### 6 資料

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6. 5. 3	第3次現地業務	2014年10月21日(火)@COWD	2014年10月22日	(水) @JICA

### 6.1 COWD Annual Report 2013 (抜粋)



### CAGAYAN DE ORO CITY WATER DISTRICT

Corrales Avenue, Cagayan de Oro City

### **ANNUAL REPORT**

### For the Period from JANUARY 1 to DECEMBER 31, 2013

### I. GENERAL

### A. ADMINISTRATIVE

	Attach approved organization charts in effect as of report year's end.  a. Functional Chart – showing unit board functions.	表-2.2.1 参照 <del>- Annex A -</del>
	<ul> <li>Position/Organizational Chart (key employees only) – showing permanent positions and incumbents</li> </ul>	図-2.2.1 参照 <del>- Annex B</del>
2.	Attach list of employed personnel with pertinent information.  (Annex C-List of Plantilla of Personnel for the Fiscal Year 2013)	省略 <del>- Annex C -</del>
	The following summarizes the District's staffing a. Total number of employees/laborers	430
	b. Number of permanent employees	300
	c. Number of casual/temporary employees/laborers	130
	<ul> <li>d. Number of employees meeting minimum qualifications per job description adopted by the District</li> </ul>	300
	<ul> <li>Number of employees not classified as casual/temporary who do not meet the minimum qualifications established by the District</li> </ul>	None
3.	Has the District adopted a policy prohibiting hiring of personnel related up to the <i>fourth degree</i> by affinity or consangularity? (Yes or No)	Yes, CSC Rules
	If not, how many of the employees are related to other employees or officials within the fourth degree by <i>affinity</i> or <i>consanguinity</i> ?	
4.	Has the District adopted rules and regulations regarding the following: (Yes or No)	Yes
	a. Personnel matters	Yes
	b. Utility customers relations	Yes
	c. General utility operations	Yes
	During the year, in how many instances (or how many times) have exemption to these rules and regulations has been in special cases?	None
5.	Attach list of policy – setting resolutions adopted, repealed or amended by the District Board including those adopting LWUA guidelines.  (Annex D—Summary of Policy-Setting Resolutions)	省略 <del>- Annex D</del>
6.	Has the District written and properly updated, reliable records of the following? (A field check may be undertaken, if necessary) Yes or No	
	a. Customer complaints	Yes
	b. Billing and collection	Yes
	c. Delinquencies in payment of water bills	Yes
	d. Meter histories	Yes
83	e. Service connections	Yes
	f. Equipment histories	Yes
	g. Equipment downtime	Yes
	h. Bacteriological tests	Yes
	i. System pressure	Yes
	j. Leak reports	Yes

		k. Unaccounted for water	Yes
		Pump efficiencies	Yes
		m. Water production	Yes
		n. Water consumption	Yes
		o. Valve and pipeline location	Yes
		p. General accounting	Yes
		q. Stock inventory	Yes
		r. Stores usage	Yes
		s. Employees record	Yes, 201 Files
		t. Minutes of the Board meetings	Yes
	7.	For this year, Auditing has been done by the Commission on Audit.	Yes
	8.	Attach list of reports being prepared regularly by the District on a monthly basis as required in the <i>Commercial Practice Manual</i> . (Omit this item if the District has not yet installed the commercial practices system in which case, indicate that the said system has not been installed yet.  (Annex E-List of Reports Prepared Regularly)	
B.	FINA	NCIAL/COMMERCIAL	
	1.	Attach the District's financial statements for the report year including a	一部省略
		comparison of the immediate past year. (See Annexes F, F-1 to F12	Annexes
		Financial Reports)	F-1 to F-12
	2.	For the year under report, the District's total budgetary outlay was	The state of the s
		broken down into: (Source: Approved Budget)	798,981,900.00
		a. Operating outlay (original budget)	536,945,693.00
		b. Capital Outlay (original budget)	116,854,267.00
		c. Special budgets, if any (additional budgets) – Contingency	1,500,000.00
		d. Debt Service	138,051,204.00
		e. Reserve	5,630,736.00
			3,030,730.00
	3.	For this same <i>one-year</i> period, the District's Gross Revenue was	2020120020
		broken down into: (Source: Financial Report)	709,283,166.19
		a. Collection from water sales	668,894,930.01
		b. Other water revenues	35,901,558.28
		c. Other non-operating income	4,486,677.90
		d. Proceeds of LWUA loan to finance new service connections	None
	4.	For this same <i>one-year</i> period, the District's expenditure was broken down into: (Source: Financial Report)	P 1,083,205,374.38
		<ul> <li>a. Operational (operation &amp; maintenance expenses, including Depreciation of 69,137,043.07)</li> </ul>	564,705,782.55
		b. Capital Outlay	15,123,167.92
		c. Annual debt servicing (Annex G-Summary of Loan Payments-LWUA and DBP)	503,376,423.91
	5.	For this same <i>one-year</i> period, the total salaries, wages & other emoluments paid for the District's employees were broken down into:	P 101,414,300.41
		a. For permanent employees	80,315,619.53
		b. For casual/temporary	21,098,680.88
	6.	Expenses for power/fuel for pumping during the year (Acct. #726, if Commercial Practices Accts. are in effect):	P 100,086,559.61

b. Old Accounts  8. Total amount <i>collected</i> ( <i>water sales</i> only during the year) was broken down into: (FOH)  a. Current billings  b. Old Accounts-Arrears  9. Total amount <i>uncollected</i> (delinquent) at year's end <i>excluding</i> Bad Debts. (Source: COWD Year-End Water Sales Report)  165,987,	246.65
broken down into: (FOH)  a. Current billings  b. Old Accounts-Arrears  9. Total amount <i>uncollected</i> (delinquent) at year's end <i>excluding</i> Bad Debts. (Source: COWD Year-End Water Sales Report)  693,960, 385,837, 308,122,	7778 8388
b. Old Accounts-Arrears  308,122,  9. Total amount <i>uncollected</i> (delinquent) at year's end <i>excluding</i> Bad Debts. (Source: COWD Year-End Water Sales Report)  165,987,	035.39
9. Total amount <i>uncollected</i> (delinquent) at year's end <i>excluding</i> Bad Debts. (Source: COWD Year-End Water Sales Report) 165,987,	
Bad Debts. (Source: COWD Year-End Water Sales Report) 165,987,	374.71
11 001	437.12
10. Total reserves at year's end. (LBP-Gen. Reserve & DBP-Reserve Fund) 11,081,	104.04
11. Complaints filed, processed and settled during the year	NOVEL AND AND AND
a. Total number filed, processed and settled during the year 22,08	9
b. Number dismissed for lack of merit/withdrawn	
c. Number investigated 22,08	9
d. Number settled to the satisfaction of complaints 16,94	4
e. Number elevated to the district Board None	•
f. Number settled by the Board None	3
g. Number elevated to the higher authorities None	3
12. At year's end, the following water rate charges were in force: 表-2.2.9~ Annex H-Water Rates Schedule) 表-2.2.9~	
Had these rates been submitted to LWUA for review? (Yes or No)  Yes	

13. Every water district would want to know what its water users think of their water system and the quality of their services in order that it could do what is best to insure maximum satisfaction for its customers. During the year, the district conducted a random survey covering 300 water users (not less than 40), and herewith is the result of such survey:

- D 35076 H - 10 H - 10 H - 10 H	NO. OF CUSTOMERS REPLYING		
YES	NO		
209	91		
206	94		
231	69		
231	69		
231	69		
	YES 209 206 231 231		

### N = 300

### C. TECHNICAL

 Has the district adopted by Board resolutions, a set of design and construction standard? (Yes or No)
 If so, who prepared it?
 Is it being adhered to strictly?

Does the district undertake bacteriological test of its water? Yes or No) How often are these tests made per year?				
Is LWUA being furnished copies of these test reports? (Yes or No)				
For the report year, how many such reports were submitted to LWUA?				

3. State the method of water treatment employed by the district, if any

	Yes
10.000	LWUA & COWD
	Yes
	Yes
(1) (1) (1)	Monthly
	Yes
-	12
-	Disinfection & Chlorination

			10
		How many of these pumps does the district have in its system?	28
		How many of these pumps are operational?	26
		Attach list of pumps now in operation. (Annex I—Pump in Operation: Efficiency Test)	省略 <del>-Annex I</del>
			120
D.	OPE	RATIONAL	16 18
			W. Carlotte
	1.	Total water production during the year in cubic meters.  Annex J—Summary of Water Production and Consumption)	57,156,233
(4)		Total water billed in cubic meters	25,362,677
		Average per capita consumption in lpd	122 lpd
	2.	Attach list of COWD Water Sources (Annex K-COWD Water	
		Sources)	Annex K
	3.	Is the District provided with measuring devices to measure	*******
		their water production? (Yes or No)	Yes
		If yes, what type? <u>Orifice plate, meter propeller type and</u> <u>Venturi type &amp; flow meters</u>	Orifice plate & electromagnetic flow meter
		If <i>not</i> , how do you measure productions?	- now meet
	4.	As of year's end, the district has the following existing service connection and related information. ( <b>Annex L</b> —Service Connection Growth)	Annex L
		a. Total number of existing connections (Active & Inactive Conrn.)	116,188
		b. Number of active connections	83,016
8		c. Number of metered connections	83,016
		1. With functioning meters	83,016
		2. With non-functioning meters	
33		d. Numbers of <i>flat</i> rate connections	None
		e. Number of connections (customers) regularly billed	83,016
		<ul> <li>Number of delinquent customers (Annex Q- Aging of Accounts Receivable—Active Connections as of</li> </ul>	
	3	December 31, 2013)	36,008
	ii.	Average number of customers per connection (HH)	7
	5.	Estimated population of district service area	710,020
		Estimated population served by utility whether fully or partially	581,112
	6.	Because of inadequate facilities, the <i>district</i> had to provide partial service in accordance with the following average length of time each 24-hours day:	No. of Connections
	(41)	a. Less than 6 hours service	None
		b. 7-12 hours service	None
		c. 13-18 hours service	None
		d. 19-24 hours service	83,016
		(Note: You may vary the number of hours as may be necessary to suit actual conditions)	
	7.	Attach list of all major equipment and machinery (with an initial cost of at least P10, 000.00 including pertinent information.	
		(Annex M-List of Major Equipments)	Annex M

8.	Does the District keep written record of requests for service? (Yes or No)	Yes
	a.Does the record show the date when such requests were made and the nature of the service requested? (Yes or No)	Yes
	b. On the average, how long (in days) does it take the District to respond and attend to such requests?	1 to 4 days
	c. How many such reports were received during the year?	22,089
	d. How many these reports were attended to during the year?	16,944

Submitted by:

RACHEL M. BEJA General Manager



### CAGAYAN DE ORO CITY WATER DISTRICT

Location: Corrales Avenue, Cagayan de Oro City

### II. PROFILE

#### 1.) THE WATER DISTRICT & ITS PHYSICAL SYSTEM'S FACILITIES A. ORGANIZATION Age (months) as of 12/31/12 473 1. Date Formed: August 1, 1973 2. Date CCC Issued: CCC No. January 4, 1974 001 3. Date Advisory Service Started: 1975 430 4. Personnel: (include 127 casual employees) Adequate & Comments: (Adequacy, qualification, performance & others) qualified **B. EXISTING SYSTEM'S FACILITIES** 1. Service: 1.1 Service Area: 48,885.83 Person/Ha. 10 1.2 Population of service area 581,112 83,016 1.3 No. of Households (1.2/1.4) 7 1.4 No. of Persons/Households 1.5 Service Time (hrs./day) 24 hours/day 2. Structure and Equipment: 2.1 Administration Building Office Area 2,052 sq. meters Annex M (Annex M-List of Major Equipments) Office Equipment: N/A 2.2 If rented, how much per month? Surface Water, 2.3 Type of water source Spring & Deep Wells Rated Capacity per day (cu.m./day) 176,342.67

### 2.4 Reservoir (description, built, dimension and capacity)

2 units	5,303	cu.m.	Each concrete reservoir @Carmen & Camaman-an
1 unit	95	cu.m.	Each steel tank reservoir @ Aluba Subdivision
1 unit	170	cu.m.	Elevated concrete reservoir @ Gaston Park, Poblacion (non-operational)
1 unit	443	cu.m.	Concrete reservoir @ Bantiles, Bugo (non-operational)
1 unit	2,900	cu.m.	Concrete reservoir @ Bulua
1 unit	2,100	cu.m.	Concrete reservoir @ Tablon
1 unit	4,000	cu.m.	Concrete reservoir @ Puerto Heights
	- income		

### 2.5 Water Sources (Annex K-COWD Water Sources)

Booster Pumps (16)	Discharg Dec. 31	Actual, YTD	
	(lps)	(gpm)	(in cu.m.)
a. Deep Well Source (26)	1,460	23,135	-
b. Spring Source (1)	2	30	-
Total Wells & Spring	1,462	23,165	42,375,733
Booster Pumps (16)	659	10,499	-
BWSP ( 1 Bulk Water)		-	14,780,500

### 2.6 Transmission Piping System maintained (size, make. length) (Annex N-Summary of Pipelines)

Annex N

Size	ė	Make	ke Maintained U		Size	9	Make	Maintained	Unit
50mm	2″9	uPVC	13,159	lm	150mm	6″B	Steel	28,503	lm.
50mm	2″I	GI	499	lm	150mm	6″I	ACP	2,280	lm.
50mm	2″Ø	BI	405	lm	150mm	6″Я	CCI	998	lm.
50mm	2"1	PE	65,622	lm	150mm	6″II	CI/BI	198	lm.
63mm	2.5″	PE	3,055	lm •	200mm	8″Ø	uPVC	23,224	lm.
63mm	2.5″ Ø	GI	660	lm •	200mm	8″Ø	Steel	4,760	lm.
75mm	3″∅	uPVC	58,188	lm	200mm	8"0	CCI	2,322	lm,
75mm	3″፱	ACP	5,422	lm	200mm	8"8	BI	20	lm.
75mm	3″Ø	GI	96	lm	250mm	10°T	Steel	10,842	lm.
75mm	3″∄	CI	120	lm	250mm	10″B	uPVC	3,747	lm.
100mm	4"8	uPVC	108,273	lm	300mm	12″⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄⁄	Steel	62.906	lm.
100mm	4"0	Steel	5,072	lm	350mm	14"0	Steel	2,531	lm.
100mm	4"8	ACP	6,048	lm	400mm	16″	Steel	29,586	lm.
100mm	4″Ø	CCI	320	lm	500mm	20″	Steel	5,687	lm.
100mm	4"B	GI	75	lm	600mm	24″	Steel	14,960	lm.
100mm	4"]]	CI/BI	363	lm	800mm	30″Ø	Steel	2,638	im.
150mm	6″I	uPVC	81,239	lm		, t-s	40	and an analysis of the second	
				*	Total Mai	ntained		543,817	-

### 2.7 Service Connections:

Туре	Flat	Metered	Total
Domestic/Government	N/A	77,205	75,782
Commercial/Industrial	N/A	5,811	5,811
Wholesale/Bulk	N/A	N/A	N/A
TOTAL	N/A	83,016	83,016

### 2.8 Production:

Average	Monthly	Product	ion (	cu.m.)
13				

 a. Booster/Pumping Stations (cu.m.)
 3,531,311

 b. Bulk Water Supply (cu.m.)
 1,231,708

Production Efficiency % (average/month) 89.05%

Unaccounted for Water-NRW% (average/mo.) 54.03%

### 2.) CURRENT OPERATION/FINANCIAL HIGHLIGHTS:

(Total Water Utilized)/(Total Production)

A. Existing Water Rates: (Annex H–Water Rates Schedule) 表-2.2.9~10参照
——Annex H—

B. Operating Income/Expense:

 Average Water Sales (average/mo.)
 P 57,904,853.32

 Average Collection (average/mo.)
 P 58,563,760.82

Average Expenses-O & M for the year (average/mo.) P 1,297,394.96

C. Financial Highlights (rate & status)

Current Ratio = Current Assets 3.14 : 1.00

Current Liabilities

 Long Term Debt/Equity Ratio
 0.62:0.38

 Monthly Billing (average/mo.)
 P 55,659,353.88

Collection Efficiency—% of On-Time Payment (YTD)

### 3.) COMMUNITY ECONOMIC PROFILE:

A. Total Population (covered by the Water District)

710,020

75.15%

B. Income Levels in the area: (based on Reg. 10-NSO data 2009)

Northern Mindanao	No. of	Income		Expenditure		
Not them Militariao	Families (thousand)	Total (million)	Average (thousand)	Total (millions)	Average (thousand)	
All Income Class	839	138,259	165	16,690	139.08	
Under 40,000	71	2,128	30	2,324	32.28	
40,000- 59,999	123	6,181	. 50	6,376	51.42	
60,000- 99,999	229	17,868	78	17,516	76.82	
100,000-249,999	274	41,810	151	37,984	137.62	
250,00 0 and Over	143	70,271	485	52,490	362.00	

#### Salary & Wages C. Major Source of Income D. Average Monthly Bills: (per customer) 1. Water bill: 81.87 2. Electric bill: (per customer in pesos) a. Residential 1,312.00 8,050.00 b. Commercial c. Industrial 305,341.00 d. Bulk Power 9,306,100.00 e. Streetlights 32,892.00

E. Wages Paid (per month) to:		
1. Common Laborer	p	8,272.00
2. Carpenter		10,401.00
3. Truck Driver		11,181.00
4. Plumber		11,181.00
F. City/Municipal Revenue (P2.212,640,226.11 in 2013), per person	p	3,116.31
G. Average rate of mortality per 100,000 population due to waterborne diseases (e.g. diarrhea) based from 2012 data		1.71
H. Average rate of morbidity per 100,000 population due to waterborne diseases (e.g. diarrhea)		59.04
I. Major Agricultural, Industrial and Commercial activities: Rice, corn, vegetables, mango, food processing, HB concrete products, ceramics, furniture, cottage industries	:lay pro	oducts,

### 4.) OTHER INFORMATION:

- The District has been paying the Rio Verde Water Consolidated Consortium Inc.
  (RVWCI) for 40,000 cubic meters of bulk water a day with a constant flow rate of
  1,667 cubic meters per hour and a minimum pressure of 20 psi at the
  designated take-off point located at the intersection of Airport Road and South Diversion
  Road, Cagayan de Oro City.
- The District has served 562,056 linear meters of pipelines ranging from 50mm9 to 800mm9 and maintained around 543,817 linear meters of pipelines with the balance still not turned-over by some subdivision developers/owners. (Annex N-Summary of Pipelines 2013)
- The District has implemented the Meter Clustering System to help alleviate water pilferage.
- 4. The District has installed **eleven** (11) **GSM monitoring device**, six (6) in the *Eastern* area and one (5) in the *Western* area.
- The District has regularly monitored the Residual Chlorine in various strategic points of its water supply system. (Annex O-Summary of Bacteriological Analysis 2013)
- The District has maintained its established safety programs and standard operating procedure.
- 7. The COWD has continued extending technical and financial assistance to its neighboring water districts. Also, the District has continued extending free technical assistance and services to subdivisions and rural barangays.
- The District has continued implementing the 50% discount for water bill of Accredited Senior Citizens Center and Accredited Residential/Group Homes and the 5% discount for water bill of Senior Citizens.

 The District has a new set of Board of Directors for 2013–2014 as follows: (B.R. No. 001, s-2013 dated January 04, 2013).

Chairman

MR. RUBEN A. VEGAFRIA

**Vice Chairman** 

MR. SOC ANTHONY M. DEL ROSARIO ATTY. EMMANUEL A. GAABUCAYAN

Secretary Members : ATTY. EMMANUEL A. GAABUCA' : MR. SANDY R. BASS JR.

: MR. JOEL A. BALDELOVAR

- 10. The District has revised the framework for the re-categorization of the Cagayan de Oro City Water District in consonance with its structure as Category "A" by the Local Water Utilities Administration (LWUA) amending Resolution No. 038, s-2013 dated April 18, 2013. (B.R. No. 67, s-2013 dated August 1, 2013).
- 11. The District has approved the 2013 Budget and Plantilla of Personnel of the Cagayan de Oro City Water District for calendar year 2013 with a total Utility Operating Expense and Revenue of Seven Hundred Ninety Eight Million Nine Hundred Eighty-One Thousand and Nine Hundred Pesos (P798,981,900.00) (B.R. No. 14, s-2013 dated March 07, 2013).
- 12. The District has managed well its **Provident Fund (PF)** and has benefited many qualified personnel through its *Salary* Loan, *Educational* Loan, *Emergency* Loan, *All-Purpose* Loan, *Small* Loan and other types of loans with an interest (8%) and service charge of 1% (PF Board Res. No. 85, s-2012).

Type of	Year						
PROVIDENT FUND LOANS	2013	2012	2011	2010	2009		
All-Purpose Loan	219	200	232	194	196		
Dividend Loan	165	153	166	367	214		
Educational Loan				-	-		
Emergency/Hospitalization Loan	77	63	53	28	33		
Employee's Cont. Loan	12	146	5	4	187		
Salary Loan	71	68	76	33	36		
Small Loan (Consol)	744	678	684	739	495		
Special Aid/Small Loan	579	424	516	355	339		
Water Bill Loan	42	50	21	80	-		
Memorial	-	-	1	-	-		
Special Legal Aid	-	2	1	<u> </u>	<b>2</b> 1		
Calamity Loan		167	42	-	-		
TOTAL	1,909	1,949	1,797	1,800	1,500		

Note: The **total assets** of PF as of 2013 - P 116,911,408.99

- 13. The District has approved the Annual Gender and Development Plan and Budget for Calendar Year 2013 of Thirty Nine Million Six Hundred Sixty Five Thousand One Hundred One Hundred Seventeen Pesos (P39,665,117.00) in compliance with Republic Act 9710 (B.R. No. 39, s-2013 dated April 18, 2013).
- 14. The District has renewed the Collective Negotiation Agreement of the First Labor Organization of the Cagayan de Oro City Water District (FLOW). (B.R. No. 94, s-2013 dated November 11, 2013).
- 15. The District has adopted the Strategic Performance Management System (SPMS) of the Cagayan de Oro City Water District for submission and approval by the Civil Service Commission (CSC). (B.R. No. 66, s-2013 dated August 1, 2013).

- 16. The District has appropriated enough funds to support its **Public Relations Program** and has extensively used the *print* and *broadcast media* for disseminating information on drives, projects and emergencies. The District has also continued its *information drive* and *seminars* for its would-be concessionaires.
- 17. The District has religiously paid the *principal* and *interest* of its Comprehensive Loan to LWUA, and has financed new *service connections*, new *pipeline extensions* and other construction of the *system's facilities* as part of its capital improvement.
- 18. The District has authorized the General Manager, Rachel M. Beja, to negotiate and enter into agreement and sign loan documents with the **Development Bank of the Philippines** (DBP) under the terms and conditions to **refinance outstanding loans with LWUA** amounted to **P376,375,905.00** (B.R. No. 007, s-2013 dated February 04, 2013).
- 19. The District has approved the Merchant Agreement between Development Bank of the Philippines (DBP) and Cagayan de Oro City Water District (COWD) for the provision of its banking services with installation of Point-Of-Sale (POS) Terminals and Internet Payment Gateway (IPG) (B.R. No. 49, s-2013 dated May 15, 2013).
- 20. The District has adopted the **Unsolicited Joint Venture** as the mode of contracting partnership for our proposed **Non-Revenue Water** (NRW) **Management Project** (B.R. No. 32, s-2013 dated April 2, 2013).
- 21. The District has authorized the General Manager, Rachel M. Beja to sign the amendments in the Memorandum of Understanding between Japan International Cooperation Agency (JICA) and the Government of the Republic of the Philippines on "The Rehabilitation Project for Cagayan de Oro City Water District's Facilities Damaged by Typhoon Sendong" for and in behalf of COWD. (B.R. No. 51, s-2013 dated May 15, 2013).
- 22. The District has approved to install Water Supply System at Villa Flora Subdivision in Cugman, this city, with estimated project cost of P1,683,597.00 charged to the P6 Million Fund. Provided that the lot acquisition for sump and reservoir location and the donation of the same to COWD shall be executed by Villa Flora Subdivision or the City Government of Cagayan de Oro prior to the implementation of the project. (B.R. No. 23, s-2013 dated March 18, 2013).
- 23. The District has approved the following **Memorandum of Understanding** (MOU) and authorized General Manager Rachel M. Beja to sign the said MOU for and in behalf of COWD, as follows:

Agreed Party	Particulars	Board Res. No./Date
Mr. Noel A. Tan, Vice President for Operations, Liberty Land Corporation	Proposed water supply system at Phase 4 & 5, Bloomingdale Subd., Bulao, Iponan	B.R. No. 11, s-2013 dated Feb. 11, 2013
Mr. Noel A. Tan, Vice President for Operations, Liberty Land Corporation	Proposed water supply system at Phase 1,2,& 3, Bloomingdale Subd., Bulao, Iponan	B.R. No. 27, s-2013 dated Mar. 18, 2013

Agreed Party	Particulars	Board Res. No./Date
Mr. Frederick D. Go, President & COO, Robinsons Land Corporation	Proposed turn-over of water supply system at Richmond Hills Subd., Camaman-an	B.R. No. 72, s-2013 dated Aug. 12, 2013
Phoenix Philippines Foundation (PPF)	Phoenix Philippines Foundation (PPF)	B.R. No. 95, s-2013 dated Nov. 11, 2013

Source: Summary of Policy Setting Resolutions 2013.

- 24. The District has accepted the **Deed of Absolute Donation** between **Liberty Land Corporation** represented by its Vice—President for Operations, Mr. Noel A. Tan and COWD for the proposed Water Supply System at **Phase 1, 2, 4 & 5** of **Bloomingdale Subdivision** located at Bulao, Iponan, Cagayan de Oro City. (B.R. No. 28, s-2013 dated March 18, 2013).
- 25. The District has approved the Memorandum of Agreement, Memorandum of Understanding and the Deed of Absolute Donation of Water Supply System with Johndorf Development Corporation represented by its President, Mr. Richard D. Lim, and to authorize General Manager, Engr. Rachel M. Beja to sign the same for and in behalf of COWD. (B.R. No. 43, s-2013 dated April 18, 2013).
- 26. The District has approved the following Memorandum of Agreement (MOA) and authorized General Manager Rachel M. Beja to sign the said MOA for and in behalf of COWD, as follows:

Agreed Party	Particulars	Board Res. No./Date
Sabal Hospital, Inc.	Services and facilities of work  -related injuries	B.R. No. 26, s-2013 dated Mar. 18, 2013
San Vicente Village	Revised water supply connection at Purok 3, Casinglot, Tagoloan	B.R. No. 42, s-2013 dated Apr. 18, 2013
Dr. Alfonso C. de Fierro, Jr., Provicial Head, Gawad Kalinga Development Foundation, Inc.	Gawad Kalinga Development Foundation, Inc	B.R. No. 71, s-2013 dated Aug. 12, 2013
Jaime Joshua A. Frias II, Chairman, Barangay 23	Pipeline extension with one (1) meter stub-out at Zone 5, Barangay 23	B.R. No. 77, s-2013 dated Sept. 4, 2013
Hazel G. Padero, Acting Branch Manager, Development Bank of the Philippines (DBP) - Capistrano Branch	Deposit pick-up arrangement at Macasandig Office	B.R. No. 81, s-2013 dated Sept. 13, 2013
Atty. Chito M. Cruz, Acting General Manager, National Housing Authority (NHA)	Development of water source with Overhead Steel Tank at NHA-CDO Bayanihan Village Phase I	B.R. No. 100, s-2013 dated Dec. 9, 2013

Agreed Party	Particulars	Board Res. No./Date B.R. No. 108, s-2013 dated Dec. 18, 2013		
Japan International Cooperation Agency (JICA)	Special Assistance for Project Sustainability (SAPS) for Provincial Cities Water Supply Project Phase III			
Mr. Victor S. Uy	Cinderella Homes Subdivision	B.R. No. 109, s-2013 dated Dec. 18, 2013		
Mr. Lino B. Rabanes	Just compensation of pipe right-of-way subject to agreed terms and conditions of both parties	B.R. No. 111, s- 2013, dated Dec. 18, 2013		

Source: Summary of Policy - Setting Resolutions 2013.

