

The Baliwag Water District Experience



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"Service is our Business"

Non-Revenue Water 14.26% (average) Water and Sanitation Provider

Government Owned and Controlled Corporation July 01, 1989

Water Rate: PhP180.00/ US\$3.80 (first 10 cu.m)

It has a total of 104
manpower that continuously
delivers excellent service to
29,396 service connections.
With this, it has 283:1
concessionaire-employee
ratio.

An ISO 9001:2008 certified **Category B** Water District

It has an average monthly collection of PhP 12.7M

Average monthly production is **588,160 m^{3.}** Its only source of water is the **groundwater.**

It covered all **27 Barangays** in Baliwag, and served 88% of the total population

Since May 2013 up to Sept. 2015, Septage Management Program has served 6,116 concessionaires (32.19%)



The Philippines

- Located in South East Asia
- Has a total of 17 Highly-Urbanized Cities (HUCs)
- Has 81 provinces and 1,494 municipalities
- 100 Million population
- Water Supply Coverage: 92%*
- Sanitation Coverage: 74%*





Sanitation Condition in the Philippines

- Limited access to improved sanitation facilities
- 7.8M(8%) don't have access to sanitation facilities at all
- Less than 10% has access to sewer network
- Vast majority(80%) uses toilets connected to septic tanks
- Septic tanks are poorly designed and rarely desludged
- 90% of generated sewage is not properly treated
- Most septic tank desludgers dispose septage in the "Service is our Business" wrong way.

*based on National Sewerage and Septage Management Program



Legal Framework

The Philippine Clean Water Act (RA 9275)

- Provides guidelines in the protection of water resources
- Mandates the implementation of sewerage and septage management program in the Philippines
- Requires the preparation of the National Sewerage and Septage Management Program (NSSMP)





The Philippine Clean Water Act

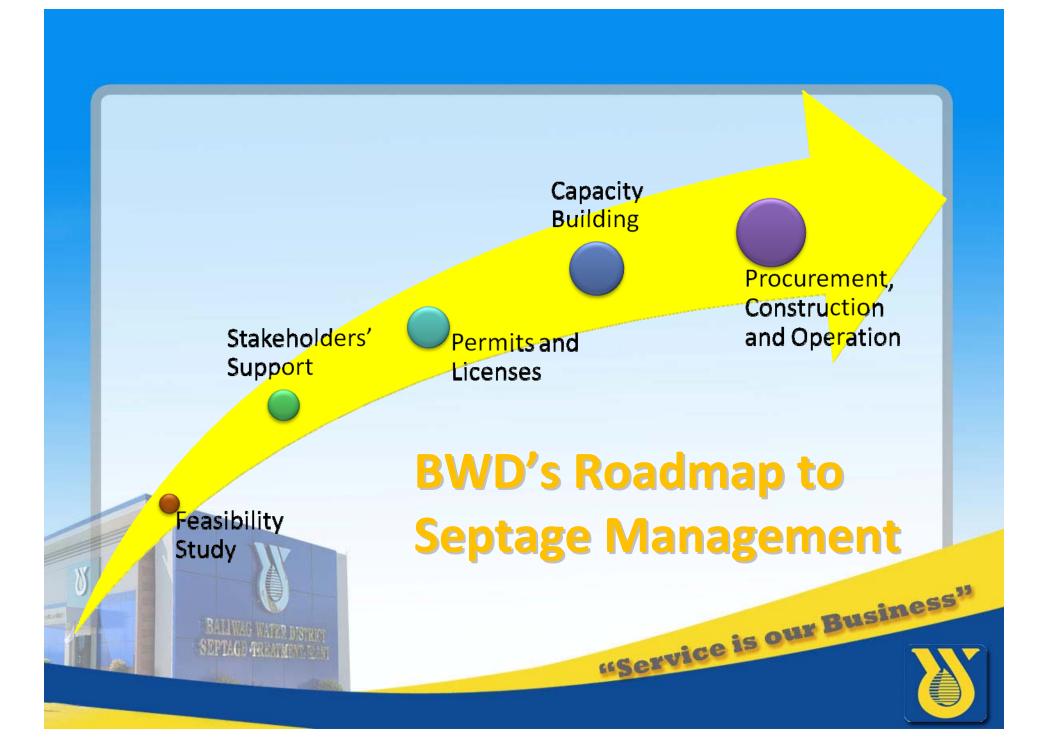
- Department of Public Works and Highways (DPWH) – lead agency of NSSMP
- Local Government Units, Water Districts or private service providers - major program implementers.











BWD Septage Management Program

Program Scope: Collection, **Treatment and Disposal of** treated water and dewatered sludge





- Treatment Plant Capacity: $30m^3$
- Facility: Fully-mechanized system
- Plant Operating Hours:

Primary Treatment: 8/5

Secondary Treatment: 24/7hess*



Septage Financial Background

- *Return of Investment 7 years
- Financial performance monitoring
 - Financial statement of septage treatment is ringfenced from the water supply

BALLWAG WATER DISTRICT SEPTAGE TREATMENT SENT



Implementation of the Program

 BWD entered into Public Private Partnership (PPP) through Service Contract





Why Service Contract?

- Has a quick and substantial impact on system operation and efficiency
- Provides a vehicle for technology transfer and development of managerial capacity
- Often short term that allows repeated competition in the private sector
- Barriers to entry are low that only a discrete service is up for bid, which results to pressure the contractors to maintain low costs





PPP Process

Project Preparation and Development

Project Review and Approval

Preparation of Bid Documents

Post Qualification and Bid Evaluation

Contract Award and Implementation



Project preparation and development

Comparative Cost Analysis between in house operation and service contract

USD 18,950/mo (in house operation) USD15,265/mo (service contract)



Project Review and Approval

 Presentation to the top management for their review and approval

 Presented cost comparative analysis and technical requirements





Terms of Reference

30m³

Maintenance of facilities

Health provisions

22 operational days

Chemical Expenses

Technical enhancement

Fuel Expenses

Power Expenses

Laboratory tests

Manpower

Trainings

Contract Agreement Roles

BWD

- Owns the facility
- Responsible in the management of the overall operation
- Tariff setting
- Asset management

Private Partner

- Septage collection
- Septage treatment
- Dewatered sludge disposal
- Maintenance of desludging equipment and treatment facility





Contract Compliance

- Performance monitoring
 - process performance
 - equipment performance
 - cost performance
 - other deliverables stated in the contract





Challenge

Challenge	Counter measure
Administration and strong enforcement of the contract	Strict monitoring program of the contract





Conclusion:

"Public-Private Partnership (PPP) in the form of service contract in Baliwag Water District (BWD) Septage Management is a "win-win" solution both for BWD and private partner. BWD were able to served its mandate to provide water and wastewater facility and fully recover its investment while private partner were able to generate income from this program."





Thank you! Salamat po!



