Republic of the Philippines
WAO WATER DISTRICT
Western, Wao, Lanao del Sur



A Government Owned and Controlled Corporation

## **TABLE OF CONTENTS**

Part I	Executive summary	1
Part II	Company Description	1
Part III	Products / Services	1
	Physical and Chemical Test Report	2
	Result Analysis	3
	Water System 1	4
	Bungol Map	5
	Water System 2	6
	Bagaobao Map	6
	Back-up Water Sources	7
	Sumugot Map	7
	Villalon Map	8
Part IV	Market Analysis	
	Map of the Municipality of Wao	8
	Population of Wao and WWD Active Concessionaires	9
	SWOT Analysis	10
Part V	Strategy and Implementation	10
	1. 25% mark-up on existing rate (2018)	11
	2. Proposed Buntongan Expansion Project (2018)	11
	Timeline of Activities	11
	3. Proposed Regularization (2018)	12
	4. Proposed Promotion (2018)	12
	5. Proposed WWD Re-categorization (2019)	12
	6. Proposed Regularization (2020)	12
	7. Proposed Promotion (2021)	13
	8. Other Proposed CAPEX (ICG)	13
	9. 5% mark-up on existing rate (2021)	13
	10. Promotional Drive/ Campaign	14
	Availability of Service	14
	Facilities	15
	WWD Operation Cycle	16
Part VI	Organization and Management Team	
	Organizational Structure	17
	Annex 1 Staff List	18
	The Board of Directors	19
	Power, Duties and Limitations of the Board	19
	The General Manager	20
	Duties of the General Manager	20
Part VII	Financial Plan and Projections	
	Assumptions	21
	Annex 2 Staff Analysis	22-24
	Annex 3 Water Demand Analysis	25-27
	Annex 4 Operating and Maintenance Budget Forecast	28-29
	Annex 5 CAP Investment Program	30

	Annex 6 Debt Service	31
	Annex 7 Revenue Needs	32
	Annex 8 Pricing	33-38
	Annex 9 Cashflow	39-40
	Financial Analysis	
	Liquidity Ratio	41
	Solvency Ratio	41
	Profitability Ratio	42
Part VIII	WWD Future Plans	
	<ol> <li>Proposed Expansion and Rehabilitation Projects</li> </ol>	
	a. Phase 1 Additional Transmission Line	43
	b. Phase 2 Additional Transmission Line from JICA to	
	Cebuano Group	43
	MAP	43
	POW (Phase 1 and Phase 2)	44
	c. Phase 3 Spring Source Development and Proposed	
	Water System 3	44
	POW (Phase 3 and Phase 4)	45
	Project Timeline	46
	Amortization Schedule	47
	2. Proposed Wao Water District Resort	48
	<ol><li>Proposed Wao Water District Renovation and Extension</li></ol>	1
	of Office Building	48-49
Part IX	Acknowledgement	50
Part X	Abbreviation	51
Part XI	Definition of Terms	52
Part XII	Appendices	
	LWUA Memorandum Circular No. 006-17	53
	LWUA Memorandum Circular No. 006-14	54-55
	BOD Resolution No. 30, Series of 2017	56
	Business Planning Memoir	57

## **PREFACE**

This five (5) years Business Plan is proposed in accordance with the LWUA's mandate to every water district to submit a five (5) years business plan for the promotion, development and financing needs of local water utilities.

It shall serve as a basis for the assessment and prioritization of LWUA's investment and development programs as well as monitoring of the water district's performance.

This plan provides an opportunity to every WWD personnel to demonstrate their knowledge, skills and competence required in the implementation of this project.

#### **Part I- EXECUTIVE SUMMARY**

"Providing safe drinking water at a reasonable price and excellent service- that's the life WWD are living for."

We commit reliable service, 24/7 supply of potable and affordable water to satisfy and uphold the well-being of our concessionaires by conducting ourselves as public servants, upholding the tenets of professionalism and taking pro-active stance in environmental concerns.

With that, we continue to aim excellence in the field of public utility to supply human needs.

The WWD lives in the corporate philosophy of service with dignity and proficiency.





Wao Water District is a Government Owned and Controlled Corporation performing public service and supplying public wants (PD 198). It has been fully operational since 1999 and is currently on a category D serving 3,968 concessionaires with more than 19,840 people from 20 barangays.

It has grown into a more established entity providing employment to 28 individuals composed of 10 regular employees, 1 casual employee and 17 job orders compared to 8 regular employees from its inception. One big contributor to this growth is the massive increase of its concessionaires denoting a very important role of safe drinking water to the people of Wao.

## Part III- PRODUCTS / SERVICES

"The right to a safe and potable drinking water, that's what everybody deserves."

Among the many challenges of a booming community like Wao is the provision of its basic necessity such as access to potable water (WSP). This is where Wao Water District comes in.

With WWD, the concessionaires can be sure that the water they are drinking is safe from any chemical intrusion and passed the standard quality required by the LWUA and set by the PNSDW.

#### PHYSICAL AND CHEMICAL TEST REPORT

Parameters	eters Test Method		ults	PNSDW DOH,
		Bagaobao Spring	Bungol Spring	2007 (maximum)
pH	4500 H <sup>+</sup> B. Electrometry	6.6 @ 18.3 °C	6.7 @ 18.4 °C	6.5-8.5
True Color, CU	2120 B. Visual Comparison	5	5	5
Turbidity, NTU	2130 B. Nephelometry	0.31	0.51	5
Chloride, mg/L	4500-Cl B. Argentometry	0.73	1.21	250
Total Dissolved	2540 C. Gravimetry	123	122	500
Solids, mg / L				
Nitrate, mg/L	AOAC 973.50 Bruccine Colorimetric	4.27	1.44	50
	Method			
Sulfate, mg / L	4500-SO <sub>4</sub> <sup>2-</sup> E. Turbidimetry	Less than 5	Less than 5 <sup>d</sup>	250
Manganese, mg/L	3030 f. Nitric Acid-Hydrochloric	Less than 0.01 <sup>b</sup>	Less than 0.01 <sup>b</sup>	0.4
Iron, mg / L	Acid Digestion, 3111 B. Direct Air-	Less than 0.04 <sup>b</sup>	Less than 0.04 <sup>b</sup>	1
Cadmium, mg / L	Acetylene Flame AAS	Less than 0.003 <sup>b</sup>	Less than 0.003 <sup>b</sup>	0.003
	3030 E. Nitric Acid Digestion, 3111			
Lead, mg / L	B. Direct Air-Acetylene Flame AAS	Less than 0.01 <sup>b</sup>	Less than 0.01 <sup>b</sup>	0.01
Arsenic	Mquant Arsenic Test Kit	Less than 0.005 <sup>d</sup>	Less than 0.005 <sup>d</sup>	0.01
Benzane, mg/L	Gas Chromatography	-	Less than 0.01 <sup>b</sup>	0.01

<sup>\*\*\*</sup>Data above was based on the surface water analyzed on Jan. 5, 2017 by F.A.S.T. Laboratories- CDO.

The district is also using calcium hypochlorite solution with 70% concentration as its mode of sanitation which is monitored daily at predetermined locations to ensure avoidance of any untoward contamination (WSP).

Water samples from different service areas are taken every month to undergo Bacteriological Test at Central Mindanao University, Musuan, Maramag, Bukidnon and F.A.S.T. Laboratories-Cagayan de Oro City. These samples are being analyzed to ensure that the water is free from any pathogenic bacteria.

## **RESULT ANALYSIS**

Sampling Point (Barangay)	Heterotrophic Plate Count, (CFU / ml)	No. of Positive Tube (out of 5 Tubes) Total Coliform   Fecal Coliform		Most Probable Number (MPN) / 100mL		E.coli*	Conformance
		Total Coliform	Fecal Coliform	Total Coliform Count	Fecal Coliform Count		to PNSDW**
Banga	<30 Est.	0	0	Less than 1.1	Less than 1.1	Negative	PASSED
Eastern	<30 Est.	0	0	Less than 1.1	Less than 1.1	Negative	PASSED
Pagalongan	<1 Est.	0	0	Less than 1.1	Less than 1.1	Negative	PASSED
Park Area	<30 Est.	0	0	Less than 1.1	Less than 1.1	Negative	PASSED
Poblacion	<30 Est.	0	0	Less than 1.1	Less than 1.1	Negative	PASSED
Western	<30 Est.	0	0	Less than 1.1	Less than 1.1	Negative	PASSED
PNSDW, DOH 2007	< 500	0	0	Less than 1.1	Less than 1.1	Negative	
TEST METHOD	Pour Plate	(9221 B-C, E-F) Multiple Tube Fermentation Technique					

<sup>\*\*\*</sup> May 23, 2017 Water Sample

Moreover, it is a savings in the part of concessionaires comparing the monthly expenses when buying purified water and paying a minimum monthly consumption of Php116.00 for 10 cu.m..

#### **WATER SYSTEM 1**



Catchment / Bungol Spring 868 m above sea level 90 LPS Capacity (Kilometer 9)





36 cu.m Sump Tank 1 15 LPS Capacity Connected with a 4" Ø Transmission Line





Sump Tank 2 20 LPS Capacity Connected with a 6" Ø Transmission Line











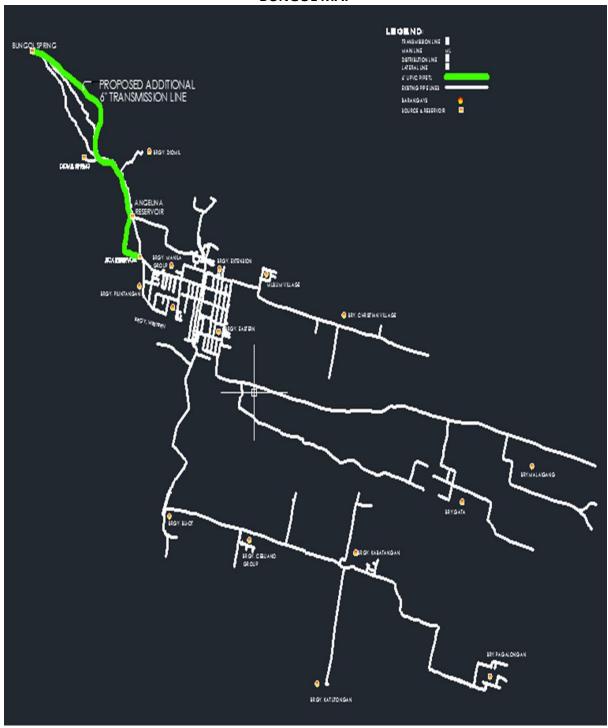


Angelina Reservoir 30 cu.m Capacity 646 m above sea level (Manila Group)

50 cu.m Capacity 625 m above sea level 6" Ø Control Gate Valve (Manila Group) JICA Reservoir With Chlorinator House

As the illustration above shows, the water source has so much to offer. Imagine a source with a capacity of 90 LPS but is only distributing 35 LPS. There is a big possibility of maximizing its capacity if there will be a rehabilitation and enhancement of the entire water system.

## **BUNGOL MAP**



Right now, Wao Water District has two (2) operational water systems- the Bungol Spring and the Bagaobao Spring with a Conditional Water Permit No. 04-25-12-042.

## **WATER SYSTEM 2**







Chlorinator House and Flow Meter 1.3 Km from the water source



Concessionaires Water services is distributed thru laterals and distribution lines 8.4 Km from the water source

## **BAGAOBAO MAP**



Aside from that, there are also two (2) more back-up water sources which needs to be develop.

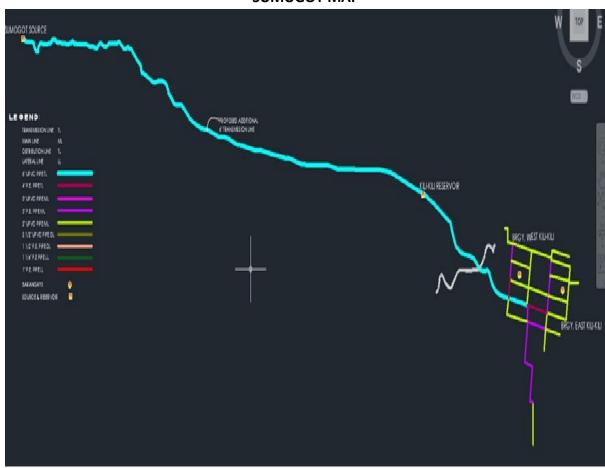




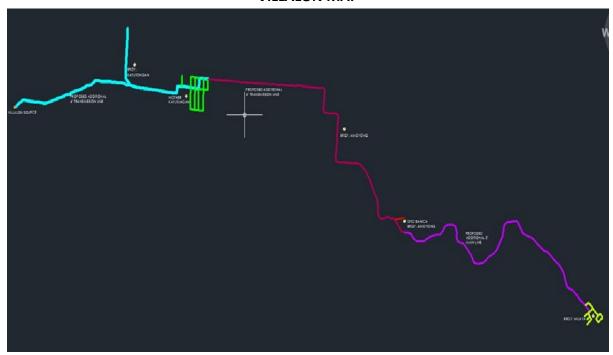
Sumugot Spring 17.4 LPS CWP No. 04-25-12-041 Brgy. Sumugot

Villalon Spring 72 LPS Brgy. Kadingilan

## **SUMUGOT MAP**

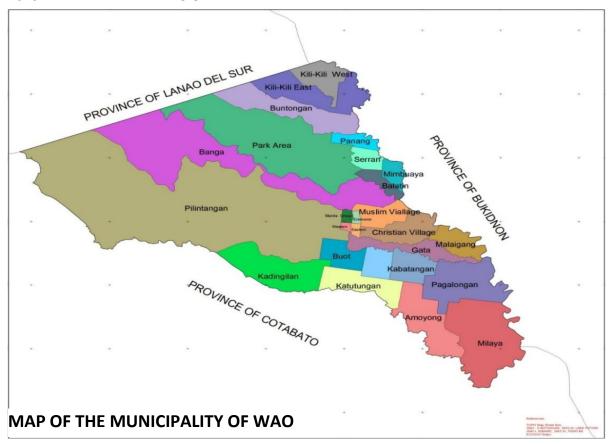


#### **VILLALON MAP**



If these water sources would be fully utilized, Wao Water District can guarantee not only 24 hours water services to its concessionaires but also luxurious swimming pools and others.

