

Water Utility: Guimba Water District (Guimba WD)

Guimba, Nueva Ecija, Philippines

Contact Details: General Manager: Felixberto, C. Legarda
 Corner Faigal & Danzalan Streets, Guimba, Nueva Ecija
 Tel 1: (044) 611 1202 Tel 2: (044) 611 0141
 Fax: (044) 611 0141 Email:

Services Provided: Piped water, , , ,
Utility Type: , Government with separate reporting for WS&S, , , , ,

Private Sector Involvement: None, , , , ,

Source of Raw Water: , , , Groundwater,

Treatment Method: , Disinfection, , , , ,

Water Supply System description:

Production capacity = N/A		Distribution network = 42 km		Storage capacity = 1,230 m3
Area of Responsibility		Present Service Area		
Area (sq km)	259	40		
Population	93,787	35,009		
No. of Towns = 14		Population served = 34,701		
<u>No. of connections:</u>	Domestic (Households) = 1,446	Non Domestic = 209	Total Connections = 1,655	
Typical service connection length = m		Connections with operating meter = 1,655		
System input volumes:	Produced by W.U. = 0.5 million m3/year	Bulk water imported = zero		
Water consumption:	Metered cons. = 0.4 million m3/year	% Unmetered cons. = N/A		Ave. meter inaccuracy = N/A
Water Sales:	Domestic = 0.3 million m3/year	Non Domestic = 0.1 million m3/year		Bulk Water sales = zero
<u>System Performance:</u>	No. of connections with intermittent supply = N/A		Typical duration of supply = 24.0 hours / day	
No. of pipe breaks in distribution system = 30 / year		Typical water pressure in mains = N/A		
Chlorine Residuals:	Tests required = N/A	Tests carried out = N/A	Tests passed = N/A	

Human Resources (Staff)

<u>Type of employment:</u>	Permanent staff: salaried Government employees, , , , ,			
<u>No. of staff (FTE):</u>	Corporate Services = 7	Water Supply = 16	Other = zero	Total = 23
<u>Staff Training:</u>	No. Trained = N/A	Training days = N/A	Training costs = N/A	

Customer information

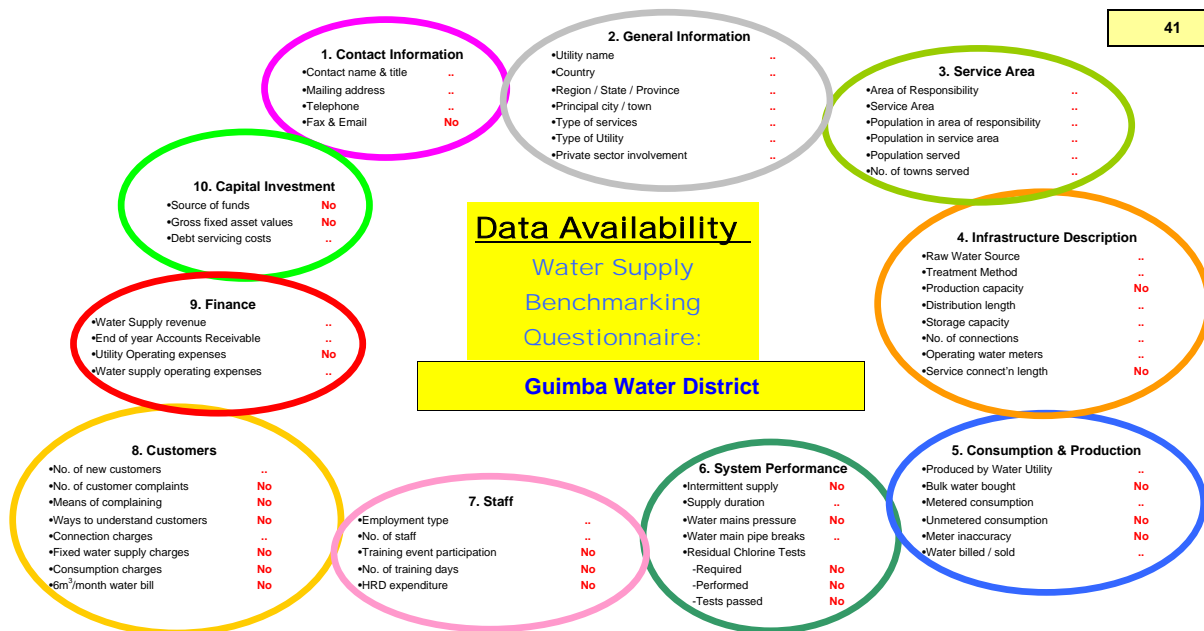
Customer interaction:	New connections = 249 / year	Customer complaints = N/A
Complaint method: , , , ,		
Understanding customers by: , , , ,		

