

**TAMBACH WARD 2017/2018**  
**PROJECT: KIBOSYO 25 M<sup>3</sup> TANK**

**BILL NO: 4.0. 25M<sup>3</sup> GROUND MASONRY TANK AT KIBOSYO**

Item	Item description	Qty	Unit	Rate	Amount
4.10	<b>4.1 preliminary and general items.</b> <b>Allow for watering the tank and testing</b>				
4.1.1	<b>SUPERVISION.</b> <b>Allow for watering the tank and testing</b>  The contractor shall allow for the engineers and /or his representative's supervision an overheads for 3 months contract period at a rate of Ksh <b>30,000.00</b> per month.	Item	Ls	10,000/=	10,000
4.1.2	Sign post	3	Months	10,000/-	30,000
		1	NO		
<b>TOTAL CARRIED TO SUMMARY SHEET</b>					

**BILL NO: 4.2 EXCAVATION AND EARTH WORKS**

Item	Item description	Qty	Unit	Rate	Amount
4.2.1	Clear site of bushes, shrubs, grub uproots and disposes of spoil.	38	M <sup>2</sup>		
4.2.2	Excavate oversite to reduce levels not exceeding 1.5m deep starting from the existing ground level and remove to temporary spoil heap.	20	M <sup>3</sup>		
4.2.3	Excavation on rock back filling material not exceeding	15	M <sup>3</sup>		
4.2.4	Allow for keeping all the excavations free from foreign materials and general waters.	L/S	Item		
4.2.5	Provide and apply anti- termite solution preferably Gladiator or any other approved grade to the surfaces of excavation.	20	M <sup>2</sup>		
4.2.6	Provide, place and compact hardcore 300mm thick to make up levels.	6	M <sup>3</sup>		
4.2.7	Provide and compact 50mm thick selected murrum blinding to the surface of hardcore.	5	M <sup>3</sup>		
4.2.8	Provide and place 1000gauge polythene sheet to the surface of blinded hardcore.	20	M <sup>2</sup>		
	<b>TOTAL CARRIEDNT0 SUMMARY SHEET</b>				

**BILL NO: 4.3 CONCRETE WORKS AND REINFORCEMENT**

Item	Item description	Qty	Unit	Rate	Amount
4.3.1	Reinforced concrete grade 20/20 (1:2:4) as described to the following. 150mm thick floor slab mixed with 1kg water proof /50kg bag of ordinary Portland cement.	3.0	M <sup>3</sup>		
4.3.2	Ditto 250mmx250mm square columns	0.3	M <sup>3</sup>		
4.3.3	Ditto 250mmx 250mm cross beams	0.3	M <sup>3</sup>		
4.3.4	Ditto 100mm thick roof slab	5.0	M <sup>3</sup>		
	Provide, handle, cut to size and fix the following reinforcement bars as stated in the bending schedule.				
4.3.5	12mm twisted bars to the beams	50	Kg		
4.3.6	Ditto to columns	40	Kg		
4.3.7	Ditto to roof slab	260	Kg		
4.3.8	Ditto to floor slab	280	Kg		
4.3.9	6mm bars to beams and columns	10	Kg		
4.3.10	8mm circumferential bars to the walls	200	Kg		
4.3.11	Allow for binding wires for tying the reinforcement				
4.3.12		10	Kg		
4.3.13	Transport cost of materials from the road to the tank site(by people)	item	l/s		
	<b>TOTAL CARRIED TO SUMMARY SHEET</b>				

**BILL NO: 4.4 WALLING, SHUTTERING AND FORM WORK**

Item	Item description	Qty	Unit	Rate	Amount
4.4.1	Provide, handle materials, mix mortar as per specification and construct 225mm thick reinforced concrete block wall in 1:1:3 cement: water proof cement: sand mortar.	35	M <sup>2</sup>		
4.4.2	Sawn timber formwork to the sides of foundation slab.	12	M		
4.4.3	Sawn timber formwork to edges of the roof slab.	35	M		
4.4.4	Sawn timber formwork to the soffit of the roof slab.	32	M <sup>2</sup>		
4.4.5	Sawn timber 3"x2" to the soffit roof slab.	40	M		
4.4.6	Struts/timber supports of approved size and quality average height 3.0m.	80	NO		
4.4.7	Provide and fix 1000gauge polythene sheeting to top of timber formwork to the roof slab.	15	M <sup>2</sup>		
4.4.8	Provide, handle and fix bondex between the tank wall and the slab as per the drawing.	10	Kg		

4.4.9	<b>FINISHES</b>				
	20mm thick cement: sand (1:2) mixed with	25	M <sup>2</sup>		
4.4.10	water proof cement to the inside walls.	15	M <sup>2</sup>		
4.4.11	Ditto the floor slab	27	M <sup>2</sup>		
4.4.12	Ditto to the external walls	13	M <sup>2</sup>		
4.4.13	Ditto to the exterior surface of the roof slab	16	M <sup>2</sup>		
4.4.14	Ditto to the interior of the roof slab				
	Provide materials and apply 2 coats of first grade gloss oil paint to the external walls	25	M <sup>2</sup>		
<b>TOTAL CARRIED TO SUMMARY SHEET.</b>					

**BILL NO: 4.5 ANCILLARIES AND PIPEWORK**

Item	Item description	Qty	Unit	Rate	Amount
4.5.1	Fabricate and fix a vertical ladder comprising 25mm stainless steel tubing average height 3.0m to the internal and external surfaces of the tank.	2	NO		
4.5.2	Fabricate and fix 600mmx600mm x3mm thick metal plate, manhole covers complete with lockable device and high quality padlock.	3	No		
4.5.3	Construct and complete in dressed stone walling 1500mmx1500mm x 1000mm manhole chambers.	1	No		
4.5.4	Provide and install air vents to the roof slab of the tank comprising 100mm diameter G.I pipes, nipple, and 2No G.I elbows. <b>Provide,handle,lay and fix the following pipes and fittings as described to;</b>	3	No		
	Outlet pipe.				
4.5.5	50mmØ G.I pipe class B	4	M		
4.5.6	Ditto 90 degrees bend	1	No		
4.5.7	Ditto nipple	1	No		
4.5.8	50mm Ø sluice valve	1	No		
	<b>Scour inlet and Overflow pipes.</b>				
4.5.9	50mmØ G.I pipe C/B	6	M		
4.5.10	50mm G.I Pipe C/B	6	M		
4.5.11	50mm 90 degrees bend G.I	1	No		
4.5.12	50mm 90 degree bend G.I	3	No		
4.5.13	50mm sluice valve	2	No		
<b>TOTAL CARRIED TO SUMMARY SHEET</b>					

**25M<sup>3</sup> GROUND MASONRY TANK CONSTRUCTION AT**

**SUMMARY SHEET**

BILL	BILL DESCRIPTION	AMOUNT KSH.
4.1	Preliminary and general items.	
4.2	Excavation and earth works	
4.3	Concrete works and reinforcement	
4.4	Walling ,shuttering and form work	
4.5	Ancillary and pipe work	
<b>GRAND TOTAL CARRIED TO FORM OF TENDER</b>		

**AMOUNT IN WORDS (KSHS).....**  
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**CONTRACTOR'S NAME.....**

**ADDRESS.....**

**SIGN.....**

**STAMP.....**