## **Part IV- MARKET ANALYSIS**



Davan co.	AREA (Has)	2015	2016	# of	Total Active		Concessionaires	per Class	ification a	s of May 2	017		Remarks
Barangay	AREA (Has)	Population	Population	Household	Concessionaires	Residential	Government	Comm	Comm A	Comm B	Comm C	Bulk	Kemarks
Amoyong	1,253.17	1,435	1,454	291	-								UNSERVE
Balatin	220.6	731	741	148	55	52		3					SERVED
Banga	4,292.35	1,539	1,559	312	222	208	8	2		2	2		SERVED
Buntongan	1,021.23	1,084	1,098	220	-								UNSERVE
Buot	476	1,299	1,316	263	76	75	1						SERVED
Cebuano Group	438.23	1,705	1,728	346	82	80	2						SERVED
Christian Village	789.68	1,539	1,559	312	128	124	4						SERVED
Eastern	46.88	2,940	2,979	596	872	723	17	34	11	44	43		SERVED
Extension	56.44	2,313	2,344	469	479	446	2	10	1	5	15		SERVED
Gata	676.01	1,232	1,248	250	143	137	3	1		1	1		SERVED
Kabatangan	597.44	1,509	1,529	306	148	138	9	1					SERVED
Kadingilan	1,478.00	1,239	1,255	251	-								UNSERVE
Katutungan	832.47	2,230	2,259	452	10	10							SERVED
Kilikili East	1,361.37	2,466	2,499	500	-								UNSERVE
Kilikili West	852.69	2,650	2,685	537	-								UNSERVE
Malaigang	547.64	931	943	189	94	92	2						SERVED
Manila Group	75.14	2,814	2,851	570	647	594	4	18		6	24	1	SERVED
Milaya	2,281.81	2,078	2,105	421	-								UNSERVE
Mimbuaya	301.72	953	966	193	56	53	3						SERVED
Muslim Village	523.68	956	969	194	102	100	1				1		SERVED
Pagalongan	1,479.66	2,589	2,623	525	105	103	1				1		SERVED
Panang	283.86	856	867	173	74	70	3	1					SERVED
Park Area	4,076.20	3,728	3,777	755	69	65	2	1			1		SERVED
Pilintangan	11,084.20	1,872	1,897	379	9	7	1	1					SERVED
Serran Village	304.09	677	686	137	104	98	4	1		1			SERVED
Western	54.3	2,497	2,530	506	493	392	23	26	10	20	22		SERVED
TOTAL	35,404.86	45,862	46,467	9,293	3,968	3,567	90	99	22	79	110	1	

Growth Rate 1.32%
It is notable indeed that there are some residences with two (2) connection lines.

A water district is a local corporate entity that operates and maintains a water supply system in one or more provincial cities or municipalities (LWUA Website).

Currently, there are 511 operational water districts all over the Philippines and Wao Water district is one of those with CCC No. 519.

Wao is a second-class municipality and the only Christian Municipality in the province of Lanao del Sur, Philippines. According to the 2016 census, it has a population of 46,467 people with 9,293 households. As of May 31, 2017, Wao Water District has already extended the services to 3,968 concessionaires. That's just 43% of the number of households from 2016. Clearly, there is a lot of improvement to do in the water system in order to extend the services to the remaining 5,325 households without clean water.

In the past, the district was only informing the public about this utility services through barangay meetings and for the last 17 years, we were only generating an average of 150 new concessionaires per annum (without project expansion). But right now, because of technology, aggressive marketing and expansion, we were able to improve the dissemination of information and generate new connections. Based on our latest record, from January to May 31, 2017, the total number of new installations have reached to 266 accounts. That's quite a record breaker.

One big contributor to this record-breaking event was the water supply project at Brgy. Pagalongan. According to the 2016 statistics, there were 525 households at that barangay plus public and private users. Technically, there were 105 concessionaires who already availed of the service from March to May 31, 2017 out of the 300 estimated households that was foreseen to be covered by the most recent water supply project. Apparently, the district still need to work on the remaining 225 households and make sure that they will be able to enjoy the service 24/7.

With these data at hand, a proposal to develop an additional 6" Ø Transmission Line from Bungol Spring could help address the foregoing problem and hopefully, this will be a stepping stone for the district to develop another project that could finally supply clean and potable drinking water to the remaining 6 barangays with an estimated population of 13,068 (2018).

SWOT ANALYSIS										
STRENGTH	WEAKNESSES	OPPORTUNITIES	THREATS							
Better HR Management	Old Pipelines	Availability of Unserved Population	Natural Calamities							
Well-equipped Personnel	Small Pipelines	LWUA Loan Portfolio	Water Contamination							
Approved Water Sources	Remote Area		Man-made Hazard							
Permits										
Gravity Type Water Sources	Limited Funds									
	Mains are located									
	at flood and									
	landslide prone									
	areas									

It is a clear-cut evidence that Wao Water District, being the major provider of safe and potable drinking water in the Municipality of Wao, will continue to exist for as long as water remains a necessity to sustain human life.

#### Part V- STRATEGY AND IMPLEMENTATION

The biggest factor that pulls us down from achieving our goal is **CAPITALIZATION** and **DELAYED APPROVAL OF RATE ADJUSTMENT**. We have the strong will, we have the courage, but we have limited funds.

Among the many things that should be done are as follows:

### 1. A mark-up of 25% on the existing rate (2018)

CLASSIFICATION	CODE	EXISTING MINIMUM RATE	MARKED-UP RATE
Residential	102	116	145
Government	202	116	145
Commercial (full)	302	232	290
Commercial A	312	203	254
Commercial B	322	174	218
Commercial C	332	145	181
Bulk	402	348	435

This is to address the continuous increase in the inflation rate and survival of the district.

## 2. Proposed Buntongan Expansion Project (2018)

PROGRAM OF WORKS									
ADDITIONAL TRANSMISSION LINE PANANG TO BUNTONGAN									
I. ENGINEERING BASIC COST ITEMS:									
I.TRANSMISSION LINE	Qty	Unit	Unit Cost	Total Amount					
a. Park Area to Buntongan									
1.) 90mm PVC PIPE Series 8 Class 150 W/O-ring	252	length	1,550.00	390,600.00					
2.)63mm PVC PIPE Series 8 Class 150 W/ O-ring	282	length	758.00	213,756.00					
Sub-Total		•		604,356.00					
3.)Fittings & Appurtenances 15%				90,653.40					
II. LABOR AND CARPENTRY WORKS:									
b. Excavation & Restoration Cost	3,204.00	mtrs	90.00	288,360.00					
Sub-Total									
TOTAL PROJECT COST									

This project is expected to serve 17% of Brgy. Buntongan estimated population by 2017 or 334 people (67 households).

## **TIMELINE OF ACTIVITIES**

	2018											
Activities		1		2		3			4			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Buntongan Expansion Project</b>												
Right of Way												
Sticking												
Pipe and materials' delivery to site area												
Excavation and pipe laying												
Back filling												
Flushing and turn-over of the project												

## 3. Proposed Regularization (2018)

Position Title	Salary Grade	Rate
Administrative Services Aide	4	12,674.00
Water Resource Facilities Tender B (2)	4	12,674.00
Engineering Aide B	4	12,674.00
Customer Service Assistant E	4	12,674.00

# 4. Proposed Promotion (2018)

Position Title (From)	Position Title (To)	Salary Grade (From)	Salary Grade (To)	Rate (Php)
Customer Service Assistant B	Customer Service Officer B	10	12	22,149.00
Water Resource Facilities Tender A	Customer Service Assistant C	5	8	16,282.00
Industrial Relations Mgt. Aide	Industrial Relations Mgt.	4	6	14,340.00
	Assistant B			

# 5. Proposed WWD Re-categorization (2019)

Position Title	Salary Grade	Rate (Php)
General Manager C	26	107,444.00
Driver	4	13,214.00
Administrative Services Officer B	14	27,755.00
Industrial Relations Management Assistant B	8	16,758.00
Administrative Services Aide	4	13,214.00
Storekeeper C	6	14,847.00
Data Encoder	7	15,738.00
Clerk Processor D	4	13,214.00
Customer Service Officer B	14	27,755.00
Customer Service Assistant E	4	13,214.00
Customer Service Assistant B	10	19,233.00
Customer Service Assistant D	6	14,847.00
Senior Accounting Processor B	10	19,233.00
Collection Assistant	6	14,847.00
Engineering Assistant A	10	19,233.00
Engineering Aide A	6	14,847.00
Water/Sewerage Maintenance Man C (2)	4	13,214.00
Water Resource Facilities Tender B (2)	4	13,214.00

# 6. Proposed Regularization (2020)

Position Title	Salary Grade	Rate
Courier	2	11,761.00
Water Resource Facilities Tender B (2)	4	13,214.00

Utility Worker B	1	11,068.00
Storekeeper D	4	13,214.00

# 7. Proposed Promotion (2021)

Position Title (From)	Position Title (To)	Salary Grade (From)	Salary Grade (To)	Rate (Php)
Administrative Services Aide	Accounting Processor B	4	6	14,847.00
Industrial Relations Mgt. Assistant B	Secretary	6	9	17,975.00
Customer Service Officer B	Customer Service Officer A	14	16	33,584.00
Senior Accounting Processor B	Senior Accounting Processor A	10	12	22,938.00
Engineering Assistant A	Engineer B	10	12	22,938.00
Administrative Services Officer B	Administrative Services Officer A	14	16	33,584.00

# 8. Other Proposed Capital Expenditures (ICG)

Project	2018	2019	2020	2021
Transmission Lines	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00
Valves			500,000.00	500,000.00
Water Meters	200,000.00		300,000.00	300,000.00
Motorcycles	160,000.00		250,000.00	
Backhoe		1,500,000.00		
Acetylene, etc.			200,000.00	
Service Vehicle				2,000,000.00
Computers			400,000.00	
Building Renovation			500,000.00	500,000.00
Resort Development	500,000.00		500,000.00	500,000.00

# 9. A mark-up of 5% on the existing rate (2021)

CLASSIFICATION	CODE	EXISTING MINIMUM RATE	MARKED-UP RATE
Residential	102	145	153
Government	202	145	153
Commercial (full)	302	290	306
Commercial A	312	254	267
Commercial B	322	218	229
Commercial C	332	181	191
Bulk	402	435	459

# 10. We are also looking into strengthening our promotional drive / campaign.

A. Promotion I (Anniversary Promo)

Any prospected concessionaire who avail of this limited promo may:

- I. Pay a partial payment of P500.00 and pay the remaining balance of P200.00 every month for the next 15 months. (The regular payment scheme is: DP\_P1,500.00 and P500.00 every month for the next 4 months.)
- II. A discounted installation fee of P2,500.00 will be charged but with the following conditions:
- a. The prospected concessionaires may pay it in full or in an installment basis.
- b. Installment Payment Scheme: DP\_P500.00 and pay the remaining balance at P500.00 every month for the next 4 months.
- c. The concessionaires who availed of this limited promo cannot disconnect the service whether voluntary or involuntary for a period of 2 years. Otherwise, they will be penalized. (Penalty P800.00 on top of the reconnection fee.)
- B. Promotion II (Christmas Promo)
- I. Any prospected concessionaire who apply within this limited period is given a raffle coupon which will give them a chance to win any of the following prizes.
  - a. Flat Iron
  - b. Stand Fan
  - c. Rice Cooker
  - d. Grocery Items
- II. Concessionaires who pay in full within this limited period is given a chance to win grocery items using the "Bunot2x System".

#### **AVAILABILITY OF SERVICE**

To better serve the concessionaires and fasten collection, the district is open to public from 7:00 A.M. to 5:00 P.M., without noon break. The concessionaires can also reach the office for their maintenance concerns thru the following hotlines and websites:

(Globe)–0916 186 0375;

(Smart) - 0908 865 8299

Website: www. waowaterdistrict.com Facebook page: Wao Water District.

## **FACILITIES**

The district is equipped with computers and its accessories, surveillance cameras, air conditioning units, transportation vehicles and accommodating staffs who are always ready to serve.







#### ORDERING

Prepare Purchase Request (PR) and Request for Quotation (RFQ), at least 3 forms for the suppliers to be canvass. If the amount of the materials to be ordered is at least P50,000.00 and above, it should be posted to the PHILGEPS Website. Prepare Purchase Order (PO) after the canvass or posting to PHILGEPS is made. Delivery date should be 15 days from the PO date.



#### RECEIVING

Upon receipt, double check the materials against the PO or Delivery Receipt to ensure that we receive the ordered materials completely.



#### **RELEASING AND MONITORING**

Fill-up Store Requisition Slip and clearly indicate the purpose of its use: New Connection, Maintenance and Sold Items. Perform regular inventory of the materials and supplies to maintain efficiency and effectiveness of the operation.



# NEW CONNECTIONS/ INSTALLATIONS

Installation of new service application
Installation of Water System



#### **BILLING AND COLLECTION**

Meter reading will be conducted as scheduled per zone

Due date is 15 days from the date of reading

10% penalty will be automatically imposed on unpaid bills.