Prepared by:

VIRGINIA J. DIAZ Senior Research Analyst A

Checked by:

SULDIE D. LARANJO Manager, Corp. Planning Division Recommending Approval:

ELVA A. UBAY-UBAY

Manager, Mgmt. Services Dept.

Approved by:

RACHEL M. BEJA General Manager

### FINANCIAL REPORT

December 31, 2013

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PREPARED BY:

MERIAM C. AMPER
Division Manager C-Accounting Division

CHECKED BY:

ADELIA L. FLORES

Division Manager C-Budget Division

APPROVED BY:

ELVA A UBAY-UBAY Finance Manager

ENGR. FACHEL M. BEJA General Manager フィリピン国「地方都市水道整備事業(皿)(カガヤン・デ・オロ水道区)」に係る援助効果促進調査 業務報告書

### CAGAYAN DE ORO CITY WATER DISTRICT FINANCIAL AND OPERATING HIGHLIGHTS (For the Month Period Ended December 31, 2013)

	CURRENT MONTH			YEAR TO DATE			
	ACTUAL	BUDGET	OVER (UNDER) BUDGET	ACTUAL	BUDGET	OVER (UNDER) BUDGET	
FINANCIAL OPERATING HIGHLIGHTS			7. T.				
FINANCIAL OF ENATING HIGHERSTO		73,250,935	(10.254,526.10)	704,796,488.29	795,933,900	(91,137,411.71)	
Operating Revenues	62,996,408.90		(9,056,343.74)	584,705,782.55	610,387,726	45,691,943,45	
Operating Expenses	59,906,159.74	50,849,816	(19,310,869,84)	140,090,705.74	185,536,174	(45,445,468.26)	
Utility Operating Income	3,090,249.16	22,401,119	2,206,422.85	(81,103,124.04)	(94,937,301)	13,834,176,96	
Net Other Income/(Deductions)	(5,550,419.15)	(7,756,842)	(17,104,446.99)	58,987,581.70	80,598,873	(31,611,291,30)	
Net Income/(Loss)	(2,460,169.99)	14,644,277	(17,104,440,33)	00,001,001.14		1915 SERVICE SERVICE	
Amount per cubic meter blied:				40.22	†3	(0,97)	
AND THE RESERVE OF THE PROPERTY OF THE PROPERT	12.49	15	2.20	12.33	10	0,32	
Operating Revenues	11.88	10	(1.68)	9,88		(0.65)	
Operating Expenses	0.61	4	(3.88)	2.45	3.		
Utility Operating Income	(0.49)	2.94	(3.42)	1.03	1.51	(0.48)	
Net Income/(Loss)	(0,70)	F15.30	, A				
	(9.548,420,21)	10,382,211	(19,930,631.21)	(33,980,425.87)	7,008,454	(40,988,879.87)	
Net Cash Increase (Decrease).	(69,626,698,52)	11,010,756	(80,637,454.52)	69,677,351.62	48,998,577	22,680,774.62	
Net Funds inflow (Outflow)	8,203,822.30	9,553,658	1,349,835,70	101,414,300,41	114,643,896	13,229,595.59	
Debits to Payroll Clearing Account	8,203,022.30	0,000,000					
FINANCIAL CONDITION		8					
THE STATE CONTENTION	(45,877,549.96)	9,737,852.00	55,615,401.96	6,696,576.68	116,854,268	110,157,691.32	
Gross Plant Additions	(00.011,010)	0,101,002.00			/4/ Ti		
Gross Plant Retirements		6.38	1,151,030,083,49	1,151,030,083,49		1,151,030,083.49	
Total Utility Plant (Net of Depreciation)	1,151,030,083.49	55 <b>7</b> 0	(807,743,068.47)	(807.743,068.47)	·	(807,743,068.47)	
Accumulated Depreciation	(807,743,068,47)	-	102,458,871.82	102,458,871,82		102,458,871.82	
Paid-in Capital	102,458,871.82	f	465,724,011,12	465,724,011.12		465,724,011.12	
Retained Earnings - Unappropriated	465,724,011.12		144,094.00	144,094.00		144,094.00	
- Appropriated	. 144,094.00.	. •		28.265,234.04	(a)	28,265,234,04	
of A	28,265,234.04	*	28,265,234.04		•	596,592,210,98	
Appraisal Capital	596,592,210.98	•	596,592,210.98	596,592,210.98		777,871,393.98	
Total Capital	777,871,393.98		777,871,393.98	777,871,393,98	•	171,011,095,00	
Long Term Debt .	900000000000000000000000000000000000000	45.7			1920/1220	2.00	
Periodical Long Term Debt Requirements (Principal & Interest):	38,381,00	38,381	-	460,572.00	460,572	0.00	
Due next month of Phase II-A Project-Production Wells	460,572.00	460,572	1840	460,572.00	460,572	0.00	
Due within next 12 months of Phase II-A Project-Production Wells	1,031,067.00	1,031,067	-	11,732,359.00	12,372,804	0.00	
Due next month of Phase II-B Schedule A. B & C Projects	12,372,804.00	12,372,804	4	12,372,804.00	12,372,804	0.00	
Due within next 12 months of Phase 8-8 Schedule A, S & C Projects		242,597		13,550,874.00	13,550,874	0.00	
Due next month of Phese III Project (620.12888)	242,597.00			2,911,164.00	2,911,184	0,00	
Due within next 12 morths of Phase # Project (620.129M)	2,911,164.00	2,911,164	490,843.25	93,689,301.87	96,603,696	490,843,25	
Due next month of DBP Refinanced Loan	9,414,849.75	9,905,693	480,043.23	65,713,615.00	65,713,815	0.00	
Due within next 12 months of DBP Refinanced Loan	65,713,615.00	65,713,615	****	11,717,580.00	11,717,580	0.00	
Due next month of LIVUA 200M loan - Lateral Project	0.00	0	<del>=</del>	0.00	0	0.00	
Due within max 12 months of LWUA 200M toan - Lateral Project	0.00	0	<b>3</b>	987.864.00	987,804	0.00	
Due water uses at the second section of the	82,317.00	82,317	-		987,804	0.00	
Due next month of LWUA-SMHRSDYDLIngsVIe	967,804.00	987,804		987,804.00	301,004	67.58	
Due within next 12 months of LWAIA-SMHRSpyoungsvie	67.58		67.58	67.58		\$1,00	
Percent of Long Term Debt to Net Utility Plant						No.	
Times Long Term Debt requirement due this month covered by	0.29	2	0.29	0.29	-	0.29	
"Utility Operating Income	3.20			Name of State of Stat			
Amount in Loan Sinking Fund	0.62:0.38		0.62 : 0.38	0.62 : 0.38	÷	0.62 ; 0.38	
Debt / Equity Ratio			3.14 : 1.00	3,14 ; 1,00	· •	3.14 : 1.00	
3	3.14 : 4.00		6,14 1,1,46				

	A.		OVER (UNDER)	ACTUAL	BUDGET	OVER (UNDER) BUDGET
PRODUCTION BILLINGS & COLLECTIONS	ACTUAL	BUDGET	BUDGET	ACTUAL	BODGET	BODGE
Production -						
Cu. M. produced	5,042,287.09	4,986.088	(56,209.09)	57,156,233.38	59,833,056	2,676,822.62
For month/year Production Well	3,786,887.09	3,748,088	(40,798.09)	42,375,733.38	44,993,056	2,617,322.62
Bulk Water - Rio Verde	1,255,410	1,240,000	(15,410.00)	14,780,500.00	14,840,000	59,500.00
Average daily for month/year	182,654.74	160,842	(1,813.20)	187,397.49	196,174	8,776.47
Rated Production Capacity for Month/year (in cu.m.)	5,172,400,91	5,865,986	(693,585,09)	61,555,774.54	70,391,832	(8,836,057.46)
% Utilization of Reled Production Capacity	97%	85%	-12%	93%	85%	-8%
Cu. M. billed and accounted for water	2,119,253.54	2,493,044	(373,790.46)	26,457,651.80	32,908,181	(6,450,529.00)
% Unaccounted for Water	57.97%		-8%	53.71%	50%	-4%
Production and Distribution Cost per cum, produced	6.45	5.77	0.68	5.82	5.77	0.05
Water Billings:						
in Cu.M.	2,059,561.00	2,493,044	(433,483.00)	.26,457,651.80	32,908,181	(6,450,529)
Amount	59,838,446.66	68,324,781	(8,486,334,34)	667,912,246.65	543,474,170 409	124,438,076.65 (90.37)
Average Consumption per custo	24.81	31	(6.18)	318.71	409	(80.37)
Collections -				13)		
Collection of Water Billings:	20 4 14 162 10	72 547 046	(40,375,551.90)	385,837,660.68	787,126,860	(401,289,199.32)
For Current month's billings	32,141,463.10	72,517,015	(40,510,031,00)	300,031,000.00	70771E0700	(101,200,100,00)
For Previous month's billings	24,284,409.55	3,480,001	20,814,408,55	308,122,374.71	41,760,012	266,362,362,71
For Delinquent Accounts	54%	106%	52%	58%	145%	87%
Percent of Collections of Current Water Bill this month's billings *** NF8 #8 *** Customer Accounts -	J470	10078	<b>V2</b> /V	N S CONTRA	a: Astronomic	AL LANGUAGE
Balances at End of Period	246,875,118.35		246,875,118,35	246,875,118.35.	•	246,875,118.35
Increase/(Decrease) for the Perl.	6,777,325.86		6,777,325,88	6,777,325,86	•	6,777,325.86
Allowance for Bad Debts at End of Period - Credit	(80,816,940.85)	•	(80,816,940,85)	(80,816,940.85)		(80,816,940.85)
Increase/(Decrease) for the Period	241,667.00	241,667	*	2,900,004.00	2,900,004	4
Bad Debts Written Off during the Period		2.5			-	-
CAPITAL EXPENDITURES:						
COWD CAPEX:	1,772,711,36	9,737,852	7,965,140,64	15,123,167.92	116,854,268	101.731.100.08
Amount Spent - 2013 Capex	1,112,111.30	101,731,100.08	1,200,140.04	10,120,101.02	101,731,100.08	
Total Cost to Complete - 2013 Capex	3,464,290.50	101,101,100.00		53,323,494.60		
2012 Capex paid in 2013  Total Cost 2013 (spent and additional cost to complete)	0,101,200.00	103,503,811.44			116,854,268.00	28.
Total Approved Budget					116,854,268.00	
Expected Underun (Overrun)						
Rehab Grant (Sendong):	26.70096.024.00.020			10 227 000 00	53,791,000,00	13,123,907.31
Amount Spent (net cash outflow)	1,501,537.69	40 400 007 04		40,667,092,69	13,123,907.31	-10,120,804.01
Total Cost to Complete		13,123,907.31 14,625,445.00			53,791,000.00	
Total Cost - Sendong Grant (spent and cost to complete amount)		14,023,443.00			53,791,000.00	
Total Approved Budget Expected Underrun (Overrun)						
OTHER PERTINENT STATISTICS: No. of Connections:				1151		
Fotal	83,016	80,446	2,570	83,016	80,446	2,570
increase/Decrease)	253	0	253	253	O	253
Metered	83,016	80,446	2,570	83,016	80,446	2,570
Unmetered	0	0	0	0	0	(sen ada any
Estimated Population Served	651,995	482,676	(169,319.00)	651,995 465	482,676 0	(169,319,00) 465
Kilometers of Mains in Use	465	0	465 483	463	D	483
Kilometers of Pipes under Service	483	0; 524	#QJ (96)	428	524	(06)
Total Employees	428	314	(20)	.10,	\$5000000 400	**

### 0

### CAGAYAN DE ORO CITY WATER DISTRICT

### BALANCE SHEET

As of December 31, 2013 (With Comparative Figures for the Date Ended December 31, 2012)

	(With Comparative Figures for			THIS MONTH LAST YEAR		SE /(DECREASE) R LAST YEAR
	AMOUNT	% OF TOTAL	AMOUNT .	% OF TOTAL	AMOUNT	% OF LAST YEAR
ASSETS AND OTHER DEBITS						
UTILITY PLANT						
Utility Plant in Service - UPIS (NFS #2) Utility Plant Held for Future Use Unclassified Utility Plant Construction Work in Progress - CWIP (NFS #3) Machinery and Equipment in Transit	1,925,905,080.96 2,986,731.00 12,146,913.61 17,734,426.40 0.00	124,11 -0.19 -0.78 1.14 -0.00	1,828,550,542,38 3,102,531.00 6,717,003,54 8,482,388,67	122.43 0.21 0.45 0.57 0.00	97,354,538.57 (115,800.00) 5,429,910.07 9,252,037.73	5.32 0.00 0.00 109.07 0.00
Total Utility Plant	1,958,773,151.96	126.23	1,846,852,465.59	123.66	111,920,686.37	6.06
Less: Accumulated Provision for Depreciation		-				
and Amortization	(807,743,068.47)	(52.05)	(738,611,374.40)	(49,45)	(69,131,694.07).	9.36
Net Utility Plant	1,151,030,083.49	74.18	1,108,241,091.19	74.20	42,788,992.30	3.86
INVESTMENTS AND FUND ACCOUNTS						
Other Physical-Property (NFS 44) Less: Accumulated Provision for Depreciation Net Other Physical Property Investments Sinking Funds Miscellaneous Special Funds	2,607,699.50	0.17	2,607,699.50	0.17	0.00	0.00
CURRENT ASSETS AND OTHER DEBITS						
Cash (NFS#5)	90,723,136.99	5.85	124,703,562.86	8.35	(33,980,425.87)	(27.25)
Special Deposits (NFS #6)	48, 192, 695.83	3.11	39,193,986.38	2.62	8,998,709.45	22.96
Working Funds (NFS 187)	208,000.00	0.01	213,000.00	.0.01	(5,000.00)	(2.35)
Temporary Investments	22,583,879.00	1.46	0.00	0.00	22,583,879.00	100.00
Notes Receivable	246,875,118.35	15.91	245,647,101.05	16.45	1,228,017.30	0.50
Accounts Receivable-Customers (NFS#8) Advances to Officers and Employees	41,887.50	0.00	0.00	0.00	41,887.50	100.00
Accounts Receivable-Others (NFS #0)	1,059,082,08	0.07	1.044,785.76	0.07	14,296.32	1.37
Allowance for Bad Debts	(80,816,940.85)	(5.21)	(77,916,936.85)	(5.22)	(2,900,004.00)	3.72
Materials and Supplies Inventory (MFS #10)	45,175,440.23	2.91	34,537,190.29	2.31	10,538,249.94	30.80
Prepayments (NES #1)	593,030.57	0.04	456, 173.18	0.03	136,857.39	30,00
Other Current Assets and Other Debits	0.00	0.00	0.00	0.00	0.00	0.00
Total	374,635,329.70	24.14	367,878,862.67	24.63	6,756,467.03	1,84
Unamortized Debt Discount and Expenses Pretiminary Survey and Investigation Charges Other Work in Progress	99 499 000 70	124	44 840 463 67	0.99	8,678,669,41	58.60
Other Deferred Debits	23,488,822,98	1.51	14,810,153.57			
Total	23,488,822.98	1.51	14,810,153,57	0.99	8,678,669 41	58,60

フィリピン国「地方都市水道整備事業(皿)(カガヤン・デ・オロ水道区)」に係る援助効果促進調査 業務報告書

	ACTUAL THE	S MONTH	THIS MONTH LA		OVE	E ((DECREASE) R LAST YEAR
	AMOUNT	% OF TOTAL	AMOUNT	% OF TOTAL	AMOUNT	% OF LAST YEAR
LIABILITIES AND OTHER CREDITS						
CAPITAL				12.12		0.00
Capital Contribution-Government (NFS#17)	866,925.40	0.06	866,925.40	0.06	0.00	74,09
Other Pakt-In Capital (NFS#18)	101,591,946.42	6.55	58,356,519.92	3.91	43,235,426.50	9.98
Retained earnings - Unappropriated	465,724,011.12	30.01	423,471,859.61	28.35 0.01	42,252,151.51 0.00	0.00
Retained earnings - Appropriated	144,094.00	0.01	144,094.00	1.89	0.00	0.00
Appraisal Capital (NFS #19)	28,265,234.04	1.82	28,265,234.04			
Total	596,592,210.98	38.45	511,104,632.97	34.22	85,487,578.01	16.73
LONG TERM DEBTS						
Bonds Payable	and the same of th	MONTH CONTRACTOR	100000000000000000000000000000000000000	5044	(60,145,683.06)	(7.18)
Loans Payable (NFS #16)	777,871,393.98	50.13	838,017,077.04	56.11		
Other Long Term Debts	0,00	0.00	4,941,943.21	0.33	(4,941,943.21)	(100.00)
Retentions On Contract Payments			· · · · · · · · · · · · · · · · · · ·		0.00	0.00
Total	777,871,393.98	50.13	842,959,020.25	56,44	(65,087,626.27)	(7.72)
CURRENT AND ACCRUED LIABILITIES						
Notes Payable						
Vouchers Payable						
Accrued Light & Power					Ampril 4-10-20-20-20-20-20-20-20-20-20-20-20-20-20	
Current Portion on Long Term Debt (NFS #18)	60,030,831.90	3.87	38,943,612.82	2.61	21,087,219.08	54.15
GSIS/SSS Accounts Payable	9,325,933.89	0,60	2,566,168.55	0.17.	6,759,765.34	263.42
Customers' Deposits (NFS #14)	9,056,662.05	0.58	9,056,662.05	0.61	0.00	0.00
Medicare Payable	175,725.00	0.01	169,675.00	0.01	6,050:00	3.57
Interest Payable	0.00	0.00	0.00	0.00	.0.00	0.00
Withholding Taxes Payable	5,157,327.96	0.33	3,505,735.63	0,23	1,651,592.33	·· 47.11
Other Current and Accrued Liabilities (NFS #15)	43,060,869.06	2.77	32,686,662.61	2.19	10,374,206.45	31.74
Total	126,807,349.86	8.17	86,928,516.66	5.82	39,878,833.20	45,88
The state of the s		(I) (2004)				
ULFERRED CREDITS						
Unamortized Premium on Debts	Vanish (10 and 10 and 1		10 075 444 64	3.31	(2,054,656.20)	(4.16)
Other Deferred Credits	47,320,457,94	3.05	49,375,114.14			
Total	47,320,457.94	3.05	49,375,114.14	3.31	(2,054,658.20)	(4.16)
OPERATING RESERVES	9.					
Property Insurance Reserve						
Injuries and Damages Reserve						
Pensions and Benefits Reserve		(2010) 1075/1072		200	0.00	0.00
Other Operating Reserves (Expansion & Operating)NFs #12	3,170,522.91	0.20	3,170,522.91	0,21		0.00
Total	3,170,522.91	0.20	3,170,522.91	0.21	0.00	0.00
TOTAL LIABILITIES AND OTHER CREDITS	1,551,761,835.67	100.00	1,493,537,806.93	100.00	58,224,128.74	3.90

フィリピン国「地方都市水道整備事業(Ⅲ)(カガヤン・デ・オロ水道区)」に係る援助効果促進調査 業務報告書

### **DETAILS OF RETAINED EARNINGS**

### RETAINED EARNINGS - BEGINNING

TOTAL ADD: CREDITS

Retained Earnings - Unappropriated	P 415,473,044.15
Retained Earnings - Appropriated	144,094.00
	P 415.617.138:15

Credit Balance Transferred Income Account	P	58,987,581.70
Miscellaneous Credits to Retained Earnings		4

Total Credits	58,987,581.70
	P 474,604,719.85

TOTAL LESS: DEBITS			P	474,
		0 700 01 1 70		
Debit Balance Transferred Income Account	P	8,736,614.73		

Miscellaneous Debits to Retained Earnings	5
	49.464.90.00
Total Debits	8,736,614.73

## 6 – 21

CAGAYAN DE ORO CITY WATER DISTRICT.
STATEMENT OF INCOME
For the Morth Ended December 31, 2013
(With Comparative Budget Figures for the Morth Ended December 31, 2013)

		CURRENT	MONTH			4 (0.4 to 0.000 co.) and	Carrie Carrie		YEAR TO		OLCO MESOCI	ON THE RESIDENT
ACTUA	Ł	BUOGE	Γ	OVER KUNDER	BUDGET	PARTICULARS	ACTU	-	BUDGE		OVER (UNDE	Charles Andrew
AMOUNT	%TOTAL	AMOUNT	%TOTAL	AMOUNT :	%BUDGET		AMOUNT	%TOTAL	AMQUNT	%TOTAL	AMOUNT	%BUDGET
62,996,408.90	100.00	73,250,935	100.00	. (10,254,528.10)	(14.00)	OPERATING REVENUES	704,796,468.29	100.00	795,933,900	100,00	(91,137,411.71)	(11,45
		-				LESS: OPERATING EXPENSES						
47,503,445.16	75.41	40,016,713	54.63	(7,488,732.16)	. (18.7.1)	Operation Expenses	445,708,017,14		479,821,934		34,113,916.86	
6,549,948.18	10.40	4,728,772	6.46	(1,821,178.18)	(38.51)	Maintenance Expenses	49,860,722.34		57,323,820	7.20	7,463,097.66	
5,852,768.42	9.29	8,104,331	8.33	251,564.58	4,12	Depreciation Amortization of Ltd. Term Utility Inv. Income from Utilty. Pit. Leased to Others Rent for Lease of Utility Plant	69,137,043.07	9.81	73,251,972	9.20	4,114,928.93	5.82
59,906,159.74	95.09	50,649,810	09.42	(9,056,343.74)	(17,01)	Total Operating Expenses	564,705,762,55	80.12	010,397,726	70.69	45,581,843,45	7.48
3,090,249.16	4.91	22,401,119	30.58	(19,310,869.84)	(85.20)	UTILITY OPERATING INCOME	140,090,705.74	19.88	185,536,174	23.31	(45,445,468.28)	(24.49
						OTHER INCOME tocome from Non-Utility Operations Revenues of Leased of Other Physical Prop Dividend Revenues	erty					
75,302.64	0.12	74,000	0.10	1,302.64	1.76	Interest Revenues	735,486,23	0.10	888,000	-0.11	(152,513.77)	(17.17)
501,020.67	0.80	120,000	0.25	321,020.87	178,34	Revenues from Sinking and Other Fund Miscellaneous Non-Operating Revenues Non-Operating Revenues Deductions	3,751,191.67	0.53	2,180,000	0.27	1,581,191.87	73.67
575,323,31	0.91	254,000	0.35	322,323.31	126.90	Total Other Income	4,486,677.90	0.64	3,048,000	0.38	1,435,677.90	47,20
3,666,572.47	5.82	22,655,119	30.93	(18,988,548.53)	(83.82)	TOTAL INCOME	144,577,383.84	20.51	188,584,174	23.69	(44,006,790.38)	(23.34)
						MISCELLANEOUS INCOME DEDUCTIONS MIscellaneous Ameritation Miscellaneous Income Deductions Extra Ordinary Gains/Losses Total Miscellaneous Income Deductions						
0 000 PTO 47	5.00	99 055 \$40	30.93	(18,988,546,53)	(83.82)	NET INCOME BEFORE INTEREST CHARGES	144,577,383.64	20.51	188,584,174	23.69	(44,006,790.38)	(23.34)
3,666,572.47	5,82	22,855,119	20,83	(10,300,340,33)	(00.02)				- Alexander			
6,126,742,46	9.73.	8,010,842	. 10.84	1,884,099.54	23.52	Interest on Long Term Debts Amortization of Debt Discount and Expenses Amortization of Premium Debt (Credit) Taxes Assumed on Interest Other Interest Charges Interest Charged to Construction (Credit)	85,589,801.94	12.14	.97,985,301	1231	12,395,499,06	12.65
6.126.742.46	9.73	8,010,842	10.94	1,584,099.54	23.52	Total Interest Charges	65,589,801.94	12.14	97,953,301	12.31	12,395,489.06	12.66
71			-			NET INCOME /(LOSS) FOR THE PERIOD.	58,887,581,70	8.37	90,598,873	11.38	(31,811,291.30)	(34.89)

フィリピン国「地方都市水道整備事業(皿)(カガヤン・デ・オロ水道区)」に係る援助効果促進調査 業務報告書

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### CAGAYAN DE ORO CITY WATER DISTRICT CAGAYAN DE ORD CITY WATER DISTRICT DETAILED STATEMENT OF REVENDES AND EXPENSES For the Mouth Ended December 31, 2013 (With Comparative Figures Against Budget for the Mouth Ended December 31, 2013)

