

First Edition, February 2011



Compost Bill of Quantities

Activity schedule and Bill of Quantities for S	SOIL Compost Structure Mk.X							
Notes:								
Activity schedule for labour costs								
1, Labour costs per activity are not provided and should	d be negotiated with a competent cor	ntractor						
Item (en KREYOL)	ltem (en Anglais :)	Length	Width	Height/Depth	Total	Unit	Unit cost (H\$\$)	Total cost (H\$\$)
Remblai	Granular foundation material	16.2	6	0.2	19.44			0
Beton	Concreting	16.2	6	0.13	12.636	m³		0
Cirage	Floating concrete	16.2	6	1	97.2	m²		0
Coffrage, longuer	Formwork, length	16.2	2	1	32.4	m		0
Coffrage, largeur	Formwork, width	6	2	1	12	m		0
Blok 15	Setting 15cm cinder blocks	162.5	1	1	162.5	Unit		0
Crepis Blok	Rendering blocks	65	0.55	1	35.75	m²		0
Monter poteau	Installing columns	21	1	1	21	Unit		0
Placement Panno interieur (latte + twil)	Constructing Walls: Interior	90	1	1	90	m		0
Placement Palet Panno exterieur (Palett + latte + twil)	Constructing walls: Exterior	40	1	1	40	m		0
Toiture	Roof construction	17	6	1	102	m2		0
Placer Tiyo 4"	Placing leachate drains	6	1	1	6	Unit		0
Plasmen doum 15 gallon	Placing juskaka drum	3	1	1	3	Unit		0
							Total H\$	-
							5%	-
							Total H\$	-
							Total HTG	-
							Total US\$	-
Bill Of Quantities								
1, Unit costs are based on 2010 Port-au-Prince costs.								

Item (en KREYOL)	Item (en Anglais :)	Total	Unit	Unit cost (H\$\$)	Total cost (H\$\$)
Remblai	Granular foundation material	3	6 m ³ camion	450	1350
Gravier	Gravel	2	6 m ³ camion	800	1600
Sable	Sand	2	6 m³ camion	800	1600
Ciment	Ciment	55	Unit	60	3300
Blok 15	15cm cinder blocks	170	Unit	5	850
Planches (for coffrage)	Wood, 1*8, 12', for formwork	10	Unit	120	1200
2*4, 16' (poteau)	Wood, 2*4, 16', for columns	21	Unit	135	2835
2*4, 16' (toiture)	Wood, 2*4, 16', for roof	21	Unit	135	2835
Lattes (panno)	Wood, 1*4, 14', for walls	65	Unit	80	5161.5
Lattes (toiture)	Wood, 1*4, 14', for roof	22	Unit	80	1760
Twil (100' * 3')	Chicken wire, 1/4", 100' * 3'	9	Unit	450	4050
Pallets	Palett	32	Unit	50	1600
Feuilles toles	Zinc sheet	80	Unit	65	5200
Clous, Toles	Nails, zinc sheet	20	Llbs	40	800
Clous, 4"	Nails, 4"	10	Llbs	40	400
Clous, 2.5"	Nails, 2.5"	10	Llbs	40	400
Tiyo 4", 10'	PVC drainpipe, 4", 10'long	1	Unit	50	50
Doum 15 Gallon	15Gallon drum jikaka	3	Unit	200	600
Mixer + Operateur	Rental of Concrete mixer	1	Lump Sum	500	500
peiture	Paint	2	gallon	100	200
				Total H\$	36,292
				Total HTG	181,458
				Total US\$	4,536
		TOTALS LABOUR	MATERIALS:		
				Total HTG	
				Total US\$	

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Photo K1:

Mk.I Compost Structure: Simple wooden structure immediately behind toilet, no floor, no roof.

Location: Cap-Haitien



Photo K2:

Mk.II Compost Structure: Angled wood/toles roof and walls, no floor.

Location: Cap-Haitien

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Photo K3 a,b,c:

Mk.III Compost Structure: Block walls, concrete floor with drainage, removable wood/toles roof and walls.

Location: Cap-Haitien

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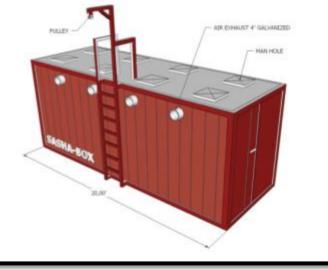
Photo K4:

Mk.IV Compost Structure: Pallet walls, long structure, earth floor.

Photo K5 a,b:

Mk.V Compost Structure: Steel shipping container modified with air ducts, manholes in roof, ladder access, and pulley.





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Photo K6 a,b,c:

Mk.VI Compost Structure: Pallet walls with hessian sack lining, earth floor, plastic sheeting cover.

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Photo K7:

Mk.VII Compost Structure: Pallet walls with hessian sack lining, square structure, sloped concrete floor with drain, perimeter wall constructed with blocks.

Photo K8 a,b:

Mk.VIII Compost Structure: External walls with hessian sack lining, internal space compartmentalized by wooden internal walls, sloping concrete floor with drain, removable toles roof.



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Photo K9:

Mk.VIX Compost Structure: Pallet walls with bagas lining, internal bagas walls, concrete floor sloping to drain, permanent roof.



Photo K10:

Mk.X Compost Structure: Pallet walls with bagas lining, internal bagas walls, concrete floor sloping to MANIFOLD drain, permanent roof.

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Photo K101:

Concrete base with wooden columns.



Photo K102:

Finishing the concrete base; 'cirage'.

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Photo K103:

Setting the columns before concreting the base.



Photo K104:

Low level block walls creating the 6 compost compartments

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Photo K105:

Jikaka leaking through block walls on inside of compost structure

Photo K107:

Rendering the block walls to prevent jikaka leaching through



Photo K106: Jikaka leaking through block walls on outside of compost structure

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Photo K108: Leachate drain from 2 compost compartments collected in a single 15 gallon drum



Photo K109:

Leachate drain from 2 compost compartments collected in a single 15 gallon drum Photo K110:

Jikaka leaking through space beneath leachate drain

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Photo K113:

Filling bagas walls BEFORE drum dumping begins

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Photo K112:

Interior walls construction.

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Photo K114:

The Mk. X roof from the inside

The Mk.X wooden roof structure

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Photo K116:

The finished structure from the outside, showing concrete walkway around structure.



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Photo K117:

Jikaka leaking through walls and beneath leachate drains on the Mk.VIII compost structure.

Photo K119:

Repairs to exterior walls required to stop jikaka leakage.



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Photo K201:

Lining the sides of the compost structure with bagas

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Photo K202:

Building the compost pile: Emptying the poop drums



Photo K203:

Building the compost pile: Adding bagas

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Photo K204b:

Compost pile covered with chicken wire

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Photo K204c:

Returning the jikaka onto the compost pile



Photo K204d:

Measuring the temperature of the compost pile

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Photo K205a:

Stocking the poop drums



Photo K205b:

Positioning the poop drums inside the compost structure

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Photo K206a,b:

The drum cleaning zone or 'carwash', with and without roof structure

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Photo K208:

Solids trap on drum cleaning zone



Photo K209:

Breaking the '20 drum rule' creates unsanitary conditions for cleaning the drums

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Photo K210:

Dirty drums next to drum cleaning zone, ready for cleaning



Photo K211:

A clearly delineated clean drum depot in the shade of a mango tree

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Photo K212: Compacted compost pile at end of phase 1 composting



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