The account will be disconnected once the account becomes past due and a reconnection fee of P200 will be charged on top of the concessionaire's balance.



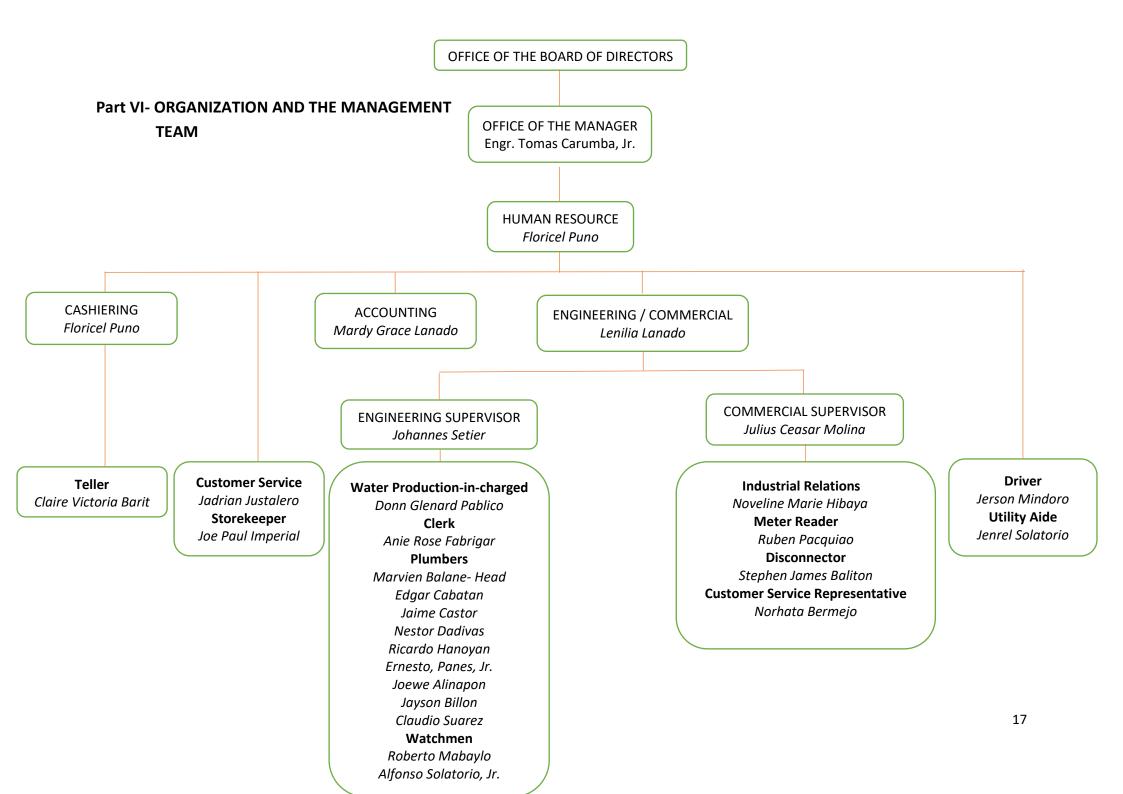
#### **MAINTENANCE**

Repairs and maintenance of transmission lines, mainlines, lateral and distribution lines and Sanitation



#### **SALE OF MATERIALS**

Mark-up 30%



## Annex 1 STAFF LIST (2016)

Position	Code	No.	Name	Last Name	Date of Birth	Date of	Gender	Profession	Education	Monthly	SG	Code
						Employment				Salary (PhP)		
General Manager	1	1	Tomas, Jr.	Carumba	05/30/65	02/15/10	Male	Mechanical Engineer	Baccalaureate Degree	57,308	24	1
Customer Service Assistant B	2	1	Floricel	Puno	11/28/78	08/02/99	Female	Computer Secretarial	Baccalaureate Degree	17,730	10	2
Accounting Processor B	3	1	Mardy Grace	Lanado	10/07/85	06/01/15	Female	Management Accounting	Baccalaureate Degree	13,378	6	3
Administrative Services Officer B	4	1	Lenilia	Lanado	10/21/58	08/02/99	Female	Accountant	Baccalaureate Degree	24,141	14	4
Engineer A	5	1	Vivencio	Rodas	06/02/70	09/01/08	Male	Electronics & Computer Engineer	Baccalaureate Degree	24,108	14	5
Water Resource Facilities Tender A	6	1	Julius Cesar	Molina	04/04/77	09/26/11	Male	Computer Engineering	Baccalaureate Degree	12,488	5	6
Administrative Services Aide	7	1	Claire Victoria	Barit	10/31/85	09/29/04	Female	Office Administration	Baccalaureate Degree	11,658	4	7
Water Resource Facilities Tender B	8	1	Ruben	Pacquiao	01/25/74	06/01/15	Male	Business Administration	Baccalaureate Degree	11,658	4	8
	•								Total	172,469		

tal 172,469

#### THE BOARD OF DIRECTORS

**DIR. ANGELITA L. YUTIG**Chairperson of the Board
Education Sector Representative



**DIR. PABLO P. PASCO**Vice-chairman of the Board
Professional Sector Representative



**DIR. JOSEPHINE B. ATA**Secretary to the Board
Business Sector Representative



**DIR. MARCELINA S. BALISTA**Treasurer
Women Sector Representative



**DIR. ROGELIO R. MUSICO**Auditor
Civic Sector Representative



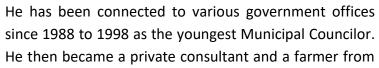
## POWER, DUTIES AND LIMITATIONS OF THE BOARD

As per Sec. 17, Chapter V of PD 198: "All powers, privileges, and duties of the district shall be exercised and performed by and through the board: Provided, however, that any executive, administrative or ministerial power shall be delegated and redelegated by the board to officers or agents designated for such purpose by the board."

Sec. 18, Chapter V of PD 198: "The board shall not engage in the detailed management of the district."

#### THE GENERAL MANAGER

Engr. Tomas C. Carumba, Jr. was born on May 30, 1965 at Wao, Lanao del Sur. He earned the degree of Bachelor of Science in Mechanical Engineering on 1987 at Cagayan Capitol College and got his license to practice his profession on the same year. He then married Tecelyn Banaynal and were blessed with five beautiful children.





1998 to 2004 until he was appointed as one of the board of directors of Wao Water District from 2004 to 2009, a concurrent position when he was still a regular employee as Head of Wao Development Corporation (2004-2010).

Since February 2010, he has been spearheading the operation of Wao Water District as the General Manager which has been continually growing and developing into a bigger district.

#### **DUTIES OF THE GENERAL MANAGER**

Sec. 24, Chapter VI of PD 198: "The General Manager shall have the full supervision and control of the maintenance and operation of water district facilities, with power and authority to appoint all personnel of the district; provided that the appointment of personnel in the supervisory level shall be subject to the approval by the board (as amended by Sec. 10, PD 768).

## Part VII- FINANCIAL PLANS AND PROJECTIONS

#### **ASSUMPTIONS:**

- 1. The Joint Water Supply project between WWD and Brgy. Pagalongan was completed and operational by 2017.
- 2. A 25% rate adjustment will be applied on 2018 and another 5% on 2021.
- 3. The district has allocated Php983,369.40 for the Buntongan Expansion Project for 2018 (ICG) which is estimated to be operational on the 2<sup>nd</sup> quarter of the year.
- 4. Proposed additional (5) regular employees by 2018
- 5. Proposed re-categorization by 2019 for a total of 20 regular employees.
- 6. Proposed additional (5) regular employees by 2020.
- 7. Proposed Promotions for (6) regular employees by 2021.
- 8. Proposed CAPEX (see page 13 for details).
- 9. The district has an existing loan with LWUA with annual amortization of Php417,660.00 (fully paid on 2021) and with LBP with a decreasing Annual amortization of Php585,332.48 (ave).

## **Annex 2 STAFF ANALYSIS**

		Year	2016 (Base	Year)		Year 2017			Year 2018			Year 2019	)		Year 2020			Year 202	1
No.	Position	No	Monthly	Annual	No	Monthly	Annual	No	Monthly	Annual	No	Monthly	Annual Coat	No	Monthly	Annual	No	Monthly	Annual Cost
		NO	Base Pay	Cost	NO	Base Pay	Cost	NO	Base Pay	Cost	NO	Base Pay	Annual Cost	NO	Base Pay	Cost	NO	Base Pay	Annual Cost
1	General Manager D	1	57,308	687,696	1	65,296	783,552	1	74,397	892,764	0	74,397	0.00	0	74,397	0	0	74,397	0
2	Customer Service Assistant B	1	17,730	212,760	1	18,217	218,604	0	18,718	0	1	19,233	230,796.00	1	19,233	230,796	0	19,233	0
3	Accounting Processor B	1	13,378	160,536	1	13,851	166,212	1	14,340	172,080	0	14,847	0.00	0	14,847	0	1	14,847	178,164
4	Administrative Services Officer B	1	24,141	289,692	1	25,290	303,480	1	26,494	317,928	1	27,755	333,060.00	1	27,755	333,060	0	27,755	0
5	Engineer A	1	24,108	289,296	1	29,920	359,040	0	26,806	0	0	26,806	0.00	0	26,806	0	0	26,806	0
6	Water Resource Facilities Tender A	1	12,488	149,856	1	12,975	155,700	0	13,481	0	0	17,975	0.00	0	17,975	0	0	17,975	0
7	Administrative Services Aide	1	11,658	139,896	1	12,155	145,860	2	12,674	304,176	1	13,214	158,568.00	1	13,214	158,568	0	13,214	0
8	Water Resource Facilities Tender B	1	11,658	139,896	1	12,155	145,860	3	12,674	456,264	2	13,214	317,136.00	4	13,214	634,272	4	13,214	634,272
9	Industrial Relations Mgt. Aide	0	12,155	0	1	12,155	145,860	0	12,674	0	0	13,214	0.00	0	13,214	0	0	13,214	0
10	Engineering Aide B	0	12,155	0	1	12,155	145,860	2	12,674	304,176	0	13,214	0.00	0	13,214	0	0	13,214	0
11	Customer Service Assistant E	0	12,155	0	1	12,155	145,860	2	12,674	304,176	1	13,214	158,568.00	1	13,214	158,568	1	13,214	158,568
12	Division Manager C	0	65,319	0	0	65,319	0	0	65,319	0	0	65,319	0.00	0	65,319	0	0	65,319	0
13	Industrial Relations Mgt. Assistant B	0	16,282	0	0	16,282	0	1	16,282	195,384	1	16,758	201,096.00	1	16,758	201,096	0	16,758	0
14	Property/Supply Assistant B	0	16,758	0	0	16,758	0	0	16,758	0	0	17,248	0.00	0	17,248	0	0	17,248	0
15	Secretary	0	17,975	0	0	17,975	0	0	17,975	0	0	17,975	0.00	0	17,975	0	1	17,975	215,700
16	Driver	0	13,214	0	0	13,214	0	0	13,214	0	1	13,214	158,568.00	1	13,214	158,568	1	13,214	158,568
17	Industrial Security Guard C	0	12,466	0	0	12,466	0	0	12,466	0	0	13,044	0.00	0	13,044	0	0	13,044	0
18	Utility Worker B	0	11,068	0	0	11,068	0	0	11,068	0	0	11,068	0.00	1	11,068	132,816	1	11,068	132,816
19	Corporate Budget Analyst B	0	22,938	0	0	22,938	0	0	22,938	0	0	22,938	0.00	0	22,938	0	0	22,938	0
20	Cashier D	0	17,730	0	0	17,730	0	0	17,730	0	0	18,574	0.00	0	18,574	0	0	18,574	0
21	Customer Service Officer B	0	26,494	0	0	26,494	0	1	26,494	317,928	1	27,755	· · · · · · · · · · · · · · · · · · ·	1	27,755	333,060	0	27,755	0
22	Water/Sewerage Maintenance Man C	0	12,674	0	0	12,674	0	0	12,674	0	2	13,214	317,136.00	2	13,214	317,136	2	13,214	317,136
23	Engineering Aide A	0	14,340	0	0	14,340	0	1	14,340	172,080	1	14,847	178,164.00	1	14,847	178,164	1	14,847	178,164
24	Storekeeper C	0	14,847	0	0	14,847	0	0	14,847	0	1	14,847	178,164.00	11	14,847	178,164	1	14,847	178,164
25	Water/Sewerage Maintenance Head	0	33,584	0	0	33,584	0	0	33,584	0	0	34,566		0	34,566	0	0	34,566	0
26	Customer Service Assistant C	0	12,674	0	1	12,674	152,088	1	16,282	195,384	0	16,282	0.00	0	16,282	0	0	16,282	0
27	Administrative Services Officer A	0	33,584	0	0	33,584	0	0	33,584	0	0	33,584	0.00	0	33,584	0	1	33,584	403,008
28	Customer Service Assistant D	0	14,847	0	0	14,847	0	0	14,847	0	1	14,847	178,164.00	1	14,847	178,164	1	14,847	178,164
29	Collection Assistant	0	14,847	0	0	14,847	0	0	14,847	0	1	14,847	178,164.00	1	14,847	178,164	1	14,847	178,164
30	Senior Accounting Processor B	0	19,233	0	0	19,233	0	0	19,233	0	1	19,233	230,796.00	1	19,233	230,796	0	19,233	0