	CUR	RENT MO				PARTICULARS	ACTU		AR TO DA		OVER NUMBER	BUDGET
ACTUAL		BUDGE		OVER/(LINDER) I		PARTICULARO		- %TOTAL	AMOUNT	%TOTAL		%BUDGE
AMOUNT	%TOTAL:	AMOLINT	%TOTAL	AMOUNT	KBUDGET _	The same property						Section (Section )
				59		OPERATING REVENUES	(88)					
					86	WATER SALES:	sa mana Managan	10000000000			West Control of the	8.49792
59,533,409.86	94,50	68,497,894	93.51	(8,964,474,34)	(13.09)	Metered Sales to General Customers *	665,276,144.65	94.39	742,853,349	93.33	(77,577,204.25)	(10.
onfant Annual		3		68-82-16-11 Tu		Unmetered Sales to General Customers	W 3					
						Sales to Irrigation Customers						
		•				Priyate Fire Protection Service						
		*				Public Firs Protection Service Sales to Other Water Utilities for Resale						
****	n id	****	0.04	2000 200 00V	(48:87)	Sales to Government Agencies by Contract	2,636,102,00	0.37	7,139,844	0.90	(4,494,742.00)	(63
305,037.00 73,810.98	0.48	594,237 65,000	76.0 90.0	(269,200,00)	13.56	Other Sales of Services	982,683,36	0.14	788,800	0.10	202,683.36	25
						Total Water Sales	668,894,930.01	94.91	750,784,193	94.32	(81,689,262.99)	(10
58,912,257.64	95.10	69,157,121	94.41	(9,244,863.36)	(13.37)	Total vvaler Sales	000,004,500,01					
		0-1				OTHERS:				2. ST.	20 E	
422,957.97	0.67	620,008	0.65	(197,042.03)	(31.78)	Miscellaneous Service Revenues	7,173,005.43	1.02	. 7,440,000	0.93	(255,931.51)	(3.
		32	100000000 ATC	383319017037037	7. 3.	Rent of Water Property	- '	2.00	97,142,667	4.67	10 004 477 451	[24.
2,609,693.29	4.14	3,424,894	4.68	(815,200.71)	(23.80)	Penalty Charges ***	28,111,189.85	3,99	37,142,807	4.01	(9,031,477,15)	[24.
		•	10,		503	Rental of Water Meter Other Water Revenues	617,300,00	0.09	. 587,040 -	0.07	30,260.00	5.
51,500.00	0,08	48,928	0.07	2,580.00	5.27		35,901,558.28	5.09	45,169,707	5,68	(9,288,148.72)	- (20)
3,084,151.26	-4.90	4,099,814	5.59	(1,009,862,74)	[24.66]	Total Others	35,801,330.20					S2 #
62,996,408.90	100.00	73,250,935	100.00	(10,254,528.10)	(14.00)	TOTAL OPERATING REVENUES	704,796,488.29	100.00	705,933,900	100.00	(91,137,411.71)	(11.
					1	OPERATION:	-					(4,
888,069,00	1.41	1,976,958	1,47	186,608.00	17.54	Operation Supervision and Engineering	11,018,747.21	1.56 0.22	12,923,472 1,821,072	1.62 0.23	1,904,724.79	12.
129,982.89	0.21	151,756	0.21	21,773.11	1435	GSIS Contributions and Others	1,584,997.56 151,462.50	0.02	212,856	0.03	61,393.50	28.
12,087.50	0.02	17,738	0.02	5,650.50	31.86	Philhealth Contributions	7,792,172.61	1.11 .	7,986,492	1.00	194,319.39	2.
1,830,364.57	2,91	685,541	0,91	(1,164,623.53)	(175.02) 6.25	Employees' Pensions & Benefits  COWD Provident Fund Contribution	1,655,445.90	0.23	1,705,164	0.21	49,718.10	2
133,213.20	0.21	-142,097	6.19 6.01	6,883,80 50,00	0.86	COWD Pag-ibig Fund Contribution	66,700.00	0.01	67,800	0.01	1,100.00	1
5,800.00	0.01	\$,650 42,888	0.06	15,654.60	36.48	Miscellaneous Operation Dept. Expenses	247,535.47	.0.04	514,776	0.06	267,240.53	51
	1.31	154,984	0.21	(671,752.22)	(433.43)	Overtime & Holiday Expenses	1,973,525.64	· D.28	1,259,208	0.23	(113,717.64)	(6.
27,243.40								OBT	355,200	0.04	(157,505.03)	144
27,243.40 826,736.22		29,658	0.04	5,900.20	1990	Fuel, Oil and Lubricants	513,305.03	0.07				20
27,243.40	0.04 0.03	29,658 33,800	0.04 0.05	5,900.20 17,086.65	51.63	Office Supplies & Other Expenses	280,565.09	0.04	995,000	0.05	115,434.91	
27,243.40 826,736.22 23,749.60 15,961,15	0.04 0.03 0.00	93,800 15,400	0.05 0.02	17,036.65 15,460.00	51.63 0,00	Office Supplies & Other Expenses Trans / Dist. Labor & Material Expenses	280,565.09 4,634.33	0.04 0.01	995,000 184,800	0.41	179,965,67	0.
27,243,40 826,736,22 23,749,80	0.04 0.03	93,800	0.05	17,036.65	51.63	Office Supplies & Other Expenses Trans-Dist. Labor & Material Expenses Purchased Water	260,565.09 4,634.33 151,815,301.00	0.04 0.01 21.54	995,000 184,800 152,570,400	0.41 19.17	179,965,67 755,099,00	0.
27,243.40 826,736.22 23,749.60 15,961.15	0.04 0.03 0.00	93,800 15,400	0.05 0.02	17,036.65 15,460.00	51.63 0,00	Office Supplies & Other Expenses Trans / Dist. Labor & Material Expenses	280,565.09 4,634.33	0.04 0.01	995,000 184,800	0.41	179,965,67	0
27,243,40 826,736,22 23,749,80 15,961,15 12,931,143,50	0.04 0.03 0.00 20.53	93,800 15,400 12,714,200	0.05 0.02 17.36	17,086,65 15,460,00 (216,943,50)	51.63 0,00 0,00 (11.79)	Office Supplies & Other Expenses Trans Dist. Labor & Material Expenses Purchased Water Total Operation Expenses MAINTENANCE:	260,565.08 4,834.33 151,815,301.00 177,104,592.34	0.04 0.01 21.54 25,14	395,000 184,800 152,570,400 180,592,440	0.41 19.17 23.08	179,965,87- 755,099,00 3,493,547,68	0 0
27,243,40 826,736,22 23,749,80 15,961,15 12,931,143,50	0.04 0.03 0.00 20.53	93,800 15,400 12,714,200	0.05 0.02 17.36 20.55	17,086.85 15,460.00 (216,943.50) (1,774,300.23)	51.63 0,90 0.00 (11.79)	Office Supplies & Other Expenses Trans-Dirst, Labor & Material Expenses Purchased Water Total Operation Expenses MAINTENANCE: Maintenance of Collecting & Impolng. Reservoirs	260,565.08 4,634.33 151,815,301.00 177,104,592.34	0.04 0.01 21.54 25.14	995,000 184,800 152,570,400	0.41 19.17 23.08	179,965,87 755,000,00 3,493,547,68	0. 0. 1.
27,243,40 826,736,22 23,749,60 15,961,15 12,931,143,50 16,824,170,23	0.04 0.03 0.00 20.53 26.71	33,800 15,400 12,714,200 15,849,876	0.05 0.02 17.36 20.55	17,086.65 15,460.00 (216,943.50) -(1,774,300.23) - 0.00 0.00	51.63 0,00 0.00 (11.79) 0.00	Office Supplies & Other Expenses Trans-Dist. Labor & Material Expenses Purchased Water Total Operation Expenses MAINTENANCE: Maintenance of Collecting & Impung. Reservolvs Maintenance of Springs and Tunnels	260,565.08 4,634.33 151,815,301.00 177,104,592.34	0.04 0.01 21.54 25.14 0.00 0.00	395,000 184,800 152,579,400 180,592,440	0.41 19.17 23.08 0.00 0.00	179,965,67- 755,004,00 3,493,547,68 0,00 0,00	0. 0. 1.
27,243,40 826,736,22 23,749,80 15,961,15 12,931,143,50	0.04 0.03 0.00 20.53 26.71 0.00 0.00 0.00	93,800 15,400 12,714,200	0.05 0.02 17.36 20.55 0.00 0.00	17,0\$6.85 15,460.00 (216,943.50) - (1,774,200.23) - 0,00 0,00 6,511,00	\$1,63 0,00 0,00 (11,79) - - - - - - - - - - - - - - - - - - -	Office Supplies & Other Expenses Trans Dist. Labor & Material Expenses Purchased Water Total Operation Expenses MAINTENANCE: Maintenance of Collecting & Impung. Reservolss Maintenance of Springs and Tunnels Maintenance of Wells	260,565.08 4,634.33 151,815,301.00 177,104,592.34	0.04 0.01 21.54 25.14	395,000 184,800 152,570,400 180,592,440	0.41 19.17 23.08	179,965,87 755,000,00 3,493,547,68	0. 0. 1. 8. 0. 88.
27,243,40 826,736,22 23,749,60 15,961,15 12,931,143,50 16,824,170,23	0.04 0.03 0.00 20.53 26.71 0.00 0.00 0.00	33,800 15,400 12,714,200 15,849,876	0.95 0.02 17.36 20.55 0.00 0.00 0.01	17,086.86 15,400.00 (216,943.50) (1774,308.23) 0,00 0,00 0,511.00	51.53 0.00 0.00 (11.79) - - - - - - - - - - - - - - - - - - -	Office Supplies & Other Expenses Trans Dist. Labor & Material Expenses Purchased Water Total Operation Expenses MAINTENANCE: Maintenance of Collecting & Impdng. Reservolrs Maintenance of Springs and Tunnels Maintenance of Wells Maintenance of Supply Mains	260,565.08 4,634.33 151,815,301.00 177,104,592.34 9,116.32	0.04 0.01 21.54 25.14 0.00 0.00 0.00	395,000 184,800 152,579,400 180,592,440	0.41 19.17 23.08 0.00 0.00 0.01	179,965,67 756,094,00 3,493,647,66 0,00 0,00 68,949,55	0 0 1 1 8 0 88 0
27,243,40 826,736,22 23,749,60 15,961,15 12,931,143,50 16,824,170,23	0.04 0.03 0.00 20.53 26.71 0.00 0.00 0.00 0.00	33,800 15,400 12,714,200 15,849,876	0.05 0.02 17.36 20.55 0.00 0.00 0.01 0.00 0.00	17,0\$6.86 15,460,00 (216,943.50) (1,774,300.23) 0,00 0,00 0,511,00 0,00 0,00	51.63 0,00 0,00 (11.79) 0,90 0,00 100,00 0,00	Office Supplies & Other Expenses Trans-Dirst. Labor & Material Expenses Purchased Water  Total Operation Expenses  MAINTENANCE: Maintenance of Collecting & Impoling. Reservoirs Maintenance of Springs and Tunnels Maintenance of Wells Maintenance of Supply Mains Maintenance of Other Source of Supply Plant	260,565.08 4,634.33 151,815,301.00 177,104,592.34 9,116.32	0.04 0.01 21.54 25.14 0.00 0.00 0.00 0.00	395,000 184,800 152,579,400 180,592,440	0.41 19.17 23.08 0.00 0.00 0.01 0.00	179,965,87 755,094,00 3,493,547,68 0.00 0.00 68,949,55 0.00	0. 0. 1. 0. 0. 0. 0. 0. 0.
27,243.40 826,736.22 23,749.80 15,961.15 12,931.143.50 18,824,170.23	0.04 0.03 0.00 20.53 26.71 0.00 0.00 0.00	33,800 15,400 12,714,200 15,849,876	0.95 0.02 17.36 20.55 0.00 0.00 0.01	17,086.86 15,400.00 (216,943.50) (1774,308.23) 0,00 0,00 0,511.00	51.53 0.00 0.00 (11.79) - - - - - - - - - - - - - - - - - - -	Office Supplies & Other Expenses Trans Dist. Labor & Material Expenses Purchased Water Total Operation Expenses MAINTENANCE: Maintenance of Collecting & Impdng. Reservolrs Maintenance of Springs and Tunnels Maintenance of Wells Maintenance of Supply Mains	260,565.08 4,634.33 151,815,301.00 177,104,592.34 9,116.32	0.04 0.01 21.54 25.14 0.00 0.00 0.00 0.00 0.00	395,000 184,800 152,579,400 180,592,440	0.41 19.17 23.08 0.00 0.00 0.01 0.00 0.00	179,965,67- 755,099,60 3,493,547,66 0.00 0.00 68,949,55 0.00 0.00	29 0.0 0.1 1.5 9.1 0.0 66.3 0.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0

ACTUAL		RENT	ET	OVER AUNDER	BUDGET	PARTICULARS	ACT	UAL YE	8UOGE1	TE	OVER/RUNDER	HOUDGET.
AMOUNT	%TO TOTAL	AHOUNT	%TO TOTAL		WOF BLIDGET		AMOUNT	%TO TOTAL	AMOUNT	%TO TOTAL		%OF BUDG
	J=149/					PUMPING EXPENSES			15 M 1		*	
						OPERATION:						
174,869.88	0.28	104,072	0.26	19,203.12	. 9.89	Pumping Labor and Expenses	1,879,099.91	0.21	2,328,654	0.29	449,764,09	19.3
8,804,359.36	13.66	8,500,060	11,80	(104,359,38)	(1.23)	Fuel or Power Purchased for Pumping	100,086,559.61	14.20	102,000,000	12.82	- 1,913,440.39.	1.86
8,779,228.24	13.94	8,894,072	11.87	(85,156.24)	(0.98)	Total Operation Expenses  MAINTENANCE:	101,965,659.52	14.47	184,328,854	13.11	2,363,204.46	2.2
1,660.00	0.00	1,425	0.00	(235.00)	(1849)	Maintenance of Structures and Improvements	15.258.00	0.00	17,100	0.00	1,844.00	10.78
12,737.50	. 0.02	20,563	0.03	7,845.50	38.12	Preventive Maintenance of Pumping Plants	108,717.35	0.02	246,996	0.03	138,278,65	55.98
14,397.50	0.02	72,568	0.03	7.810:50	34,58	Total Maintenance Expenses	123,973.35	· Q.02	264,895	0.03	140,122,65	53.06
8,793,625,74	13,96	8,716,080	11.90	(77,545,74)	(0.89)	Total Pumping Expenses	102,089,632.87	14.48	104,592,960	13,14	2,503,327.13	2.39
	10,00				-	WATER TREATMENT EXPENSES	•	10.4		1517 SX 1247	•	-
						OPERATION:						
100	0,00	2.0	0.80	.0.00		Operation Labor and Expenses		0.00		0.00	0.00	8.00
178,392.14	0.28	200,000	0.27	21,807.86	10.80	Chemicals and Filtering Materials	2,956,935.36	0.42	2,400,500	0.30	(556,935.38)	(23.21
187,695.00	-0.30	53,500	0.07	(134,195.00)	(250.63)	Laboratory Supplies and Other Expenses	- 589,652.00	0.08	642,090	0.08	52,348,00	8.1
366,087.14	0.58	253,500	0.35	(112,587,14)	(44.41)	Total Operation Expense	3,546,587.36	0.50	. 3,042,000	0.38	(504,587,36)	. (18.50
						MAINTENANCE:				at.	*	151
0.00	0.00	24,983	0.00	9.00 24,983.00	0.00	Maintenance of Structures & Improvements Maintenance of Water Treatment Equipment	18,210.00	0.00 Q.00	288,996	0.00	0.00 ° 270,786.00	93.70
0.00	0.00	24,883	0.03	24,833.00	100.00	Total Maintenance Expenses	18,210.00	0.00	288,995	0.04	270,766.00	93.70
. 366,087.14	0.58	277,583	0.38	(86,504.14)	(31.88)	Total Water Treatment Expenses	3,564,797.36	0.51	3,330,996	0.42	(233,801.28)	(7.02)
25,983,883.11	41.25	24,050,044	32.83	(1,983,839.11)	(8.04)	TOTAL PRODUCTION DEPARTMENT EXPENSES	282,769,138.89	40.13	288,600,462	36.65	5,832,323.11	. 2.82
		•		•	***************************************			of the second	÷ 1/2		P-193780-175	AND MESTI
	4				*	REPAIR AND MAINTENANCE DEPARTMENT		16				
					88	MAINTENANCE & REPAIRS			100.0			
1,409,803.98	2.24	1,515,781	2.07	105,877.02	6.97	Maint & Repair Supervision and Engineering	16,842,698.85	2.39	18,185,772	2.28	1,343,073.15	7.39
201,012.60	0.32	216,583	0.30	15,975.20	7.23	GSIS Contributions and Others	2,434,218.30	0.35	2,500,256	0.33	166,037,70	8,39
18,687.50	0.03	24,409	0.03	6,721.50	23.44	Philhealth Contributions	223,812.50	0.03	292,900	0.04	69,095,50	23.50
3,359,635.43	5,33	1,078,981	1.47	(2,280,654.43)	(211,37)	Employees' Pensions & Benefits . COWD Provident Fund Contribution	12,919,581,64 2,469,485,82	1.83 0.35	12,047,772	1_63 0_32	26,190.38	0.22
206,899.62 10,898.16	0.33 0.02	215,428	0.29 0.01	6,528.35 (196.18)	3.96	COWD Pag-ibig Fund Contribution	127,587.17	0.02	128,400	0.02	115,650.18 812,83	A 47 0.63
420.80	0.00	3,900	0.00	2,580,06	56.00	Miscellaneous Repair & Maint, Dept. Expenses	9,571.50	0.00	35,800	0.00	26,428.50	73.41
303,041,96	0.48	81,707	0.11	(221,334,66)	(270.89)	Overtime & Holiday Expenses	539,149.43	- 6.08	980,484	6.12	411.334.57	45.01
78,078.17	9.12	119,503	0.16	41,529.63	34.72	Fuel, Oil and Lubricants	1,175,200.93	0.17	1,435,296	0_10	260,095.07	18.12
15,193.70	0.02	39,572	0.05-	24,378.30	8150	Office Supplies & Other Expenses	279,176.95	0.04	474,844	0.06	195,667.05	41.21
270,471.42	0.43	388,281	0.53	117,809.58	30.34	Mahtenance & Repair of General Plant	3,640,037.65	0.52	4,559,372	0.59	1,019,334.35	21.88
141,510.68	0:22	284,321	Date:	58 - 31 - 50 - 60 - 60	50.28	Maintenance & Repair Pumping Facilities	1,565,384,21	0.22	3,415,452	0,43	1,650,057,79	54,17
-	0.00	9,003	0.01	.9,006.00	0.00	Maintenance of Reservoirs and Tanks	14,068.30	0.00	108,096	B.01	94,927,70	86,89
37,799.31	0.06	177,576	0.24	140,178.69	78.76	Maintenance of Transmission/Distribution Mains	975,184.48	0.14	2,135,712	0.27	1,160,527.54	-54.34
462,684.38	0.73	488,353	_0_67.	25,678.63	5.26	Maintenance & Repair of Service Connections	8,226,583.19	0.88	5,840,356	0.74	(366,227.19)	(8.25)
18,678.00	0.03	38,582	0.05	20.010.00	51.72	Maintenance & Repair of Water Meters	222,390.80	0.03	454,258	. 0.06	241,885.20	52.10
15,133.05	0.02	- 35,141	0.05	20,007.05	50.94	Maintenance & Repair of Hydrants and Valves	60,649.62	0.01	421,692	0.65	361,042.38	65.82
0.00	0.00	1,120	0.00	1,120.00	0.00	Maintenance 3 Repair of Miscellaneous Plants	13,060.50	9.00	13,440	0.00	379.50	2.92
6,549,948,16	10.40	4,728,772	6.46	(1,621,177.15)	(36,51)	TOTAL REPAIR & MAINT, DEPT, EXPENSES	49,737,841.82	7.08	55,745,264	7,13	7,007,422.18	12.35

	CUP	RENT MON	TH		-	PARTICULARS	ACTUAL	10	AR TO DA		OVER AUNDERS	RINGE
ACTUAL	%TO TOTAL	BUDGET AMOUNT %	TOTOTAL	OVER NUNCER) S	LOGET OF BUDGET	PARTICULARS	AMOUNT %	TOTOTAL	AMOUNT 9	TO TOTAL	AMOUNT &	OF BUO
MACAN	MIO (O) NE.	runy year.				COMMERCIAL DEPARTMENT (CUSTOMER ACCOUNT EXPENSES) OPERATION:						
Sala Siver	- 202	100000	***	574 FAR (III	16.44	Supervision	18,865,939.62	2.39	19,970,406	2.51	3,164,555.38	15
1,390,014.88	2.21	1,884,248	2,27	273,593.12 62,430.71	23.60	GSIS Contributions and Others	2,416,623.83	0.34	3,174,606	9.40	7.58,072.17	23
202,127.29	0.32	264,558	0,36	9,677.50	32.24	Philhealth Contributions	249,675.00	0.04	365,180	0.05	110,506.00	30
20,337.50	0.03	30,015	0.04		(168.79)	Employees' Pensions & Benefits	14,002,186.61	1.99	15,003,516	1.89	1,001,348.39	19
3,585,704.89	5,69	1,250,293	1.71	(2,335,411.89)	5,56	COVID Provident Fund Contribution	2,512,333.47	0.36	2,851,100	0.33	138,768 53	
208,592,22	0.33	220,925	9.30	1233278	21,34	COVVO Pag-ibig Fund Contribution	111,338.21	0.02	143,400	0.02	32,061.79	2
9,400.00	0.01	11,950	0.02	2,550,00	0.27	Miscellaneous Commercial Dept. Expenses	4,562,073.46	0.65	5,823,728	0.63	461,654.54	
417,517.75	0.66	418,544	0.57	1,126,25		Overtime & Hosday Expenses	398,064,10	0.06	1,140,040	0.14	743,935.90	
168,285.00	0.27	95,000 -	0.13	(75,285.00)	(77.56)	Fuel, Oil and Lubricants	1,143,858.58	0.16	1,248,000	0.16	104,143,42	
93,172.50	0.15	104,000	0.14	10,827,50	10.41		810,893.84	0.12	1,515,728	. 0.19	705,834.15	1
64,547.90	0.10	126,354	0.17	81,848.10	46,23	Office Supplies & Other Expenses Uncollectible Accounts	2,900,004.00	0.41	2,900,004	0.36	0.00	
241,667.00	0.38	241,667	0,33	600		TOTAL COMMERCIAL DEPARTMENT EXPENSES	45,970,968.72	6.52	53,131,848	6.68	7,190,879,28	1
6,401,966,93	10.16	4,427,854	6.04	(1,274,312.93)	(44.59)		3,10,013,013					
				Joe controlo	DEDICK!	ENGINEERING DEPARTMENT CONST., ELECTRO-MECHANICAL CONST., AND BLDG.	GROUND MAINT FXPE	(SES)				
				(PLANNING,	DESIGN,	OPERATION:	Ditection within the s	and a				
	4.45	010 200	122	are taken	20.54	Supervision	8,935,444.50	1.27	11,849;156	1,39	2,115,711.50	
704,278.45	1.12	820,763	1.26	216,484,55	23.51	GSIS Contributions and Others	1,139,169:55	0.16	1,355,248	0.20	416,078,45	3
91,125.34	.0.14	129,504	0.18	38,478.06	29.69	Philhealth Contributions	102,450.00	0.01	173,816	0.02	71,168.00	- 7
8,500.00	0.01	14,450	0.02	5,968.00	41.25		6,505,420.21	0.92	6,931,552	-038	476,131.79	
1,550;352,75	2.48	581,706	0.79	(965,556.75)	(168.48)	Employees' Pensions & Benefits	1,351,200.72	0.19	1,461,132	0.18	109,931,28	
105,841.76	0.17	121,761	0.17	16,119.24	13.24	COWD Provident Fund Contribution	52,253.61	0.01	55,500	. 0.01	3,548.39	
4,753.61	0.01	4,856	0.01	(103.61)	(2.23)	COVID Pag-ibig Fund Contribution	1,110,219.88	0.16	1,277,508	0.16	187,288,12	
106,109,39	0.17	188,450	0.15	340.61	0.33	Miscellaneous Engineering Dept. Expenses	143,850,81	0.02	- 646,112	0.02	2,481,19	
95,933.39	0.15	12,176	0.02	(83.757.39)	(687.89)	Overtime & Holiday Expenses	125,279.87	0.02	174,000	0.02	48,720.33	
11,508,60	0.02	14,500	0.02	2,091.40	20.63 67.33	Fuel, Oil and Lübricares Office Supplies & Other Expenses	345,654.93	0.05	351,000	0.04	5,345.07	
9,555.00	0.02	29,250	0.94	19,805.00		TOTAL ENGINEERING DEPARTMENT EXPENSES	19,810,743.88	2.81	23,225,124	2.92	3,414,380.12	11/2
2,687,758.29	4.27	1,935,427	2.64	(752331 29)	(38,87)	ADMINISTRATIVE DEPARTMENT			30.		,	
						OPERATION:		861	E-380E	363	- Andrews	
590,705.00	0.95	739,879	1.01	142,874,00	19.33	Administrative and General Salaries	7,591,230.11	1.08	6,876,148	1.12	1,284,917.89	
83,262.52	0.13	901,000	0.14	17,737 AB	17.58	GSIS Contributions and Others	1,047,293.39	0.15	1,212,000	0.15	184,708.61	
7,487.50	0.01	11,156	0.02	3,868,50	32,88	Philhealth Corgnibutions	93,800.00	0.01	133,872	0.02	40,272.00	
1,308,533.05	- 2.08	567,490	0.77	(741,084,05)	(130.58)	Employees' Pensions & Benefits	5,449,319.57	0.77	6,869,988	0.85	1,360,665,43	
89,505.75	D.14	102,248	0.14	12,740.25	12.46	COWD Provident Fund Contribution	1,136,853.51	0.16	1,226,952	0.15	90,000.49	
3,100.00	0.00	3,250	0.00	150,00	4.52	COWD Pag-Rig Fund Contribution	37,400.00	0.01	39,000	0.00	1,500.00	
497,914,78	D.65	911,601	0.43	(98,313,78)	(30.91)	Miscellaneous General & Admin. Expenses	3,074,093,89	0.44	3,739,212	0.47	695,118.11	
25,071.76	0.04	3,768	0.01	(21,303.79)	(585 39)	Overtime/Holiday Pay	43,254.02	0.01	. 45,218	0.01.	1,961,96	
7,041.24	0.01	14,255	0.62	7,213.76	50.61	Firel, Oil and Lubricants	161,946.28	0.02	171,050	0.02	9,113.72	
279,422.53	0.44	335,000	0.46	\$6,577.A7	16.59	Light & Power	3,400,729.66	0.48	4,620,000	0.51	619,270.34	
617,417.13	0.98	580,099	83.0	[117,417,13]	(23.48)	Other Cutside Services Employed	6,870,435.14	0.97	6,800,800	0.75	(870,435.14) 2,185,155.31	(
63,104.95	0.10	288,984	0.39	225,679.05 -	75.16	Travel Expenses & Per Diem	1,302,852.69	0.18	3,467,806	0.46	2,165,15631	
119,871.51	0:18	309,167	0.41	154,295,49	60.79	Training Expenses	1,462,564.40	0.21	3,532,904	0.46 0.15	21,090 97	
101,867,51	0.16	100,000	0.14	(1,587,51)	(1.87)	Insurance Expenses	1,178,909.03	0.17	1,208,800	0.03		83
10,812.00	0.02	5,000	0.01	(5,812.06)	(118.24)	Injuries and Damages	208,837.10	0.03	260,806	3354	53,102,90	
54,015.50	0.09	70,000	0.10	15,964.50	. 22.84	Office Supplies & Other Expanses	873,127:49	0.12	340,900	0.11	(93,127.49) 245,019.35	
142,348.47	0.23	122,092	0.17	(20,254.47)	(18:59)	Communications	1,220,084.84	0.17	1,485,184	0.18		
47 -	0.00	501	0.00	500.00	0.00	Freight and Handling	2,665.36	0.00	6,000	0.00	3,314,64	3
22,000.00	0.03	22,000	0.03	0.00	0.00	Rents	264,000.00	0.04	. 264,100	0.03	0.60	
1.397,539.15	2.22	1,375,192	1.88	(21,547.15)	(1.55)	Taxes and Licenses	15,278,427.27	2.17	16,514,304	2.07	1,235,878,73	
0.00	0.00	10,504	0.01	10,000,00	100.00	Physical Fitness & Amietics	40,602.00	0,01	120,008	0.02	79,398:00	
				12.0		TOTAL ADMINISTRATIVE DEPT. EXPENSES	50,738,035,55	7.20	50,048,858	7.54	9,312,832,45	