Charges & Fees

<u>Typical connection charge:</u>	Domestic = 2,200PHP / conn. (39 US\$ / conn.)		Non Domestic = N/A	
<u>Fixed water charge:</u>	Domestic = N/A	Non Domestic = N/A		Bulk water sales = N/A
	N/A	N/A		N/A
<u>Water consumption tariff</u> (typical of all towns and in each category):	Tariff Block 1	Tariff Block 2	Tariff Block 3	Tariff Block 4
Domestic	From - To (m ³)			
	Price (PHP / m3)			
	(US\$ / m ³) .			
Non Domestic	From - To (m ³)			
	Price (PHP / m3)			
	(US\$ / m ³) .			
Bulk Water	From - To (m ³)			
	Price (PHP / m3)			
	(US\$ / m ³) .			
Water bill for household consuming 6 m ³ /month =				N/A N/A

Finances

<u>Revenue:</u>	Water Sales	Other water related	Subsidies & grants	Total	Year end Accounts Receivable	
	PHP / year	8,797,565	zero	zero	8,797,565	713,275
	US\$ / year	\$157,606	zero	zero	\$157,606	\$12,778
<u>Operating Expenses:</u>	Water supply	Other services	Company Overhead	Total		
	PHP / year	zero	zero	zero	7,819,390	
	US\$ / year	zero	zero	zero	\$140,082	
<u>Water Supply Operating breakup:</u>	Labor	Electricity	Chemicals & materials	Contracted out	Other expenses	
	PHP / year	2,528,751	1,180,075	1,025,000	zero	3,085,562
	US\$ / year	\$45,302	\$21,141	\$18,363	zero	\$55,277
<u>Investment funds source:</u> , , , , ,						
<u>Fixed Assets value:</u>	Water supply	Other services	Company Overhead	Total	Debt Servicing Costs	
	PHP	zero	zero	zero	14,161,929	140,988
	US\$	zero	zero	zero	\$253,707	\$2,526



Calculation of Overall Performance Indicator (OPI)

Customer Indicators	Value	Rank
Service Coverage in existing service area (%)	99.1%	(9 / 45)
Meter coverage (% with operating water meter)	100.0%	(1 / 46)
Customer complaints / 1000 connections	#N/A	

Water Supply Systems O&M	Value	Rank
Supply Continuity (% of time water available)	100.0%	(1 / 47)
Residual Chlorine tests passed (%)	#N/A	
Total Unmetered Consumption (% of metered cons.)		
Infrastructure Leakage Index [ILI]	#N/A	

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Overall Performance Indicator (OPI) = - 0.14
 Number of Standardized Indicators available = 7
 Overall Ranking = (30 / 47)

Human Resource Indicators	Value	Rank
Total water related staff / 1000 connections	13.9	(37 / 38)
Investment in staff training (days / staff)	#N/A	
Ave. cost of employment / staff (% of per capita GNI)	182%	(29 / 37)

Financial Indicators	Value	Rank
Operating Cost Coverage (water sales only)	1.13	(24 / 43)
Unit water cost (US\$ / m ³ of system input)	\$0.27	(43 / 43)
Water system asset value / Prod'n capacity (US\$ / m ³ /day)	#N/A	
Debt servicing ratio (% of total operating revenue)		

