

**SUMMARY OF THE BOQ**

**BOQ SUMMARY - KAMUNYOLO DAM REHABILITATION WORKS**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>AMOUNT (KES)</b>
BILL No.1	PRELIMINARY AND GENERAL ITEMS	
BILL No.2	DAM EMBANKMENT	
BILL No.3	SPELLWAY	
BILL No.4	RIVER DIVERSION, DRAW OFF PIPE AND INTAKE TOWER	
<b>SUB TOTAL</b>		
BILL No.5	DE-SILTING WORKS	
<b>SUB TOTAL</b>		
Contingencies & price fluctuations (10 %)		
VAT (16 %)		
<b>GRAND TOTAL</b>		

**BILL 1-PRELIMINARY AND GENERAL ITEMS**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE (KES)</b>	<b>AMOUNT (KES)</b>
1.10	Provision of performance guarantee in accordance with instructions	Ls	1.0		
1.20	Provision of Insurance for the works	Ls	1.0		
1.30	Provision of insurance for workmen	Ls	1.0		
1.40	Mobilisation of machinery and equipment to site & Demobilization upon completion of the works	Ls	1.0		
1.50	Erection of contractors camp and office	Ls	1.0		
1.60	Setting out the works	Ls	1.0	150,000.00	150,000.00
1.70	Provision for testing of materials during construction	PS	1.0	100,000.00	100,000.00
1.80	Allow a sum of Ksh 1,500,000 for the attendance to the client's staff, allowance, transport	PS	1.0	1,500,000.00	1,500,000.00
1.90	Erect site office and maintain site office for the Engineer	months	6.0	45,000.00	270,000.00
1.10	Provide office equipment for the REs office	PS	1.0	100,000.00	100,000.00
1.11	Allow money for communication (telephone)	PS	1.0	30,000.00	30,000.00
1.12	Rent house accomodation for Engineer and his staff (3No)	months	6.0		-
1.13	Allow for transport for the Engineer	months	6.0		-
1.14	Allow money for secretarial services	PS	1.0	250,000.00	250,000.00
1.15	Provision for making and maintaining access roads	Ls	1.0		-
1.16	Additional Site Investigations	PS	1.0	100,000.00	100,000.00
1.17	Allow a Provisional sum of KES 200,000/- , to be spent in whole or part, for Enviromental Conservation to be spent as directed by the Engineer	PS	1.0	200,000.00	200,000.00

**BILL 2 - EMBANKMENT**

<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (KES)</b>	<b>Amount (KES)</b>
	<b>2.1 Care of water</b>				
2/01	Care of water during construction in open air construction site	LS	1.00		
	<b>2.2 Site Clearance</b>				
2/02	Clearing and grubbing of dam embankment	m <sup>2</sup>	10,000.00		
2/03	Clearing and grubbing of borrow area, spoil banks/areas and yards	m <sup>2</sup>	10,000.00		
	<b>2.3 Excavation</b>				
2/04	Excavation, Common in open cut	m <sup>3</sup>	8,500.00		
	<b>2.4 Dam Embankment</b>				
2/05	Compacted Earthfill for dam embankment	m <sup>3</sup>	15,000.00		
2/06	Fine Filter -Sand	m <sup>3</sup>	150.00		
2/07	Coarse Filter -Sand	m <sup>3</sup>	125.00		
2/08	Rock Toe	m <sup>3</sup>	750.00		
2/09	Riprap	m <sup>3</sup>	540.00		
2/10	Gravel on dam crest	m <sup>3</sup>	50.00		
2/11	Geo-textile	m <sup>2</sup>	750.00		
	<b>TOTAL CARRIED TO COLLECTION</b>				-

**BILL 3 - SPILLWAY**

ITEM	DESCRIPTION	UNIT	QTY	RATE (KES)	AMOUNT (KES)
	<b>3.1 Care of water</b>				
3/01	Care of water during construction in open air construction site	Ls	1.00		
	<b>3.2 Earthworks</b>				
3/02	Clearing and Grubbing, Bush	m <sup>2</sup>	1,100.00		
3/03	Excavation, Common in open cut	m <sup>3</sup>	1,050.00		
3/04	Excavation, Weathered Rock in open cut	m <sup>3</sup>	100.00		
3/05	Excavation, Rock in open cut	m <sup>3</sup>	100.00		
3/06	Backfilling, Random	m <sup>3</sup>	620.00		
	<b>3.3 Concrete works</b>				
3/07	Boulder (Cyclopean) concrete	m <sup>3</sup>	455.00		
3/08	Mass concrete Class C 15 (Weir and Sub-dam)	m <sup>3</sup>	300.00		
3/09	Mass concrete Class C 15 (Retaining Walls)	m <sup>3</sup>	480.00		
3/10	Form Work	m <sup>2</sup>	950.00		
3/11	Reinforcement Bar	kg	2,000.00		
3/12	Elastic Filler, t=20mm	m <sup>2</sup>	110.00		
	<b>3.4 Metal Works</b>				
3/13	Anchor Bar (Y20)	kg	40.00		
	<b>3.5 Miscellaneous</b>				
3/14	Weep Hole, Dia. 50mm	m	204.00		
	<b>TOTAL CARRIED TO COLLECTION</b>				-

**BILL 4 - RIVER DIVERSION, DRAW OFF PIPE AND INTAKE TOWER**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE (KES)</b>	<b>AMOUNT (KES)</b>
	<b>4.1 Care of water</b>				
4/01	Care of water during construction in open air construction site	Ls	1.00		
	<b>4.2 Earthworks</b>				
4/02	Site clearance	m <sup>2</sup>	50.00		
4/04	Excavation, Common in open cut	m <sup>3</sup>	500.00		
	<b>4.3 Concrete works</b>				
4/09	Concrete class C 25 (diversion culvert & intake tower)	m <sup>3</sup>	15.00		
4/10	Mass concrete Class C 15	m <sup>3</sup>	75.00		
4/12	Form Work	m <sup>2</sup>	40.00		
4/14	Reinforcement Bar	kg	300.00		
	<b>4.4 Pipe Work</b>				
4/15	300 mm dia epoxy coated steel pipe and fittings	m	70.00		
4/16	150 mm dia epoxy coated steel pipe and fittings	m	83.00		
4/16	50 mm dia epoxy coated steel pipe and fittings	m	8.00		
	<b>Total</b>				-

