

**PLINTH COST ESTIMATE**

**CONSERVATION AND SUSTAINABLE MANAGEMENT OF COASTAL AND MARINE ECOSYSTEMS (COSME)  
Construction of Rain Water Harvesting System in schools**

Date: 24th Jan, 2025

ITEM	DESCRIPTION	QTY	UNIT	RATE (Kshs.)	AMOUNT (Kshs.)
<b>A</b>	<b>TANK PLINTH</b>				
<b>1</b>	<b>Excavation &amp; Earthworks - (ALL PROVISIONAL)</b>				
1.1	Clear site of all vegetation, shrubs and bushes and cart away debris. For plinth and yard lap	1.00	ITEM		
1.2	Excavate oversite to remove top vegetable soil, average 800mm deep and cart away.	6.00	SM		
1.3	Excavation in soft rock, slabs, mud and fallen materials for Strip footing commencing from stripped level, 800mm deep, 600mm wide for 200mm thick wall.	4.00	CM		
1.4	Approved granular/hardcore fill, thickness 150mm.	2.00	CM		
1.5	No. 500 gauge polythene sheeting laid with 150mm laps (measured net - No allowance made for laps)	6.00	SM		
<b>2</b>	<b>Works below ground upto and including ground works.</b>				
2.1	<b>In situ Plain Concrete (1:4:8)</b>				
2.1.1	50mm Blinding under foundations.	4.50	SM		
2.2	<b>Vibrated reinforced concrete (1:2:3) Class 20/20</b>				
2.2.1	Ground Floor Slab- 100mm Thick for the plinth and yard lap	1.50	CM		
2.3	<b>Formwork</b>				
2.3.1	Edges of Ground Floor Slab.	2.00	LM		
2.4	<b>Reinforcements</b>				
2.4.1	BRC Fabric mesh reinforcement Ref. A142; weighing 2.22kg per square metre(measured net no allowances made for laps) Including bends tying wire and distance blocks.	6.00	SM		
2.4.2.	10mm diameter bars	19.00	KG		
2.4.2.	8mm diameter bars	13.00	KG		
3	<b>Foundation Walling</b>				
3.1	200mm thick machine cut coral block wall bedded and jointed in cement sand(1:3) mortar and reinforced with and including 20swqx25mm wide hoop iron in every alternate course.	4.00	SM		
4	<b>Ground floor walling</b>				
4.1	200mm thick machine cut coral block wall bedded and jointed in cement sand(1:3) mortar and reinforced with and including 20swqx25mm wide hoop iron in every alternate course.	7.00	SM		
5	<b>Wall plaster and rendering</b>				
5.1	Rendering to wall and concrete surfaces, finished with a wood float, average thickness 15mm- to receive paint and Tiling,both plinth and yard tap.	14.62	SM		
<b>B</b>	<b>RAINWATER GOODS</b>				
<b>1</b>	<b>In heavy duty UPVC pipe from an approved manufacturer: Allow for connectors, water outlet, closed ends and other fittings as necessary</b>				
1.1	125mm diameter half round gutter: fixed to fascia with and including PVC brackets at 600 mm (maximum) centres: holes for down pipes as necessary and closed ends	20.00	M		
1.2	75mm diameter UPVC rain water downpipe: holderbats at 1000 mm (maximum) centres	6.00	M		
1.3	Extra over ditto for 800 mm swan neck offset (comprising 2No. Bends	2.00	No.		
1.4	Ditto for shoe (Comprising 1No. Bend)		No.		
1.5	Water tap		No.		
	<b>TOTAL</b>				
	Add 16% VAT				
	<b>TOTAL COST ESTIMATE PER TANK</b>				
	Total No. Of Schools				
	<b>GRAND COST ESTIMATE FOR 73 NO. SCHOOLS</b>				