Financial Indicators: Annual expenses & revenue

<u>Operating Cost Coverage</u>		<u>Expenses</u>	
Operating Cost Coverage (water sales only)	1.13	Overhead expenses / Total Operating expenses ratio	#N/A
Operating Cost Coverage (total revenue)	1.13	Labour costs / Water operating expenses	#N/A
		Electricity costs / Water operating expenses	#N/A
		Chemical & other materials costs / Water operating expenses	#N/A
		Contracted out services costs / Water operating expenses	#N/A
<u>Revenue</u>		Unit water cost	(US\$ / m ³ of metered cons.) 0.36
Water sales revenue / Total revenue ratio	1.00		(US\$ / m ³ of system input) 0.27
Subsidies & Grants / Total revenue ratio	0.00	Debt servicing ratio (% of total operating revenue)	1.6%
Revenue Collection period (months)	0.97		
Unit water price - ave. (US\$ / m ³ of metered cons.)	0.41		

Fixed Assets

Corporate Fixed Assets / Total Fixed Assets	#N/A
Water system asset values	
Asset value / Total water related assets	#N/A
Asset value / Prod'n capacity (US\$ / m ³ /day)	#N/A
Asset value / pipe length (US\$ / m. pipe)	#N/A
Asset value / Customer (US\$ / conn.)	#N/A

System Input

Production capacity utilization (%)	#N/A
Bulk water imported (% of total system input)	0%
System Input Rate (litres/person/day)	41
(m ³ /connection/month)	26.0
System Input / Distribution ratio (m ³ /day per km pipe)	34.0
System Input / Storage ratio (m ³ /day per m ³ storage)	1.1
Supply Continuity (% customers with continuous supply)	100%
Supply Continuity (% of time water available)	100%

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OPI Ranking = 30 / 47

Human Resource Indicators

<u>Human Resource Utilisation</u>		<u>Human Resource Development</u>	
Overhead staff ratio (% of total FTE staff)	30%	Staff Training participation rate (% staff)	#N/A
Water supply staff ratio (% of total FTE staff)	70%	Staff Training duration rate (days / staff)	#N/A
Total water related staff / 1000 connections	13.90	Investment in staff training (% of direct labour costs)	#N/A
Direct water supply staff		Investment in staff training (% of total operating costs)	#N/A
Staff / 1000 connections	9.70	<u>Human Resources Costs</u>	
Staff / 1000 m ³ /day system input	11.40	Ave. cost of employment / staff (% of per capita GNI)	1.82
Staff / 100 km of pipework	38.30	Contracting out services / in-house Labour costs ratio	#N/A

Distribution

Distribution / customer (m. pipe per connection)	25.2
Storage / customer (m ³ per connection)	0.70
Residual Chlorine	
Sampling compliance (%)	#N/A
Tests passed (%)	#N/A
Non Revenue Water (UFW)	
% of System Input	24%
m ³ / km / day	8.2
m ³ / connection / day	0.21
NRW adjusted for continuous supply (% of System Input)	#N/A
Unbilled Authorized & Unauthorized Cons. (% of metered cons.)	#N/A
Unmetered cons. due to meter inaccuracies (% of metered cons.)	#N/A
Total Unmetered Consumption (% of metered cons.)	#N/A
Infrastructure Leakage Index [ILI]	#N/A
Mains failures ratio (breaks / km pipe / year)	0.70

Water consumption

Bulk water exported (% of total metered cons.)	0%
Average domestic water charges (% of per capita GNI)	0%
Metered consumption rate	
- Domestic (litres/person/day)	26
- Total Cons. (litres/person/day)	31
	(m ³ /conn/month)
	20
Total consumption - metered & unmetered	
	(litres/person/day)
	#N/A
	(m ³ /conn/month)
	#N/A
Domestic share of total metered consumption (%)	83%
Non Domestic share of total metered consumption (%)	17%

Demography

Average town / city size (persons / town)	6,699
Population density in area of responsibility (persons/sq.km)	363
Population density in existing service area (persons/sq.km)	883
Average Household size (persons / domestic connection)	24

Customer Interactions

Customer complaints / 1000 connections	#N/A
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Connections

Service Coverage in area of responsibility (%)	37%
Service Coverage in existing service area (%)	99%
Domestic / Non-Domestic connections ratio	6.9
Domestic / Non-Domestic consumption rate ratio	4.9
New connection growth rate (% / year)	15%
New domestic connection cost (US\$ / connection)	39
New domestic connections (% of per capita GNI)	0%
Meter coverage (% with operating water meter)	100%
Billed unmetered consumption (% of metered cons.)	0%

Water Sales & Production Information

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