158,568 1 188,856 1 158,568 1 ,289,328 1 0 1 141,132 1	13,214 158,568 15,738 188,856 13,214 158,568 107,444 1,289,328
158,568 1 ,289,328 1 0 1	13,214 158,568 107,444 1,289,328
,289,328 1 0 1	107,444 1,289,328
0 1	
0 1	
1/1 132 1	33,584 403,008
141,132	11,761 141,132
0 1	22,938 275,256
0 1	22,938 275,256
0 1	22,938 275,256
,768,640 25	6,076,116
14.9%	5.3%
4,933	
5.07	
	2021
	0.00%
	0.00%
	0.00%
	0.00%
	0.00%
	0.00%
	0.00%
	0.00% 0.00%
	0.00% 0.00%
	0.00%
	0.00%
	0.00%
	0.00%
	0.00%
	0.00%
,,7	14.9% 4,933

18 Utility Worker B	0.00%	0.00%	0.00%	0.00%	0.00%
19 Corporate Budget Analyst B	0.00%		0.00%	0.00%	0.00%
20 Cashier D	0.00%	0.00%	4.76%	0.00%	0.00 <mark>%</mark>
21 Customer Service Officer B	0.00%		4.76%	0.00%	<u>0.00%</u>
22 Water/Sewerage Maintenance Man C	0.00%		4.26%	0.00%	<u>0.00%</u>
23 Engineering Aide A	0.00%		3.54%	0.00%	<u> 0.00%</u>
24 Storekeeper C	0.00%		0.00%	<u>0.00%</u>	<u>0.00%</u>
25 Water/Sewerage Maintenance Head	<u>0.00%</u>		<u>2.92%</u>	0.00%	<u>0.00%</u>
26 Customer Service Assistant C	0.00%		0.00%	0.00%	0.00%
27 Administrative Services Officer A	0.00%		0.00%	0.00%	0.00%
28 Customer Service Assistant D	0.00%		0.00%	0.00%	0.00%
29 Collection Assistant	<u>0.00%</u>		0.00%	0.00%	<u>0.00%</u>
30 Senior Accounting Processor B	0.00%		0.00%	0.00%	<u>0.00%</u>
31 Engineering Assistant A	0.00%		0.00%	0.00%	<u>0.00%</u>
32 Clerk Processor C	0.00%		0.00%	0.00%	<u>0.00%</u>
33 Data Encoder	0.00%	0.00%	0.00%	0.00%	<u>0.00%</u>
34 Storekeeper D	0.00%	0.00%	0.00%	0.00%	0.00 <mark>%</mark>
35 General Manager C	0.00%	0.00%	0.00%	0.00%	<u> </u>
36 Customer Service Officer A	0.00%	0.00%	0.00%	0.00%	<mark>0.00%</mark>
37 Courier	0.00%	0.00%	0.00%	0.00%	<mark>0.00%</mark>
38 Senior Accounting Processor A	0.00%	0.00%	0.00%	0.00%	0.00%
39 Customer Service Assistant A	0.00%	0.00%	0.00%	0.00%	0.00%
40 Engineer B	<u>0.00%</u>	0.00 <mark>%</mark>	0.00%	0.00%	0.00%

## **Annex 3 WATER DEMAND ANALYSIS**

	Year 2016	Year 2017	Year 2018	Year 2019	Year 2020	Year 2021
	Base Year					
POPULATION/CUSTOMER PROFILE	2400 1041					
Population in the City/Municipality/Franchise Area	46,467	47,081	47,702	48,332	48,970	49,616
Population Served by Other Water Service Provider(s)	17,876			16,920	14,924	15,121
Serviceable Population	28,591			31,412		34,496
Population Served by Registered Residential Connections	16,905			19,789		21,560
Unserved Population	11,686		12,389	11,622	13,278	12,936
% of Population Provided with Water Service	59%	58%	60%	63%	61%	63%
NUMBER OF REGISTERED SERVICE CONNECTIONS:						
Total Number of Registered Connections	3,810	3,996	4,218	4,492	4,729	4,933
A. Registered Active Residential Connections	3,381	3,535	3,723	3,958	4,154	4,312
Metered Residential Connections	3,381	3,535	·····	3,958	4,154	4,312
Non-metered Residential Connections	0	0	0	0	0	0
% Metered Residential Connections	100%	100%	100%	100%	100%	100%
Number of New Metered Residential Connections per Year		154	187	235	196	158
B. Registered Active Commercial Connections:						
B.1 Commercial Connection:	98	108	119	130	143	158
Metered Connections	98	108	119	130		158
Non-metered Connections	0	0	0	0	0	0
% Metered Connections	100%	100%	100%	100%	100%	100%
No. of New Metered Commercial Connections per Year		10	***************************************	12	13	14
B.2 Commercial A Connections	22	24	27	29	32	35
Metered Connections	22	24		29	32	35
Non-metered Connections	0	0	0	0		00
% Metered Connections	100%	100%	100%	100%	100%	100%
No. of New Metered Commercial A Connections per Year	10070	2	2	3	***************************************	3
		_				
B.3 Commercial B Connections	73	80	88	97	107	118
Metered Connections	73	80		97	107	118
Non-metered Connections	0	0	0	0	<u> </u>	0
% Metered Connections	100%	100%	100%	100%	100%	100%
No. of New Metered Commercial B Connections per Year	***************************************	7	8	9	10	11
B.4 Commercial C Connections	112	123	136	149	164	180
Metered Connections	112	123		149		180
Non-metered Connections	0	0		0		0
% Metered Connections	100%	100%	100%	100%	100%	100%
No. of New Metered Commercial C Connections per Year		11	12	14		16

C. Registered Institutional/Government Connections	123	124	125	127	128	129
Metered Connections	123	124	125	127	128	129
Non-metered Connections	0	0	0	0	0	0
% Metered Connections	100%	100%	100%	100%	100%	100%
No. of New Metered Institutional/Govt Connections per Year		1	1	1	1	1
D. Registered Active Industrial Connections	0	0	0	0	0	0
Metered Connections	0	0	0	0	0	0
Non-meteredConnections	0	0	0	0	0	0
% Metered Connections	0%	0%	0%	0%	0%	0%
Number of New Metered Industrial Connections per Year		0	0	0	0	0
E. Registered Active Bulk/Wholesale Connections	1	1	1	1	1	1
Metered Connections	1	1	1	1	1	1
Non-meteredConnections	0	0	0	0	0	0
% Metered Connections	100%	100%	100%	100%	100%	100%
Number of New Metered Bulk Connections per Year		0	0	0	0	0
TOTAL ANNUAL WATER SALES - VOLUME (m3/year)						
Total Water Consumption per year (m3/year)	785,198	871,782	974,208	1,098,163	1,227,022	1,362,067
A. Total Residential Consumption (m³/year)	629,796	694,845	771,985	865,959	958,869	1,050,263
Metered Residential Water Sales	629,796					
Non-metered Residential Water Sales	0					
B. Total Commercial Consumption (m³/year)						
B.1 Total Commercial Consumption (m³/year)	45,282	50,308	55,893	62,097	68,989	76,647
Metered Water Sales	45,282					
Non-metered Water Sales	0					
B.2 Total Commercial A Consumption (m³/year)	5,586	6,206	6,895	7,660	8,511	9,455
Metered Water Sales	5,586					
Non-metered Water Sales	0					
B.3 Total Commercial B Consumption (m³/year)	19,770	21,964	24,403	27,111	30,121	33,464
Metered Water Sales	19,770					
Non-metered Water Sales	0					
B.4 Total Commercial C Consumption (m³/year)	23,309	25,896	28,771	31,964	35,512	39,454
Metered Water Sales	23,309					
Non-metered Water Sales	0					

C. Total Institutional Consumption (m³/year)	54,110	61,942	70,907	81,169	92,917	106,365
Metered Water Sales	54,110					
Non-metered Water Sales	0					
D. Total Industrial Consumption (m³/year)	0	0	0	0	0	0
Metered Water Sales	0					
Non-metered Water Sales	0					
E. Total Bulk/Wholesale Consumption (m³/year)	7,345	10,620	15,356	22,203	32,103	46,418
Metered Water Sales	7,345					
Non-metered Water Sales	0					
AVE. MONTHLY CONSUMPTION PER CONN. (m³/month)						
Residential	16	16	17	18	19	20
Commercial	39	39	39	40	40	40
Commercial A	21	21	22	22	22	22
Commercial B	23	23	23	23	23	24
Commercial C	17	18	18	18	18	18
Institutional	37	42	47	53	60	69
Industrial	0	0	0	0	0	0
Bulk/Wholesale	612	885	1,280	1,850	2,675	3,868
Per Capita Domestic/Residential Consumption (Ipcd)	102	108	114	120	126	133
TOTAL CONSUMPTION PER DAY (m³/day)						
Total Daily Consumption (m³/day)	2,151	2,388	2,669	3,009	3,362	3,732
Total ( m³/day)	2,151	2,388	2,669	3,009	3,362	3,732
NON-REVENUE WATER (NRW)						
Allowance for % NRW (%)	28%	20%	20%	20%	20%	20%
NRW (m³/day)	837	597	667	752	840	933
AVERAGE DAY DEMAND						
Produced Water (m³/day)	2,988	2,986	3,336	3,761	4,202	4,665
Purchased Water from Other Water Provider(m³/day)	0	0	0	0	0	0
Total Water to System (m³/day)	2,988	2,986	3,336	3,761	4,202	4,665
Projected Population Annual Increase (%)	1.32%					
Projected Commercial Connection Increase (%)	10.00%					
Projected Institutional/Gov't Connection Increase (%)	1.00%					
Projected Industrial Connection Increase (%)	0.00%					
Projected Bulk Connection Increase (%)	0.00%					
Projected Annual Increase in Per Capita Consumption (%)	5.51%					
Projected Increase in consumption per Commercial Conn. (%)	1.00%					
Projected Increase in consumption per Gov./Inst. Conn. (%)	13.34%					
Projected Increase in consumption per Industrial Conn. (%)	0.00%					
Projected Bulk Consumption Annual Increase (%)	44.59%					
Number of Persons per Residential Connection	5.00					

## Annex 4 OPERATING AND MAINTENANCE BUDGET FORECAST

Expenses	Year 2016	Year 2017	Year 2018	Year 2019	Year 2020	Year 2021
	Base Year					
Salaries	(PhP)	(PhP)	(PhP)	(PhP)	(PhP)	(PhP)
Annual Base Salary	2,069,628	2,867,976	3,632,340	5,018,988	5,768,640	6,076,116
Overtime	0	30,000	30,000	0	20,000	30,000
13th Month Pay	345,514	477,996	605,390	836,498	961,440	1,012,686
Bonuses	202,000	465,996	564,312	789,148	909,102	950,099
Other Compensation	704,293	901,400	555,200	748,000	856,800	856,800
Board of Directors' Expenses	315,967	488,336	682,880	478,800	478,800	478,800
Other Board Members' Compensation	0	0	0	0	0	C
Sub Total (1)	3,637,402	5,231,704	6,070,122	7,871,434	8,994,782	9,404,501
Personnel Costs						
GSIS	247,473	344,157	435,881	602,279	692,237	729,134
Philhealth	21,975	43,200	57,600	72,000	86,400	86,400
Pag-ibig	9,600	14,400	19,200	24,000	28,800	28,800
Employee Compensation	9,600	14,400	19,200	24,000	28,800	28,800
Training	93,000	274,000	530,685	800,000	800,000	800,000
Sub Total (2)	381,648	690,157	1,062,566	1,522,279	1,636,237	1,673,134
Expenditures	,	•	, ,	, ,		• •
Maintenance	3,031,351	3,186,040	3,580,000	3,100,000	3,000,000	2,900,000
Materials	0	0	0	0	0	(
Chemicals	219,593	303,800	420,277	581,411	804,324	965,189
Electrical Energy	117,128	144,000	177,034	217,645	267,573	321,087
Security Services	0	0	0	0	240,000	240,000
Other Contracted Services	0	0	0	0	0	(
Transport (fuel, oil, vehicle insurance)	229,277	240,000	480,000	500,000	505,000	510,000
Office and Administrative	1,706,965	1,542,000	1,720,330	2,319,299	2,610,320	3,016,114
Taxes (Premiums and other fees)	278,123	276,212	275,000	280,000	300,000	312,000
Purchased Water	0	0	0	0	0	(
UV	0	0	0	0	0	(
Other Expenditures	35,678	102,600	100,000	100,000	80,000	100,000
Public Relations	0	0	0	0	0	(
O&M Contingency	0	0	0	0	0	(
Sub Total (3)	5,618,115	5,794,652	6,752,641	7,098,355	7,807,217	8,364,390
Total Operation and Maintenance (1+2+3)	9,637,166	11,716,513	13,885,329	16,492,068	18,438,236	19,442,025

