

**ENDO WARD
SAMBALAT WATER PROJECT FY17-18
PROPOSED CONSTRUCTION OF 100M³ GROUND MASONRY WATER TANK**

BILL No 1. PRELIMINARY ITEMS.

Item	Item Description	Qty	Unit	Rate	Amount
A1	PROVISION OF WATER FOR CONSTRUCTION WORKS. The contractor shall allow for the provision of water for the general construction works including temporary holding structures.	Ls	Item	60,000	60,000.00
Total Bill No1. carried to summary					60,000.00

PROJECT :- PROPOSED 100M³ GROUND MASONRY TANK

BILL No 2. EXCAVATION AND EARTH WORKS.

Item	Item Description	Qty	Unit	Rate	Amount
2.1	Clear site of bushes, shrubs, grub the roots and dispose of 50m away.	60	M ²		
2.2	Excavate oversite to reduce levels not exceeding 1.5m deep starting from the existing ground level and remove to temporary spoil heap.	80	M ³		
2.3	Extra over excavation for excavating in rock (provision).	5	M ³		
2.4	Allow for keeping all the excavations free from foreign materials and general waters.	Ls	Item		
2.5	Provide and apply anti-termite solution preferably Gladiator or any other approved anti-termite solution to the general surfaces of excavations.	Ls	Item		
2.6	Provide , place and compact hardcore of approved quality 300mm thick to make up levels	25	M ³		
2.7	Provide and compact 50mm thick selected murrum blinding to the surfaces of hardcore.	10	M ³		
2.8	Provide and place 1000gauge polythene sheet to the surfaces of blinded hardcore.	60	M ²		
Sub-Total Bill No 2. carried to summary					

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BILL No 3 CONCRETE WORKS AND REINFORCEMENT.

Item	Item Description	Qty	Unit	Rate	Amount
	Reinforced concrete grade 20/20 (1:2:4) as described to the following				
3.1	150mmthick floor slab mixed with 1kg water proof/50kg bag of ordinary Portland cement.	12	M ³		
3.2	Ditto to 250x250mm square columns	1	M ³		
3.3	Ditto to 250x250mm cross beams to the roof slab.	1.5	M ³		
3.4	Ditto to 100mm thick roof slab	10	M ³		
3.5	Mass concrete (1:2:4) to off take, intake and overflow pipes.	1	M ³		
	Provide ,handle ,cut to size and fix the following reinforcement bars as stated in the bending schedule.				
3.6	12mm diameter twisted bars to beams	100	M		
3.7	Ditto to columns	80	M		
3.8	Ditto to roof slab 10mm	960	M		
3.9	Ditto to floor slab 10mm	650	M		
3.10	6mm diameter bars to beams & columns	120	M		
3.11	8mm diameter bars circumferential bars to the walls.	1050	M		

3.12	Allow for binding wires for tying the reinforcements.	50	Kg		
Sub- total Bill No 3 carried to summary					

PROJECT :- PROPOSED 100M³ GROUND MASONRY

BILL No 4 WALLING, SHUTTERING & FORMWORK.

Item	Item Description	Qty	Unit	Rate	Amount
	Provide, handle materials, mix mortar as per specification and construct				
4.1	200mm thick block reinforced concrete block wall in 1:1:3 cement: water proof cement: sand mortar.	74	M ²		
4.2	Sawn timber formwork to the sides of foundation slab	25	M		
4.3	Sawn timber form work to edges of the roof slab	100	M		
4.4	Sawn formwork to the soffit of the 100mm thick roof slab.	60	M ²		
4.5	Sawn timber 3"x2" to the soffit of roof slab	100	M		
4.6	Struts/timber supports of approved size and quality average height 3.0m.	100	No		
4.7	Provide and fix 1000 gauge polythene sheeting to top of timber formwork to the roof slab.	60	M ²		
4.8	Provide, handle and fix bondex between the tank wall and the floor slab as per the drawing.	20	Kg		
	FINISHES				
4.9	25mm thick cement: sand(1:3)mixed with water proof cement to the inside walls	62	M ²		
4.10	Ditto the floor slab	64	M ²		
4.11	Ditto to the external walls	74	M ²		

4.12	Ditto to exterior surface of roof slab	62	M ²		
4.13	Ditto to the interior surface of roof	64	M ²		
4.14	Provide materials and apply 2coats of tryolene(rough cast) using white cement to the external walls of tank	74	M ²		
Sub-total Bill No 4 carried to summary					

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BILL No 5 ANCILLIARY AND PIPEWORK

Item	Item Description	Qty	Unit	Rate	Amount
5.1	Fabricate and fix a vertical ladder comprising 25mm mild steel tubing average height 3.0m	2	No		
5.2	Fabricate and fix, 600mmx600mm x3mm thick plate , man hole covers complete with lockable device and high quality padlock	3	No		
5.3	Construct and complete in concrete block walling man hole chambers measuring 1.5mx1.5mx 1.2m high.	2	No		
5.4	Provide and install air vents to the roof slab of the tank comprising 100mm diameter G.I piece, nipple and 2No G.I elbows.	3	No		
	Provide ,handle ,lay and fix the following pipes and fittings as described to:				
	Out let pipe				
5.5	50mm diameter G.I pipe	24	M		
5.6	Ditto 90° bend	1	No		
5.7	Ditto nipple	1	No		
5.8	50x100 G.I Reducing socket	1	No		
5.9	50mm diameter sluice valve	1	No		
	Scour, inlet and over flow pipes				
5.10	50mm diameter G.I pipe	15	M		
5.11	50mm 90° G.I bend	2	No		
5.12	50mm diameter sluice valve	2	No		
5.13	50mm diameter G.I elbow	1	No		
5.14	50mm diameter G.I Union	1	No		
Sub-Total Bill No 5 carried to summary					

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SUMMARY OF BILLS.

BILL	BILL DESCRIPTION	Amount Ksh.
T1	PRELIMINARY ITEMS	60,000.00
T2	EXCAVATION AND EARTH WORKS	
T3	CONCRETE WORKS AND REINFORCEMENT	
T4	WALLING, SHUTTERING AND FORM WORK	
T5	ANCILLIARY AND PIPE WORK	
GRAND TOTAL CARRIED TO FORM OF TENDER		

AMOUNT IN WORDS (KSHS).....

CONTRACTOR'S NAME.....

ADDRESS.....

SIGN.....

STAMP.....