フィリピン国「地方都市水道整備事業(Ⅲ\\カガヤン・デ・オロ水道区)」に係る援助効果促進調査 業務報告書

-	CUI	RENT MOI				DARTICULARS	10001	16	AR TO DAT		AL WHAT ARE A TO A	PM III. Year
OUNT	%TO TOTAL	BUDGET AMOUNT 9	STO TOTAL	AMOUNT 9	JUDGET JOF BUDGET	PARTICULARS	ACTUAL AMOUNT %	TO TOTAL	BUDGET 9	TO TOTAL	OVER (UNDER)	BUDGET NOF BUDG
CONT	WIO TOTAL	AMUDICI 7	ALO TO IAL	MAKACSAI 2	OF BRUGER		AUTOCAST A	TO TOTAL	and on the same	itu (QIAL	Anti-Old a	CT QUELO
						MANAGEMENT DEPARTMENT						
						OPERATION:						
546,784.86	0.87	605,473	0.83	58.688.14	9.69	Supervision	6,328,254.24	0.90	7,285,676	0.91	937,421.76	12.0
72,193.14	0.11	79,500	0.11	7,306.86	9.19	GSIS Contributions and Others	657,143.81	0.12	954,000	0.12	96,856.19	10.1
6,550.00	0.01	9,586	0.01	3,046.00	31.74	Philipealth Contributions	78.650.00	0.01	115,152	0.01	38,502,00	31.7
723,308.60	1.15	328,239	0.45	(395,069,00)	(120,36)	Employees' Pensions & Benefits	3,460,420.75	0.49	3,938,868	D.49	478,447.25	121
		The second second	0.11	Andrew and a result of	(3.24)	COVO Provident Fund Contribution	962,929,23	0.14	993,429	0.12	39,490,77	3.0
86,050.35	0.14	82,785	0.00	(3,265.35) 50.00	213	COWD Pag-ibig Fund-Contribution	27,700.00	0.00	28,280	0.00	500.00	1.3
2,300.00	0.00	2,350		The second second	43.88	Miscellaneous General & Mont. Expenses	742,498.44	0.11	1,877,864	0.24	1,135,407,56	60
87,822.01	0.14	156,492	0.21	68,669,98			2,402.28	9.00	17,640	0.00	15,237,72	86.3
613.50	0.00	1,470	0.00	658.50	56.27	Overtime & Holiday Expenses	187,248.07	0.03	287,761	0.03		
7,212.83	0.01	17,914	0.02	10,101.37	58.34	Fuel, Oil and Luhricants		2,000		0.03	20,519.93	9:
- 33,459.10	0.05	22,300	0.03	(10,959.10)	(48.71)	Office Supplies & Other Expenses	280,343.65	0.04	276,000	100000000000000000000000000000000000000	(10,343.65)	(3.0
	0.00	10,008	0.01	10,000,00	100,00	Donations and Contributions	15,500.00	0.00	129,400	0.02	104,500,00	87.0
55,600.00	0.09	52,207	0.07	(3,393.00)	(6.50)	Advertising & Promotions	235,844.97	0.03	625,484	0.08	300,839,03	822
584,747.83	0.93	72,500	0.10	(512,247.83)	(708.55)	Corporate Social Responsibility Expenses	711,058.37	0.10	\$79,000	0.11	158,943.83	48.
	7745	200000	1 22		· Annual	TOTAL MANAGEMENT DEPARTMENT	40 000 700 84	1.97	James day	8.49		400
,206,542.02	3.50	1,440,425	1.97	(766,216.02)	(53.19)	EXPENSES	13,889,789.81	1,3/	17,285,112	2.17	3,395,322.19	197
						OFFICE OF THE GENERAL MANAGER						
					00	OPERATION:						
62,670.00	0.10	81,719	0.11	19,048,90	23.31	Supervision	752,040.00	0.11	989,622	0,12	228,588,00	23.
19,504.89	0.03	12,316	0.82	(7,186.89)	(58,37)	GSIS Contributions and Others	128,357.48	0.82	147,792	0.02	19,434.52	13.
1,025,00	0.00	1,078	0.00	51.00	4.74	Philhealth Contributions	7,587,50	0.00	12,012	0.00	5,3-24.50	413
111,178.22	0.13	63,521	8.09	(47,857.22)	(75.03)	Employees' Pensions & Benefits.	568,655,54	0.08	762,252	0.10	193,596.46	25.0
9,400.50	0.01	10,153	8.01	752.50	7.41	COWD Provident Fund Contribution	112,806,00	0.02	121,838	0.02	9,030,00	7.4
1,097.97	0.00	358	0.00	(747.97)	(213,71)	COWD Pag-ibig Fund Contribution	3,997.97	0.00	4,200	0.00	202.03	4.8
	0.29	121,196	0.17	(59,707.16)	(49.26)	Miscellaneous General & Mgms. Expenses	1,193,811.11	0.17	1,454,352	0.18	260,440.89	17.9
180,903.16	U.23	121,186	0.00	0.00	0.00	Overtime & Holiday Expenses	13190,01011	0.00	.,,,,,,,,,	0.00	0.00	0.00
9,718.48	0.01	7,100	0.01	(1,718,48)	(24.55)	Fuel, Oil and Lubricants	80,930.52	0.01	84,000	0.01	23,069,48	27.4
5,279.00	0.01	12,500	0.02	7,221,00	57.77	Office Supplies & Other Expenses	165,385.52	0.02	156,006	0.02	(15,365,52)	(10.2)
10,000.00	0.02	16,780	0.02	6,700.00	40.12	Professional Fees	164,416.70	0.02	260,409	0.03	35,983.30	17.9
18,402,33	0.03	9,167	0.61	(7,235.33)	(78.93)	Discretionary Fund Expenses	109,834.32	0.02	110,804	0.01	169,68	0.15
253,750.45	0.40	25,008	0.03	(228,750.45)	(915.90)	COA Audit Fees	300,000.00	0.04	300,800	0.04	0.00	8.0
679,930.00	1.08	350,698	0,49	(319,232,00)	(88.50)	TOTAL OFFICE OF THE GENERAL MANAGER	3,567,922.66	0.51	4,528,376	0,54	760,453.34	17.5
						OFFICE OF THE BOARD OF DIRECTORS						
						OFFICE OF THE BOARD OF DIRECTORS						
NAME OF STREET				100		OPERATION:	THE WAY WAY	F-14	Evin Sex		2772 2772 277	
38,567,00	0.06	87,382	0.12	59,825.00	58.16	Supervision	916,019.38	0.13	1,048,794	0.13	132,585.64	12.6
6,515,24	0.01	12,738	0.02	8,222.70	48,85	GSIS Contributions and Others	134,439.28	0.02	152,856	0.02	18,418,72	12.0
600.00	0.00	1,541	0.00	641.00	61.06	Philhealth Contributions	11,775.00	0.00	18,492	0.90	5,717,00	38.3
124,974,01	0.20	50,322	0.08	(85,652.01)	(110.67)	Employees' Pensions & Benefits	629,565,78	0.09	211,864	0.09	82,293,22	11,5
5,485.05	0.01	12,312	0.02	9,908,95	55.74	COVID Provident Fund Contribution	134,891.10	0.02	148,784	0.02	13,612.90	9.2
200.00	0.00	350	0.00	150.00	42.66	COWD Pag-iblg Fund Contribution	3,400.00	0.00	4,200	0.00	800,00	19.0
30,508.79	0.05	31,851	0.04	1,342,21	4.21	Miscellaneous General & Mgmt. Expanses	279,841.09	0.04	382,212	0.05	102,370.92	26.7
L	(50)		0.00	60.0	0.00	Overtime & Holiday Expenses	115 Cha 60	0.00	*****	0.00	0.00	0.00
10,224,28	0.02	15,500	0.02	6,275.72	38.03	Fuel, Oil and Lubricants	110,596.68	0.02	122,800	0.02	87,403,32	44.14
2,419,70	0.00	5,508	0.01	3,080.20	58.01	Office Supplies & Other Expenses	46,980.10	0.01	55,900	8.81	19,019,90	28.67
,094,488.24	1.74	273,420	0.37	(821,068.24)	{300.30}	Directors' Fees and Remunerations	3,270,848:34	0.46	3,281,940	0.41	10,191.66	0.31
311,982.31	- 2,08	501,806	0.68	(810,976.31)	(181.87)	TOTAL OFFICE OF THE BOARD OR DIRECTORS	5,538,355,72	0.79	5,012,072	0.76	473,716.28	7,86
of the State of						FINANCE DEPARTMENT						
					Ç	ACCOUNTING, CASHIER'S & PROPERTY EXPENSES)						
						OPERATION:						
000 BJ 5 7	2.22	112424	2.44	*** *** ***	in a law		44 DRE DIR BI	4 67	#2 020 02C	175	O DE A DOS DE	200
	1,41	1,160,019	1.50	289,803.25	23.28	Supervision	11,085,246.64	1.57	13,926,228	1.75	2,854,981.25	
890,215.7 126,588.1	0.20	153,191	0.21	24,602.84	16.06	Supervision GSIS Contributions and Others	1,478,126.37	0.21	1,838,292	0.23	389,165.63	20.5.1 19.59
						Supervision						

フィリピン国「地方都市水道整備事業(皿)(カガヤン・デ・オロ水道区)」に係る援助効果促進調査 業務報告書

	cua	RENT MO	NTH					YE	AR TO D.	ATE		
ACTUAL	1	BUDG		OVER/(UNDER)		PARTICULARS	- ACT		BUDGE	7	OVERMINDE	R) ELIDGET
AMOUNT	%TO TOTAL	AMOUNT	%TO TOTAL	AMOUNT 9	OF EXIOGET		AMOUNT	%TO TOTAL	AMOUNT:	%TO TOTAL.	AMOUNT	%OF BUOG
133,532,37	31.57	144,957	23.38	11,424.83	1.88	COWD Provident Fund Contribution	1,659,992.87	0.24	1,730,484	. 23.38	79,491,33	4.5
4,900.00	1.15	4,350	0.70	(550.00)	(12.84)	COWD Pag-Ibig Fund Coninbution	50,000.00	0.01	52,200	0,70	1,400,00	2.60
138,896.93	0.22	128,759	0.18	(10,137.03)	(7.67)	Miscellaneous Finance Dept. Expenses	1,285,571.10	0.18	1,545,108	0.19	259,438,90	16.79
79,535.68	0.13	7,250	0.01	\$72,285 BB)	(997.04)	Overtime & Holiday Expenses	141,942.06	0.02	87,000	0.01	(54,942.06)	(83.15
6,398.97	0.01	9,350	0.01	2,951.03	31.59	Firel, Oil and Lubricants	72,882.18	0.01	112,200	0.91	39,537.84	35.24
63,637.60	0.10	105,150	0.14	41,512.40	39.46	Office Supplies & Other Expenses	1,031,644.25	0.15	1,281,600	0,15	230,155,75	19.24
2,895,284.15	4,50	2,314,860	3,16	(581,195.15)	(25.12)	TOTAL FINANCE DEPARTMENT EXPENSES	23,548,942.43	3.34	27,748,828	3.49	4,219,865.57	15.20
54,053,393.32	85,80	44,745,485	61,09	[9,307,909,31]	(20.50)	TOTAL OPERATING AND MAINT. EXPENSES	495,588,739,48	70.31	537,145,754	67.49	41,577,014.52	734
5,852,766,42	9.29	5,184,331	8.33	251.584.58-	4.12	DEPRECIATION	89,137,043.07	9.81	73,251,972	9.20	4.114.978.93	5.62
578,323.31	0.91	254,000	0.35	322,323.31	126.90	NET NONOPERATING INCOME	4,488,577.90	0.64	3,548,040	0.38	1,438,877.90	47.20
3,666,572.47	5.62	22,655,419	30,93	(18,988,546.53)	(83.52)	TOTAL INCOME BEFORE MISCELLANEOUS INCOM Deductions and Interest: Miscellaneous Income-Interest Miscellaneous Amortizations Miscellaneous Income Deductions Extraordinary Galns/Losses Total	144,577,383.64	20.51	188,584,174	23,69	[44,006,790,38]	[23:34
3,868,572.47	5.82	22,655,119	30.93	(18,988,546.53)	(63.82)	TOTAL INCOME BEFORE INTEREST CHARGES	144,577,383.64	20.51	188,584,174	. 23.69	(44,008,760,36)	[23.34
6,126,742.46	9.73	8,010,842	10,94	1,384,099.54	23.52	INTEREST CHARGES Interest on Long Term Debt Amontization of Debt Discount & Expense Amortization of Premium on Debt-Credit Taxes Assumed on Interest Interest Charged to Construction-Credit	85,589,801.94	12,14	97,225,381	12.31	12,395,499.08	12.65
6,126,742.46	9.73	8,810,842	10.94	1.884.000.54	23.52	Other Interest Charges Total interest Charges	85,589,801.94	12.14	97,985,101	12.31	12.395.499.06	12.65
(2,460,169.99) des to Flanciel Stales	(3.91)	14,844,277	19.99	(17,104,446.99)	(116.80)	NET INCOME/(LOSS) FOR THE PERIOD	- 58,987,584.70	8.37	90,588,873	11.38	(31,611,29130)	(34.69)

# CAGAYAN DE ORO CITY WATER DISTRICT CASH FLOW STATEMENT (For the Month Ended December 31, 2013)

	CHE	RENT MON	TH	YEAR TO DATE		
	ACTUAL	BUDGET	OVER /(UNDER) BUDGET	ACTUAL	BUDGET	OVER (UNDER) BUDGET
RECEIPTS:						
Collection of Water Bills:				40E 047 600 60	787,126,860	(401,289,199.32
Силейt	32,141,463.10	72,517,015	(40,375,551.90)	385,837,660.68	Street, and the second second	266,362,362.71
Arrears	24,294,409.55	3,480,001	20,814,408.55	308,122,374.71	41,760,012	200,302,302.11
Other Sales or Services	73,810.98	85,000	8,610.98 (124,196.03)	982,683,36 7,374,500,43	780,000 7,440,000	202,583,36 (65,499.5)
Miscellaneous Service Revenues	495,803.97 51,500.00	620,000 48,920	2,580.00	617,300.00	587,040	30,260.0
Other Water Revenues	103,870,39		103,870.39	252,451.78	- 1	252,451.7
Retunds of Employees Cash Advances	15,335.00	3	15,335.00	621,473.55	·- 🙀 ,	621,473.5
Refunds/Payments of Accis. Receivable and Others	57,029.33	74,000	(16,970.67)	290,469.74	888,000	(597,530.2
Interest Revenues	402,299.00	180,000	222,299.00	5,774,434.44	2,160,000	3,614,434.4
Miscellaneous Non-Operating Revenues	402,299.00	180,000	221,233.00			
LWUA GRANT (OP-Sendong)		6	1			¥
Cash Donations - (Sendong)		- 1	Fa t		2 %	¥
Loan Proceeds - Guaranty Deposit			152,975.42	9,277,560.32	290	9,277,560.3
Other Receipts/Adjustments/	152,975.42		152,975.42		76 10 10 10 10 10 10	agattes de constante e e
Total Receipts	57,788,496.74	76,984,936	(19,196,439.26)	719,150,909.01	840,741,812	(121,591,002.9
DISBURSEMENTS:	7				Note: 10 and the second of the	
Payments of Voucliers Payable	39,370,976,11	33,815,690	(5,555,286.11)	401,126,049.25	405,787,554	4,661,504.7
	8,203,822.30	9,553,658	1,349,835.70	101,414,300.41	114,643,896	13,229,595.5
Payroll	520,469.97		(520,469.97)	3,014,810.09		(3,014,810.0
Advances to Officers and Employees Payments of Phase II-A Prodn. Wells	38,381.00	38,381		460,572.00	460,572	
Payments of Phase II-B Schedules A, B & C	1,031,067.00	1,031,067	19 <u>4</u> 6	11,732,359.00	12,372,804	640,445.0
Payments of Phase II-B Schedules A. B. & C.	242,597.00	242,597	**************************************	13,550,874.00	13,550,874	3
Payment of Phase III (520.128M)			**	11,717,580.00	11,717,580	*
LWUA - 200M Loan - Lateral Project	82,317.00	82,317		987,804.00	987,804	•
LWUA-5 Million HRSp Youngsville	9,414,849.75	9,905,693	490,843.25	93,689,301.87	96,603,696	2,914,394.1
DBP-Refinancing Loan	617,742.90	205,915	(411,827.90)	3,706,457.40	2,470,980	(1,235,477.4
John-dorf Ventures	1,067,932.47	1,376,192	308,259.53	11,751,813.73	16,514,304	4,762,490.2
Franchise Tax	5,237,001.86	9,737,852	4,500,850.14	68,369,406.88	116,854,268	48,484,861.1
Capital Improvements	*	613,363	613,363.00	10,695,000.00	7,360,356	(3,334,644.0
Reserve & Contingency		•		-		*
Guaranty Deposit Repayment	1,509,759.59		(1,509,759.59)	20,915,006.25	34,408,770	13,493,783.7
Sendong Rehabilitation - 53M Grant  Total Disbursements	67,336,916,95	66,602,725	(734,191,95)	753,131,334.88	833,733,458	80,602,123.1
** ** ** ** ** ** ** ** ** ** ** ** **	(9,548,420.21)	10,382,211	(19,930,631.21)	(33,980,425.87)	7,008,454	(40,988,879.8
NET RECEIPTS /(DISBURSEMENTS)		121,328,806	(21,058,248.66)	124,703,562.86	124,703,563	
CASH BALANCE, BEGINNING	100,271,557.20		(40,988,879.87)	90,723,138.99	131,712,017	(40,988,879.8
Cash Balance, end ***NFS p15***	90,723,136.99	131,712,017	110,00c,041	Total Lines Inches		and the second second

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### CAGAYAN DE ORO CITY WATER DISTRICT FUNDS FLOW STATEMENT

(For the One-Month Period Ended December 31, 2013)
(With Comparative Budget Figures for the Month Period Ended December 31, 2013)

	CUE	RENT MO	NTH .	YEAR TO DATE		
	ACTUAL	BUDGET	OVER ((UNDER) BUDGET	ACTUAL	BUDGET	OVER ((UNDER) BUDGET
SOURCES OF WORKING CAPITAL						
OPERATIONS: NET INCOME /(LOSS) (net of RE adjustment)	(11,196,784.72)	14,644,277	(25,841,061.72)	36,665,106.27	90,598,873	(53,933,786.73)
ADD : EXPENSES NOT USING WORKING CAPITAL						
Depreciation and Amortization of Fixed Assets Amortization of Debt Discounts and Expenses Provision for Injuries and Benefits Reserve	5,849,617.42	6,104,331	(254,713.58)	63,522,902.73	73,251,972	(9,729,069.27)
Other Deferred Debits	-	-			15-17-18-1	***
TOTAL	(5,347,167.30)	20,748,608	(26,095,775.30)	100,188,009.00	163,850,845	(63,662,836.00)
LESS: INCOME NOT PROVIDING WORKING CAPITAL	*					
Gain on Sale of Fixed Assets	1-1			- ,		
TOTAL	(5,347,167.30)	20,748,608	(26,095,775.30)	100,188,009.00	163,850,845	(63,662,836.00)
Capital Contribution - GoVt			-	9		0
Customers Contribution for Service Lines				-		
Other Paid-in-Capital	40,994,730.00		40,994,730.00	43,235,426.50		43,235,426.50
Appraisal Capital					-	100000
Additional Loans Payable	(57,907,497.12)		(57,907,497.12)	(60,145,683.06)		(60, 145, 683.06)
Other Long Term Debts	(2,470,971.60)		.(2,470,971.60)	(4,941,943.21)		(4,941,943.21)
Retentions on Contract Payments				4.50		9.75
Proceeds of Sale of Fixed Assets						-
Other Deferred Credits	981,757.46		981,757.46	(1,961,880.93)		(1,961,880,93)
Other Operating Reserves		and the same				
TOTAL	(18,401,981.26)		(18,401,981,26)	(23,814,080.70)		. (23,814,080.70)
TOTAL SOURCES OF WORKING CAPITAL	(23,749,148.56)	20,748,608	(44,497,756.56)	76,373,928.30	163,850,845	(87,476,916,70)
USES OF WORKING CAPITAL						
Additions to Utility Plant (includes Unclassified Utility Plant)	(45,877,549.96)	9,737,852	(55,615,401,96)	6,696,576.68	116,854,268	(110,157,691.32)
NET INCREASE ((DECREASE) IN WORKING CAPITAL	(69,626,598.52)	11,010,756	11,117,645.40	59,677,351.62	46,996,577	22,680,774.62

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### CAGAYAN DE ORO CITY WATER DISTE SCHEDULE OF CHANGES IN WORKING CAPITAL

(For the Month Period Ended December 31, 2013)

	OURRENT MONTH			YEAR TO DATE		
	ACTUAL	BUDGET	OVER/(UNDER) BUDGET	ACTUAL	BUDGET	OVER ((UNDER) BUDGET
INCREASE /(DECREASE) IN CURRENT ASSETS						
Cash Special Deposits Working Funds Temporary Investments Accounts Receivable-Customers (NFS#8) Advances to Officers and Employees Accounts Receivable-Others Allowance for Bad Debts Materials and Supplies Prepayments Other Current Assets and Other Debits Other Deferred Debits Unamortized Debt Discount and Expenses	(9,548,420.21) 110,910.32 0.00 9.00 6,777,325.86 (116,525.94) 1.00 (241,667.00) 1,590,514.74 (3,670,236.59) 0.00 (147,299.89) 0.00	N/A	NA	(36,020,180,37) 8,901,628,37 (5,000,00) 22,583,879,00 908,374,57 (65,701,00) 9,878,95 (2,658,337,00) 9,349,208,77 (1,317,929,42) 0,00 8,769,502,99 0,00	N/A.	N/A
TOTAL	(5,245,397.71)	N/A	N/A	10,455,324.86	N/A	N/A
NCREASE ((DECREASE) IN CURRENT LIABILITIES						
Current Portion on Long Term Debts GSIS/SSS Accounts Payable Customers' Deposits Medicare Payable Interest Payable Withholding Taxes Payable Other Current and Accrued Liabilities Injuries and Benefits Reserve	55,078,256.53 23,870.73 0.00 (375.00) 0.00 1,564,546.28 7,715,002.27 0.00	N/A	N/A	24,780,866.87 6,769,494.69 0.00 2,987.50 0.00 1,231,450.39 14,085,820.77 0.00	N/A	N/A
TOTAL NET INCREASE /(DECREASE) IN WORKING CAPITAL	64,381,300.81 (69,626,698.52)	N/A	N/A N/A	46,870,620.22 (36,415,295.36)	N/A N/A	N/A N/A

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### CAGAYAN DE ORO CITY WATER DISTRICT DETAILS OF UTILITY PLANT IN SERVICE For the Month Ended December 31, 2013

(With Comparative Figures for the Period Ended December 31, 2012)

	ACTUAL THIS	MONTH	. THIS MONTH L	AST YEAR	OVER	
	AMOUNT	%YO TOTAL	AMOUNT	%TO TOTAL	(UNDER)	
UTILITY PLANT IN SERVICE : (NFS #2)						
Intangible Plant - Organization	2,106,586.48	0.11	2,106,586.48	0.12	0.00	
Land and Land Rights	36,720,154.95	1.91	36,716,654.95	2.01	3,500.00	
Structures and Improvements	20,897,375.34	1,09	20,427,475.43	1.12	469,899.91	
Spring and Tunnels	5,000.00	0.00	5,000.00	0.00	0.00	
Wells	105,015,725.55	5.45	105,015,725.55	5.74	0.00	
Structures and Improvements	67,232,684.65	3.49	67,215,561.85	3.68	17,122.80	
Power Production Equipments	35,020,122.65	1,82	23,906,765.55	1.31	11,113,357.10	
Pumping Equipments	132,495,188,19	6.88	97,225,441.25	5.32	35,269,746.94	
Water Treatment Equipments	6,305,804.35	0.33	5, 195, 906.35	0.28	1,108,898.00	
Structures and Improvements	17,463,201.01	0.91	17;456,979.01	0.95	5,222.00	
Reservoirs and Tanks	31,124,565.45	1.62	31,091,052.10	1.70	33,513.35	
Transmission and Distribution Mains	932,497,963.19	48.42	929,052,510,02	50.81	3,445,453,17	
Fire Mains	3,423.70	0.00	3,423,70	0.00	0.00	
Service Connections	216,746,628:41	11,25	207,665,114.87	11.36	9,081,513.54	
Meters	178,050,599.12	9.25	161,286,169.78	8.82	16,764,429.34	
Meter Installations	7,322,488,53	0.38	2,834,014.00	0.15	4,488,474.53	
Hydrants	6,714,114.83	0.35	6,660,830.68	0.36	53, 284, 15	
Structures and Improvements	25,855,795.38	1.34	25,165,943.15	1.38	689,852.23	
Office Furnitures and Equipments	24,576,966,65	1.28	22,522,153,22	1.23	2,054,813.43	
Transportation Equipments	32,231,737.98	1.67	25,358,837.78	1.39	6,872,900.20	
Stores Equipments	38,900.00	0.00	21,900.00	0.00	17,000.00	
Laboratory Equipments	4,812,183.28	0.25	1,449,873.55	0,08	3,362,309.62	
Communication Equipments	3,864,799 38	0.20	3,165,036.50	0.17	699,762.88	
Power Operated Equipments	22,890,275.75	1.19	22,574,348.50	1.23	315,927.25	
Tools, Shop and Garage Equipments	15,871,588.31	0.82	14,385,030.18	0.79	1,486,558.13	
Surveying instruments and Accessories	41,207.82	. 0.00	41,207.82	0.00	0.00	
OTAL UTILITY PLANT IN SERVICE	1,925,905,080.95	100.00	1,828,550,542.38	100.00	97,354,538.57	

### CAGAYAN DE ORO CITY WATER DISTRICT NOTES TO FINANCIAL STATEMENTS December 31, 2013

### 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

1.1 Basis of Financial Statements

The financial statements have been prepared in accordance with generally accepted accounting principles applied on a consistent basis.

The chart of accounts provided for in Local Water Utilities Administration's Commercial Practices Manual for Water Districts is used in the recording of the District's financial transactions and presentation of the financial statements

1.2 Allowance for Bad Debts

Provision for Allowance for Bad Debts is based on 2013 approved budget. Annual Allowance for Bad Debt totaled P2,900,004.00 with an average monthly allowance of P241,667.00.

1.3 Prepaid Expenses

The District adopts the asset method in recording payment for insurance, and vehicle registration which are amortized monthly throughout the period of coverage.

1.4 Materials and Supplies

The District uses the asset method in recording materials and supplies. Expense is recognized upon Issuance of the items stored in stocks.

1.5 Cost of Land

ώ

Direct cost of land acquired and other incidental expenses are capitalized as part of the cost of land.

1.6 Property and Equipment

Utilities plant in service are carried at cost less accumulated depreciation. Depreciation is computed using the straight-line method over the estimated useful lives of the properties ranging from 5 to 50 years after deducting the residual value which is 10% of the original cost of the asset from the total cost of the asset.

The cost of maintenance and minor repairs is charged to expense as incurred, while major repairs, which prolong the life of the assets are capitalized. When assets are retired or otherwise disposed of the cost and related accumulated depreciation and amortization are removed from the accounts and any resulting gain or loss is charged to current operation.

1.7 Revenue Recognition

Revenues are recorded using the accrual basis of accounting

2. UTILITY PLANT IN SERVICE

Items under the Utility Plant in Service are stated at cost.

The breakdown of this account is shown below.

	2013	2012
intangible Plant	2,105,586.48	2,106,696.48
Land and Land Rights	35,720,154.95	30,710,054.95
Source of Supply Plant	125,918,100.89	125,448,200.98
Fumping Plant	234,747,995,49	188,347,768.65
Water Tradment Plant	6,305.804.35	5,196,906.35
Transmission & Distribution Mains	1,399,922,984.24	1,358,050,094.18
General Plant	130,163,454.55	114,664,330,81
00/10/217 (8)1		
Total	1.925,905,080.95	1,828,550,542.38

Construction Work in Progress includes all on going construction for utility plant which are not ready for use at balance sheet date.

The account consist of the following:

2013	2012
6,100.00	6,100.00
6,482,231.54	2,928,309.52
26,667.16	87,762.20
8,514,998.70	3,022,171.72
6,343,973.69	5,417,833,67
2,875,454.01	42,383.28
17.734.426.40	8,482,388,67
	6,100.00 8,482,231.54 26,667.16 8,514,998.70 6,343,973.60 2,875,454.01

### 4. Investment and Fund Accounts

Other Physical Property consist of land owned by the District but are not being use

### 5. Cash

Cash includes undeposited collections and deposits in banks available for general expenditures incurred in operations.

