



FLLCA
FINANCING LOCALLY-LED
CLIMATE ACTION



GOVERNMENT OF MAKUENI COUNTY

DEPARTMENT OF LANDS, URBAN PLANNING & DEVELOPMENT,
ENVIRONMENT & CLIMATE CHANGE

KWA NZOONGO WATER AND LIVELIHOOD
ENHANCEMENT PROJECT PHASE II

IN

IVINGONI/ NZAMBANI WARD

BILL OF QUANTITIES

BILL OF QUANTITIES FOR KWA NZOONGO WATER AND LIVELIHOOD ENHANCEMENT PROJECT PHASE II					
Item No.	Item Description	Unit	Qty	Rate	Amount (Ksh)
Bill 1:	Preliminary & General Items				
1.1	Publicity Sign Board				
1.11	Allow for a project signboard to be constructed at a convenient site to be maintained throughout the project period, as directed by the Project Manager.	No	1		
1.2	Mobilization and Demobilization				
1.21	Maintain Contractor's camps, facilities, plants, insurance, etc, include mobilization to site, and demobilization on completion of contract	Item	1		
	<i>Total carried from Bill 1 to Main summary</i>				
BILL 2	EARTH WORKS				
2.1	Setting Out and Survey Control				
2.1.1	Establishment of benchmarks, survey control points and site grid lines by the engineer's representative.	Item	1		
2.2	Reservoir Excavation				
2.2.3	Excavate in normal material depths from original levels and heap suitable excavated soils from the reservoir for embankment construction and cart away sand, silt and other spoil for disposal as directed by the Project Manager.	CM	12,495		
2.3	Embankment				
2.3.1	Using approved earth fills from reservoir or approved borrow site, wet compact in 300mm layers to 95% MMD AASHTO using sheep foot roller compactor of D6 dozer min 7passes to crest embankment fill. Raise the embankment and training wall to crest width of 5 m, to construct the embankment with slope of 3:1 upstream side and 3:1 on downstream side as detailed in the provided drawings or as directed by the supervising engineer	CM	1,350		
2.4	Check Dams				

BILL OF QUANTITIES FOR KWA NZOONGO WATER AND LIVELIHOOD ENHANCEMENT PROJECT PHASE II					
Item No.	Item Description	Unit	Qty	Rate	Amount (Ksh)
2.2.3	Excavate in normal material depths from original levels and heap suitable excavated soils from the reservoir for embankment construction and cart away sand, silt and other spoil for disposal as directed by the Project Manager.	CM	1,500		
2.3.1	Using approved earth fills from reservoir or approved borrow site, wet compact in 300mm layers to 95% MMD AASHTO using sheep foot roller compactor of D6 dozer min 7 passes to crest embankment fill. Raise the embankment and training wall to crest width of min. 5 m, to construct the check dam embankment with slope of 3:1 upstream side and 3:1 on downstream side as detailed in the provided drawings or as directed by the supervising engineer	CM	500		
2.5	Provisional Extra Over Excavation in Any Position for:-				
2.51	Excavating in rock Class I	CM	15		
2.52	Excavating in rock Class II	CM	10		
2.53	Excavating in rock Class III	CM	5		
2.6	Embankment Dressing				
2.61	Supply and hand pack 250-300mm approved hardcore to 2m strip of the embankment as shall be directed	SM	300		
2.7	Spillway works				
2.7.1	Excavate material as shall be directed	CM	75		
	Provide and mix materials needed for concrete Class 25/20 mix 1:1.5:3 as shall be directed	CM	8.0		
	Using hardcore 250-300mm, stone pitch the floor and sides of the spillway as shall be instructed	SM	200.0		
2.3	Reinforcement Bars				
	Provided handle, cut, bend and fix the following reinforcement bars as stated in the bending schedule or as directed by the Engineer				
2.31	10mm mild steel bars	Kg	720		
	Formwork fair finish				

**BILL OF QUANTITIES FOR KWA NZOONGO WATER AND LIVELIHOOD ENHANCEMENT PROJECT
PHASE II**

Item No.	Item Description	Unit	Qty	Rate	Amount (Ksh)
	<u>Plane vertical to:</u>				
	External surface	SM	20.0		
2.4	Latrine				
	Provide materials and construct a 2-door VIP latrine as per the provided drawings and shall be instructed	Item	1		
	Sub Total carried from Bill 2 to Main summary page				
BILL 3	FORESTRY				
Item	Description	Unit	Qty	Rate (Ksh)	Amount (Kshs)
3.1	Purchase and supply of lemon tree seedlings; all potted, 600-760mm height	No.	1000		
3.2	Purchase and supply of indigenous mango tree seedlings; all 600-760mm height	No.	1000		
3.3	Purchase and supply melia seedlings, all potted, 600-760mm height	No.	1000		
3.4	Purchase and deliver eragrostis superber grass seed	Kgs	25		
3.5	Provide for staking of cutoff drains	L/S	1		
3.6	Provide for excavation of cut off drains 1000x600mm	CM	400		
3.7	Provide for ripping of degraded area along the excavated contours around the dam area as shall be instructed by the technical officer	Acre	5		
3.8	Provide for broadcasting of grass seeds on the ripped land area	L/S	1		
	Subtotal carried for collection in the summary page				

GRAND SUMMARY PAGE

BILL	BILL DESCRIPTION	AMOUNT
BILL 1	PRELIMINARIES AND GENERAL ITEMS	
BILL 2	EARTH WORKS	
BILL 3	FORESTRY	
	SUB TOTAL	
<i>PROVISIONAL SUMS</i>		
	Allow a provisional sum of Kshs. 150,000.00 for contingencies	150,000
	<u>TOTAL</u>	<u>-</u>
	<u>ADD</u>	
	Add 0.03% for Public Procurement Capacity Building Levy	_____.
	VAT (16%)	_____.
	TOTAL CARRIED TO FORM OF TENDER	
AMOUNT IN WORDS		