Norms	Year 2016	Year 2017	Year 2018	Year 2019	Year 2020	Year 2021
GSIS (% on Base Salary)	11.96%	12.00%	12.00%	12.00%	12.00%	12.00%
Philhealth (% on Base Salary)	1.06%	1.51%	1.59%	1.43%	1.50%	1.42%
Pag-ibig (% on Base Salary)	0.46%	0.50%	0.53%	0.48%	0.50%	0.47%
Employee Compensation (% on Base Salary)	0.46%	0.50%	0.53%	0.48%	0.50%	0.47%
Overtime (% on Base Salary)	0.00%	1.05%	0.83%	0.00%	0.35%	0.49%
13th Month Pay (% on Base Salary)	16.69%	16.67%	16.67%	16.67%	16.67%	16.67%
Bonuses (% on Base Salary)	9.76%	16.25%	15.54%	15.72%	15.76%	15.64%
Other Compensations (% on Base Salary)	34.03%	31.43%	15.28%	14.90%	14.85%	14.10%
Training (% on Base Salary)	4.49%	9.55%	14.61%	15.94%	13.87%	13.17%
Public Relations (PhP/year/connection)	0.00	0.00	0.00	0.00	0.00	0.00
Chemicals (PhP/m³ Produced)	0.20	0.38	0.38	0.38	0.38	0.20
Electrical Energy (PhP/m³ Produced)	0.11	0.13	0.15	0.16	0.17	0.19
Purchased Water Rate (PhP/m³)	0	0	0	0	0	0
Increasing/Decreasing Rates (%)						
Board of Directors' Compensation	15.27%	54.55%	39.84%	-29.89%	0.00%	0.00%
Other Board Members' Compensation	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Maintenance	53.96%	5.10%	12.37%	-13.41%	-3.23%	-3.33%
Materials	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security Services	0.00%	0.00%	0.00%	0.00%	4.16%	0.00%
Other Contracted Services	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Transport (fuel, oil, vehicle insurance)	4.08%	4.68%	100.00%	4.17%	1.00%	0.99%
Office and Administrative	30.38%	-9.66%	11.56%	34.82%	12.55%	15.55%
Taxes (Premiums and other fees)	4.95%	-0.69%	-0.44%	1.82%	7.14%	4.00%
Other Expenditures	0.64%	187.57%	-2.53%	0.00%	-20.00%	25.00%

## **Annex 5 CAP INVESTMENT PROGRAM**

		Linit	Tatal Cast	2016	2017	2018	2019	2020	2021
	Qty.	Unit	Total Cost	Base Year		!	!		
		Cost	2017-2021						
Item									
Capital Renewal									
Source Facilities	1	LS	0						
Treatment Facilities	1	LS	0						
Main Transmission	1	LS	6,983,369			2,483,369	1,500,000	1,500,000	1,500,000
Distribution Network	1	LS	0		0	0	0	0	0
Valves	1	LS	1,000,000	0			0	500,000	500,000
Water Meters	1	LS	800,000	0		200,000		300,000	300,000
			0						
			0						
Total Capital Renewal Expenditures			8,783,369	0	0	2,683,369	1,500,000	2,300,000	2,300,000
Capital Repair and Replacement									
Fixed Operating Equipments	1	LS	0	0	0	0	0	0	0
Movable Operating Equipments	1	LS	4,110,000			160,000	1,500,000	450,000	2,000,000
Office and Laboratory Equipments	1	LS	400,000		0			400,000	
Buildings	1	LS	1,000,000		0	0		500,000	500,000
Structures	1	LS	1,500,000	4,474,359	0	500,000		500,000	500,000
			0						,
			0						
Total Capital Repair and Replacement									
Reserve			7,010,000	4,692,803	0	660,000	1,500,000	1,850,000	3,000,000
New Capital Investments									
New Project No. 1 Annex/Administration	1	LS	0	0	0		0	0	0
New Project No. 2 Source Facility	1	LS	0	0	0			0	0
New Project No. 3 SpTP	1	LS	0	0	0		0	0	0
New Project No. 4 Reservoir	1	LS	0	0	0	0	0	0	0
New Project No. 5 Mainline Pipes	1	LS	0					0	0
New Project No. 6 Distribution Network	1	LS	0	0	0	0	0	0	0
The state of the s	1	LS	Ö					0	0
Total New Capital Investments			0	0	0	0	0	0	0
Contribution to New Capital Investment	100%	LS	0	0	0	0	0	0	0
New Capital Investment Loans	0%	LS	0		0			0	0
Total Capital Investments from Free	070								
Cash Flow			15,793,369	4,692,803	0	3,343,369	3,000,000	4,150,000	5,300,000
Casii FiUW									
Capital Investments from Grants									
	1	LS	0		0	0	0	0	0
Grant #1									
Grant #1 Grant #2	1		n	n	0	Λ	Λ	n	
Grant #1 Grant #2	1	LS	0		0	0	0	0	C
	1		0		0	0	0	0	(
	1				0	0	0	0	0

## **Annex 6 DEBT SERVICE**

Description	Year 2016	Year 2017	Year 2018	Year 2019	Year 2020	Year 2021
	Base Year					
	(PhP)	(PhP)	(PhP)	(PhP)	(PhP)	(PhP)
DEBT SERVICE						
EXISTING LOANS						
Interest Payments	226,425	209,788	192,088	172,882	152,036	129,418
Principal Repayments	191,559	207,872	225,572	244,778	265,624	288,242
Total Payments Loan #1	417,984	417,660	417,660	417,660	417,660	417,660
LOANS OUTSIDE LWUA (LBP)						
Interest Payments	245,108	132,483	100,366	68,249	36,132	6,022
Principal Repayments	535,286	535,286	535,286	535,286	535,286	267,643
Total Payments Loan #2	780,394	667,769	635,652	603,535	571,417	273,665
NEW CAPITAL INVESTMENTS LOANS						
Interest Payments						
Principal Repayments						
Total Payments Loan #3	0	0	0	0	0	0
TOTAL LOANS						
Total Interest Payments	471,533	342,271	292,454	241,131	188,168	135,440
Total Principal Repayments	726,845	743,158	760,858	780,064	800,910	555,885
Total Loan Payments	1,198,378	1,085,429	1,053,312	1,021,195	989,077	691,325

# **Annex 7 REVENUE NEEDS**

Description	Year 2016	Year 2017	Year 2018	Year 2019	Year 2020	Year 2021
	Base Year					
	(PhP)	(PhP)	(PhP)	(PhP)	(PhP)	(PhP)
Total Operation and Maintenance (1+2+3)	9,637,166	11,716,513	13,885,329	16,492,068	18,438,236	19,442,025
Debt Service						
Interest Payments from Revenues	471,533	342,271	292,454	241,131	188,168	135,440
Principal Repayment from Revenues	726,845	743,158	760,858	780,064	800,910	555,885
Debt Repayment Reserve	0	0	0	0	0	0
Sub Total (4)	1,198,378	1,085,429	1,053,312	1,021,195	989,077	691,325
Capital Expenditures						
Capital Renewal Expenditures	0	0	2,683,369	1,500,000	2,300,000	2,300,000
Capital Repair and Replacement Reserve	4,692,803	0	660,000	1,500,000	1,850,000	3,000,000
New Capital Investment Reserve	0	0	0	0	0	0
Sub Total (5)	4,692,803	0	3,343,369	3,000,000	4,150,000	5,300,000
Subsidies and Loans						
Subsidies/Loans from Central/ Gov't. Banks						
Sub Total (6)	0	0	0	0	0	0
Total Revenue Needs (1+2+3+4+5-6)	15,528,347	12,801,942	18,282,010	20,513,263	23,577,313	25,433,350
Debt Service Reserve						
(O&M Contingency+Debt Repayment Reserve+Capital Expenditures)	4,692,803	0	3,343,369	3,000,000	4,150,000	5,300,000
Total Debt Service Reserve (as % on Adjusted Total Revenue Needs)	47.47%	0.00%	20.30%	16.03%	19.56%	21.73%

# **Annex 8 PRICING**

Description	Year 2016	Year 2017	Year 2018	Year 2019	Year 2020	Year 2021
·	Base Year					
NO. OF WATER SERVICE CONNECTIONS						
Residentia	3,381	3,535	3,723	3,958	4,154	4,312
Commercial	98	108	119	130	143	158
Commercial A	22	24	27	29	32	35
Commercial E	73	80	88	97	107	118
Commercial C	112	123	136	149	164	180
Institutional/Gov	123	124	125	127	128	129
Industria		0	0	0	0	0
Bulk/Wholesale	1	1	1	1	1	1
Sewer Connections		***************************************				
Household	0	0	0	0	0	0
Commercial	0	0	0	0	0	0
Institutional/Gov		0	0	0	0	0
Industria	***************************************	0	0	0	0	0
Total No. of Connections	3,810	3,996	4,218	4,492	4,729	4,933
WATER SALES (m3/day)						
Retail (m³/day	······································	2,388	2,669	3,009	3,362	3,732
Total	2,151	2,388	2,669	3,009	3,362	3,732
WATER CONSUMPTION PER CONNECTION PER MONTH (m3/mo)						
Residentia			17	18	19	20
Commercia		39	39	40	40	40
Commercial A		21	22	22	22	22
Commercial E	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	23	23	23	23	24
Commercial C		18	18	18 	18	18
Institutional/GoVt	37	42	47	53	60	69
Industrial	0	0	0	0	0	0
Bulk/Wholesale	612	885	1,280	1,850	2,675	3,868
Commodity Consumption per connection per year (m3/year)	004.070	070 500	205.050	204 044	400,404	F00 007
Residentia			***************************************		***************************************	532,827
Commercia		37,372	41,663	46,444	51,771	57,708
Commercial A	·		3,701	4,146	4,645	5,203
Commercial E			13,803	15,452	17,295	19,356
Commercial C Institutional/Gov	***************************************		12,508	14,076	15,835 77,559	17,809
		47,034	55,850	65,962	77,558	90,853
Industria  Rulk/Wholosole		10 500	15 226	22.002	24 002	16 JUU
Bulk/Wholesale	7,225	10,500	15,236	22,083	31,983	46,298

Water Consumption per Connection per Category per Commodity Block (m3/mo)						
Residential						
11 - 20	6	6	7	8	9	10
21 - 30	0	0	0	0	0	0
31 - 40	0	0	0	0	0	0
41 - 50	0	0	0	0	0	0
over 50	0	0	0	0	0	0
Commercial						
11 - 20	10	10	10	10	10	10
21 - 30	10	10	10	10	10	10
31 - 40	1	9	9	10	10	10
41 - 50	0	0	0	0	10	10
over 50	0	0	0	0	0	0
Commercial A						
11 - 20	10	10	10	10	10	10
21 - 30	9	1	2	2	2	2
31 - 40	0	0	0	0	0	0
41 - 50	0	0	0	0	0	0
over 50	0	0	0	0	0	0
Commercial B						
11 - 20	10	10	10	10	10	10
21 - 30	7	3	3	3	3	4
31 - 40	0	0	0	0	0	0
41 - 50	0	0	0	0	0	0
over 50	0	0	0	0	0	0
Commercial C				***************************************	***************************************	
11 - 20	3	8	8	8	8	8
21 - 30	0	0	0	0	0	0
31 - 40	0	0	0	0	0	0
41 - 50	0	0	0	0	0	0
over 50	0	0	0	0	0	0
Institutional/Govt						
11 - 20	10	10	10		10	10
21 - 30	10	10	10		10	10
31 - 40	3	10	10		10	10
41 - 50	0	8	3	10	10	10
over 50	0	0	0	3	10	19
Industrial						
11 - 20	0	0	0		0	0
21 - 30		0	0	0	0	0
31 - 40	0	0	0	0	0	0
41 - 50	0	0	0	0	0	0
over 50	0	0	0	0	0	0

