ITEM		DESCRIPTION	UNIT	QTY	UNIT	VALUE
					PRICE (KSH)	(KSHS)
		BILL NO. 1: PRELIMINARY AND GENERAL ITEMS(provisional Sums)				
		sign board				
	1.1	Provide, install and maintain for the entire contract period a contract two steel signboard on 1.3m x 1m metal sheet	No.	2	25,000.00	50,000.00
		appropriately secured on a 19mm steel frame at least 1.8m above the ground level to the satisfaction of the Engineer or his appointed representative. see drawing				
		Labour camp and site storage				
	1.3	Provide for establishment temporary Labour camps and site storage with nesessary facilities to minimize transportation cost to site	Item	1	100,000.00	100,000.00
		Mobilization and demobilization of machinery				_
	1.4	Allow for Mobilization and Demobilization of machinery and equipment	Item	1	200,000.00	200,000.00
		Security				_
	1.5	The Allow for provision and facilitation of security personnel to secure site, materials and works during the entire construction period.	Item	1	100,000.00	100,000.00
		Setting out, supervision, EIA				-
	1.6	and Conservation activities Provide for technical services of setting out of Pan, Survey and Supervision of Pan construction by a qualified	Item	1	150,000.00	150,000.00

1.7	Engineer/Surveyor approved by the Employer Provide provisional sum for EIA, planting grass, around embankment and environmental conservation as directed by the project manager(to be undertaken in conjuction with client's tecnical team on environment) Sub Totals Bill 1carried to Main Summary	Item	1	350,000.00	350,000.00 950,000.00
	BILL NO. 2: EARTH WORKS				
2.1	Clear site of all trees, tree stumps, shrubs and grass commencing from ground level n.e. 300mm deep and dispose-off the construction site as directed.	m2	12,500		
2.2	Commence reservoir excavation from the stripped level and n.e average depth of 2.5m, cart away to form the embankment or dispose as may be directed by the water Engineer	m3	20,000		
2.3	Construct Embankment using	m3	12,000		

2.4	silt trap with outer dimensions 25m X 20m X 2.0m depth	m3	7,000.00	
	TOTAL FOR BILL NO.2 CARRIED TO SUMMARY PAGE			
	BILL NO.3: DRAW-OFF SYSTEM			
2.7		M3	350	
2.8	Supply and install outlet pipe 280m, 100mm diameter with the GI pipe class B welded with anti-seepage steel collars placed at 3m c/c for 30m, the cost to inlude installation of GI 'T' c/w 100mm diameter sluice as wash out with all necessarry fittings.	Item	1	
2.9	 	m3	3	
2.10		Item	1	

2.11	Valve chamber; Allow for excavation, provide for materials and construct lockable masonry chambers with internal dimensions 1200mm x 1200mm x 2000 mm as indicated in the drawings and as directed by the Engineer. Rates to include formwork and all required maerials	Item	1	
2.12	Provide ,install 18m GI Pipe 50mm Diameter "B" as an off-take to 10m x 1m cattle trough and 24m GI pipe 20mm diameter off-take to CWP c/w all valves and fittings to a 3 taps for community water point as directed.	Item	1	
	TOTAL FOR BILL NO.3 CARRIED TO SUMMARY PAGE			
	BILL 4;OTHER WATER- PAN ANCILLARIES			
	Spillway sill & Ripraps			
3.1	Allow for excavation and construction of spillway concrete sill 7.0m x 0.6m x 0.3m across the whole span of spillway mouth comprising of Reinforced concrete class 20/20 and including 10mm Re-Bars And its associated formwork.	M3	1.5	
3.2	Excavate for and lay stone filled gabion boxes upstream of spillway sill ,to protect the sill from erosion	M3	5	
3.3	Supply 150mm average size hard boulders, Prepare surface, compaction, build, and joining with mortar 1;3 a 150mm Thick spillway riprap to the satisfaction of the Engineer.	M2	700	
	Community water point and			
	Cattle trough Cattle Trough and Cattle ramp			
	Cattle trough			

3.4	Construct10m long x1m wide 0.7m high cattle trough located n.e 30m f rom the community water point as designed to detail with all plumbing works f rom the community water point in corporating a 2" ball valve and 30m long Upvc Pipe class C with a ll fittings to trough. Include f or 75 mm thick concrete slab for manhole cover a s per a ttached drawing			
3.5	Clear and Excavate over site soil material to reduce levels not exceeding 225mm deep and cart away	m2	10	
3.6	Excavation for raft foundation n e 0.6m deep starting from the reduced level	m3	6	
3.7	Place 300mm thick approved hard-core, well compacted in layers not exceeding 150mm and blinded using 50mm marram/quarry dust Plain concrete class 15/40 vibrated in foundation base 125mm thick on BRC A 142.	m2	6	
3.8	Construct with approved local stone; squared and rough chisel dressed on one side, bedding and jointing in cement mortar (1:3) in walls 200mm thick. Provide for 1.5ft long 2" dia. GI pipe class A as scour with end cap.	m2	22	
3.9	Plaster; 25mm with cement, Water proofing and sand mortar 1.1:3 mix internally, externally and floor height 1.1M	m2	50	
3.10	Provide for thick stone pitching protection to cattle ramp 15m wide 25m long and 300mm thickness with na tural hard stones material as shall be directed by engineer.	m3	115	

	3.12	Provide community water point; Construct apron using approved stone; squared and rough chisel dressed on one side, bedding and jointing in cement mortar (1:3) in walls 300mm thickness c/w plaster, to hold 3 taps 3/4 " each to serve as community water point. The apron to measure 2.5 m long x1.2m high. Footing ne 0.6 m depth.	Item	1		
		TOTAL FOR BILL NO.4				
		CARRIED TO SUMMARY PAGE				
		THE				
		SUMMARY PAGE				
BILL		ITEM				
NO						
1		PRELIMINARY AND GENERAL				950,000.00
		ITEMS(provisional)				
2		EARTH WORKS				
3		DRAW-OFF SYSTEM				
4		OTHER PAN AUXILLARIES				
			i	SUB- TOT.	AL (KSHS)	
				Add 2%	Contigency	
					TOTAL	
NB:All	rates a	are inclusive of 16%VAT				