

## Supplementary document

**Table S1.** Capital costs of the proposed RWH system.

Section	Item	Suppliers	Quantity	Cost per Unit	Cost per Section
Rainwater collection	Leaf eaters	The Tank Factory	1 item/house	AUD 70	
	First flush diverters	The Tank Factory	1 item/house	AUD 85	
	Downpipes	Reece	1 item/house	AUD 210	AUD 615
	Stormwater collection pipe (Product code: 1400380)	Reece	60 m/house	AUD 250	
Rhino rural rainwater tank includes:					
Rainwater storage tank	Tank (25–365 kL)			AUD 6066	AUD 6066
	Pad		1 item if Vmax ≤ 365 kL	(25 kL) –	(25 kL) –
	Dust/vermin proofing seal	Kingspan	Multiple items if Vmax > 365 kL	AUD 28,322 (365 kL)	AUD 28,322 (365 kL)
	Fire fittings required by local governments				
Tank level gauge					
Exclusion zone					
Bulk water 10% volume					
Rainwater treatment	pH neutraliser (SKU: WF1034)	Pacific Water Technology	1 item	AUD 2500	
	Sediment filter (SKU: GT1-8WMW)	Filter Systems Australia	1 item	AUD 260	
	Heavy metal removal filter (SKU: WF021)	Pacific Water Technology	1 item	AUD 5000	
	UV lamp steriliser (SKU: UV0020)	Pacific Water Technology	1 item	AUD 1500	AUD 20,410
	Jet pressure pumps (SKU: reef-prj80e)	The Tank Factory	2 items	AUD 575	
	Drinking water storage tank and concrete base (SKU: R13500)	The Tank Factory	1 item	AUD 3000	
Drinking water distribution					
Drinking water supply	pipe (Product code: 1450650)	Reece	60 m/house	AUD 275	AUD 375
Drinking water taps/dispensers					
Labour	Project manager with construction workers	Local Labour	1 h/house	AUD 100 (AUS) AUD 25 (VN)	

**Table S2.** Replacement costs of the proposed RWH system.

<b>Replacement Items</b>	<b>Frequency</b>	<b>Cost per Unit</b>
Pipelines	25 years	AUD 525/house
Rainwater tank liner	20 years	AUD 606 (25 kL)–AUD 2832 (365 kL)
Drinking water tank	20 years	AUD 2075
Jet pressure pumps	10 years	AUD 575
Solar micro-inverters	10 years	AUD 1000
Metsorb® filter system	10 years	AUD 5000
Sediment filter	annually	AUD 80
Calcite media	annually (estimated 50 kg/year)	AUD 200
UV lamp	annually (lamp life 10,000 h)	AUD 112

**Table S3.** Maintenance costs of the proposed RWH system.

<b>Maintenance Items</b>	<b>Frequency</b>	<b>Quantity</b>	<b>Cost per Unit</b>
Roof catchments cleaning service	annually	1 service/house	AUD 30
Rainwater treatment system service	annually	1	AUD 220
Rainwater tank service	5 years	1	AUD 616
Drinking water tank service	5 years	1	AUD 250

Data<sup>1</sup> are the number of households in the community.**Table S4.** Economic parameters for use in the LCCA.

<b>Economic Parameters</b>	<b>Australia</b>	<b>Vietnam</b>	<b>Unit</b>
Interest rate	4	4	%
Inflation rate	2.3	4	%
Inflation rate of water	1.7	4	%
GST	10	10	%
Mains water costs (government policy)	2.35	0.85	AUD/kL
Bulk water costs (truck tankers)	120	30	AUD/kL
Bottled water costs (wholesalers)	400	100	AUD/kL