the middle of October, 2016, with a maximum capacity of 10 lps.

Constructed a pump House to ensure that equipment and chlorinator are in safe storage. Sitio Pawa is currently servicing Barangay Lajong, Bliss, Zone 8, ICS and San Vicente, for 24 hours daily operations.

### BARANGAY LAJONG DEEP WELL

Lot 1180 py of the Bulan Cadastral Survey containing an area of Seven Thousand Six Hundred Sixteen (7616) square meters, more or less, and bounded as follows; North- Beguin River and Lot 1180 pt; East Lot 1181; South Lot 1181 and Lot 1178; and on the West Lot by Lot 1179. Coconut trees are its permanent improvements. Still declared in the name of Arenio Gerero under ARP No. 2002-02-023-0366 effective year 2003.

The acquisition of the lot in Barangay Lajong, Bulan, Sorsogon for a deep well project last July 08, 2015 had open beneficial advantage not only to the constituent of Barangay Lajong but more so the whole area of the BWD distribution lines and other Barangays for expansion and areas that have no supply of water.

Installation of pipelines on the lot has an objective to provide adequate sustainable and potable water supply that will meet and address the demand of the growing population of Bulan.

The Deep Well is powered by submersible pumps with a maximum capacity of 10 lps to supply water on the nearby Barangays. The deep well is not operational due to

rehabilitation to eradicate the iron and manganese content. This 2017 the BWD is in the process for procurement of water treatment equipment to address this problem to augment water during peak hours and to provide enough water supply to the concessionaires of Bulan.

## **TRANSMISSION**

The transmission and distribution pipelines include blow-off, valves, hydrants, appurtenances, service connection, treatment and disinfectant facilities. The water supply system needs more improvement to meet the deficiencies in the operation of the water district and to meet the demands of the growing populace. This includes the dilapidated distribution lines, low pressure in some areas and high unaccounted for water due to leakage and illegal connections.

The proposed water supply development program of Bulan Water District includes the rehabilitation and replacement of dilapidated distribution pipelines, installation of transmission lines, leak detection and replacement of old and under registering water meters.

The Bulan Water District is in the process of Water Treatment Facilities purposely for the proposed improvement program to improve the water supply in the town and the nearby Barangays.

Currently, the Bulan Water District had already developed/finished projects to wit:

1. Parallel pipe line of 1.1km, 150mm PVC Pipe at Mariboc Spring.
2. Replacement of asbestos pipes to 200mm & 150mm PVC pipes.
3. Barangay Aquino looping a 2"hdpe pipeline improving a 6/12hours supply to 24/7.
4. New pipeline installation at Bliss and Barngay Fabrica.
5. Construction of Pawa Deep Well and Lajong Deep Well
6. Looping pipeline at Zone 2.

## **SERVICE AREAS:**

The present service areas of Bulan Water District covered twenty (20) Barangays namely:

Calpi, Roxas, Quirino, San Francisco, Somagongsong, Aquino, Laurel, Managa-naga, Obrero, San Vicente, Libertad, Bliss, Sitio Pawa, Lajong, ICS and Zone 1 to Zone 8.

The total number of active service connections as of Sept., 2017-	4489
The total number of billed service connections as of Sept., 2017 -	4,489

## **TOTAL PIPELINES (MM):**

225MM (PVC).....	5,000
200MM (PVC).....	17,844
150MM (PVC).....	5,986
150MM (PVC).....	2,300
125MM (CIP) .....	2,600
110MM (PVC) .....	4,692

75MM (PVC) .....	4,420
200MM (PVC) .....	5,650
250MM (PVC) .....	4,200
75MM(PVC) .....	1,818
2" (PVC) .....	1,500
90 MM (PVC) .....	5,276

## C.Y. 2017 BWD Innovations

Provision and Submission of Water Districts' Manual

a. **Water Safety Plan**

*A manual for ensuring the operations of safety and quality of water from the water source, thru transmission line until the concessionaire's premises*

b. **Five Year Business Plan**

*In accordance to the Requirement of LWUA, all water districts are subject to create their Five Year Business Plan to showcase the financial capacity and plans of the Bulan Water District on innovation and improvements.*

c. **GAD PLAN and Budget**

*Adopting the Philippine Commission on Women's endeavor to develop a gender sensitive agency, in the practice of appreciating the Gender and Development (GAD)*

### REPORTING

As of C.Y 2017, Reports are the basis for the monitoring, and therefore, must be approached with great attention. Under the "Reporting" section, the management must specify the reporting requirements for each department, to include, as a minimum:

#### 1. Consolidated Report for Each Division

Data to be gathered shall vary on daily basis of BWD operations, the person in charge on the Division

**SPMS, PDS and IPCRF** for Administrative Division

**Monthly Data Sheet (MDS) and Financial Statement** for Finance and Commercial Division

**Bacti-Test, Physical/Chemical Test, Chlorine Residual Report and Blow Off Report from the Water Safety Plan Monitoring** for Technical Division

#### 2. Frequency of Reporting

**Administrative Division**

**SPMS** is updated per Semester; **PDS and IPCRF** is consolidated annually; **Staff Reports** are assessed every Management Meeting Monthly.

**Finance and Commercial Division**

**Financial Statement and Monthly Data Sheet** is updated monthly, it is presented every regular meeting of the Board of Directors and presented to the Management Meeting to ensure progress on daily operations

***Technical Division***

***Bacteriological test*** is conducted Monthly through random Water Sampling and tested at the Provincial Hospital Sorsogon City.

***Physical/Chemical Test*** is executed Annually to meet the Philippine Standard for Drinking Water thru the Platinum Laboratory Inc.

***Blow Off Reports/Chlorine residual*** is conducted daily and consolidated Monthly for reports to be presented on the General Manager / Water Safety Plan Team Leader.

**3. Designation of the Person In-Charge.**

***Administrative Division***

**Ms. Lorena F. Gerona**

- Administrative/General Service Officer A
- OIC (Administrative Division)
- GAD Focal Point System Vice Chairperson
- BAC Chairperson

***Financial Commercial Division***

**Ms. Mary Joyce B. Penos**

- Senior Corporate Budget Analyst
- OIC (Finance and Commercial Division)
- GAD Focal Point System Member

***Technical Division***

**Mr. Noel C. Delmonte**

- Technical Head (Designate)
- Asst. Team Leader (WSP Team)
- GAD Focal Point System Member
- BAC Vice Chairperson