	Balance as of
Cash	12/31/13
Cash on Hand	2,889,281.68
Cash in Banks:	
PNB	420,408.28
Development Bank of the Philippines	70,977,463.46
Development Bank of the Philippines - Donations from various Water Districts (SENDONG)	653,467.65
Development Bank of the Philippines - LWUA GRANT thru Off. Of Pres.	13,123,907.31
Development Bank of the Philippines - COVID Online Collection Account	27,033,92
	146,229.13
Philippine Veterans Bank	1,409,568.31
United Coconut Planters Bank	232,403.02
Queen Bank	
Land Bank of the Philippines	193,901.60
Postal Savings Bank	221,307,41
Maybank	234,506.18
Amanah Bank	193,569.04
Total Cash in Bank	87,833,855.31
Total Cash	90,723,136,99

### DETAIL - Development Bank of the Philippines - LWUA GRANT thru Off, Of Pres.

Total Grant Less : Disbursements Add: Interest Income Less : Bank Charge CASH BALANCE, END 53,791,000,00 (40,873,049,66) 206,763,97 (807,00) 13,123,907,31

Office		Purpose	Bal. as of 12/31/2013
CEPALCO	Electric bill deposit		6,162,336.71
MORESCO	Electric bill deposit		83,775,72
MISORTEL'	Telephone deposit		51,417.00
COACO	oxygen/acetylene tank deposit		2,500,00
Mabuhay Vinyl Corp.	gas chlorne tank depent		489,000.00
City Treasurer's Office	bond of projects		1,922,868.09
Metropolitan Circuit Trial Court	bond of projects		10,000.00
DPWH R-10	bond of projects		254,495.55
Pryce Corp. Inc.	tank deposit		7,000.00
and Bank of the Philippines	general reserve		1,183,983.19
and Bank of the Philippines	guarantee depoatt		17,460.78
Development Bank of the Philippines	special deposit		26,938,812.55
Development Bank of the Philippines	guarantee deposit		2.031,934.99
Cagayan de Oro Corporation	Deposit		150,000,00
COWDA WUA JSA Reserve Fund	Reserve Fund		9,897,121.25
SOVEDICATOR GOVERNMENT TO GITO	proserve runa	Total	48, 192,695,83

### Working Fund

0

Working Fund includes Petty Cash Fund and Change Fund given to designated disbursing officers and tellers. The Petty Cash Fund is operated on an Imprest system.

#### Accounts Receivable - Customers

This account consist all amount due on open accounts arising from the services rendered to customers for water sales and incidental services.

	The second second	6.65	400TH	
A 2	e mantage		HOL	TIL
ALS D	f Dec'13:		MON	TI I

59.838.446.66 ILY BILL (net of adjustment) 2,609,693.29 PENALTY 1,113,275,77 RETURNED CHECKS & ADJUSTMENTS (56,559,758.10) COLLECTIONS (224,331,76) WATER BILL PAYMENT THRU PAYROLUPERA/BENEFITS 6,777,325.86

NET INCREASE/(DECREASE) OF AR

Add: A/R - beginning

240.097.792.49 245,875,118.35

The following are the amounts in Pesos of inactive accounts which are part of the total Accounts Receivable from Customers for the last quarter of CY 2013. (Data taken from CSD) Inactive amount is net of disconnected accounts to be writen-off Involving 4,610 concessionaires covering the period from 1986 to 1991 with a total amount of Ph3,554,406.77. The same was approved by the Board of Directors, this District, per Board Resolution No. 141 dated Dec. 20, 2000. (Refer JV 7-23-03)

Jan.	146,833,680,88	 10	Feb.	147,848,198.05		Mar.	148,640,775.57
Apr	147 779 790 11		May ·	161,539,881.26	neitro Ti	Jun.	152,099,164.64
Jul.	151,811,626.24		Aug.	151,837,629.48		Sep.	152,504;231.61
Oct	152.771.928.68	 -54	Nov.	149,528,705.83		Dec	149,504,925.34

### 9. Accounts Receivable - Others

Accounts recording a control			
This account consist of the following balances: AVR - Offcers & Employees AVR - COWD Provident Fund AVR - COWD Retirement Plan AVR - Gov't Agencies AVR - Associations	,803.13 0.00 0.00 245,322.92 1,727.05 112.053.15	A/R - Hotels A/R - Hospitals A/R - Hospitals A/R - Insurance Cos. A/R - Past BCD A/R - Subdivs. A/R - Schools	9,089.66 2,129.56 13,658.36 132,185.35 300,757.04 33,236.28
A/R - Customers A/R - Ex-employees A/R -Electric Co.	2,393,71 63,844.00	A/R-Suppliers A/R - WDs	5,155.73 86,761.53
A/R-Employees of Other WD Sub-total	1,150.00 427,293.96	A/R - Contractors A/R - Others	48,914.61
-		Total	1,059,082.08

12 500 02

#### Materials and Supplies Inventory

This account includes items stored in COWD warehouse, such as office supplies, janitorial supplies, fuel, qil & lubricants, plant materials, operating supplies, chemicals, construction materials, finished goods, tools, meters and other supplies.

### 11. Prepayments

This account consists of the following:

And the second s	0.04	MAYYU	12,000.02
Officers & Employees	414,898,25	PRPD-Obando Admo(COWDBugo)	22,000.00
Insurance Co.	D.00	PRPD-BurofTreasury(FidBond)	36,562,50
MPSC-Cowd Scholars		PRPD-Globe Telecom	0.00
	29,053.65		0.00
LTO'	3,125.02	PRPD-Malasag COOP Project	
PAWD-Annual Dues	0.00	PRPD-Normin NRMC	0.00
CDO Chamber of Commerce	0.00	PRPD-Ticket	0.00
PAWWA .	74,891.09	PRPD-Realty Tax	- 0.00
NWRB - *	0.00	PRPD-LWUA Pretermination Fee	0:00
PRPD-Advertisement	***************************************	A COMMENT OF THE PROPERTY OF T	593,030,57
Life O-Virgenierie	521,968.05	Total .	050,000,01

Sub-total ·

0

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### 12. Other Operating Reserves

This account is set up for the Expansion of Operating Reserves in the amount of P3,170,523.00, which was taken from the COWD-DEP General Fund and transferred to a new account at Postal Bank. This reserve was approved by the Board of Directors per Board Resolution No. 159, 9-03 dated Sep. 24, 2003.

On Sep. 30, 2008, the amount of P3,170,523.00 plus the accumulated interest of P755,010.49 was transferred to DBP-Corrales as holded deposit for the DBP-P502.011 Million Refinanced Loan.

### Current Portion on Long Term Debt

This account pertains to the portion of long term debts which will fall due within one year from the balance sheet date.

### Deposits by Customers

This account pertains to the deposits made by customers normally before the extension of any service connections as security for the payment of subsequent bills, or as a meter deposit.

### Other Current Liabilities

This account consists of the following:

	11,980,32
Officers & Employees	925,185.00
Legal Counsel (Notarial Fee)	.702,940.09
COWD Coop	31,040.66
COWD Provident Fund	386,279.19
PAGIBIG ·	16,385,262.38
Suppliers	0.44
Insurance Companies	21,374.00
Associations	19,971.68
Hospitals ·	8.456.151.76
CEPALCO/MORESCO	8,853,015.00
Various Payables	4,575.35
Refunds	6.301,627.73
Retention on contract payments .	0.00
LWUA-interest on Long-term debt	961,465,46
OCAL-Sendong	43,060,869.06
Total	-

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牃	フィリビン国 地方都市水道整備事業(Ⅲ//カカヤン・デ・オロ水道区)」に係る援助効果促進調査
業務報告書	₽
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Loans Payable     This account consist of the following is:	Jan 15 grant avenue				CARR TENTAL			1.0	Balance as of
	Year	Lender	Interest	Maturity		Recovered Period (years)	Principal	Repayments	12/31/13
Al Title	Contracted	Institution	Rate %	Date	The state of the s	26,00	6,000,000.00	4,202,206.21	787,793.76
08 Phase II - A Prod. Wolls	10/1/1983.					26.00	95,079,394.29	34,993,740.83	00,085,053,44
of Phase 14 B Project - Schedules A, B & C	2/11/1988	LWUA	13		The second secon	26.00	520,128,000.00		
74 Phase III - 520 128M	5/30/1996	LWUA	13	% 9/30/2031	10/3 1/2000	20.00	(9,334,840.00)		
Less Payment as of 09/2009	44.7	8 8					510,703,160.00		
Balance							(290,118,104.00)		
Less Amount refinanced by DBP				0/00/2021	9/30/2008	23.08	Z14,675,056.00	4.1	- 1 ·
Loan Amount - Phase 3 214 6M			13	% 9/30/2031	3/30/2000	20,00	(10.144,575.00)	Ye - Mile To you a	
Less: Payments as of April 2013				<u> </u>			204,530,481,00	No.	7
Balance			1		1 12		(183,623,730.10)		
Less: Amount-refinanced by DSP		100					20,906,750.90	419,205.00	20,487,485.90
Balance for amortization							197,121,000.00		
84 Phase 3 - 191.121 M	7/5/2005	LVVUA	13	%6			(2.320.113.00)		1
Less Payment as of 08/2006			The same of the sa				188,800,897.00		
Balance						1 1	(188,800,867.00)		
Less: Amount refinence by DBP				<u> </u>			4	7	
Balance				12/24/2020	1/31/2007	20,00	100,000,000.00	1	
23Phace III - 200M	8/31/2006	LWUA .	12.5%	12/31/2020	05//2007	20.00	. 100,000,000,00		
		1111	13.5%				200,000,000,00		
Total	100						(20,679,963,00)		
Less: Payments as of April 2013							179,321,147.00		
Balance							(179,321,147.00)	4	
Less; Amount refinance by DBP				-	5.0		0.00	0.00	0.00
Batance			7 600	11/30/2016	12/31/2011	5.00	4,108,071.24	1,527,510.00	2,580,561.2
29 Youngsville WSS-4 (08M	2/3/2009	LWUA	7.5%	11/30/2013	120104911		418,862,624.63	41,142,722.06	83,951,494.3
Total - LWUA LOANS	- * * * * * * * * * * * * * * * * * * *	-		9/30/2023	10/30/2008	15.00	502,011,668.62	106,338,869.89	395,672,798.7
11 502.011 M Refinanced Loan	9/30/2008		9.0			15.00	370,203,774.64	14,396,813.48	
370.203M Refinance Loan	5/30/2013	DBP	7.6%	5/30/2028	5/30/2013	10.00	375,203,774.0-7	14,057,010.10	
				***************************************			1,281,077,964.79	161,976,405.43	835,431,254,26
Total - LWUA & DBP								57,559.	
1 15-50	-					Less: Gurrent Portion Total Long-term Liab		777,871	

SUMMARY: I. LWUA g-057 Phase II - A Prod. Wells 1-051 Phase II - 520.128M 4-231 Phase III - 200M 4-254 Youngsville WSS 4.108M TOTAL LWUA	<b>₿&amp;</b> C				Acct 211 Long-term Loans 404,985.79 55,328,885.88 20,148,260.90 0.00 1,758,420.24 77,640,552,81	Acct.225 Current Portion 392,808.00 4,756,767.56 339,225.00 0.00 822,141.00 6,310,941.56	Total Loans 797,793,79 60,085,653,44 20,487,485,90 0,00 2,580,561,24 83,951,484,37
ti. DBP 2008-502.011M Refinanced Loan 2013-370.203M Refinanced Loan					369,104,131.69 331,126,709.48 700,230,841.17	26,568,667.04 24,680,251.68 <b>51,248,918.7</b> 2	395,672,798.73 355,806,961.16 751,479,759.89
			GRAND TOTAL		777,871,393.98	57,559,880,28	835,431,254.28
The amount of Php602,011,668.662 was cr LAN- 1-051	as of Aug. 2008 79,122,331.80	commonwealth brai Application of the 50% loan outstanding	nch saving accour	nt no. 511357455-9 on Total Refinanced Amount	September 30, 2008 and Outstanding Balance	d was applied as follow	•
1-057 3-747 3-840 4-2317 OAB TOTAL	2,440,640.00 5,10,793,160.00 188,800,887.00 196,075,261.00 7,394,297.80 984,626,577.60	296,118,104.00 188,800,887.00 7,394,297.80 462,313,288.80	5,922,362.68 3,776,017.74 9,698,379.82	302,040,466.08 192,576,904.74 7,394,297.80 502,011,668.62	214,675,056.00		

The amount of Php370,203,774.64 was LAN	Loan Outstanding as of Apr. 2013	Application of the 80% loan outstanding	Fee Fee	Total Refinanced Amount		
1-051	63,500,316.61	y accuracy g	-			
1-057	1,020,592.00		Service man			
3-747	204,530,481,00	183,623,730.10	3,572,474.60	187,296,204.70		
4-2317	179,321,147.00	179,321,147.00	3,586,422,94	182,907,569,94		
4-2547	3,095,481.24					
TOTAL	451,468,017.85	362,844,877.10	7,258,897.54	370,203,774.64		
The pretermination fees charged by LW	UA and the front-end fees/o	focumentary stamp	ps charged by DBP	are being amortized to	or 15 years as follows:	Per Annum Per Month
	2% Preterm Fee LWUA	Front-end fee/ Doc stamp DBP	Start of Amort	No. of years	Total Amount	
502.011M Refinance Loan 370.203M Refinance Loan	9,698,379.82 7,258,897.54	6,651,665.27 2,905,039.00		15.00 15.00	16,350,046.09 10,163,936.54	1,090,003.01 90,833 677,595.77 56,468
<ol> <li>Other Long Term Debt-Johndorf Per Board Resolution No. 153 S-10 of that Johndorf will be reimbursed of the</li> </ol>	tated November 10, 2010 v he actual expenses incurre	d to interconnect h	Memorandum of Ag Pag-liblg Citi Homes	reement (MOA) between the COWD's Main V	en COWD and Johndo Vater Supply Pipe and	rf Ventures Corporation, such is payable with
three (3) years on a quarterly basis.	The computation is as follo	ws:				
Actual amount for the contract Less: Deductions		P	8,328,262.10			
. Water Payments	Collected		(828, 374.28)			
Cost of Seepage	per MOA		(86,973.00)			
Net Payable to Johndorf Venture	S		7,412,914.82			
Divide: Payment Period	e/		12			
Quarterly Payment to Johndorf		P	- 617,747.90			
4						
Principal Amount		p	7.412.914.82			
Less: Payments (Jan. 2012-Dec.	2013)		(4,941,943.20)			
Balance as of December 31, 2		P	2,470,971.62			
440,034,034,034,034,034						
18. Government Contributions Capital Contibution - Government	consist of					
A City Government						244444
1. Fixed Assets turned over by th	e City Gov't to WD on Dec.	31, 1973 , net of	P1,035,562.30			544,711.22
Less: Land reverted to donors	(JV 12-60-05)					(18,900.00)
<ol><li>A/R -Gustamers turned over or</li></ol>	Dec. 31, 1973					167,199.08 28,419.94
WELLES CHINESCHOLD INTHAN CARL DE						721,430.24
<ol><li>Cost of Cogon Market Pipeline</li></ol>						121,400.24
<ol> <li>Cost of Cogon Market Pipeline</li> <li>Sub-total</li> </ol>						A AE ANE AE
Cost of Cogon Market Pipeline     Sub-total     USAID Grant	C.Akmin					
Cost of Cogon Market Pipeline     Sub-total     USAID Grant     Regional Water Supply Training     Total	& Library.					145,495.16 856,925.40
Cost of Cogon Market Pipeline     Sub-total     USAID Grant     Regional Water Supply Training     Total     Other Paid In Capital						
Cost of Cogon Market Pipeline     Sub-total     USAID Grant     Regional Water Supply Training     Total      Other Paid in Capital     This account consist of donated capit						866,925.40
3. Cost of Cogon Market Pipeline     Sub-total     LISAID Grant     Regional Water Supply Training     Total      Other Paid In Capital     This account coneist of denated capit     Laboratory Equipments	tal for the following:					856,925.40 102,504,19
Cost of Cogon Market Pipeline     Sub-total     USAID Grant     Regional Water Supply Training     Total     Other Paid In Capital     This account coneist of donated capit     Laboratory Equipments     Transmission and Distribution Ma	tal for the following:					866,925.40
3. Cost of Cogon Market Pipeline     Sub-total     B. USAID Grant     Regional Water Supply Training     Total      Other Paid In Capital     This account consist of donated capit     Laboratory Equipments     Transmission and Distribution Ma     Office Furnitures & Fectures	tal for the following:					102,504,19 42,631,006.51
3. Cost of Cogon Market Pipeline     Sub-total     B. USAID Grant     Regional Water Supply Training     Total  19. Other Paid In Capital     This account consist of donated capit     Laboratory Equipments     Transmission and Distribution Ma     Office Furnitures & Fetures     Distribution Lines	tal for the following:					102,504,19 42,631,005.51 66,950.00
3. Cost of Cogon Market Pipeline Sub-total B. USAID Grant Regional Water Supply Training Total  15. Other Paid In Capital This account coneist of donated capit Laboratory Equipments Transmission and Distribution Ma Office Furnitures & Figures Distribution Lines Fire Hyrants	tal for the following:					102,504,19 42,631,006.51 66,980.00 843,073.25
3. Cost of Cogon Market Pipeline Sub-total B. USAID Grant Regional Water Supply Training Total  7. Other Paid In Capital This account consist of donated capit Laboratory Equipments Transmission and Distribution Ma Office Furnitures & Fetures Distribution Lines Fire Hyrants M.STB-iponan, Westfield Home	tal for the following:					866,926.40 102,504,19 42,631,006.51 66,980.00 843,073.25 2,622,454.26 941,247.09 12,626,981.13
3. Cost of Cogon Market Pipeline     Sub-total     B. USAID Grant     Regional Water Supply Training     Total      Other Paid in Capital     This account consist of donated capit     Laboratory Equipments     Transmission and Distribution Ma     Office Furnitures & Figures     Distribution Lines     Fire Hyrants     M.STE-Iponan, Westfield Home     URIS(by LWUA Sendong Grant)	tal for the following:					856,925.40 102,504,19 42,631,005.51 66,950.00 843,073.25 2,622,454.25 941,247.09 12,626,981,13 40,994,736.00
3. Cost of Cogon Market Pipeline Sub-total B. USAID Grant Regional Water Supply Training Total  7. Other Paid In Capital This account consist of donated capit Laboratory Equipments Transmission and Distribution Ma Office Furnitures & Fetures Distribution Lines Fire Hyrants M.STB-iponan, Westfield Home	tal for the following:					102,504,19 102,504,19 42,631,006.51 66,980.00 843,073.25 2,622,454.25 941,247.09

フィリピン国「地方都市水道整備事業(皿)(カガヤン・デ・オロ水道区)」に係る援助効果促進調査 業務報告書

The total amount of P28,442,834.00 was taken up representing under valuation of land and land rights and booked up per JV 11-36-96 and JV12-51-96. The amount of P177,600.00 representing appraisal cost of land reverted to donors per JV 12-20-05. Breakdown of parcels of land-and its corresponding appraisal cost are as follows:

Location -	Area sq.m.	Appraisal Cost
Aluba Reservoir	1441	386,057,50
Balulang PW No. 14	300	42,325.00
Balulang PW No. 4	200	. 20,000.00
Balundis PW No. 17	300	90,000.00
	400	103,127,25
Bantiles, Bugo PW No. 11 Bentola PW No. 2	600	220,000,00
Bontola Reservoir	2784	395,232.00
	482	96,400,00
Bugo, Reyes PW No.5	420	37,800.00
Bugo Reservoir	150	.21,000.00
Bugo PW No. 6	1409	650,008.18
Calaanan PW No. 10	400	165,010.00
Calaanan PW No. 12	400	167,780.00
Calaanan PW No. 15		172,000.00
Calaanan	396	187.844.37
Camaman-an Reservoir	2698	
Carmen,	120	93,600.00
Carmen Reservoir	3600	879,650.00
Corrales Ave., Main Bldg.	991	9,806,307.00
Gaston Park	281	269,760.00
Greehills Reservoir	420	262,000.00
Gusa	490	161,700.00
Kauswagan Shop Bldg.	4789	6,055,985.00
Macasandig Booster Pump	750	810,000.00
Macasandig PW No. 1 Operation Bldg.	1620	2,218,600.00
Macasandig PW No. 4	116	115,416.00
Macasandig PW No. 7	1200	540,000.00
Macasandig PW No. 8	432	140,560.00
Macasandig -	252	. 70.18
Macasandia PW No. 3 & 3A	254 -	189,616.56
Macasandig ·	348	156,600.00
Macasandig PVV No. 9	7743	3,677,925,00
Macasandid Old Pump.	218	320,460.00
Total		28,442,834.04
Land reverted to donor	-150	(21,008.00)
Land reverted to donor	348	(156,600.00)
Balance as of 012/31/2012	<u>                                    </u>	28,265,234.04

### 21. Major Commitments Made in CY 2004

50 / S x 3

A Bulk Water Supply Agreement (BWSA) was enterd between Cagayan de Oro City Water District (COWD) and Rio Verde Water Consortium, Inc. with conforme by LWUA on Dec. 23, 2004.

The BWSA was covered with a supplemental agreement on Jan. 21, 2005. The amended agreement stipulated that Rio Verde will supply treated bulk water to COWD, and the latter in turn guaranteed to purchase at least Forty Thousand (40,000) cubic meters per day of the said treated bulk water throughout the Contract Period of 25 years to start on CY 2007

2	Taxes Claimed by the B	ureau of Internal F	Revenues Reve.	Reg. No. 16
			A CONTRACTOR OF THE PARTY OF TH	CANADA TO THE REAL PROPERTY.

, or many resonant	Basic		Penalty	flowing taxes are being claimed by BIR co	Total	
Income ·	- WANTE	96,816,603,38	. 150.587.525.05			247,404,128.43
Franchise	(I) Ay 11	36,090,527.28				89,848,830.40
and a second second					-0	3,697,954,74
3 VAT		1,430,967.06	2,266,987.68			-

134,335,097.72 200,610,815.85 Total BIR RR-10 sent a notice dated 02/28/07 informing the District to settle the said tax liability within 10 days from receipt and to avail the One Time Administrative Abatement until 03/30/07

A meeting with the BIR resulted to a compromise agreement that the District will only pay the 2007 franchise tax while the assessment is still under

appeal with the DOJ.
On 04/03/07, the BIR ordered the garnishment of the District Funds from it depository banks. The garnishment was litted on 04/25/07. The District paid the basic franchise tax for:

paid the basic franchi	se tax for:			128			-	2008		
1997-2003	A desar DODA OCCOS des	OF NO OT			87;586.20		Jan - Mar			2,835,518,96
EPCIB garnishe	ed deposit - ROR# 26606 dto	1. 00-02-07			17,235.80		Apr.			953,408.87
	mished deposit dtd. 05-03-0				12,000,000.00		Ma.			940,211.57
CV#05-55 dtd 0					5,000,000.00		Jun.			984,563.83
CV#06-254 dtd				1 41	2,000,000.00		Jul.			950,465.26
CV#07-156 dtd				0.			Aug.			981,252,18
CV#07-256 dtd	07-31-07				3,000,000.00					974,306.51
CV#07-259 dtd	07-31-07				2,000,000.00		Sept.			000 000 07
CV#09-61 dtd	09-07-07				2,500,000.00		Oct			960,698.27
CV#11-229 dtd	11-29-07				500,000.00		Nov.			992,234.66
Year 2011 (Acc	umulated)				8,985,705.28		Dec.		in the same of the	983,441.43
Total					36,090,527.28				Total	11,556,101.54
and the second s	ance as of 12/31/2011				0.00		Less Witt	held Taxes		88,297.24
					6,063,622.84		Net Tax F	ald		11,467,604.30
2004 Total Payable -	JAM08-099-11			4	× 1 - 1 - 1			F		
Payments:	7.00.2 10.0			0.00	5,053,522.84			2012		
Year 2012 (Acc					0.00			2012		
Remaining Bala	ance			-			day.		602,585.94	
2005 Total Payable -	JV#06-033-11				6,562,738.30		Jan_			
Payments:					Same to		Feb.		938,409.08	
Year 2012 (Acc	umulated)				6,562,738.30		Mar		1,750,550.05	
Remaining Bala					0.00		Apr		964,516.31	
2006	200				9,794,937.43		Ma.		964,516.31	
zoud							Jun		1,023,689.60	
							Jul		804,413,76	
							Aug		660,059.65	
							Sep		889,855.47	
575		2232			2011		Oct		933,573,66	
2009		2010	4 047 270 96	· law	2011	1,075,089.41			857,929.25	
Jan.	981,355,84	Jan.	1,017,870.86	Jan.					761,167.42	
Feb.	961,422.15	Feb.	990,648.25	Feb.		961,556.32	Dec			
Mar	966,991.06	Mar	993,568.22	Mar		1,014,005.93			11,151,266.50	dia i
Apr	1,036,887.42	Apr	1,083,732.96	Apr		1,011,284.99				
Ma.	1,010,809.94	Ma.	986,118.35	Mu.		1,033,684.76		4		
Jun	1,004,488.87	Jun-	1,032,311.43	Jun		1,069,739.96	no. +	2013		
Jul	987,837.71	Jul	1,041,104.73	Jul		1,055,174,97	Jan.		911,758.35	
	1,038,028.80	Aug	1,060,164.68	- Aug		1,081,839.83	Feb.		904,736.83	
Aug	1,033,455.70	Sep	1,042,640.32	Sep		1,060,272,80			849,446.65	
Sep		Oct	1,035,156.92	Oct		1,300,033.18			864,433,06	
Oct	1,000,908.05		995.903.77	Nov		1,299,404,29			1,035,896,77	
Nov	1,006,582.13	Nov	1,047,699.48	Dec		835,825.78			977, 193.73	
Dec	1,005,987.60	Dec	1,047,000.40	Dec		000,020.10	Jul		1,015,110.74	
) I		200	40 000 040 07		-	12,798,812.22			1,050,631,27	
Total	12,034,755,27	Total	12,326,919.97	-	-					
ess Withheld	32,515.13		39.947.47	Less Withe	Control of the Contro	100,202.65			1.047,107.46	
let Tax Paid	12,002,240.14	- 1	12,286,972,50	Net Tax P	-aki	12,698,609.57			997,278.11	
		4-				14	Nov		1,030,288,29	
		14.31					Dec		1,067,932,47	
N 10	- W						MOL	-	11,751,813.73	4

フィリピン国「地方都市水道整備事業(皿\\カガヤン・デ・オロ水道区)」に係る援助効果促進調査 業務報告書

It has come to the attention of management that there have been substantial differences in the payments made to Rio Verde Water Consortium between the delivered bulk water supply and the purchase order in terms of cubic meters from the month of Jan. 2007 to Jul. 2007. Since then, starting in the month of Aug., the COWD has only made actual payments based on the purchase order in accordance with the contract with Rio Verde, Nevertheless, management has yet to settle with Rio Verde Water Consortium concerning the excess payments made to Rio Verde

\* March: 2013 - Bulk water supply registered in the monthly consumption report is only 1,072,399 due to cut-off on March 27, 2013. Total Cu.m. of 1,217,770 is total supply as of March 31, 2013.

from Jan. to Aug. 2007.

- NO	Pesos	cu.m.	gu.m.	du.m.
76	Paid	per P.O.	Delivered	Paid(per 40,000 req)
Jan.	12,736,773.50	1,240,000.00	1,247,400.00	1,218,830.00
Feb.	11,534,501.00	1,120,000.00	1,119,490.00	1,103,780.00
Mar	12,608,029,50	1,240,000.00	. 1,217,770.00	1,206,510,00
Apr	11,872,663.00	1,200,000.00	1,151,140.00	1,136,140.00
May.	12,622,659.50	1,253,200.00	1,248,220.00	1,207,910.00
Jun	13,986,384.50	1,341,600.00	1,378,340.00	1,338,410.00
Jul	12,935,532.50	1,240,000.00	1,262,100.00	1,237,850.00
Aug	12,949,117.50	1,240,000.00	1,262,900.00	1,239,150.00
. Šep	12,417,317.00	1,200,000.00	1,218,040.00	1,186,260.00
Oct	12.693.719.50	1,240,000.00	1,245,950,00	1,214,710.00
Nov	12,527,460.00	1,200,000.00	1,214,300.00	1,198,800.00
Dec	12,931,143.50	1,240,000.00	1,265,070.00	1,237,430.00
Totals	151,815,301.00	14,754,800.00	14,820,720.00	14,527,780.00

3.00

52,791,000.00

1,000,000.00 53,781,000.00

	who of this account are the following:  Visayan Surety Injunction Bond  DBP Pretermination Fees  DBP Pretermination Fees (2013)  Land Tranfer Cost Deferred Costing  Non-moving Items for disposal  DEFDR-Johndorf/Citinomes  DEFDR-COWD Healthcare Program  Total  Amortization  LWUA Pretermination fee 2013 (10,163,936.54 for 15 years)	400,407.96 16,350,044.43 10,163,936.54 .193,658.66 239,500,20 0.00 2,259,655.00 29,606,602.69 5,722,516.54 -395,264.17	(see NFS# 15) (see NFS# 16)	
	Balance	23,488,822,98 Amount	Amort Period	
Dufaranca	Date Porticulars	Actionic	MATION A CHINCA	_

Reference Date	Particulars	Amount	Amon Fanog	Annual	F'er Mo.
WUA QAB#10	10/3/2008 Preterm, Fee of Accounts refinanced by DBP: LA 3-747 (296118104*2%) LA 3-840 (188800867*2%) Total - LWUA **	6,022,362.08 3,776,017.74 9,698,379.82	15.00	645,558.65	53,879,89
Disclosure Stati	9/30/2008 Front-end fee( 0625%)	3,137,572.93	*		
n Loan/Credit	Doc/science stamps	2,510,059.00			
rensaction	Total	6,647,631.93			
postamp	11/5/2008 DocStamps on Mortgage contract	1,004,033.34			
eclaration/Return re:Mort	gage Contract	×			
CV No. 10-052	10/30/2008 Total-OBP	6,651,665.27	15.00	443,444.35	36,953.70
	Grand Total - LWUA/DEP	18,350,045.09	v		4
	Total per Annum Total per Month	4	No. 18 about	1,090,003.01 90,833.58	90,833.58

Oct-Dec. 2008 The DBP Pretermination Fees are being amortized over fifteen years starting Oct. 2008.