Bulk/Wholesale				B0000000000000000000000000000000000000		<b>B</b> 000000000000000000000000000000000000
11 - 20	10	10	10	10	10	10
21 - 30	10	10	10		***************************************	10
31 - 40	10	10	10		10	10
41 - 50	10	10	10		10	10
over 50	562	835	1,230		2,625	3,818
			,	,	, -	-,
TARIFF AND FEES						
Increase in Water Rates (%)		0%	25%	0%	0%	5%
Increase will start what month (1 to 12)		0	1	0	0	0
Monthly Minimum Charge per Service Connection						
Residential	116	116	145	145	145	153
Commercial	232	232	290	290	290	306
Commercial A	203	203	254	254	254	267
Commercial B	174	174	218	218	218	229
Commercial C	145	145	181	181	181	191
Institutional/Gov/t	116	116	145	145	145	153
Industrial	-				_	-
Bulk/Wholesale	348	348	435	435	435	459
Commodity Charges (PhP/m³)						
% increase in water rates		0%	25%	0%	0%	5%
Residential						<u></u>
11 - 20	12.30	12.30	15.38	15.38	15.38	16.21
21 - 30	13.20	13.20	16.50	16.50	16.50	17.39
31 - 40	14.50	14.50	18.13	18.13	18.13	19.11
41 - 50	14.50	14.50	18.13	18.13	18.13	19.11
over 50	14.50	14.50	18.13	18.13	18.13	19.11
Commercial						
11 - 20	24.60	24.60	30.75	30.75	30.75	32.42
21 - 30	26.40	26.40	33.00	33.00	33.00	34.79
31 - 40		29.00	36.25	36.25	36.25	38.21
over 40	29.00	29.00	36.25	36.25	36.25	38.21
Commercial A	04.50	04.50	00.00	00.00	00.00	20.00
11 - 20	21.50	21.50	26.88	26.88	26.88	28.33
21 - 30	23.10	23.10	28.88	28.88	28.88	30.44
31 - 40 41 - 50	25.35	25.35	31.69	31.69	31.69	33.40 33.40
	~~~~~	25.35	31.69	31.69	31.69	***************************************
over 50 Commercial B	25.35	25.35	31.69	31.69	31.69	33.40
11 - 20	18.45	18.45	23.06	23.06	23.06	24.31
21 - 30	19.80	19.80	23.00	23.00	23.00	26.09
31 - 40	21.75	21.75	27.19	27.19	27.19	28.66
41 - 50	21.75	21.75	27.19	27.19	27.19	28.66
41 - 50 over 50		21.75	27.19	27.19	27.19	28.66

Commercial C	<b>D</b>		***************************************	poseconocineconocineconocineconocinecon	<del></del>	<b>p</b> 0x00x00x00x00x00x00x00x00x00x00x00x00x0
11 - 20	15.35	15.35	19.19	19.19	19.19	20.23
21 - 30	16.50	16.50	20.63	20.63	20.63	21.74
31 - 40	18.10	18.10	22.63	22.63	22.63	23.85
41 - 50	18.10	18.10	22.63	22.63	22.63	23.85
over 50	18.10	18.10	22.63	22.63	22.63	23.85
Institutional/Govt						
11 - 20	12.30	12.30	15.38	15.38	15.38	16.21
21 - 30	13.20	13.20	16.50	16.50	16.50	17.39
31 - 40 41 - 50	14.50 14.50	14.50	18.13 18.13	18.13 18.13	18.13 18.13	19.11 19.11
41 - 50 over 50	14.50	14.50 14.50	18.13	18.13	18.13	19.11
Industrial	14.00	14.30	10.13	10.13	10.13	13.11
11 - 20	_	_	_	-	_	-
21 - 30	-	-	-	-	-	-
31 - 40	-	-	-	-	-	-
41 - 50	-	-	-	-	-	-
over 50	-	-	-	-	-	-
Bulk/Wholesale						
11 - 20	36.90	36.90	46.13	46.13	46.13	48.62
21 - 30	39.60	39.60	49.50	49.50	49.50	52.18
31 - 40	43.50	43.50	54.38	54.38	54.38	57.32
41 - 50	43.50	43.50	54.38	54.38	54.38	57.32 57.32
over 50	43.50	43.50	54.38	54.38	54.38	57.32
Total Commodity Charge per Year per block (PhP/year)						
Residential		***************************************				
11 - 20	2,756,134.8	3,328,329.8	5,000,745.4	6,011,845.7	7,079,121.8	8,386,503.8
21 - 30	0.0	0.0	0.0	0.0	0.0	267,714.4
31 - 40	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	<u></u>	0.0	0.0	0.0	0.0
41 - 50			0.0			0.0
over 50		···	0.0	0.0	•••••••	0.0
Sub-total	2,756,134.8	3,328,329.8	5,000,745.4	6,011,845.7	7,079,121.8	8,654,218.2
Commercial;	289,296.0	318,225.6	437,560.2	481,316.2	529,447.8	613,938.9
21 - 30	310,464.0		469,576.8	516,534.5	568,187.9	658,861.3
31 - 40	50,982.0		478,635.0	548,785.6	624,145.8	723,749.1
41 - 50	0.0	•	0.0	0.0	619,866.5	689,787.2
over 50	0.0	•	0.0	0.0	0.0	0.0
Sub-total	650,742.0	993,244.8	1,385,772.0	1,546,636.3	2,341,648.1	2,686,336.5
Commercial A		20				
11 - 20	56,760.0		85,849.5		•	120,455.1
21 - 30	53,915.4		14,614.1	18,265.5	22,525.2	28,969.4
31 - 40	0.0	•••••	0.0	0.0	0.0	0.0
41 - 50	0.0	***************************************	0.0	0.0	0.0	0.0
over 50 Sub-total	0.0		0.0	0.0	0.0	0.0
Sub-total	110,675.4	71,630.9	100,463.6	112,700.0	126,403.1	149,424.5

Commercial B	<b>*************************************</b>	posecoscococcoccoccoccoccoccoccoccoccoccocco	200000000000000000000000000000000000000			000000000000000000000000000000000000000
11 - 20	161,622.0	177,784.2	244,453.3	268,898.6	295,788.5	342,991.4
21 - 30	128,898.0	53,310.9	79,282.3	93,854.1	110,620.6	136,918.3
31 - 40	0.0	0.0	0.0	0.0	0.0	0.0
41 - 50	0.0	0.0	0.0	0.0	0.0	0.0
over 50	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total	290,520.0	231,095.1	323,735.6	362,752.7	406,409.0	479,909.7
Commercial C						
11 - 20	54,814.9	170,573.8	240,004.7	270,077.6	303,831.8	360,219.7
21 - 30	0.0	0.0	0.0	0.0	0.0	0.0
31 - 40	0.0	0.0	0.0	0.0	0.0	0.0
41 - 50	0.0	0.0	0.0	0.0	0.0	0.0
over 50	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total	54,814.9	170,573.8	240,004.7	270,077.6	303,831.8	360,219.7
Institutional/Govt						
11 - 20	181,548.0	183,363.5	231,496.4	233,811.4	236,149.5	251,430.3
21 - 30	194,832.0	196,780.3	248,435.2	250,919.5	253,428.7	269,827.6
31 - 40	71,485.0	216,160.2	272,902.3	275,631.3	278,387.6	296,401.6
41 - 50	0.0	182,648.4	79,329.0	275,631.3	278,387.6	296,401.6
over 50	0.0	0.0	0.0	93,035.4	292,185.3	550,291.7
Sub-total	447,865.0	778,952.4	832,162.8	1,129,028.8	1,338,538.7	1,664,352.8
Industrial						
11 - 20	0.0	0.0	0.0	0.0	0.0	0.0
21 - 30	0.0	0.0	0.0	0.0	0.0	0.0
31 - 40	0.0	0.0	0.0	0.0	0.0	0.0
over 40	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total	0.0	0.0	0.0	0.0	0.0	0.0
Bulk/Wholesale	4,428.0	4,428.0	E 525 0	E E2E 0	E E2E 0	E 024 0
21 - 30		***************************************	5,535.0 5,040.0	5,535.0 5,040.0	5,535.0 5,040.0	5,834.8 6,261.8
31 - 40	•	4,752.0 5,220.0	5,940.0 6,525.0	5,940.0 6,525.0	5,940.0 6,525.0	6,878.4
over 40	5,220.0	5,220.0	6,525.0	6,525.0	6,525.0	6,878.4
Sub-total	19,620.0	19,620.0	24,525.0	24,525.0	24,525.0	25,853.4
Out total	10,020.0	10,020.0	24,020.0	24,020.0	24,020.0	20,000.7
ANNUAL REVENUES (Total Billed, PhP)						
Minimum Charge (PhP)						
Residential	4,706,352	4,921,287	6,477,627	6,886,697	7,227,352	7,909,223
Commercial	272,832	300,115	412,658	453,924	499,317	578,999
Commercial A	53,592	58,951	81,058	89,164	98,080	113,732
Commercial B	152,424	167,666	230,541	253,595	278,955	323,472
Commercial C	194,880	214,368	294,756	324,232	356,655	413,571
Institutional/Govt	171,216	172,928	218,322	220,505	222,710	237,121
Industrial	0	0	0	0	0	0
Bulk/Wholesale	4,176	4,176	5,220	5,220	5,220	5,503

Commodity Charges (PhP)	D0000000000000000000000000000000000000	poisson			.00000000000000000000000000000000000000	
Residential	2,756,135	3,328,330	5,000,745	6,011,846	7,079,122	8,654,218
Commercial	650,742	993,245	1,385,772	1,546,636	2,341,648	2,686,336
Commercial A	110,675	71,631	100,464	112,700	126,403	149,424
Commercial B	290,520	231,095	323,736	362,753	406,409	479,910
Commercial C	54,815	170,574	240,005	270,078	303,832	360,220
Institutional/Gov't	447,865	778,952	832,163	1,129,029	1,338,539	1,664,353
Industrial	0	0	0	0	0	0
Bulk/Wholesale	19,620	19,620	24,525	24,525	24,525	25,853
TOTAL	4,330,372	5,593,447	7,907,409	9,457,566	11,620,478	14,020,315
TOTAL ANNUAL DEVENUES DED CUSTOMED CATEGODY (DLD)						
TOTAL ANNUAL REVENUES PER CUSTOMER CATEGORY (PhP)  Residential	7 460 407	0 240 647	11 470 272	12 000 542	14 206 472	16 560 111
Commercial	7,462,487	8,249,617	11,478,372	12,898,542	14,306,473	16,563,441
Commercial A	923,574	1,293,360	1,798,430	2,000,561	2,840,965	3,265,336
Commercial A	164,267 442,944	130,582 398,762	181,522 554,277	201,864 616,348	224,483 685,364	263,156 803,381
Commercial C		384,942	534,761	594,309	660,487	773,791
Institutional/Govt	619,081	951,881	1,050,485	1,349,534	1,561,249	1,901,474
Industrial	013,001	331,001	1,000,400	1,043,004	1,301,243	1,301,474
Bulk/Wholesale	23,796	23,796	29,745	29,745	29,745	31,356
Built Wildicould	20,100	20,700	20,1 40	20,170	20,170	01,000
From Specific Fees and Charges		651,000	840,270	1,022,880	903,935	787,995
Total Revenues (from Price Strategy)	9,885,844	12,083,939	16,467,861	18,713,783	21,212,701	24,389,931
Collection Efficiency Ratio (CE Ratio)	95%	95%	95%	95%	95%	95%
Adjusted (Collected)Total Revenues with the CE Ratio	9,391,552	11,479,742	15,644,468	17,778,094	20,152,066	23,170,434
Compared to:					×	
Total Revenue Needs (Annex 7)	15,528,347	12,801,942	18,282,010	20,513,263	23,577,313	
Annual Cash Flow Surplus (Deficit)	-6,136,795				-3,425,248	-2,262,916
Cash from Prior Year	2,555,247				-10,276,459	
Accumulative Cash Flow Surplus(Deficit)	-3,581,548	-4,903,749	-7,541,290	-10,276,459	-13,701,707	-15,964,622
Sewerage Calculation (%)	0%					
Percent Increase in Revenues		5.67%	5.37%	5.75%	4.49%	3.40%
from Specific Fees and Charges						

# **Annex 9 CASHFLOW**

WAO WATER DISTRICT						
CASH FLOW PROJECTIONS						
In '000 Pesos (As of December 31, 2016)						
	DAGED VEAD		P	ROJECTIONS	•	
GENERAL DATA	BASED YEAR —	CY +1	CY + 2	CY + 3	CY + 4	CY + 5
	2016	2017	2018	2019	2020	2021
Year-End Connections	3,810	3,996	4,218	4,492	4,729	4,933
Mid-Year Connections	3,810	3,903	4,107	4,355	4,610	4,831
Market Growth/Year	0	186	222	273	238	204
Service Area Population	46,467	47,081	47,702	48,332	48,970	49,616
% Served Population	59%	58%	60%	63%	61%	63%
Ave. Cons./Conn./Mo. (cu.m.)	17	18	19	20	22	23
Billed Water ('000 cu.m.)	785	872	974	1,098	1,227	1,362
% Non-Revenue Water	28%	20%	20%	20%	20%	20%
Production ('000 cu.m.)	1,091	1,090	1,218	1,373	1,534	1,703
Effective Water Rate/Cu.m.	12.59	14	17	17	17	18
% Rate Increase	0%	0%	25%	0%	0%	5%
Collection Efficiency	95%	95%	95%	95%	95%	95%
	9,886	12,084	16,468	18,714	21,213	24,390
CASH RECEIPTS						
Current Water Sales	9,392	11,480	15,644	17,778	20,152	23,170
Collection of Prev. Years' Arrears	2,532	477	478	645	737	836
Other Receipts	3,755	1,128	1,319	1,668	1,641	1,624
Loan Proceeds	-	-		-	-	-
Septage Income	-	-	-	-	-	-
Tipping Fee	-	-	-	-	-	-
TOTAL CASH RECEIPTS	15,678	13,085	17,441	20,091	22,530	25,630
CASH DISBURSEMENTS						
Operation & Maintenance (O&M)						
Salaries	2,070	2,868	3,632	5,019	5,769	6,076
Power for Pumping	117	144	177	218	268	321
Fuel for Pumping						
Outsourcing (Water)	-	-	-	-	-	-
Maintenance Expense	3,031	3,186	3,580	3,100	3,000	2,900
Chemicals	220	304	420	581	804	965
Fixed Other O & M	1,949	3,054	3,500	4,375	5,102	5,242
Variable Other O & M	2,036	1,885	2,300	2,919	3,195	3,626
	9,423	11,440	13,610	16,212	18,138	19,130
Debt Service						
LWUA Loan	418	418	418	418	418	418
Loans Outside LWUA	780	668	636	604	571	274
Total Debt Service	1,198	1,085	1,053	1,021	989	691

O & M Expenses (STP):						
Salaries	-	-	-	-	-	-
Power	-	-	-	-	-	-
Chemicals						
Desludging Cost	-	-	-	-	-	-
Maintenance Cost	-	-	-	-	-	-
Fuel Cost	-	-	-	-	-	
Amortization						
Total O & M for (Septage)	-	-	-	-	-	-
Capex	4,693	-	3,343	3,000	4,150	5,300
Capex (New SC)	0.00	0	ı	•	-	1
Capital Expenditures STP	-	-	-	-	-	•
Reserves	-	•	•	-	-	-
Franchise Tax	278	276	275	280	300	312
TOTAL CASH DISBURSEMENTS	15,592	12,802	18,282	20,513	23,577	25,433
CASH INFLOW (DEFICIT)	86	283	(841)	(422)	(1,047)	196
ADD: BEG. CASH BALANCE	2,555	2,641	2,923	2,083	1,660	613
ENDING CASH BALANCE	2,641	2,923	2,083	1,660	613	809
Reserves	188	230	313	356	403	463
CASH Net of Reserves	2,453	2,694	1,770	1,305	210	346
3 Months O & M Ceiling (for checking)	26, 202	28,931	31, 188	33,765	35, 765	37,887
Aggregate Reserves + Ending Cash	9,678	23,556	17,658	20,657	46, 179	69,783
WATER RATES:						
Minimum Charge (0-10 cu.m.)	116.00	116.00	145.00	145.00	145.00	152.85
11-20 cu.m. (P/cu.m.)	12.30	12.30	15.38	15.38	15.38	16.21
21-30 cu.m. (P/cu.m.)	13.20	13.20	16.50	16.50	16.50	17.39
31-40 UP cu.m. (P/cu.m.)	14.50	14.50	18.13	18.13	18.13	19.11
41-50 UP cu.m. (P/cu.m.)	14.50	14.50	18.13	18.13	18.13	19.11
51 UP cu.m. (P/cu.m.)	14.50	14.50	18.13	18.13	18.13	19.11

## **FINANCIAL ANALYSIS (2016)**

## Liquidity

Current Ratio = 
