

PROJECT – KAKAWA COMMUNITY WATER SUPPLY PROJECT. FY 17-18

**PROPOSED CONSTRUCTION OF INTAKE WEIR AND PIPE LAYING OF GRAVITY
MAIN**

KAPSOWAR WARD

The Contractor is advised to visit the site and familiarize himself/herself with site conditions prior to bidding.

BILL OF QUANTITIES

Item no	Item description	Unit	Qty	Rate	Amount
1.00	INTAKE WEIR				
	<u>PRELIMINARY ITEMS</u>				
	<u>RIVER DIVERSION</u>				
1.01	The contractor must allow for construction of a temporary river diversion to allow construction to take place in a dry site.	L/s	Item	-	
	<u>EXCAVATIONS</u>				
1.10	To include for all trimming to levels, back fillings with approved selected spoils, compacting, disposal of surplus materials and reinstatement.				
1.11	Clear site from all undergrowth shrubs and trees, including stubbing uproots and removal of all deleterious materials from site	M ²	50		
1.12	Excavate river bank in a normal soil to take wing walls, abutments, weir, riprap, key, aprons and cut off walls 1.5m deep	M ³	20		
1.13	Ditto for excavation in hard rock	M ³	1		
1.14	Backfilling with approved selected spoil compacted to specification to both sides of the weir and wing wall	M ³	25		
1.200	<u>CONCRETE WORKS</u>				
1.201	Sawn form work as described to sides of weir body and wing walls	M ²	20		

1.203	concrete blinding under weir wing walls as specified(1:3:6)	M ³	1.0		
1.204	Mass concrete 1:2:4 in weir, wing walls, cutoff walls, 200mm thick	M ³	5		
1.205	Provide and place to exposed faces of weir and wing walls 20mm thick mortar 1:3 plaster including water proof cement	M ²	16		
1.300	<u>RIPRAP</u>				
1.301	200mm thick grouted riprap as specified upstream and down stream	M ³	12		
1.400	<u>Weeping holes</u>				
1.401	Provide and place 63mmø UPVC pipe class C along the bottom of the riprap upstream and downstream of the weir facing the aprons	No	2		
1.500	<u>Reinforcement</u>				
1.501	High yield square trusted base to BS 4461 12mmø in head walls, wing walls, weir body at 200mm c/c.	Kg	30		
1.502	High yield square trusted base to BS 4461 10mmø stirrups at 400mm c/c.	Kg	20		
1.503	Provide binding wire for item 1.501	Kg	10		
1.504	Allow for nails for item 1.201	Kg	10		
	Sub -Total				
1.600	Pipes and Fittings.				
1.601	Supply and fix 1½ Ø GI pipe class B for the outlet pipe.	No	1		
1.602	Provide and fix 50mmØ GI pipe class B for the washout.	No	1		
1.700	Provide and fix the following fittings				
1.701	40mmØ gate valve	No	1		
1702	40mmØ union socket	No	1		
1.703	40mmØ 90 ⁰ bend	No	3		

1.704	40mmØ valve socket	No	6		
1.705	40mmØ nipple	No	2		
	50mmØ End Cap	No	1		
1.706	Construct lockable valve chamber 1m x1 x 1m	No	1		
	Sub -total				
	Total for Intake Works				
Item No.	Item Description	Unit	Quantity	Rate	Amount (Ksh.)
1.800	Gravity main line				
1.801	Clear bushes along the entire pipeline. Allow for root removal.	m	2300		
1.802	Excavate and backfill in normal soil 300mm x750 mm minimum depth of trench for the pipe.	m	2300		
1.803	Supply, handle, lay, joint and test 25mm diameter GI class B.	m	30		
1.804	Supply, handle, lay , joint and test and test 25mm diameter PVC pipe class D.	m	2300		
1.900	Supply and fix the following fittings as directed by the Engineer.				
1.901	Adaptors 1½"	No	5		
1.902	Reducers 1½x1	No	1		
1.903	1½ GI tee Equal	No	1		
1.904	1" Gate valve Pegler UK	No	2		
1.905	1" valve sockets	No	2		
	Sub Total				
	Total				
2.000	Engineers Supervision				40,000
3.000	Publicity Signpost				
	GRAND TOTAL TO BE CARRIED TO FORM OF TENDER				

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

ADDRESS.....

SIGN.....

STAMP.....