# 25. Additional items included in the total amount of Other Deferred Credits

Other Deferred Credit account includes the following: LWUA Grant from Office of the President (chk#LBP 310) - COWD-OR# 3542064 dated 1/4/12 LWUA Grant from Speaker Belmonte - (chk# LBP 319) - COWD-OR# 3534291 dated 1/24/12

This amount is reserved for the rehabitation of COWD's properties damaged by typhoon Sendong.

Aside from the principal and interest amortization, the DBP payment includes the following:

a. Gross receipts tax computed at 1% of amortized interest due for the month; and

p. As of May 31, 2013, DBP has waived the additional 1% interest rate per annum on unmatured principal for non-compliance of 2% NRW reduction, which was imposed last March 31, 2010.

27. Typhoon Sendong - Effect on the Operations of COWD

The typhoon Sendong has caused major damage to our production facilities and service connection lines that would cost us Php 157 million, more or less, to rehabilitiate. Moreover, about 16,330 connections are estimated to have been damaged or washed out during the typhoon. About Php 25.5 million of the expected revenues for December 2011 was determined uncollectible as these were unread and unbilled consumptions of the service connections in the most badly affected parts of the City. Also, bigger portion of this amount may remain unbilled until service lines and water meters shall have been completely restored. Due to the vastness of the areas affected, it will take time until we shall be able to completely rehabilitiate and restore service connection lines. Moreover, almost all of our UPIS like office furniture and equipments, tools, water treatment equipments etc. which are identified as severly damaged are now reflected per account number 103-Unclassified Utility Plant. The list of damaged UPIS has been submitted to COA to Request for the Relief of Accountability per COA Circular No. 92-385.

28. Humanitarian Donation of the Government of Switzerland to COWD

As part of the relief operation for the Victims of the Typhoon Sendong, the Government of Switzerland, thru its Swiss Humanitarian Aid (SHA) donated the following Equipments to Cagayan de Oro City Water District with a total amount of Php 2,092,735.60 (CHF 44,647 X Php 46.87295 per CHF to Php exchange rate dtd. 1/30/2012) per Memorandum of Agreement & Letter of Donation between the COVID and the Swiss Humanitarian Aid of the Swiss Confederation dtd. June 1, 2012 and GM Memorandum 15, s-2012.

2 Bladders 5,000 litres with drinking water distribution stand

1 Bladders 10,000 litres with drinking water distribution stand

1 water laboratory

1 well cleaning set

2.tool kit

0

i repair kit for drinking water distribution stand

18 WATASOL

29. Establishment of Other-Deferred Debits-Non-moving Items for Disposal

As of May 2012 COWD has established a total of P239,510.20 corresponding to non-moving items for disposal. This is shown under account number 146-09. The Committee on Disposal conducted a Pre-Bidding Conference last December 26, 2013 @ COWD Social Hall.

30. Establishment of additional departments

CDWD, based on its new recategorization as Very Large Water District under Category A, has added two (2) new departments in its 2013 approved budget namely: 791-Office of the General Manager & 792-Office of the Board of Directors. Previously these were under Management Department budget.

31. GSIS Pavable-Premium Deficiency (ER) under MOA signed on October 31, 2013

Approved per Board Resolution Nos. 101, S-12 and 061, S-13, (Annex "A") dated September 25, 2012 and July 15, 2013 respectively the Memorandum of Agreement (MOA) between COWD and GSIS for the settlement of unpaid premiums and interest for the period covered June 1978 to March 1992 with the net total obligation of P 6,410,706.93 and such is payable within a period of skdy (60) months. with interest rate of twelve percent (12%) per annum on a diminishing balance.

32 Adaption and Implementation of 30% Water Rate Adjustment in 3 Tranches,

BOD Resolution No. 086, s-13 dated October 2, 2013 approved the Adaption and Implementation of the New Water Rates of GOWD in 3 tranches. In pursuant to it, GM Memorandum-255, s-2013 dated October 10, 2013 hereby directed the implementation of the said water rate adjustment.

Effectivity:

November 01, 2013 1st 10% increase 2nd 10% increase February 01, 2014 May 01, 2014 3rd 10% increase

Effectivity shall apply to the consumption month, therefore billing shall commence December 01, 2013, March 01, 2014 and June 01, 2014, respectively.

Annex G

# CAGAYAN DE ORO CITY WATER DISTRICT

Corrales Avenue, Cagayan de Oro City

# SUMMARY OF LOAN PAYMENTS TO LWUA AND DBP For the Year 2013

PERIOD		LWU	A		DBP	GRAND		
COVERED	O.R. No.	Date	Amount	O.R. No.	Date	Amount	TOTAL	
January	273389	01/31/13	5,865,820.00	55716	01/30/13	5,453,323.18	11,319,143.18	
February	274069	02/28/13	5,865,820.00	57253	02/28/13	5,428,427.77	11,294,247.77	
March	274701	03/27/13	5,865,820.00	58693	03/26/13	5,438,408.86	11,304,228.86	
April	275464	04/30/13	5,865,820.00	60439	04/29/13	5,448,268.62	11,314,088.62	
May	276086	05/30/13	5,865,820.00	62015	05/30/13	5,435,111.13	11,300,931.13	
June	276290	06/05/13	2,398,520.40	63447	06/28/13	9,571,158.01	11,969,678.41	
DBP Credit Advice	276292	06/05/13	370,203,774.64				370,203,774.64	
July	277596	07/22/13	1,394,362.00	64935	07/30/13	9,479,978.19	10,874,340.19	
August	278262	08/19/13	1,394,362.00	66522	08/23/13	9,544,238.25	10,938,600.25	
September	278784	09/27/13	1,394,362.00	68052	09/30/13	9,530,778.37	10,925,140.37	
October	279592	10/31/13	1,394,362.00	69377	10/30/13	9,440,901.12	10,835,263.12	
November	280222	11/29/13	753,917.00	70970	11/28/13	9,533,858.62	10,287,775.62	
December	280726	12/26/13	1,394,362.00	72451	12/26/13	9,414,849.75	10,809,211.75	
TOTAL LOAN PAYI	MENTS		409,657,122.04			93,719,301.87	503,376,423.91	

Source: 2013 Loan Payments Schedule (Finance Dept.)

### Note:

The increase in June was due LWUA Loan Refinancing of Php 370,203,774.64.

Annex J

### CAGAYAN DE ORO CITY WATER DISTRICT

Corrales Avenue, Cagayan de Oro City

# SUMMARY OF WATER PRODUCTION AND CONSUMPTION

For the Year Ended December 31, 2013

	PRODUCTION		CONSUMPTION	FLUSHING/	UNACCOUNTED		
MONTH	(Booster/Pumps)	(Bulk Supply)	(Metered/Averaged)	OTHERS	WAT	SAME REPORTED FOR	
	(in cu m )	(in cu. m.)	(in cu. m.)	(in-cu, in.)	(in cu in )	. (%)	
January	3,469,456	1,247,400	2,062,180	92,597	2,562,079	54.32%	
February	3,199,460	1,119,490	2,040,712	76,414	2,201,824	50.98%	
March	3,167,479	1,072,390	1,865,231	81,708	2,292,930	54.08%	
April	3,701,744	1,255,640	2,216,049	67,494	2,673,841	53.94%	
May	3,475,518	1,249,770	2,156,067	52,082	2,517,139	53.27%	
June	3,317,700	1,335,380	2,082,836	50,744	2,519,500	54.15%	
July	3,832,506	1,303,960	2,120,141	95,924	2,920,401	56.86%	
August	3,576,521	1,262,190	2,208,312	63,198	2,567,201	53.06%	
September	3,422,633	1,178,440	2,129,321	79,378	2,392,374	52.00%	
October	3,740,335	1,285,090	2,219,252	77,771	2,728,402	54,29%	
November	3,685,494	1,215,340	2,203,015	76,412	2,621,407	53.49%	
December	3,786,887	1,255,410	2,059,561	59,693	2,923,043	57.97%	
TOTAL	42,375,733	14,780,500	25,362,677	873,414	30,920,142	-54.10%	
MONTHLY AVE.	3,531,311	1,231,708	2,113,556	72,785	2,576,678	i k t.	

Source: 2013 Monthly Operation Report (Commercial Dept.).

### Note:

- 1. Production = Booster/Pumps Supply + Bulk Water Supply
- 2. Consumption = Metered + Averaged (Billed)
- 3. Unaccounted for Water = Production (Consumption + Mainline Flushing & Others)

Annex K

### COWD WATER SOURCES As of December 2013

	SOURCE	Company of the second	LOCATION	DISCHA		MOTOR	STANDBY
- 11	DENTIFICAT	ION .		lps	(gpm)	SIZE	POWER
Δ	Deep Well	Source					5 H 34 80 H 20 10 10 10 10 10 10 10 10 10 10 10 10 10
	PW No.	1	Macasandig	111 (	1,767	125 hp	Genset 1 (G1)
-	PW No.	2	Macasandig	61 (	901 )	100 hp	250hp Angle Drive
7	PW No.	3 A	Macasandig	19 (	304 )	100 hp	219 kva Genset
3	PW No.	4	Macasandig	72 (	1,135 )	75 hp	219 kva Genset
	PW No.	5	Bugo	26 (	407 )	40 hp	75 kva Genset
1.3	PW No.	6	Bugo	- (	- 1		Standby for Rehab
	PW No.	7	Macasandig	57 (	905 )	75 hp	219 kva Genset
	PW No.	8	Macasandig	53 (	844 )	60 hp	250 kva Genset
	PW No.	9	Macasandig	118 (	1,863 )	125 hp	218 kva Genset
2	PW No.	10	Calaanan	12 (	190 )	40 hp	75 kva Genset
	PW No.	11	Bugo	110 (	1,751 )	100 hp	288 kva Genset
	PW No.	12	Calaanan	- (	- 1	3 W. S. Joseph	Standby for Rehab
	PW No.	-14	Balulang	66 (	1,040 )	125 hp	219 kva Genset
	PW No.	15	Calaanan	- (	- 1	60	132 kva Genset
	PW No.	16	Tomas Saco	69 (	1,100 )	60 hp	175 kva Genset
	PW No.	17	Balulang	28 (	439 )	60 hp	167 kva Genset
	PW No.	18	Pueblo	17 (	273 )	60 hp	219 kva Mobile
	PW No.	19	Balulang	77 (	1,223 )	100 hp	165 kva Genset
	PW No.	20	Bugo	42 (	672 )	20 hp	500kva Genset
	PW No.	21	Bugo	79 (	1,248 )	50 hp	156 kva Genset
	PW No.	22	Bugo	66 (	1,040 )	50 hp	156 kva Genset
	PW No.	23	Agusan	84 (	1,329 )	150 hp	313 kya Genset
	PW No.	24	Balulang	32 (	515 )	25 hp	None
	PW No.	25	Balulang	74 (	1,176 )	75 hp	165 kva Genset
	PW No.	26	Balulang	24 (	380 )	60 hp	165 kva Genset
	PW No.	27	Balulang	41 (	654 )	60 hp	132 kva Genset
	PW No.	28	Tablon	66 (	1,042 )	125 hp	250 kva Genset
	PW No.	29	Tablon	59 (	937 )	125 hp	250 kva Genset
-	4.7.7.4		Varefelt			CEST 016	See Die Aditie
B.			Common -	2 2	627		
	Malasag S	pring	Cugman	2 (	30)	PROTECTION OF THE PROPERTY AND ADDRESS.	The same to be not compare their national decreases the same of th
	TOTAL"			1,462 (	23,165 )		
C	Booster P	umps		- 1			
٠.			Magazandia	0 (	0)	_100 hp	
	BP No.	2	Macasandig	100 (	1,585 )	100 hp	- wia . (G1)
	BP No.		Macasandig	139 (	2,200 )	200 hp	437.5 KVa Genset (G1)
	BP No.	4	Macasandig Macasandig	0 (	2,200 )	100 hp	
	P. Manifeston			1		1	600 KV3 Genset
	BP No.	. 5	Macasandig	105 (	1,663 )	125 hp	and Kva Gense (G
	BP No.	6	Macasandig	0 (	- /	200 hp	688 kva Genset
	BP No.	5	Macasandig	0 (	0)	125 hp	
	BP No.	. 1	Bugo	0 (	0)	THE RESERVE OF THE PARTY OF THE	500 kva Genset
	PROPERTY S. T.		Bugo	106 (	1,685 )		EUO KNS CE
	BP No.	2		0 (	0)	125 hp	100
	BP No.	3	Bugo	4	0.1	400 h-	
	BP No.	3	Balulang	0	0)	100 hp	censet
	BP No. BP No. BP No.	3 1 2	Balulang Balulang	0 ( 105 (	1,658 )	100 hp	SB8 KVa Genset
	BP No. BP No. BP No. BP No.	3 1 2 3	Balulang Balulang Balulang	0 ( 105 ( 0 (	1,658 )	100 hp	688 Kva Genset
	BP No. BP No. BP No. BP No.	3 1 2 3 4	Balulang Balulang Balulang Balulang	0 ( 105 ( 0 (	( 1,658 ) ( 0 ) ( 0 )	100 hp 100 hp 200 hp	688 Kva Genset
	BP No. BP No. BP No. BP No. BP No. BP No.	3 1 2 3 4 5	Balulang Balulang Balulang Balulang Balulang	0 ( 105 ( 0 ( 0 ( 105 (	1,658 ) ( 0 ) ( 1,658 )	100 hp 100 hp 200 hp 200 hp	943 KAS Geuzer
	BP No.	3 1 2 3 4 5	Balulang Balulang Balulang Balulang Balulang Balulang Balulang	0 ( 105 ( 0 ( 105 (	1,658 ) ( 0 ) ( 0 ) ( 1,658 ) ( 0 )	100 hp 100 hp 200 hp	313 KAS Geuzer
	BP No. Sub-Tota	3 1 2 3 4 5 6	Bajulang Balulang Balulang Balulang Balulang Balulang Balulang Macasandig	0 ( 105 ( 0 ( 105 ( 0 ( 344 (	1,658 ) 0 ) 0 ) 1,658 ) ( 0 ) ( 1,658 ) ( 0 ) ( 5,448 )	100 hp 100 hp 200 hp 200 hp	313 Kns Ceuzer
	BP No. Sub-Tota Sub-Tota	3 1 2 3 4 5 6	Bajulang Bajulang Bajulang Bajulang Bajulang Bajulang Bajulang Macasandig Bajulang	0 ( 105 ( 0 ( 105 ( 0 ( 344 ( 209 (	1,658 ) ( 0 ) ( 1,658 ) ( 0 ) ( 5,448 ) ( 3,316 )	100 hp 100 hp 200 hp 200 hp	688 Kva Genset
	BP No. Sub-Tota	3 1 2 3 4 5 6	Bajulang Balulang Balulang Balulang Balulang Balulang Balulang Macasandig	0 ( 105 ( 0 ( 105 ( 0 ( 344 (	1,658 ) 0 ) 0 ) 1,658 ) ( 0 ) ( 1,658 ) ( 0 ) ( 5,448 )	100 hp 100 hp 200 hp 200 hp	313 Kva Genset
	BP No. Sub-Tota Sub-Tota	3 1 2 3 4 5 6	Bajulang Bajulang Bajulang Bajulang Bajulang Bajulang Bajulang Macasandig Bajulang	0 (105 (105 (105 (105 (105 (105 (105 (10	1,658 ) ( 0 ) ( 1,658 ) ( 0 ) ( 5,448 ) ( 3,316 )	100 hp 100 hp 200 hp 200 hp	, set

Annex L

# CAGAYAN DE ORO CITY WATER DISTRICT

Corrales Avenue, Cagayan de Oro City

# SERVICE CONNECTION GROWTH

For the Year Ended December 31, 2013

MONTH	NEW N	DISCONNE CTION	RECONNE CTION	NET INCREASE/ (DECREASE)	TOTAL ACTIVE CONNECTION	TOTAL INACTIVE CONNECTION	NET INCREASE/ (DECREASE (INACE)/#)
December 2012	3,932	5,566	3,531	1,897	80,619	31,754	2,035
January	285	674	.273	-116	80,503	32,155	401
February	246	559	329	16	80,519	32,385	230
March	265	420	335	180	80,699	32,470	- 85
April	337	508	318	147	80,846	32,660	190
May	308	449	366	225	81,071	32,743	83
June	139	391	313	61	81,132	32,821	78
July	692	497	400	595	81,727	32,921	100
August	363	272	267	358	82,085	32,234	-687
September	363	456	314	221	82,306	33,065	831
October	339	405	351	285	82,591	33,119	54
November	249	344	267	172	82,763	33,196	77
December	229	297	321	253	83,016	33,172	-24
TOTAL	3,815	5,272	3,854	2,397			1,418
MO AVERAGE	318	439	321	200			118

Source: 2013 Monthly Operation Report (Commercial Dept.)

Annex M

# **CAGAYAN DE ORO CITY WATER DISTRICT**

Corrales Avenue, Cagayan de Oro City

# LIST OF MAJOR ASSETS AND EQUIPMENTS

AS OF DECEMBER 31, 2013
(With Comparative Figures for 2012)

	ASSETS AND EQUIPMENTS (With Initial Cost of P5,000 & Above)	2013	2012	%INCREASE (DECREASE) OVER LAST YEAR
1.	COMMUNICATION EQUIPMENT	P 3,664,048.66	P 3,108,348.50	17.88
2.	LABORATORY EQUIPMENT	4,807,020.62	1,431,211.00	235.87
3.	LAND AND LAND RIGHTS	36,720,154.95	36,716,654.95	0.01
4.	OFFICE FURNITURE AND EQUIPMENT	24,064,248.05	20,625,650.01	16.67
5.	POWER OPERATED EQUIPMENT	22,990,828.13	23,906,765.55	100
6.	POWER PRODUCTION EQUIPMENT	34,993,122.65	23,906,765.55	46.37
7.	PUMPING EQUIPMENT	132,467,437.79	97,211,471.14	36,27
8.	TOOLS, SHOP, AND GARAGE EQUIPMENT	14,777,355.44	14,006,938.89	5250
9.	TRANSPORTATION EQUIPMENT	32,158,945.62	25,358,937.78	26.82
10.	WATER TREATMENT EQUIPMENT	6,305,804.35	5,195,806.36	21.36
	TOTAL	P 312,948,966.26	P 251,468,549.73	24.45

Source: 2013 List of Major Assets and Equipments (Accounting Division)

and the state of the

### CAGAYAN DE ORO CITY WATER DISTRICT Cagayan de Oro City

# SUMMARY OF PIPELINES In Linear Meters 2013

PIPELINE	35- 33, <sub>23</sub>	OLD PIPELINES	PHASE I	PHASE II	PHASE III	SUBO	IVISION	COWD E)	(TENSION	701	(AL	PIPELINE	
SIZE	MAKE  ") 0 uPVC ") 0 G,L ") 0 B,I ") 0 PE 0 G,L ") 0 UPVC ACP G,L Cl ") 0 uPVC STEEL ACP CCI G,L CVBI ") 0 uPVC STEEL ACP CCI G,L CVBI ") 0 UPVC STEEL ACP CCI G,L CVBI ") 0 UPVC STEEL ACP CCI CVBI ") 0 UPVC STEEL CCI CVBI ") 0 STEEL	STILL IN SERVICE	IMPROVEMENT	IMPROVEMENT	IMPROVEMENT	TURNED-OVER	NOT TURNED-OVER	1979 - 2012	2013	MAINTAINED	SERVED	SIZE	MAKE
50 mm ( 2°) 0	The same of the same of		The same			8,863		4,296		13,159	13,159	50 mm (2")	0 UPVC
50 mm ('2") 0						344		155		499	499	50 mm (2")	Q G.I.
50 mm (2") 0		14-13				179		226		405	405	50 mm (2")	0 B.t.
150 mm (2") 0		9-14	(B)			7,806		50,378	7,438	65,622	66,622	50 mm (2")	O PE
63 mm ( 2.5") 0						3,055	9-			3,055	3,055	. 63 mm ( 2.5 °)	PE ·
And the same of th			10.00					660		660	660		G.I, ·
75 mm (3") 0		V 10 000		2,775	<u> </u>	48,180		6,345	888	58,188	58,188	75 mm (.3")	0≥ uPVC
70 dan ( 0 / 0	MATRIAL CE					5,422				5,422	5,422		ACP
E) 12			2.0			96				96	96		G.I.
3		<b></b>						120		120	120		CI
100 mm (4") 0			15,745	2,433		34,983	9,553	54,658	456	108,273	117,826	100 mm (4").	0 UPVC
100 mm (4) 0		4,877	14	2,320			To a	181	A Street of the second	5,072	5,072		STEEL
		1,460				4,348	3,160	240		6,048	9,208		ACP
100		92				200	e a letter	228		320	320	5	CCI
		- 02				75				75	75		G.I.
* ·						48		313	2	363	363		CI/BI
450 ( 68) 5			14	9,494	3,097	24,994	3,930	42,122	1,518	81,239	85,169	150 mm ( 6")	uPVC
150 mm (6") 0			27,754			58	26	691		28,503	28,529	N N	STEEL
		146	27,154			1,903	1,120	231		2,260	3,400	les les	ACP
116 119		516						483		998	998		CCI
		5.0						174	24	198	198		CI/BI
200 mm (8*) 0				1,586	8,987	908	450	11,743	20	23,224	23,674	200 mm ( 8 f.)	uPVC
200 mm ( 6 ) U			4,027	1,000		N A 2		733		4,760	4,760		STEEL
		2,148	1021				18	174		2,322	2,322		CCI
33	Parameter State of the	2,140		* * * * * * * * * * * * * * * * * * * *		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	18	19		20	20		BI
250 mm (10") 0		- n		4.488	6,354		100			10,842	10,842	250 mm (10")	STEEL
≥ou mm (tu) υ				7,700		547		3,200		3,747	3,747		uPVC
300 mm (12") 0			16,960	17,996	20,336			7,614		62,906	62,906	. 300 mm (12")	STEEL
350 mm (12") 0		1000	10,530	a de la companya de l	7	4 30.5	91 30 30	2,531		. 2,531	2,531	350 mm (14")	STEEL
400 mm (16") 0			5,660	569	17,081			6,276		29,586	29,586	400 mm (16 H)	STEEL
500 mm (20") 0			1,176	445	3,691			375		5,687	5,687	500 mm (20°)	STEEL
600 mm (24") 0	STEEL		186		14,774				a /s 3	14,960	14,960	600 mm (24°)	STEEL
800 mm (24*) 0	STEEL				2,638				8-8-7	2,638	2,638	800 mm (30")	STEEL
ove mm (se ) o ]	UILCL				Agents	141,810	18,239	194,164	10,326				
		9,238	71,536	39,786	76,957	160,049		204,490		543,817	562,056		

フィリピン国「地方都市水道整備事業(皿\\カガヤン・デ・オロ水道区)」に係る援助効果促進調査 業務報告書

Annex O

# CAGAYAN DE ORO CITY WATER DISTRICT

Corrales Avenue, Cagayan de Oro City

# SUMMARY OF BACTERIOLOGICAL ANALYSIS

For the Year Ended December 31, 2013

	Total		rd Sample 100 ml. Membrane I	Control of the contro	Residual
MONTH	Sample	Sample	Testing t	Chlorine	
		Positive	Coliforni Test	Fecal Test (É - Coli)	(PPM)
January	99	0	0	0	0.00 to 26.00
February	96	0	0	0	0.00 to 0.80
March	95	0	0	Ó	0.00 to 0.90
April	106	1	1	0	0.00 to 0.90
May	98	Ī	1	0	0.00 to 0.80
June	100	3	3	0	0.00 to 1.00
July	120	0	0	0	0.00 to 0.76
August	100	4	4	3	0.00 to 0.90
September	112	5	5	1	0.00 to 0.80
October	114	0	0	0	0.00 to 0.80
November	102	5	4	1,	0.00 to 0.80
December	100	5	4	1	0.00 to 0.80
TOTAL	1,242	24	22	6	

Source: Summary and Evaluation of Bacteriological Analysis of COWD (Production Dept.)