$$\frac{\text{Current Assets}}{\text{Current Liabilities}} = \frac{4,157,709.56}{453,807.87} = 9.16$$

This means that the district has the ability to pay off its current liabilities 9x without having to sell off its long term or revenue generating assets.

Quick Ratio = Total Current Asset – Inventory – Prepaid Expenses

Current Liabilities

= 4,157,709.56 – 694,856.86 – 0

453,807.87

= 3,462,852.70

453,807.87

= 7.63

The district is able to pay its obligations 7x without having to sell off any capital assets.

Times Interest earned Ratio =  $\frac{\text{Income before Interest and Taxes}}{\text{Interest Expense}} = \frac{3,520,294.40}{471,533.17} = 7.47$ 

The district makes enough income for its total interest expense 7x over.

## Solvency

Debt to Equity Ratio = 
$$\frac{\text{Total Liabilities}}{\text{Total Equity}} = \frac{5,515,922.70}{26,585,485.66} = 0.21$$

The district is financed 21% by the creditors and 79% by the government.

Equity Ratio = 
$$\frac{\text{Total Equity}}{\text{Total Assets}} = \frac{26,585,485.66}{32,101,408.36} = 0.83$$

The higher the equity ratio, the more favorable for the district.

It shows the potential shareholders that the district is worth investing since so many investors are willing to invest and shows potential creditors that the district is more sustainable and less risky to lend future loans.

Debt Ratio = 
$$\underline{\text{Total Liabilities}}$$
 =  $\underline{5,515,922.70}$  = 0.17  
Total Assets 32,101,408.36

Lower ratios are more favorable than higher ratios.

A lower ratio implies a more stable business with the potential of longevity because a district with lower ratio has lower overall debt.

# **Profitability**

Return on Equity Ratio =  $\frac{\text{Net Income}}{\text{Shareholder's Equity}} = \frac{4,269,951.03}{26,585,485.66} = 0.16$ 

This shows how efficient the district in using government funds to generate profit.

### Part VIII- WWD FUTURE PLANS

In addition to the current development of WWD using its ICG, the management is also looking into the expansion and rehabilitation of Wao Water System.

## 1. Proposed Expansion and Rehabilitation Projects:

- a. PHASE I Additional Transmission Line
- b. PHASE II Additional Transmission Line from JICA to Cebuano Group

#### **MAP**



At Phase 1, the additional 6'' Transmission line will be coming from Bungol Spring to JICA Reservoir with a total distance of 4.8Km. This project is expected to be completed within (5) months and (1) week.

On the other hand, the additional 4"Ø Transmission line from JICA to Cebuano Group at Phase 2 will follow a trail coming from JICA Reservoir to Palmes Farm to Cebuano Group with a total distance of 6.54Km. This project is expected to be completed within the same timeframe as Phase 1.

PROGRA	M OF WOR	KS					
WATER SYSTEM 1 ADDITIONAL TRANSMISSION LINE							
(P	HASE 1)						
	2019						
I. ENGINEERING BASIC COST ITEMS:							
I. TRANSMISSION LINE	Qty	Unit	Unit Cost	Total Amount			
a. Bungol to Jica							
1.) 160mm PVC PIPE Series 8 Class 150 W/ O-ring	800.00	length	5,472.50	4,378,000.00			
2.) Steel Bridge fo Pipe River Crossing	2	lot	117,500.00	235,000.00			
b. Equipment Purchase							
3.) Equipments	1	set	800,000.00	600,000.00			
4.) Water Meter Assembly Replacement	250	pcs	2,000.00	500,000.00			
Sub-Total				5,713,000.00			
6.) Fittings & Appurtenances 15%				856,950.00			
Total I				6,569,950.00			
II. LABOR AND CARPENTRY WORKS:							
7. Excavation & Restoration Cost	4,800.00	mtrs	80.00	384,000.00			
Total Cost II		-		384,000.00			
TOTAL PROJECT COST		6,953,950.00					
PROJECT SUPERVISION COST 3%	182,910.00						
DETAILED ENGINEERING DESIGN COST 6%	304,850.00						
GRAND TOTAL				7,441,710.00			

ADDITIONAL TRANSMISSION	I LINE FROI	M JICA TO (	EBUANO GROU	IP
	PHASE 2)			
	2019			
I. ENGINEERING BASIC COST ITEMS:				
1. JICA TO PALMES TO CEBUANO GROUP	Qty	Unit	Unit Cost	<b>Total Amount</b>
a.) 110mm PVC PIPE Series 8 Class 150 W/ O-ring	575	Length	2,575.00	1,480,625.00
b.) 90mm PVC PIPE Series 8 Class 150 W/ O-ring	515	Length	1,705.00	878,075.00
2.Rehabilitation and Re-alignment				
a.) Transmission line and Mainline	1	lot	3,242,084.00	3,242,084.00
Sub-Total				5,600,784.00
3. Water Meter Assembly Replacement	250	pcs	2,000.00	500,000.00
Sub-Total				6,100,784.00
4.)Fittings & Appurtenances 15%				915,117.60
Total I				7,015,901.60
II. LABOR AND CARPENTRY WORKS:				
5. Excavation and Backfill	6540	mtrs	80.00	523,200.00
Total Cost II				523,200.00
TOTAL PROJECT COST				7,539,101.60
PROJECT SUPERVISION COST 3% (MC+LC)				216,168.54
DETAILED ENGINEERING DESIGN COST 5% (MC+LC)				360,280.90
GRAND TOTAL				8,115,551.04

# c. PHASE III Spring Source Development and Proposed Water System 3

At Phase 3, the water sources such as the Bungol Spring, Villalon Spring and Bagaobao Spring will be developed. Development would include fencing, construction and reconstruction of the in-existing and existing catchment tanks, sump tanks and reservoir. Main pipe laying from Villalon Spring to Brgy. Katutungan with a distance of 2.52 Km. will also take place.

SPRING SOURCE DEVELOPMENT						
(PHASE 3)						
	2019					
I. ENGINEERING BASIC COST ITEMS:						
1. SPRING SOURCE DEVELOPMENT	Qty	Unit	Unit Cost	<b>Total Amount</b>		
a.) Bungol Source Development	1	Lot	359,950.00	359,950.00		
b.) Villalon Source Development	1	Lot	150,000.00	150,000.00		
c.) Bagaobao Source Development	1	Lot	100,000.00	100,000.00		
2. Villalon to Katutungan mainline						
d.) 160mm PVC PIPE Series 8 Class 150 W/ O-ring	420	length	5,472.50	2,298,450.00		
e.) 110mm PVC PIPE Series 8 Class 150 W/ O-ring	196	length	2,575.00	504,700.00		
f.) 90mm PVC PIPE Series 8 Class 150 W/ O-ring	1748	length	1,705.00	2,980,340.00		
g.) 63mm PVC PIPE Series 8 Class 150 W/ O-ring	650	length	835.00	542,750.00		
3.Concrete Reservoir	50	cu	25,000.00	1,250,000.00		
4. Water Meter Assembly Replacement	250	pcs	2,000.00	500,000.00		
Sub-Total				8,686,190.00		
5.)Fittings & Appurtenances 15%				1,302,928.50		
Total Cost I				9,989,118.50		
II. LABOR AND CARPENTRY WORKS:			-			
6.) Total Labor Cost	18,084.00	mtrs	90.00	1,627,560.00		
Total Cost II		1,627,560.00				
TOTAL PROJECT COST	11,616,678.50					
PROJECT SUPERVISION COST 3%	290,130.00					
DETAILED ENGINEERING DESIGN COST 6%				483,550.00		
GRAND TOTAL				12,390,358.50		

# d. PHASE IV Propose Water System 4 (kili kili water system)

PROPOSED V	NATER SYST	ΓΕΜ 4		
(P	HASE 4)			
	2019			
I. ENGINEERING BASIC COST ITEMS:				
I. TRANSMISSION LINE	Qty	Unit	Unit Cost	<b>Total Amount</b>
1. Sumogot to Kili-kili				
a.) 160mm PVC PIPE Series 8 Class 150 W/ O-ring	1050	length	5,472.50	5,746,125.00
b.) 110mm PVC PIPE Series 8 Class 150 W/ O-ring	150	length	2,575.00	386,250.00
c.) 90mm PVC PIPE Series 8 Class 150 W/ O-ring	164	length	1,705.00	279,620.00
d.) 63mm PVC PIPE Series 8 Class 150 W/ O-ring	800	length	835.00	668,000.00
Sub-Total				7,079,995.00
3. Sumogot Source Development	1	Lot	150,000.00	150,000.00
4.Concrete Reservoir	50	cu	25,000.00	1,250,000.00
5. Water Meter Assembly Replacement	250	pcs	2,000.00	500,000.00
Sub-Total				1,900,000.00
6.)Fittings & Appurtenances 15%				2,961,999.25
II. LABOR AND CARPENTRY WORKS:				
7. Excavation & Restoration Cost	12,984.00	mtrs	90.00	1,168,560.00
Total Cost II				1,168,560.00
TOTAL PROJECT COST				13,110,554.25
PROJECT SUPERVISSION COST 3%				393,316.63
DETAILED ENGINEERING DESIGN COST 5%				655,527.71
GRAND TOTAL				14,159,398.59

At Phase 4, Sumugot Spring will be developed from fencing of the spring to the construction of Catchment, Sump Tank and Reservoir. A 6" Ø Transmission line from Sumugot to Kilikili with a total distance of 6.3 Km. will also be installed.

## **PROJECTS TIMELINE**

						20	19					
Activities		1			2			3			4	
	Jan	- Feb	Mar	Apr		Jun	Jul		Sep	Oct	Nov	Dec
Phase I					,	-	-	0				
Water System 1 Additional 6" Transmiss	ion	Line										
Right of Way												
Sticking												
Pipe and materials' delivery to site area												
Steel bridge construction												
Excavation and pipe laying												
Back filling												
Flushing and turn-over of the project												
Phase II												
Additional Transmission Line from JICA	to C	ebua	no (	Grou	ıp							
Right of Way												
Sticking												
Pipe and materials' delivery to site area												
Excavation and pipe laying												
Back filling												
Flushing and turn-over of the project												
Phase III												
Spring Source Development and Propos	ed V	Vate	r Sy	sten	n 3							
Right of Way												
Sticking												
Materials' delivery to site area												
Reservoir Construction												
Source Development												
Excavation, Piping & Pipe Laying												
Back filling												
Flushing and turn-over of the project												
Phase IV												
Proposed Water System 4												
Right of Way												
Sticking												
Materials' delivery to site area												
Source Development												
Excavation, Piping & Pipe Laying												
Back filling												
Flushing and turn-over of the project												

In the past, Wao Water District has been making service contracts with various service contractors, namely: Eric Ligan, Benedick and Joel Hanoyan, Noel Polacas, Celso Erwela, Jesam Pacuyao, and Melvin Pesado. These people are the potential contractors for the upcoming projects.

Upon completion of the projects, is it estimated that 17% of the unserved population from Brgy. Amoyong, Katutungan, Cebuano Group, Kilikili East and West, and Milaya or a total of 564 concessionaires will avail of the water services by 2020 (this figure is on top of the projected concessionaires on Annex 3).

These plans would be possible if the district can avail of a loan from LWUA for a total of **Php42,107,018.13.** 

Supposing that this loan will be payable after (3) years from receipt of the proceeds for the next 25 years with an interest rate of 4% p.a., the district will be paying a monthly amortization of Php222,256.35 or an annual amortization of Php2,667,076.20.

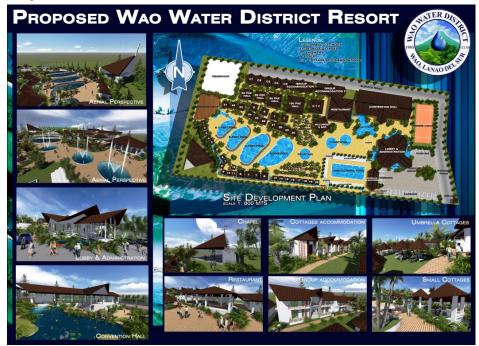
#### **AMORTIZATION SCHEDULE**

Year	Principal	Interest	Total Paid	Balance
2021	81,899.62	140,356.73	222,256.35	42,025,118.51
2022	1,004,351.82	1,662,724.38	2,667,076.20	41,020,766.69
2023	1,045,270.67	1,621,805.53	2,667,076.20	39,975,496.02
2024	1,087,856.60	1,579,219.60	2,667,076.20	38,887,639.42
2025	1,132,177.55	1,534,898.65	2,667,076.20	37,755,461.87
2026	1,178,304.23	1,488,771.97	2,667,076.20	36,577,157.64
2027	1,226,310.13	1,440,766.07	2,667,076.20	35,350,847.51
2028	1,276,271.92	1,390,804.28	2,667,076.20	34,074,575.59
2029	1,328,269.20	1,338,807.00	2,667,076.20	32,746,306.39
2030	1,382,384.95	1,284,691.25	2,667,076.20	31,363,921.44
2031	1,438,705.44	1,228,370.76	2,667,076.20	29,925,216.00
2032	1,497,320.50	1,169,755.70	2,667,076.20	28,427,895.50
2033	1,558,323.68	1,108,752.52	2,667,076.20	26,869,571.82
2034	1,621,812.18	1,045,264.02	2,667,076.20	25,247,759.64
2035	1,687,887.31	979,188.89	2,667,076.20	23,559,872.33
2036	1,756,654.44	910,421.76	2,667,076.20	21,803,217.89
2037	1,828,223.27	838,852.93	2,667,076.20	19,974,994.62
2038	1,902,707.88	764,368.32	2,667,076.20	18,072,286.74
2039	1,980,227.13	686,849.07	2,667,076.20	16,092,059.61
2040	2,060,904.64	606,171.56	2,667,076.20	14,031,154.97
2041	2,144,869.09	522,207.11	2,667,076.20	11,886,285.88
2042	2,232,254.36	434,821.84	2,667,076.20	9,654,031.52
2043	2,323,199.84	343,876.36	2,667,076.20	7,330,831.68
2044	2,417,850.61	249,225.59	2,667,076.20	4,912,981.07
2045	2,516,357.55	150,718.65	2,667,076.20	2,396,623.52
2046	2,396,623.52	48,198.34	2,444,821.86	-
Totals	42,107,018.13	24,569,888.88	66,676,907.01	

