MAYNILAD PROCUREMENT PROCESS By Yolanda C. Lucas

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What we procure?





How do we classify projects?

www.mayniladwater.com.ph/contractor-main.php



Project Classification Modes of Bidding Projects for Bidding Accreditation Process Bidding Process Downloads



Since our re-privatization in 2007, we have been investing in infrastructure projects that will improve and expand water and wastewater services in the West Zone.

We are committed to sustaining our investments until the end of our contract with the Philippine government in 2037. Below are some of our infrastructure projects.

Primary Water Lines

 \cdot Laying of pipes with diameters above 300mm

Secondary and Tertiary Water Lines • Laving of pipes with diameters of 300mm and below

Civil Works and other Above-Ground Projects

Non-pipe laying projects

· Facilities, electromechanical works, valve insertions, among others

Bank-Financed Projects

· Projects to be funded by lending institutions

Consultancy Services

· Feasibility studies, procurement and design services



How do we procure?



Thru open invitation

For **bank-funded projects**, the procurement procedures of the bank is used.

For large and complex projects such as treatment plants, Maynilad uses the **international competitive bidding** process, patterned with World Bank procedures





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Advertise

Pre-qualify

Invite

Pre-bid conference Submit & Open bids

Eva

Award

	Base		Alternative	
Year	Total OPEX per year	Discounted OPEX per year	Total OPEX per year	Discounted OPEX per year
1	631,529,616.67	577,794,709	569,070,861.47	520,650,376.4
2	632,981,869.82	529,847,570	570,523,114.62	477,565,472.89
3	634,226,158.92	485,717,404	571,767,403.72	437,883,828.8
4	636,153,758.47	445,739,837	573,695,003.28	401,976,273.26
5	636,997,847.85	408,354,321	574,539,092.65	368,314,464.14
6	661,838,192.38	388,177,942	599,379,437.18	351,544,953.41
7	634,860,536.65	340,672,595	573,122,897.65	307,543,552.21
8	634,860,536.65	311,685,814	573,363,269.72	281,493,630.65
9	635,879,385.74	285,623,074	575,103,235.00	258,323,759.78
10	640,100,926.60	263,055,167	578,045,060.61	237,552,756.92
11	647,067,502.08	243,291,988	584,608,746.88	219,808,016.61
12	634,860,536.65	218,391,831	572,401,781.46	196,906,037.83
13	635,879,385.74	200,130,205	573,420,630.54	180,472,572.37
14	635,879,385.74	183,101,743	573,420,630.54	165,116,717.63
15	641,168,490.53	168,915,593	577,323,944.41	152,095,771.77
16	637,917,083.90	153,759,388	577,140,933.17	139,110,299.66
17	646,048,652.99	142,469,688	585,512,874.32	129,120,053.01
18	640,198,356.30	129,167,020	575,286,246.25	116,070,291.76
19	638,063,228.44	117,782,465	576,007,362.45	106,327,342.03
20	649,348,774.47	109,666,703	585,638,524.75	98,906,856.46
Total Discounted OPEX for 20 years		5,703,345,055		5,146,783,028.00
CAPEX (Sum of Schedule Nos. 1, 2, 3, 4)		3,714,924,453		3,932,490,413.00
Life Cycle Cost (Sum of CAPEX and Total Discounted OPEX for 20 years)		9,418,269,508		9,079,273,441.00

Technical evaluation is performed to check compliance to the technical requirements.

Life Cycle Cost evaluation is used for design-build projects wherein operation and maintenance is a huge part of the cost.

The bidder that submitted the technically complying proposal and lowest life cycle cost wins the award



Table 6 Read Out Operational Cost for 20 years

Why use LCC approach?



Pre-bid conference Submit & _____ Open bids _____

Evaluate

Award

- Recommended for major capital projects which involves high operational expenses
- Understand tradeoffs between the purchase price and operating costs.
- Minimize total cost of ownership
- Motivate contractors to optimize the design considering balance of purchase price and operating costs in the entire life of plant.
- Ensure sustainability of plant





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'EAR	Description	Contract Amount
2012	Pasay Sewage Treatment Plant	Php1.03 B (approx USD20.6M)
2013	Valenzuela Sewage Treatment Plant	Php1.22 B (approx USD 24.4M)
2013	Cupang Sewage Treatment Plant	Php1.04 B (approx USD20.8M)
2013	Tunasan Sewage Treatment Plant	Php0.69 B (approx USD13.8M)
2014	Paranaque Water Reclamation Facility	Php1.40 B (approx USD28M)
2015	Cavite Water Reclamation Facility	Php0.64 B (approx USD12.8M)
2016	Putatan Water Treatment Plan	Php4.67 B (appox USD 93.4M)
2016	La Mesa Treatment Plant 1 Improvement	Php4.71 B (approx USD94.2M)



Challenges of using LCC approach



- Pre-qualifications or selection of contractors capable of delivering high quality infrastructures
- Capacity building in terms of technical understanding on best available technology, managing implementation of high quality infrastructures and its effective operation and maintenance.
- More complex evaluation more time required
- Verifying the forecasted operational and maintenance cost of bidders
- Process Proving is limited to one year and newly installed equipment are expected to perform well. How to guarantee the succeeding years?



How to overcome?



- Pre-qualifications or selection of contractors capable of delivering high quality infrastructures
 - hiring of capable consultant
- Capacity building in terms of technical understanding on best available technology, managing implementation of high quality infrastructures and its effective operation and maintenance.
 - continuous trainings of in-house engineers



How to overcome?



- More complex evaluation more time
 - Must have available actual data of performance of similar plants
 - Exert more effort in detailing major components of cost
 - Ensure competency of technical working group
- Verifying the forecasted operational and maintenance cost
 - Must have experience and expert people to evaluate reasonableness of forecasted O&M cost
 - Actual data from previous similar projects
 - Post Contract Monitoring



How to overcome?



- Process Proving is limited to one year and newly installed equipment are expected to perform well. How to guarantee the succeeding years?
 - Thru Functional Guarantees



Learning Process (Functional Guarantees)

process proving





Guarantee of Life Cycle Cost