# 6.2 水道メータ不感調査表

水道メータ不感水量試験表(50検体の内1~10のデータ)

Cu	stomer	ID	101	102	103	104	105	106	107	108	109	110
Inst	alled D	ate	2014/03	2013/11	2007/01	2007/01	2007/02	2012/03	2006/01	2006/01	2005/01	2008/01
Pas	sage Y	ear	0.3	0.7	7.6	7.5	7.4	2.3	8.6	8.5	9.5	6.5
Mete	er DN (r	nm)	13	13	13	13	13	13	13	13	13	13
Met	er Num	ber	1321389	1317576	235995	236246	236290	236105	867505	1071005	471040644	842805
Mete	Meter Company		Arad	Arad	Actaris	Actaris	Actaris	Actaris	Asahi	Asahi	Asahi	Asahi
Inst	alled A	rea	Tablon	Iponan	Macabalan	Nazareth	Bonbon	Lapasan	Nazareth	Bonbon	Puntod	Macabalan
	L/h	L	L	L	L	L	L	L	L	L	L	L
30 II	30	10	670.5	361.4	865.1	1011.0	990.9	186.3	526.7	340.8	1153.6	1053.9
1. Meter Count (800-120-60-30)	60	20	660.6	351.7	858.7	1011.0	981.0	176.5	518.1	330.3	1145.3	1044.7
Metel	120	40	640.6	331.8	840.3	1011.0	960.8	156.3	499.9	310.5	1125.8	1024.7
1.1	800	100	600.6	291.8	800.9	973.4	920.4	115.8	459.0	271.8	1084.9	983.9
	Init	tial	500.6	192.1	701.0	867.3	819.9	15.4	359.1	171.6	983.4	883.4
	L/h	L	%	%	%	%	%	%	%	%	%	%
. e	30	-16.9	-1.0	-3.0	-36.0	-100.0	-1.0	-2.0	-14.0	5.0	-17.0	-8.0
2. Meter Error	60	-10.2	0.0	-0.5	-8.0	-100.0	1.0	1.0	-9.0	-1.0	-2.5	0.0
.2	120	-4.3	0.0	0.0	-1.5	-6.0	1.0	1.3	2.2	-3.3	2.2	2.0
	800	-3.9	0.0	-0.3	-0.1	6.1	0.5	0.4	-0.1	0.2	1.5	0.5
	L/h		%	%	%	%	%	%	%	%	%	%
unt Jæ	V<42		22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
3. Range Count (Japan experience)	42<\	/<85	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Ranç pan e)	85 <v< td=""><td>&lt;310</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td></v<>	<310	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
. 93 B	310	) <v< td=""><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td></v<>	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
	То	tal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	L	⁄h	L	L	L	L	L	L	L	L	L	L
4. Consumption (Field meter test)	V<	42	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
sump	42<\	/<85	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5
Sons eld m	85 <v< td=""><td>&lt;310</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td></v<>	<310	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0
4. F	310	) <v< td=""><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td></v<>	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9
	То	tal	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0
	L	⁄h	%	%	%	%	%	%	%	%	%	%
5. Consumption Ratio	V<	42	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
sump	42<\		3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Cons	85 <v< td=""><td>&lt;310</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td></v<>	<310	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
.57	310	) <v< td=""><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td></v<>	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
	То	tal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	L	⁄h	%	%	%	%	%	%	%	%	%	%
atio	V<		-0.01	-0.03	-0.38	-1.05	-0.01	-0.02	-0.15	0.05	-0.18	-0.08
Error Ratio	42<\	/<85	0.00	-0.02	-0.25	-3.09	0.03	0.03	-0.28	-0.03	-0.08	0.00
	85 <v< td=""><td>&lt;310</td><td>0.00</td><td>0.00</td><td>-0.45</td><td>-1.78</td><td>0.30</td><td>0.37</td><td>0.67</td><td>-0.97</td><td>0.67</td><td>0.59</td></v<>	<310	0.00	0.00	-0.45	-1.78	0.30	0.37	0.67	-0.97	0.67	0.59
9	310		0.00	-0.20		4.03	0.33	0.26	-0.07	0.13	0.99	0.33
	То	tal	-0.01	-0.25	-1.14	-1.89	0.65	0.65	0.18	-0.81	1.40	0.84

水道メータ不感水量試験表(50検体の内11~20のデータ)

Cu	stomer	ID	111	112	113	114	115	116	117	118	119	120
Ins	talled D	ate	2005/01	2009/01	2009/01	2011/01	2011/01	2013/01	2011/01	2012/02	2010/01	2013/01
Pas	sage Y	ear	9.5	5.5	5.5	3.5	3.5	1.6	3.5	2.4	4.5	1.5
Mete	er DN (r	mm)	13	13	13	13	13	13	13	13	13	13
Met	er Num	ber	471040821	801012392	1322241	10874138	10874090	k09001092M	k09006233M	k09001263M	90800051	k09002681
Mete	Meter Company		Asahi	Ejet	Arad	Arad	Arad	Keumsung	Keumsung	Keumsung	Asiam	Keumsung
Ins	talled A	rea	Macabalan	Macasandig	Canitoan	Iponan	Bellevue	Carmen	Carmen	Iponan	Patag	Iponan
	L/h	L	L	L	L	L	L	L	L	L	L	L
30)	30	10	750.6	703.3	673.2	250.4	1026.7	831.8	764.5	350.8	1018.8	681.5
1. Meter Count (800-120-60-30)	60	20	750.6	694.1	663.0	241.1	1016.3	822.2	755.1	341.6	1008.1	671.3
Mete 0-12	120	40	733.7	674.3	643.6	221.5	996.4	802.4	735.7	322.0	988.1	651.6
- 8	800	100	695.0	633.9	603.1	181.6	955.8	762.2	696.4	282.9	947.2	611.9
	Ini	tial	596.8	533.8	501.8	81.2	853.5	662.0	600.8	184.2	846.8	511.3
	L/h	L	%	%	%	%	%	%	%	%	%	%
ъ.	30	-16.9	-100.0	-8.0	2.0	-7.0	4.0	-4.0	-6.0	-8.0	7.0	2.0
2. Meter Error	60	-10.2	-15.5	-1.0	-3.0	-2.0	-0.5	-1.0	-3.0	-2.0	0.0	-1.5
2	120	-4.3	-3.2	1.0	1.3	-0.2	1.5	0.5	-1.7	-2.2	2.2	-0.7
	800	-3.9	-1.8	0.1	1.3	0.4	2.3	0.2	-4.4	-1.3	0.4	0.6
	L	/h	%	%	%	%	%	%	%	%	%	%
g II	V<	:42	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Cou	42<\	/<85	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
3. Range Count (Japan experience)	85 <v< td=""><td><b>′&lt;310</b></td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td></v<>	<b>′&lt;310</b>	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
3. R (Jap	310	) <v< td=""><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td></v<>	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
	То	ital	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	L	/h	L	L	L	L	L	L	L	L	L	L
ion ist)	V<	:42	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
umpt ter te	42<\	/<85	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5
onst d me	85 <v< td=""><td>′&lt;310</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td></v<>	′<310	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0
4. Consumption (Field meter test)	310	) <v< td=""><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td></v<>	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9
	То	ital	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0
	L	/h	%	%	%	%	%	%	%	%	%	%
io	V<	:42	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
5. Consumption Ratio	42<\	/<85	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
onst. Raf	85 <v< td=""><td>′&lt;310</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td></v<>	′<310	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
5. C	310	) <v< td=""><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td></v<>	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
	То	ital	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	L	/h	%	%	%	%	%	%	%	%	%	%
.0	V<	:42	-1.05	-0.08	0.02	-0.07	0.04	-0.04	-0.06	-0.08	0.07	0.02
6. Error Ratio	42<\	/<85	-0.48	-0.03	-0.09	-0.06	-0.02	-0.03	-0.09	-0.06	0.00	-0.05
Fror	85 <v< td=""><td>′&lt;310</td><td>-0.97</td><td>0.30</td><td>0.37</td><td>-0.07</td><td>0.45</td><td>0.15</td><td>-0.52</td><td>-0.67</td><td>0.67</td><td>-0.22</td></v<>	′<310	-0.97	0.30	0.37	-0.07	0.45	0.15	-0.52	-0.67	0.67	-0.22
6. E	310	) <v< td=""><td>-1.19</td><td>0.07</td><td>0.86</td><td>0.26</td><td>1.52</td><td>0.13</td><td>-2.91</td><td>-0.86</td><td>0.26</td><td>0.40</td></v<>	-1.19	0.07	0.86	0.26	1.52	0.13	-2.91	-0.86	0.26	0.40
	То		-3.69				1.99	0.21	-3.59	-1.67		
			1.00	5.25	0	3.50		J.= .	0.00	1	l	

水道メータ不感水量試験表(50検体の内21~30のデータ)

Cu	stomer	ID	121	122	123	124	125	126	127	128	129	130
Inst	alled D	ate	2009/01	2010/01	2004/01	2011/01	2012/01	2004/01	2005/01	2012/03	2009/01	2012/02
Pas	sage Y	ear	5.5	4.5	10.6	3.5	2.5	10.6	9.6	2.3	5.5	2.4
Mete	er DN (r	mm)	13	13	13	13	13	13	13	13	13	13
Met	er Num	ber	8091284	90800514	349484	523106	1320471	1321571	1321250	1322140	8092443	k09001308M
Mete	Meter Company		Evjet	Asiam	Asahi	Asahi	Arad	Arad	Arad	Arad	Evjet	Keumsung
Inst	alled A	rea	Iponan	Bellevue	Corrales	Nazareth	Tablon	Macasandig	Opol	Bulua	Cugman	Carmen
	L/h	L	L	L	L	L	L	L	L	L	L	L
30° Fil	30	10	820.1	568.2	411.0	777.5	176.0	737.1	182.6	1063.0	609.3	931.7
1. Meter Count (800-120-60-30)	60	20	810.5	557.6	403.0	768.8	166.8	726.0	173.9	1055.3	598.8	921.7
Mete 00-12	120	40	790.5	536.8	382.0	750.8	146.5	706.9	153.0	1036.7	578.4	901.3
- 8	800	100	750.1	494.8	338.0	711.8	105.2	666.8	112.8	997.2	537.2	860.3
	Init	tial	657.9	388.8	227.0	612.6	5.5	565.3	13.9	896.3	433.5	757.3
	L/h	L	%	%	%	%	%	%	%	%	%	%
r fer	30	-16.9	-4.0	6.0	-20.0	-13.0	-8.0	11.0	-13.0	-23.0	5.0	0.0
2. Meter Error	60	-10.2	0.0	4.0	5.0	-10.0	1.5	-4.5	4.5	-7.0	2.0	2.0
2	120	-4.3	1.0	5.0	10.0	-2.5	3.3	0.3	0.5	-1.3	3.0	2.5
	800	-3.9	-7.8	6.0	11.0	-0.8	-0.3	1.5	-1.1	0.9	3.7	3.0
	L	/h	%	%	%	%	%	%	%	%	%	%
ount noe)	V<	:42	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
3. Range Count (Japan experience)	42<\	/<85	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Ranç tpan e	85 <v< td=""><td>&lt;310</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td></v<>	<310	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
સ કુ	310	) <v< td=""><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td></v<>	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
	То	ital	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	L	/h	L	L	L	L	L	L	L	L	L	L
4. Consumption (Field meter test)	V<	:42	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
4. Consumption (Field meter test)	42<\	/<85	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5
Cons	85 <v< td=""><td>&lt;310</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td></v<>	<310	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0
4. Ē	310	) <v< td=""><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td></v<>	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9
	То		5000.0		5000.0	5000.0	5000.0		5000.0	5000.0	5000.0	
	L	/h	%	%	%	%	%	%	%	%	%	%
otion	V<	:42	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
5. Consumption Ratio	42<\	/<85	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Con	85 <v< td=""><td>&lt;310</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td></v<>	<310	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
5.	310	) <v< td=""><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td></v<>	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
	То		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
	L		%	%	%	%	%	%	%	%	%	%
atio	V<		-0.04	0.06	-0.21	-0.14	-0.08	0.12	-0.14	-0.24	0.05	0.00
Error Ratio	42<\		0.00	0.12	0.15	-0.31	0.05	-0.14	0.14	-0.22	0.06	
	85 <v< td=""><td></td><td>0.30</td><td>1.49</td><td>2.97</td><td>-0.74</td><td>0.97</td><td>0.07</td><td>0.15</td><td>-0.37</td><td>0.89</td><td>0.74</td></v<>		0.30	1.49	2.97	-0.74	0.97	0.07	0.15	-0.37	0.89	0.74
9	310		-5.16		7.28	-0.53	-0.20	0.99	-0.73	0.60		
	То	tal	-4.90	5.64	10.19	-1.72	0.73	1.04	-0.58	-0.23	3.45	2.79

水道メータ不感水量試験表(50検体の内31~40のデータ)

Cu	stomer	ID	131	132	133	134	135	136	137	138	139	140
Inst	talled D	ate	2008/01	2005/01	2006/01	2004/01	2008/01	2004/01	2010/09	2010/09	2011/07	2011/04
Pas	sage Y	ear	6.6	9.5	8.5	10.6	6.5	10.6	3.8	3.8	3.0	3.3
Mete	er DN (r	mm)	13	13	13	13	13	13	13	13	13	13
Met	er Num	ber	70705440	7076404	8090747	471040926	70804772	356017	10848921	10849736	10871555	10867762
Mete	Meter Company		Asiam	Asiam	Evjet	Asahi	Asiam	Asahi	Arad	Arad	Arad	Arad
Inst	talled A	rea	A.Luna	Macasandig	Puntod	Bayabas	Cugman	Consolacion	Balulang	Nazareth	Gusa	Carmen
	L/h	Ш	L	L	L	L	L	L	Ш	L	L	L
30) 30)	30	10	883.1	1077.1	853.5	1055.1	339.8	884.0	530.5	571.0	925.2	1029.9
1. Meter Count (800-120-60-30)	60	20	873.7	1067.0	847.0	1046.6	339.8	884.0	520.6	561.5	915.3	1019.8
Mete 0-12(	120	40	853.7	1048.3	829.1	1026.7	339.8	884.0	500.6	541.5	895.5	999.7
- (8)	800	100	813.3	1008.1	787.1	987.0	330.9	884.0	459.7	501.1	855.3	959.6
	Init	tial	712.7	905.4	687.0	885.9	330.8	850.0	357.8	400.8	755.7	858.7
	L/h	L	%	%	%	%	%	%	%	%	%	%
io .	30	-16.9	-6.0	1.0	-35.0	-15.0	-100.0	-100.0	-1.0	-5.0	-1.0	1.0
2. Meter Error	60	-10.2	0.0	-6.5	-10.5	-0.5	-100.0	-100.0	0.0	0.0	-1.0	0.5
2.	120	-4.3	1.0	0.5	5.0	-0.7	-77.7	-100.0	2.3	1.0	0.5	0.3
	800	-3.9	0.6	2.7	0.1	1.1	-99.9	-66.0	1.9	0.3	-0.4	0.9
	L	/h	%	%	%	%	%	%	%	%	%	%
Ge)	V<	42	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
3. Range Count (Japan experience)	42<\	/<85	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Rang an ex	85 <v< td=""><td>&lt;310</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td></v<>	<310	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
3. F (Jap	310	) <v< td=""><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td></v<>	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
	То	tal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	L	⁄h	L	L	L	L	L	L	L	L	L	L
tion est)	V<	42	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
umpt eter te	42<\	/<85	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5
4. Consumption (Field meter test)	85 <v< td=""><td>&lt;310</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td></v<>	<310	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0
A. C.	310	) <v< td=""><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td></v<>	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9
	То	tal	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0
	L	⁄h	%	%	%	%	%	%	%	%	%	%
5. Consumption Ratio	V<	42	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
umpi	42<\	/<85	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Sons	85 <v< td=""><td>&lt;310</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td></v<>	<310	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
5. C	310	) <v< td=""><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td></v<>	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
	То	tal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	L	⁄h	%	%	%	%	%	%	%	%	%	%
.g	V<	42	-0.06	0.01	-0.37	-0.16	-1.05	-1.05	-0.01	-0.05	-0.01	0.01
r Ra	42<\	/<85	0.00	-0.20	-0.32	-0.02	-3.09	-3.09	0.00	0.00	-0.03	0.02
Error Ratio	85 <v< td=""><td>&lt;310</td><td>0.30</td><td>0.15</td><td>1.49</td><td>-0.22</td><td>-23.11</td><td>-29.72</td><td>0.67</td><td>0.30</td><td>0.15</td><td>0.07</td></v<>	<310	0.30	0.15	1.49	-0.22	-23.11	-29.72	0.67	0.30	0.15	0.07
9.	310	) <v< td=""><td>0.40</td><td>1.79</td><td>0.07</td><td>0.73</td><td>-66.07</td><td>-43.65</td><td>1.26</td><td>0.20</td><td>-0.26</td><td>0.60</td></v<>	0.40	1.79	0.07	0.73	-66.07	-43.65	1.26	0.20	-0.26	0.60
	То	tal	0.63	1.74	0.86	0.33	-93.32	-77.51	1.91	0.44	-0.16	0.70

水道メータ不感水量試験表(50検体の内41~50のデータ)

Cu	ıstomer	ID	141	142	143	144	145	146	147	148	149	150
Ins	talled D	ate	2007/01	2009/06	2004/07	2010/03	2008/04	2013/02	2013/07	2008/04	2009/07	2013/09
Pas	ssage Y	ear	7.5	5.2	10.0	4.3	6.3	1.5	1.0	6.3	5.0	0.8
Met	er DN (r	mm)	13	13	13	13	13	13	13	13	13	13
Met	ter Num	ber	236316	8121261	4017016	8092110	70803116	609604	3033750	70706193	8092087	K09005486M
Meter Company		Actaris	Evjet	TD88	Evjet	Asiam	Asahi	Toyokeiki	Asiam	Evjet	Keumsung	
Ins	talled A	rea	Calaanan	Carmen	Agusan	Calaanan	Lumbia	Gusa	Canitoan	Canitoan	Iponan	Iponan
	L/h	L	L	L	L	L	L	L	L	L	L	L
30) 30)	30	10	830.9	952.9	265.1	898.9	698.3	546.5	578.0	227.5	1082.9	503.8
1. Meter Count (800-120-60-30)	60	20	820.4	942.8	255.3	888.2	688.4	536.3	568.0	217.1	1081.3	502.3
Mete 0-12	120	40	810.0	922.7	235.2	866.2	668.1	516.4	547.0	214.8	1078.9	500.1
- 8	800	100	767.6	882.2	194.6	822.5	627.3	476.2	507.0	210.6	1074.6	495.8
	Init	tial	662.7	780.4	93.7	722.3	526.9	377.0	406.0	110.2	973.5	394.1
	L/h	L	%	%	%	%	%	%	%	%	%	%
je _	30	-16.9	5.0	1.0	-2.0	7.0	-1.0	2.0	0.0	4.0	-84.0	-85.0
2. Meter Error	60	-10.2	-48.0	0.5	0.5	10.0	1.5	-0.5	5.0	-88.5	-88.0	-89.0
2	120	-4.3	6.0	1.3	1.5	9.3	2.0	0.5	0.0	-89.5	-89.2	-89.3
	800	-3.9	4.9	1.8	0.9	0.2	0.4	-0.8	1.0	0.4	1.1	1.7
	L	/h	%	%	%	%	%	%	%	%	%	%
unt loe)	V<	:42	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
e Co perier	42<\	/<85	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
3. Range Count (Japan experience)	85 <v< td=""><td>&lt;310</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td><td>31.0</td></v<>	<310	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
3. Ja	310	) <v< td=""><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td><td>33.0</td></v<>	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
	То	ital	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	L	/h	L	L	L	L	L	L	L	L	L	L
tion est)	V<	:42	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
4. Consumption (Field meter test)	42<\	/<85	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5	154.5
Sons ald m	85 <v< td=""><td>&lt;310</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td><td>1486.0</td></v<>	<310	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0
4. O	310	) <v< td=""><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td><td>3306.9</td></v<>	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9	3306.9
	То	tal	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0	5000.0
	L	/h	%	%	%	%	%	%	%	%	%	%
5. Consumption Ratio	V<	:42	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
ump	42<\	/<85	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Sons	85 <v< td=""><td><b>&lt;</b>310</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td><td>29.7</td></v<>	<b>&lt;</b> 310	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
5. (	310	) <v< td=""><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td><td>66.1</td></v<>	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
	То	tal	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	L	/h	%	%	%	%	%	%	%	%	%	%
ţi	V<	:42	0.05	0.01	-0.02	0.07	-0.01	0.02	0.00	0.04	-0.88	-0.89
Error Ratio	42<\	/<85	-1.48	0.02	0.02	0.31	0.05	-0.02	0.15	-2.73	-2.72	-2.75
	85 <v< td=""><td>&lt;310</td><td>1.78</td><td>0.37</td><td>0.45</td><td>2.75</td><td>0.59</td><td>0.15</td><td>0.00</td><td>-26.60</td><td>-26.53</td><td>-26.53</td></v<>	<310	1.78	0.37	0.45	2.75	0.59	0.15	0.00	-26.60	-26.53	-26.53
6.	310	) <v< td=""><td>3.24</td><td>1.19</td><td>0.60</td><td>0.13</td><td>0.26</td><td>-0.53</td><td>0.66</td><td>0.26</td><td>0.73</td><td>1.12</td></v<>	3.24	1.19	0.60	0.13	0.26	-0.53	0.66	0.26	0.73	1.12

# 6.3 現地業務日程表

# 6.3.1 第1次現地業務 2014年4月29日(火)~6月3日(火)まで (36日間)

Day	Date	Activities	Stay
1	Apr.29	Transfer from Tokyo to Manila PR431 / NRT 09:30(JT) - MNL 13:10	Manila
2	Tue. Apr.30 Wed.	Team Meeting  Kick Off Meeting with JICA Philippines from 10:00 @ JICA Philippines  Kick Off Meeting with LWUA from 14:00 @ LWUA	Manila
3	May 1 Thu.	May-Day (National Holiday) Team Meeting Transfer from Manila to Cagayan de Oro PR2525 / MNL 14:25 - CGY 16:00	CDO
4	May 2 Fri.	Kick Off Meeting and Explanation of project with COWD and JICA Philippines from 10:00 @ COWD HQ Site visit to Pumping station, Distribution Reservoir, Stub-Outs @ In the city	CDO
5	May 3 Sat.	Team Meeting, Preparation of Report	CDO
6	May 4 Sun.	Team Meeting, Preparation of Report	CDO
7	May 5 Mon.	Discussion using Questionnaire that sent to COWD before leaving Japan @ COWD HQ	CDO
8	May 6 Tue.	Explanation to COWD Leakage Survey Team how to use leakage machines and discussion about leakage survey plan @ COWD Macasandig OJT of leakage detection using AQUASCAN @ Near COWD Macasandig	CDO
9	May 7 Wed.	OJT of leakage detection using AQUASCAN from COWD Macasandig to Camaman-an Distribution Reservoir @ In the city	CDO
10	May 8 Thu.	OJT of leakage detection using AQUASCAN on Transmission Pipeline @ In the city	CDO
11	May 9 Fri.	OJT of leakage detection using AQUASCAN on Transmission Pipeline (Completion of leakage survey 10km) @ In the city	CDO
12	May 10 Sat.	Team Meeting, Preparation of Report	CDO
13	May 11 Sun.	Team Meeting, Preparation of Report	CDO
14	May 12 Mon.	Discussion with Financial Department @ COWD HQ Site visit at DMA San Lazaro from @ In the city	CDO
15	May 13 Tue.	Discussion with GM and Executives about NRW reduction countermeasure of COWD @ COWD HQ Site visit to Macabalan Pilot Area, DMA San Lazaro and RER Sub Division P.1 @ In the city	CDO
16	May 14 Wed.	Explanation about D305 and AQUASCAN's Hydro Phone / Explanation about ZONESCAN and OJT at DMA RER Sub Division P.1 @ COWD Macasandig / In the city Discussion about DMA @ COWD HQ Discussion and hearing with Financial Department @ COWD HQ	CDO
17	May 15 Thu.	Analysis of previous day's leakage survey @ COWD Macasandig OJT at DMA RER Sub Division P.1 @ In the city Discussion about Hydraulic calculation @ COWD HQ Discussion and hearing with Financial Department @ COWD HQ	CDO
18	May 16 Fri.	OJT at DMA RER Sub Division P.1 by ZONESCAN, AQUASCAN and D305 @ In the city Discussion about Hydraulic calculation @ COWD HQ Discussion and hearing with Financial Department @ COWD HQ	CDO
19	May 17 Sat.	Team Meeting, Preparation of Report	CDO
20	May 18 Sun.	Team Meeting, Preparation of Report	CDO

Day	Date	Activities	Stay
21	May 19 Mon.	Discussion about leakage survey system @ COWD Macasandig Minimum Night Flow Measurement of RER Sub Division P.1 @ In the city	CDO
22	May 20 Tue.	Discussion about leakage survey system and delivered document material @ COWD Macasandig Discussion about Hydraulic calculation and construction of DMA @ COWD HQ Discussion and hearing with Financial Department @ COWD HQ	CDO
23	May 21 Wed.	Visit Kauswagan Water Meter Laboratory and discussion about Meter Error Test @ COWD Kauswagan Confirmation of delivered document material from COWD @ COWD Macasandig	CDO
24	May 22 Thu.	Discussion about leakage repairing system and excavation application processes Discussion about Hydraulic calculation and construction of DMA @ COWD HQ Discussion and hearing with Financial Department @ COWD HQ	CDO
25	May 23 Fri.	Visit Water Treatment Plant of RVWC @ RVWC Visit DMA San Lazaro and analysis of collected flow data @ In the city Discussion about Hydraulic calculation and construction of DMA @ COWD HQ Discussion and hearing with Financial Department @ COWD HQ	CDO
26	May 24 Sat.	Team Meeting, Preparation of Report	CDO
27	May 25 Sun.	Team Meeting, Preparation of Report	CDO
28	May 26 Mon.	Site visit to DMA Limketkai @ In the city / Establishment of Leakage survey plan @ COWD Macasandig Discussion about Hydraulic calculation @ COWD HQ Discussion and hearing with Financial Department @ COWD HQ	CDO
29	May 27 Tue.	Establishment of Leakage survey plan and Pipeline Mesh Drawing @ COWD Macasandig Minimum Night Flow Measurement @ DMA San Lazaro Lecture of Water Safety Plan to COWD Executives @ COWD HQ	CDO
30	May 28 Wed.	Team Meeting, Preparation of Report @ COWD HQ	CDO
31	May 29 Thu.	Establishment of Leakage survey plan @ COWD Macasandig Discussion about Hydraulic calculation @ COWD HQ Discussion and hearing with Financial Department @ COWD HQ	CDO
32	May 30 Fri.	Project Report Meeting with COWD @ COWD HQ  Meeting about each assignment with COWD @ COWD Macasandig	CDO
33	May 31 Sat.	Transfer from Cagayan de Oro to Manila PR2522 / CGY 11:00 - MNL 12:30 Team Meeting	Manila
34	Jun.1 Sun.	Team Meeting, Preparation of Report	Manila
35	Jun.2 Mon.	Project Report Meeting with JICA Philippines from 10:00 @ JICA Philippines Project Report Meeting with Japan Embassy from 14:00 @ Japan Embassy	Manila
36	Jun.3 Tue.	Team Meeting Transfer from Manila to Tokyo PR432 / MNL 14:45 - NRT 20:10(JT)	

# 6.3.2 第2次現地業務 2014年7月31日(木)~8月20日(水) (21日間)

Day	Date	Activities	Stay
1	Jul.31	Transfer from Tokyo to Manila PR431 / NRT 09:30(JT) - MNL 13:30	Manila
1 1	Thu.	Team Meeting	iviaiilia
2	Aug.1	Kick Off Meeting with JICA Philippines from 10:00 @ JICA Philippines	Manila
2	Fri.	Team Meeting, Preparation of Report	ividillid

Day	Date	Activities	Stay
3	Aug.2 Sat.	Team Meeting Transfer from Manila to Cagayan de Oro PR2525 / MNL 14:25 - CGY 16:00	CDO
4	Aug.3 Sun.	Team Meeting, Preparation of Report	CDO
5	Aug.4 Mon.	Kick Off Meeting and Explanation of project with COWD from 9:00 @ COWD HQ Discussion and hearing with Financial Department @ COWD HQ Discussion about COWD's assignment @ COWD Macasandig	CDO
6	Aug.5 Tue.	Discussion about DMA and hydraulic calculation @ COWD HQ Discussion and hearing with Commercial Department @ COWD HQ Measurement of flow volume at Macasandig and Balulang Booster Pumping Station @ In the city	CDO
7	Aug.6 Wed.	Accompanying Meter Reader @ In the city Accuracy test of Balulang Booster Pump @ In the city Water meter accuracy test in the water meter laboratory @ COWD Kauswagan	CDO
8	Aug.7 Thu.	Accompanying Disconnection operation @ In the city Discussion and hearing with Commercial Department @ COWD HQ Accuracy confirmation at Bugo Booster Pumping Station and Deep Wells (PW11, PW23) @ In the City	CDO
9	Aug.8 Fri.	Accompanying Reconnection operation @ In the city Analysis of measured flow volume @ COWD Macasandig Discussion and hearing with Financial Department @ COWD HQ	CDO
10	Aug.9 Sat.	Participation to New Connection Customer's Seminar @ COWD HQ Team Meeting, Preparation of Report	CDO
11	Aug.10 Sun.	Team Meeting, Preparation of Report	CDO
12	Aug.11 Mon.	Visit to water meter chamber at new DMA Macabalan @ In the city Leak survey by ZONESCAN at Golden Village Sub-Division @ In the city Discussion and hearing with Financial Department @ COWD HQ	CDO
13	Aug.12 Tue.	Visit to RVWC Bulk Water Meter and confirm flow volume by Ultrasonic flow meter @ In the city Discussion about project cost and maintenance cost with Engineering Department @ COWD HQ	CDO
14	Aug.13 Wed.	Visit to RVWC Bulk Water Meter and confirm flow volume by Ultrasonic flow meter @ In the city Discussion and hearing with Financial Department @ COWD HQ	CDO
15	Aug.14 Thu.	Leak survey by AQUASCAN at Canito-an area @ In the city Discussion and hearing with Financial Department @ COWD HQ Discussion about New DBP Project (458M.PHP) and COWD future plan @ COWD HQ	CDO
16	Aug.15 Fri.	Discussion and hearing with Financial Department @ COWD HQ Discussion about New DBP Project (250M.PHP) and Bulk water @ COWD HQ Discussion about leak survey plan @ COWD Macasandig	CDO
17	Aug.16 Sat.	Team Meeting, Preparation of Report	CDO
18	Aug.17 Sun.	Team Meeting, Preparation of Report	CDO
19	Aug.18 Mon.	Project Report Meeting with COWD @ COWD HQ Transfer from Cagayan de Oro to Manila PR2526 / CGY 16:15 - MNL 17:45	Manila
20	Aug.19 Tue.	Team Meeting Project Report Meeting with JICA Philippines from 16:00 @ JICA Philippines	Manila
21	Aug.20 Wed.	Team Meeting Transfer from Manila to Tokyo PR430 / MNL 10:00 - NRT 15:25(JT)	