Based on the projected Cashflow by 2021, the district has a total cash ending (net of reserves) of Php345,569.25 which means that the district is capable of paying the 1<sup>st</sup> amortization of the loan for December 2021. On top of that, if the loan will be granted, the budget for

transmission line starting on 2018-2021 amounting to Php1,500,000.00 per year for a total of Php6,000,000.00 will be saved for future payment of the interest on 2022-2024. Plus, since the ROI for the proposed expansion and rehabilitation project already started on 2020, the district can surely save up for the monthly amortization of the loan for 2025 and so on.

## 2. Proposed Wao Water District Resort



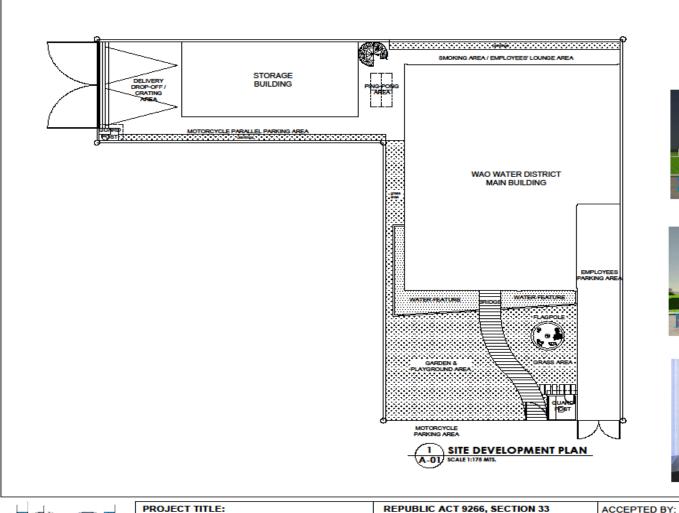
The WWD has budgeted Php500,000.00 on 2018 for the fencing of the 2 hectares land owned by the district located at Brgy. Manila Group which will be utilized for the proposed Wao Water District Resort.

Another Php500,000.00 each year from 2020-2021 was allocated for the development of this project.

The backhoe which was purchased as early as 2019 could be used in this project and other incoming projects.

## 3. Proposed Wao Water District Renovation and Extension of Office Building

The district has allocated Php500,000.00 per year from 2020-2021 for the development of this project.



REPUBLIC OF THE PHILIPPINE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

OFFICE OF THE BUILDING OFFICIAL

CITY OF CAGAYAN DE ORO MISAMIS ORIENTAL









PROJECT TITLE: PROPOSED WAO WATER DISTRICT RENOVATION AND EXTENSION

LOCATION: WAO LANAO DEL SUR

- SITE DEVELOPMENT PLAN - PERSPECTIVES

**REPUBLIC ACT 9266, SECTION 33** Drawings and Specifications and other contract documents duly signed, stamped or sealed, as instruments of service, are the intellectual property and documents of the Architect, whether the object for which they are made is executed or not. It shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects or buildings, whether executed partly or in whole, without the written consent of Architect or Author of said documents.

AS INDICATED SCALE: DATE STARTED: NOV. 09, 2016 DATE ISSUED: JUL. 20, 2016 DRAWN BY: RSA AR. RACHEL S. AKUT CHECKED BY:

DRAWING NO. A.01

PROJECT NO. 01-2016

#### Part IX- ACKNOWLEDGMENT

This 5 years Business Plan is made possible through the help of everyone especially the Board of Directors, the WWD personnel such as Ms. Floricel Puno, Ms. Mardy Grace Lanado, Ms. Lenilia Lanado, Mr. Julius Ceasar Molina, Ms. Noveline Marie Hibaya, Mr. Donn Glenard Pablico, Mr. Johannes Setier, Ms. Anie Rose Fabrigar and the last but not the least, GM Engr. Tomas C. Carumba Jr. for their undying support and enthusiasm in providing ideas.

The district would also like to thank GM Roger Pangan and MFWD staff for all of their inputs and ideas during the creation of this Business Plan;

To all the maintenance team who are responsible for securing the safety of all the concessionaires of WWD through clean and potable water and ensuring that the water services is enjoyed 24/7.

A heartfelt gratitude is also extended to the ever supportive (LWUA) Local Water Utilities Administration for always extending help in times of difficulties and questions, and extending guidance in the development of this 5 years business Plan.

And above all, the Wao Water District would like to thank God for His unconditional guidance and wisdom to make this 5 years Business Plan successful and operational.

To God be all the glory.

#### Part X- ABBREVIATION

CCC - Conditional Certificate of Conformance

CMU - Central Mindanao University

COS - Contract of Service

CWP - Conditional Water Permit ICG - Internal Cash Generation

JICA - Japan International Cooperation Agency
LWUA - Local Water Utilities Administration

NRW - Non-Revenue Water
PD - Presidential Decree
pH - Potential of Hydrogen

PhilGEPS - Philippine Government Electronic Procurement System

PNSDW - Philippine National Standards for Drinking Water

PO - Purchase Order
PR - Purchase Request
RFQ - Request for Quotation

SOP- - Standard Operating Procedure

SRS - Store Requisition Slip

WDC - Wao Development Corporation
WHO - World Health Organization

WSP - Water Safety Plan WWD - Wao Water District

#### Part XI- DEFINITION OF TERMS

Flush

Arsenic -a trivalent and pentavalent metalloid poisonous element that is

commonly metallic steel gray, crystalline, and brittle and is used

especially in wood preservatives, alloys and semi-conductors.

Booming -having a period of great prosperity or rapid economic growth.

Cadmium -a toxic bluish-white malleable ductile divalent metallic element used

especially in batteries, pigments, and protective plating.

Centigrade -another term for <u>Celsius</u>.

Chloride -a compound of chlorine with another element or group; especially: a

salt or ester of hydrochloric acid.

Chlorination -the process of adding chlorine (Cl. 2) or hypochlorite to water.

Contaminant -a polluting or poisonous substance that makes something impure.

-cleanse (something, especially a toilet) by causing large quantities of

water to pass through it.

Excavate -make (a hole or channel) by digging.

Hazard -a condition, event or circumstance that could lead to or contribute to

an unplanned or undesirable event.

Intrusion -the action of intruding.

Iron -a silver-white malleable ductile magnetic heavy metallic element that

readily rusts in moist air, occurs native in meteorites and combined in most igneous rocks, is the most used of metals, and is vital to biological

processes.

Lead -a flexible or solid insulated conductor connected to or leading out

from an electrical device (as an electroencephalograph).

Manganese -a grayish-white usually hard and brittle metallic element that

resembles iron but is not magnetic and is used especially in alloys,

batteries and plant fertilizers.

Nitrate -a salt or ester of nitric acid.

Pathogen -a bacterium, virus, or other microorganism that can cause disease.

Per Capita -for each person; in relation to people taken individually.

pH -a measure of acidity or alkalinity of water soluble substances.

Reservoir -a large natural or artificial lake used as a source of water supply.

Risk -a situation involving exposure to danger.

Sulfate -a salt or ester of sulfuric acid.

Turbidity -the cloudiness or haziness of a fluid caused by large numbers of

individual particles that are generally visible to the naked eye, similar to

smoke in the air.

### **Part XII- APPENDICES**

- A. Local Water Utilities Administration Circular No. 006-17 dated April 11, 2017
- B. Local Water Utilities Administration Circular No. 006-14 dated August 15, 2014
- C. Wao Water District Resolution No. 30, Series of 2017
- D. Business Planning Memoir



#### LOCAL WATER UTILITIES ADMINISTRATION

P.C. ROX 34, U.P. Post Office, Katipurran Avenue, Balana, Quezon City Tel No.: 920-5581 to 99; 920-56-01 Fax No: (632) 922-34-34 Administrator's Direct Line: (02) 929-61-07 LWUA Website: www.twua.gov.ph

April 11, 2017

MEMORANDUM CIRCULAR NO. 0 0 6 - 1 7.

TO : ALL WATER DISTRICTS

SUBJECT : 5-YEAR BUSINESS PLAN

Pursuant to LWUA's mandate for the promotion, development and financing of local water utilities, all water districts are hereby directed to submit their respective updated 5-year business plans by 31 May 2017.

The said plans shall serve as basis for assessment and prioritization of LWUA's investment and development programs for the sector as well as monitoring of water district performance.

For compliance,

JECI A. LAPUS Acting Administrator



LOCAL WATER U FIES ADMINISTRATION
P.O. BOX 34, U.P. Post Cifica, Kot puron Avenue, Balara, Quezon City
Tel No.: 920-5581 to 99; 920-56-01 Fax No: (632) 922-34-34
Administrator's Direct Line: (02) 929-61-07
LWUA Website: www.lwua.gov.ph

15 August 2014

# MEMORANDUM CIRCULAR NO. 006. 14

TO

All Water Districts

FROM

The Administrator, Local Water Utilities Administration

SUBJECT

GUIDELINES ON THE EVALUATION OF WD

RECATEGORIZATION

Consistent with the Revised Local Water District Manual on Categorization, Re-Categorization and Other Related Matters (LWD-MaCRO), the evaluation and approval of all requests of LWDs for upward categorization shall be subject to the following:

## I. Basic Requirements

1. Meeting the required number of points for the category

2. Must be current or up-to-date in servicing its debt service obligations

3. Upgrading will only be allowed once a year

II. Prognosis of Projected Operation for the next three years following the request for recategorization

Indicators	Benchmarks
Operating Ratio     (O & M plus Depreciation over Operating Revenues)	- Not More Than 0.75
Current Ratio     (Current Asset over Current Liabilities)	- Not Less Than 1.5
Debt Service Coverage     (Operating Income over Debt Service)	- Not Less Than 2
Reserve Fund in JSA     (Reserve over Gross Water Sales)	- Not Less Than 3%
5. Average Cash Position (Free Cash Balance over Ave. O & M per month)	- Net Less Than 2 mcs.

Indicators	Benchmarks
6. Non-Revenue Water % (Total Production less Billed Water over Total Production)	- Not More Than 20%
7. Staff Productivity Index (No. of Employees over No. of Service Connections)	- Not Less Than 1:120
8. Collection Efficiency (Collections for Current Year over Total Billings)	- Not Less Than 90%

## III. List of Requirements

- Board Resolution requesting for re-categorization. Year-End Financial Statements and MDS for the past 2 years immediately
- 3.
- preceding the request for re-categorization.

  Photocopy of the LWUA-WD Joint Savings Account.

  Projected Financial and Operating Condition for the next 3 years immediately following the request for re-categorization.

For your information and guidance.

ANDRES F. IBARRA Administrator



# Republic of the Philippines WAO WATER DISTRICT



Bgry. Western, Wao, Lanao del Sur Email add: waowaterd@yahoo.com Contact #: 09177053065

EXCERPTS FROM THE MINUTES OF THE REGULAR BOARD MEETING DATED JULY 18, 2017 HELD AT WAO WATER DISTRICT OFFICE.

#### Present:

- 1. ANGELITA L. YUTIG
- 2. PABLO P. PASCO, JR.
- 3. JOSEPHINE B. ATA
- 4. MARCELINA S. BALISTA
- 5. ROGELIO R. MUSICO
- 6. NOVELINE MARIE S. HIBAYA
- Chairperson
  - Vice-Chairperson
- Secretary
- Treasurer
- Auditor
  - Secretary to the Board

### **Resolution No. 30** Series of 2017

RESOLUTION ADOPTING THE MEMORANDUM CIRCULAR NO. 006-17 OF LOCAL WATER UTILITIES ADMINISTRATION (LWUA) IN MAKING A 5-YEAR BUSINESS PLAN

Whereas, pursuant to LWUA's mandate for the promotion, development and financing of local water utilities, all water districts are hereby directed to submit their respective updated 5-year business plan;

Whereas, the said plan shall serve as basis for assessment and prioritization of LWUA's investment and development programs for the sector as well as monitoring of water district performance;

Whereas, the Wao Water District plans to expand to those barangays not covered by the district's services and also to rehabilitate its existing water system, the district sees the need to make and submit its own 5-year business plan so that LWUA could support WWD in its future projects;

Wherefore, after thorough deliberation on the matter and by motion of Director Pablo P. Pasco, Jr. duly seconded by Director Rogelio R. Musico it was approved as it is hereby approved to pass a resolution adopting the memorandum circular no. 006-17 of Local Water Utilities Administration (LWUA) in making a 5-year business plan.

Unanimously approved this 18th day of July 2017.

ANGELITA L. YUTIG Chairman

Secretary

MARCELINA S. BALISTA Treasurer

ROGELIO R. MUSICO

Auditor

ice Chairman

P. PASCO JR.

# **Business Planning**





