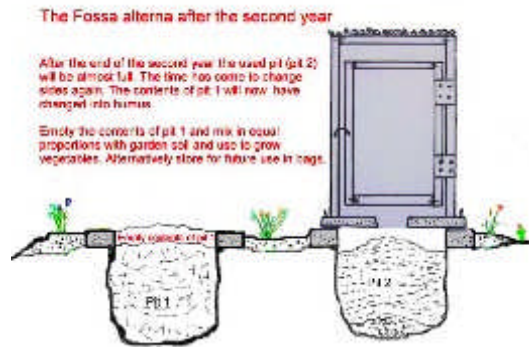


LeaPPS Info: FOSSA ALTERNA¹²

INFORMATION ABOUT CONSTRUCTION COST FOR LOCAL (= almost 'zero' cost) AND MORE ADVANCED OPTIONS



Indicative Cost of Low Cost Solution

A concrete slab is most important: Cost of slab only: about UgSh 16,000 excluding labour
Alternative local materials at "zero" cost for sub-structure are sun-dried clay bricks and ant-hill soil as mortar. And for superstructure locally available wooden poles and branches for framework; papyrus or palm leaves, grass, bamboo etc. for walls; and same for roofing materials

Indicative Bill-of-Quantities of sub-structure of advanced option

Option: permanent collars three courses burnt bricks, movable slab, no ventilation pipe.

Size pits: 90x90 cm²; Depth pits 90 cm under top collar

Reinforced Concrete Slab: 100x100 cm²; thickness 40mm; with four hooks for lifting

Prices – shops and producers Kampala

Item description	Unit	Quantity	Unit cost UgSh	Sub-total UgSh
Burnt bricks	each	100	90	9,000
River sand	sacks	3	2,500	7,500
Cement	bag	0.75	26,000	19,500
Reinforcement wire diam. 3 mm	m	9	500	4,500
			Total materials	40,500
Labour for digging of pits	day	0.5	8,000	4,000
Labour for laying bricks	day	1	8,000	8,000
			Total labour	12,000
Indicative Grand total				UgSh 52,500

Indicative Bill-of-Quantities of super-structure

Option: Wooden frame attached to slab (hooks), papyrus wall closing, corrugated iron sheet

Prices – shops and producers Kampala

Item description	Unit	Quantity	Unit cost UgSh	Sub-total UgSh
Timber 40x80mm ²	m	3	2,000	6,000
Timber 50x50 mm ²	m	10	1,500	15,000
Timber 28x40 mm ²	m	35	800	28,000
Nails 60mm	kg	1/2	3,500	1,750
Bolt, nut, washer 12mm	each	4	1,500	6,000
Screws	each	10	200	2,000
Preservative for timber	litre	1.5	5,000	7,500
Hinges	each	2	1,500	3,000
Corrugated alum. sheet- 3m	each	1	19,500	19,500
Papyrus mats/closing walls	total			9,000
			Total materials	97,750
Labour cost: Carpentry work	day	2	8,000	16,000
			Total labour	16,000
Indicative Grand Total				UgSh 113,750

¹ Reference: Peter Morgan and SEI (2004) An ecological approach to Sanitation in Africa: A compilation of experiences (Aquamor) Harare, Zimbabwe. Also http://www.ecosanres.org/PM_Report.htm

² . see also LeaPPS Info Cases 2008-2 and -3 <http://www.watsanuganda.watsan.net> & <http://www.irc.nl/page/38717>