# 6.3.3 第3次現地業務 2014年10月12日(日)~10月23日(木) (12日間)

Day	Date	Activities	Stay
1	Oct.12	Team Meeting	Manila
	Sun.	Transfer from Tokyo to Manila PR421 / HRD 15:20(JT) - MNL 18:40	
2	Oct.13	Kick Off Meeting with JICA Philippines from 10:00 @ JICA Philippines	CDO
	Mon.	Transfer from Manila to Cagayan de Oro PR2525 / MNL 14:25 - CGY 16:00	CDO
3	Oct.14	Kick Off Meeting and Explanation of project with COWD from 9:00 @ COWD HQ	CDO
3	Tue.	Kick Off Meeting about each assignment with COWD leak survey team @ COWD HQ	CDO
	Oct.15	Discussion and hearing with Financial Department @ COWD HQ	
4	Wed.	Discussion about DMA Macabaran monitoring with COWD leak survey team @ COWD	CDO
	weu.	Macasandig	
	Oct.16	Visit to DMA San Lazaro and start to measure minimum night flow @ In the city	
5		Discussion about exposed pipe / illegal connection location @ COWD HQ	CDO
	Thu.	Discussion and hearing with Commercial Department @ COWD HQ	
	Oct.17	Discussion about Financial analysis and COWD Mid&Long term management plan	
6		with GM @ COWD HQ	CDO
	Fri.	Discussion about exposed pipe location @ COWD HQ	
7	Oct.18	Team Meeting, Preparation of Report	CDO
,	Sat.	Team Meeting, Freparation of Neport	CDO
8	Oct.19	Team Meeting, Preparation of Report	CDO
0	Sun.	reall Meeting, Freparation of Neport	CD
9	Oct.20	Final discussion about this project with GM @ COWD HQ	CDO
9	Mon.	Preparation of Report	CDO
10	Oct.21	Project Report Meeting with COWD from 9:00 @ COWD HQ	Manila
10	Tue.	Transfer from Cagayan de Oro to Manila PR2526 / CGY 16:15 - MNL 17:45	IVIdIIIId
11	Oct.22	Project Report Meeting with JICA Philippines from 9:30 @ JICA Philippines	Manila
11	Wed.	Project Report Meeting with LWUA from 14:30 @ LWUA	IVIdIIIId
12	Oct.23	Team Meeting	
12	Thu.	Transfer from Manila to Tokyo PR432 / MNL 14:45-NRT 20:10(JT)	

# 6.3.4 団員構成

(1) 総括/都市給水永井 康敏横浜ウォーター株式会社(2) 無収水対策横山 健横浜ウォーター株式会社(3) 漏水管理瀬川 進太横浜ウォーター株式会社(4) 財務分析/水道サービス改善山下 みや美横浜市水道局(補強)

### 6.4 現地業務キックオフ・ミーティング資料

6.4.1 第1次現地業務 2014年4月30日(水)@JICA 2014年5月2日(金)@COWD



# **Current COWD condition**

1. Served population: 520,000 persons

2. Service cover rate: 84%

3. Designed daily supply: 145,000m<sup>3</sup>/d

4. Non-revenue water rate: 54%

5. Distribution pipe length: 510km

6. Resin pipe usage rate: 64%

7. Dis.Tank: 7 / P.Well.: 26 / B.P.Sta.: 3

Yokohama Water

# Objectives/Targets of Project [5]

- 1. Confirmation of current state of NRW
- 2. Investigation of technical aspect, institutional organization, and financial situation of current NRW reduction activities
- 3. Understanding of problems and tasks of current activities
- 4. Recommendation for improvement measures for each issue

Yokohama Water

# Implementation Policy (2)

- 4. Proposal and improvement for leakage survey method
  - # Measures of illegal connection (stolen water)
  - # Water meter insensitive volume
  - # Distribution water volume analysis
  - # Pipeline ledger and Mesh management
- # Preparation of leakage detection equipment
- 6. Proposal related to pipe network plan and **DMA** setting
- 7. Proposal considering cost-effectiveness
- 8. Proposal or the implementation plan from a financial standpoint
- Yokohama Water

# Background

# Dec. 2011, tropical storm "Sendong" hit the Northern Mindanao region.

# May 2012, COWD requested assistance to JICA.

- # From Aug. 2012 to Nov. 2013, COWD, LWUA and JICA rehabilitated COWD water supply system as the disaster recovery support project.
- # End of 2013. NRW rate of COWD was still 54%.
- # COWD requested assistance to JICA regarding development of comprehensive NRW reduction program.
- # JICA Study Team investigates current COWD's activities and organization about NRW reduction and proposes their improvement plans, and conducts leakage survey training.

Yokohama ( ater

# **Current YWWB condition**

1. Start to service: Oct. 17, 1887 (127ys ago)

2. Served population: 3.693,733

3. Service connection: 1,776,546

4. Service rate: 100.00% (Since 1988)

5. Pipelines length: 9,147km (Iron pipe: 92%)

6. Revenue rate: 91.4% (Since 1995, over 90%)

7. Leakage rate: 5.4% (15 consecutive years)

8. Daily supply: 1,165,152m3 (Max.: 1.27Milm3)

9. Dist. management: 23 DR, 26 Blk, 250 DMA

Yokohama Water

Data in March, 2013

2

# Implementation Policy (1)

- 1. Introduction of investigation and proposal
- 2. Understanding of current status of NRW reduction activities, and its proposal
- 3. Proposal for monitoring plan of NRW reduction measures
  - # Management of pipeline mapping system
- # Management of customer information
- 4. Proposal and improvement for leakage survey method # Study of appropriate water pressure by pipe
  - network analysis
  - # Calculation of leakage volume by the Night Minimum Flow Method

Yokohama Water

# Implementation Policy (3)

5. Carrying machinery and material

(1) Leak detector for resin pipes x 2

(2) Leak detector (general type) x 2

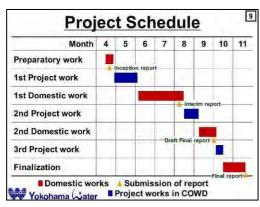
- (3) Long range leak correlator with amplifier x 1
- (4) Correlating radio loggers (10 loggers) x 1
- (5) Portable ultrasonic flow meter x 1

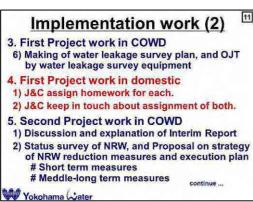


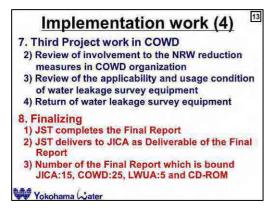
Yokohama Water

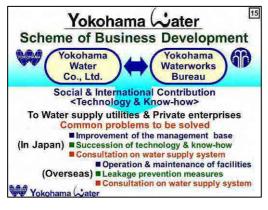
(4) Zone Scan 820

Yokohama Water

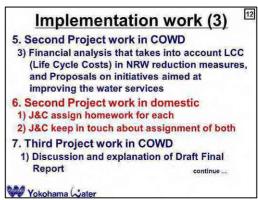


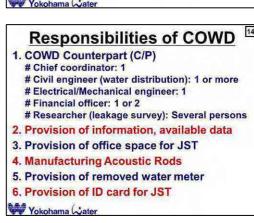






# Implementation work (1) 1. Preparatory work 2. Procurement of rental equipment 3. First Project work in COWD 1) Explanation of Project work Now, herel 2) Grasp of COWD activities of NRW reduction 3) Proposals for various activities related to NRW reduction measures and finance 4) Current status confirmation of the pipe network calculation and DMA installation 5) Current condition survey of NRW, and proposal for strategy of NRW reduction measures and implementation plan and finance





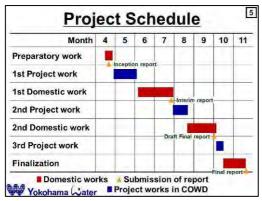


### 6.4.2 第2次現地業務 2014年8月1日(金)@JICA

# 2014年8月4日(月)@COWD



# Implementation Policy (1) 1. Introduction of investigation and proposal 2. Understanding of current status of NRW reduction activities, and its proposal 3. Proposal for monitoring plan of NRW reduction measures # Management of pipeline mapping system # Management of customer information 4. Proposal and improvement for leakage survey method # Study of appropriate water pressure by pipe network analysis # Calculation of leakage volume by the Night Minimum Flow Method Yokohama ( inter



# Implementation Work (2)

Second Project work in COWD

- → Short term improvements to reduce the water loss
- 2) Medium term measures
- → Proposals regarding grasp of the exact amount of water distribution and DMA setting for water consumption, installation of main pipeline flow meter, and SCADA introduction
- -> Proposal for operation of accurate Revenue Management System (RMS)

Yokohama Water

# Objectives / Project Targets [2]

- 1. Confirmation of current state of NRW
- 2. Investigation of technical aspect, institutional organization, and financial situation of current NRW reduction activities
- 3. Understanding of problems and tasks of current activities
- 4. Recommendation for improvement measures for each issue

# Implementation Policy (2)

- 4. Proposal and improvement for leakage survey method
  - # Measures of illegal connection
  - # Water meter insensitive volume
  - # Distribution water volume analysis
  - # Pipeline ledger and Mesh management # Preparation of leakage detection equipment
- 5. Carrying machinery and material
- 6. Proposal related to pipe network plan and **DMA** setting
- 7. Proposal considering cost-effectiveness
- 8. Proposal or the implementation plan from a financial standpoint

Yokohama Water

# Implementation Work (1)



- 1. Status survey of NRW, and Proposal on strategy of NRW reduction measures and execution plan
  - 1) Short term measures
  - → Improvement of short term NRW measures except water leakage
    - # Removal water meter error
    - # Illegal connection place
    - # Non-payment measures
    - # Accompany to the meter reading
    - # Input data of meter reading slip
    - # Training for meter reading staff
    - # Outsourcing of meter reading

Yokohama Water

# Implementation Work (3)

Second Project work in COWD

- → Proposal for water supply equipment maintenance (Placement of Stub-out with optimal water faucet number, appropriate water supply connection)
  - # Skill and knowhow of plumber of the water supply works company and their training content
  - # Forecast of revenue water increasing by placement of appropriate Stub-out

# **Implementation Work (4)**

Second Project work in COWD

- Proposals regarding the adjustment of distribution water pressure (Distribution water pressure management, Optimization of water pressure at night)
  - # The minimum night flow measurement in existing Pilot Area (In the first project work in COWD, JST conducted confirmation of gate valve and water inlet point.)



# Implementation Work (6)

Second Project work in COWD

- 2. Financial analysis that takes into account the Life Cycle Costs in the NRW Reduction Measures, and Proposals on initiatives aimed at improving the water services
  - → Study of analysis of financial condition and desirable situation of water charge

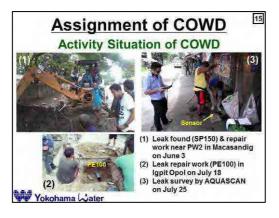


# Implementation Work (8)

Second Project work in COWD

- → Study of incentive mechanism for promoting the NRW measures # Conducted content in COWD and other
  - # Conducted content in COWD and other companies
- → Study of outsourcing in business in the NRW measures
- → Information transmission to customers, and Study of Customer Satisfaction survey
  - # Questionnaire items in the Customer Satisfaction survey





# Implementation Work (5)

Second Project work in COWD

- → Water distribution facility development (Aged pipe replacement plan, Development of mapping system, Appropriate construction management)
- → Regarding NRW Reduction Measures based on the core vision / mission of COWD and the basic concept of medium-long term policy

Yokohama Cater

# **Implementation Work (7)**

Second Project work in COWD

→ Understanding of water consumption of the customer, Confirmation of the current situation in the billing method, and proposals for these improvements # Understanding of usage volume and

billing method of other companies

→ Selection of pipe life or pipe replacement, Judgment of leakage point, Comparison of cost-effectiveness of measures to reduce NRW

Yokohama Water

# **Assignment of COWD**

14

# Leakage survey based on survey plan

→ 46.8km (6.7km/week/team) done # Water usage volume data collection (Hourly, Daily)

→ Being carried out at 1 DMA

# PW, BPS, BW meter accuracy check by USFM

→ Being carried out at Macasandig BPS

# 50 (5 X 10 years) water meters flow test

→ Finished selection, but not collection

# Illegal connection survey

→ Start to survey by Leakage Team
# Meter chamber construction at Pilot area

→ Complete soon

# Pipe location of ACP and Phase 1 ~ 3

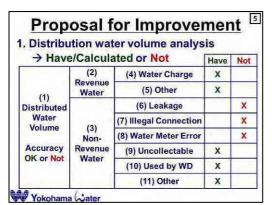
→ ACP and Phase 1 finished



### 6.4.3 第3次現地業務 2014年10月13日(月)@JICA 2014年10月14日(火)@COWD



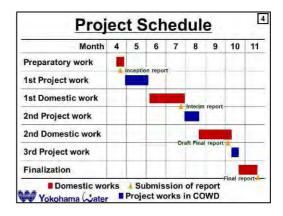


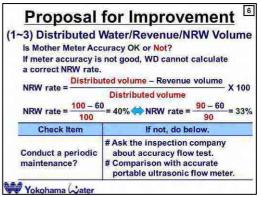




# Objectives / Project Targets 2

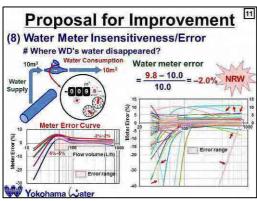
- 1. Confirmation of current state of NRW
- 2. Investigation of technical aspect, institutional organization, and financial situation of current NRW reduction activities
- 3. Understanding of problems and tasks of current activities
- 4. Recommendation for improvement measures for each issue

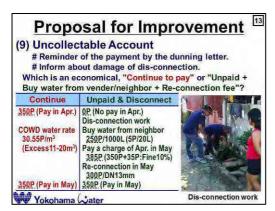


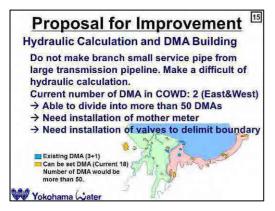




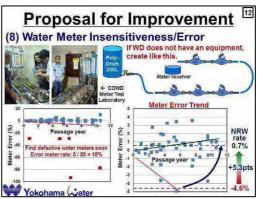


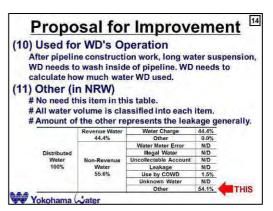


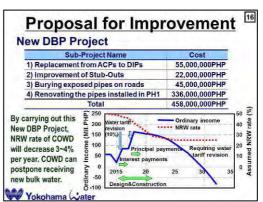


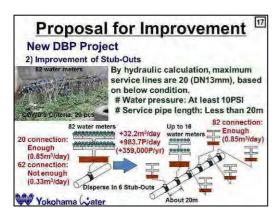


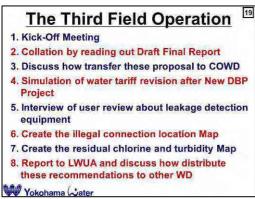
















### 6.5 現地業務レポート資料

# 6.5.1 第1次現地業務 2014年5月30日(金)@COWD

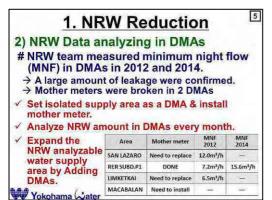
2014年6月2日(月)@JICA

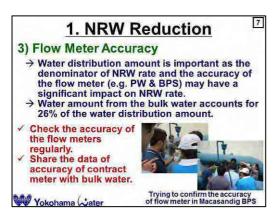


# **Implementation work**

3

- 1. Understanding of COWD NRW reduction activities
- 2. Current status confirmation of the pipe network calculation and DMA installation
- 3. Proposal for strategy of NRW reduction measures and implementation plan, finance and water supply service

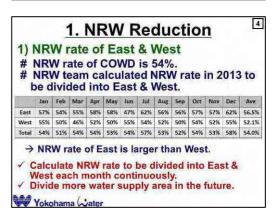


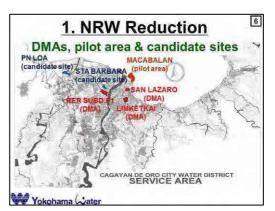


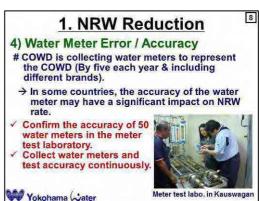
# Objectives / Project Targets

- 1. Confirmation of current state of NRW
- 2. Investigation of technical aspect, institutional organization, and financial situation of current NRW reduction activities
- 3. Understanding of problems and tasks of current activities
- 4. Recommendation for improvement measures for each issue

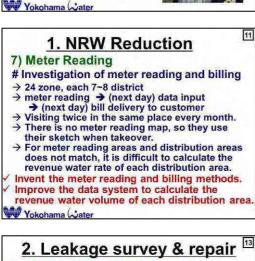








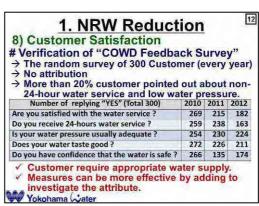
### 9 1. NRW Reduction 5) Illegal Connection # Investigation of illegal connection status → Illegal connections are Fixed-cut when they are Number of Fixed-cut connection (2013): 166 In consideration of NRW volume and the field situation, the actual number of illegal connection is assumed to be greater than Fixed-cut number. Enhance the system to discover and prevent the illegal connection for reducing non-revenue water and ensure equity.







### 10 1. NRW Reduction 6) Non-payment # Investigation of payment status (2013) → Payment until due date : 75% In Yokohama case Payment before Disconnect Notice deliverable : 97%(Bank transfer 99%, Others 87%) → Payment Place : 4 COWD Office and 13 Bank (4 large commercial malls : Negotiating) Payment : Cash, Check, Other (Bank transfer, Credit card, Online : Examining) % YWWB Promote improve-Num. ment of convenience Disconnection 5.272 6.3 0.4 Fixed-cut 321 0.4 of payment Reconnection 3.864 46 Yokohama Wate





# 2. Leakage survey & repair

- 4) Leakage Survey in whole supply area # NRW team made Leak Survey Plan.
- → The major cause of 54% of NRW rate is water leakage.

  → COWD can not conduct water leakage survey
- effectively and efficiently by elite few staffs without Leak Survey Plan.
- Conduct the leakage survey 510km of pipeline of COWD until mid October. Understand where water leakage comes
- from.

# 3. Drawing Management

- 1) Mesh management on pipeline map
- # NRW team created standard mesh and sub-mesh on the distribution pipeline map.
- Introduce mesh management in daily O/M.
- Manage Stub-Out, water meter ID, Leakage repair point in mesh
- Describe water pressure & residual chlorine in mesh map.

# Yokohama Water

# 4. Effort to next year

19

- 2) Mid-term Plan (for 3-5 years)
- # COWD has the goal (e.g. 2% reduction of NRW rate every year).
- → There are no plans on specific projects in order to achieve the goals.
- Make a plan for a projects based on financial plan in order to solve the mid-term and long-term problems.



# 4. Effort to next year

- 4) In-house or Outsourcing?
- # It takes time to repair a lot of water leakages.
- → In the case of in-house, COWD will not be able to respond quickly because of the lack of manpower.
- One solution, consider the outsourcing of excavation, repair and pavement restoration.

## Yokohama Water

# 5. Organization and Financial 23

- 2) Production cost / Unit sales price
- # Analysis of production cost / unit sales price
- → Important PI to determine COWD business
- → Production cost (Case of YWWB) = Ordinary expenses / Revenue water volume
- Unit sales price

  = Water Sales / Revenue water volume

  > COWD adopts the indicator of "Production and Distribution cost per cubic meter produced'
- Clarify the influence of revenue water on production cost

Yokohama Water

Indicator (2012)	Provisional calculation
Production cost	26.4 PHP/m <sup>3</sup>
Unit sales price	26.6 PHP/m <sup>3</sup>
c,f. Pro. and Dis. cost/m³ Produced	5.9 PHP/m <sup>3</sup>

# 4. Effort to next year

1) Stub-out Improvement

- # In COWD Stub-Out criteria, the water meters can be installed up to 20 at 10psi.
- → There are many Stub-Out installed more than 20 meters. (maximum 96 meters!!)
- → In most area, water pressure is
- less than 10psi.

  → Most complain is "No Water" due to low pressure.
- According to the Stub-Out criteria. If water pressure is low, consider the appropriate number of water



18

Yokohama Water

# 4. Effort to next year

3) Strategy for sweep away puddle # There are many puddle in CDO city.





- → Poor Landscape, Traffic Jam, Inconvenience of pedestrian

  → Cause of puddle might be water leakage.
- ✓ Clarify the cause with city government.
   ✓ Sweep away all puddle in CDO.
- Yokohama Water

# 5. Organization and Financial 22

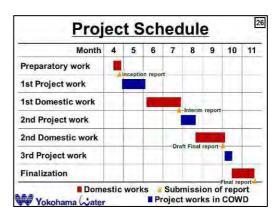
- 1) Leak Detection Team is not Section.
  - # Authority and position as an organization is unclear
  - →Non-Revenue Water Team does not exist in the duties of division.
- →For authority and chain of command is not clear, sometimes, it is difficult to promote coordination across the division.
- At the next time of the organizational reform, it is important to position NRW team in the organization (above the unit).
- It is necessary to grant the adjustment authority across the division.

# 5. Organization and Financial 24

INCOME	COMD		YWWB	
Operating Revenue	672,760	99.6%	34,057,787	95.4%
Water Sales	640,300	94.8%	30,202,822	84.6%
Others	32,459	4.8%	3,854,965	10.8%
Penalty Charges	25,014	3.7%		
Other account transferred			2,468,654	6.9%
Others	7,445	1.1%	1,386,311	3.9%
Other Income	2,992	0.4%	1,628,617	4.6%
Connection charge	-		1,281,407	3.6%
General account subsidy			94,163	0.3%
Others	2,992	0.4%	253,047	0.7%
TOTALINCOME	675,752	100%	35,686,403	100%

3) Financial Ove	erview	2012		
EXPENSES	COWD		YWWB	
Operating Expenses	535,415	84.0%	31,276,810	94.5%
Operation	421,745	66.2%	*	
Operation, management etc.	120	-	5,020,452	15.29
Maintenance	47,077	7.4%		-
Treatment, Distribution etc.			17,049,008	51.5%
Depreciation	66,593	10.5%	7,787,130	23.5%
Fixed assets retirement cost			1,420,220	4.39
Other Expenses	101,812	16.0%	1,826,305	5.5%
Interest on long-term debts	101,812	16.0%	A. 100	
Interest expenses etc.			1,760,744	5.39
Others	-	-	65,561	0.29
TOTALEXPENSES	637,227	100%	33,103,115	100%
NET PROFIT	38,525		2,684,415	

Assig	iment / n	lomework	
Proj	ect work in I	Domestic	
COWD			
# Leakage s	rvey based on	"Leak Survey Pla	n"
		data collection	
# Accuracy	heck of flow m	eters (PW, BPS, B	W
# 50 water m	eters accuracy	test	
	nection survey		
		on of pilot area	
	p of ACP and p	hase I, II ,III	
# Full fill the	questionnaire		
JICA Study	Геат		
# Hydraulic	nalysis of COV	/D	
# Financial a	nalysis of COW	D	
	the data collec		

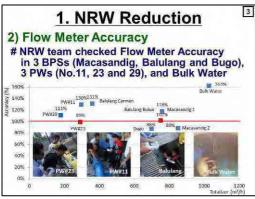


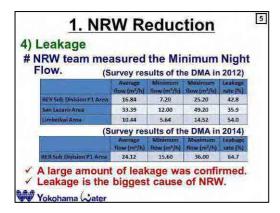


### 6.5.2 第2次現地業務 2014年8月18日(月)@COWD

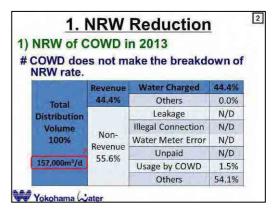
### 2014年8月19日(火)@JICA

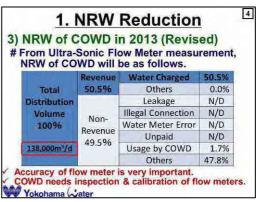


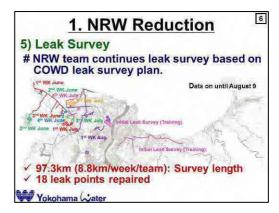


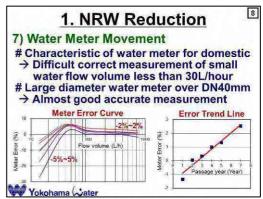


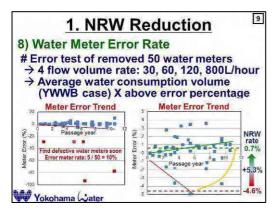




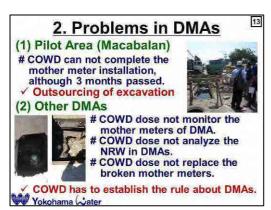


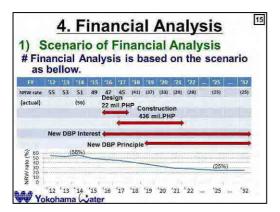


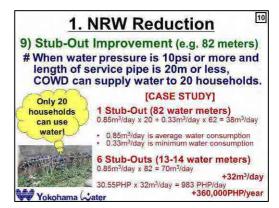


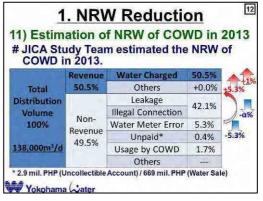








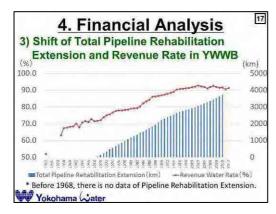


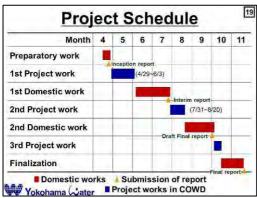






Yokohama Water





# Assignment of COWD Project work in Domestic # Continuously leak survey # Illegal connection survey # Extracting of exposed pipe until midSeptember (location, pipe size and pipe length) and cost estimation of replacement # Mother meter installation and measurement MNF in Macabalan # Establishment of procurement and inventory management plan of chlorine and mother meters # Establishment of rule of DMA monitoring and analyzing



### 6.5.3 第3次現地業務 2014年10月21日(火)@COWD 2014年10月22日(水)@JICA

