

PROPOSED CABRO PAVING OF KONA YA CHIEF-MKWAKWANI DISPENSARY ROAD IN UKUNDA WARD					
BILL OF QUANTITIES: No.1 PRELIMINARIES & GENERAL ITEMS					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
1.01	Allow Kshs 30,000 for Material testings and reagents for the contract duration	PC Sum	1.00		-
1.02	E.O. item 1.02 for Contractor's overheads and profits.	% of item			-
1.03	Provide, erect and maintain publicity signs as directed by the Engineer.	No.	1.00		-
	Bill No. 1 Total Carried Forward to Grand Summary				-
BILL OF QUANTITIES: No.4 SITE CLEARANCE AND TOP SOIL STRIPPING					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
4.01	Clear site on road reserve including removal of trees, hedges, bushes and other vegetation and other deleterious materials, grub up roots and backfilling of holes left by removal of stumps and roots in accordance with the specifications, or as directed by Engineer.	M ²	2100		-
	Bill No. 4 Total Carried Forward to Grand Summary				-
BILL OF QUANTITIES: No.5 EARTHWORKS					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	<i>NOTE: All costs and charges connected with haulage are to be included within the unit rates entered against the items described in this Bill of Quantities. No overhaul shall be paid for this items and shall be deemed to have been included in the Contractor's rates</i>				
5.01	Scarify existing murrum using mechanical rippers, spread water and compact in accordance with the specification or as directed on site by the Engineer	m ³	210		-
	Bill No. 5 Total Carried Forward to Grand Summary				-
BILL OF QUANTITIES: No.8 CULVERTS & DRAINAGE WORKS					
	Note: No separate payments shall be made for gravel for backfilling, Formwork and hauling to spoil unsuitable excavation materials and the cost of such shall be included in the rates and prices				
8.01	Excavation in soft material for pipe culverts, headwalls, wingwalls, apron, toe walls, inlet drains, Outlet drains and compact as directed by the Engineer	m ³	15		-
8.02	As per item 8.04, but for hard material	m ³	3		-
8.04	Provide, lay and join 600mm inner dia concrete culverts and place and compact class 20/20 concrete for surround, headwalls, wingwalls, aprons, and toe walls to pipe culvert including all form work.	Mt	12		-
8.05	Provide and place A142 BRC mesh reinforcement for culverts bed, surround, wingwalls, aprons, Head walls and toe walls as shown in the drawings	m ²	60		-
8.06	Provide and place class 20/20 concrete for blinding and haunching and storm water lining in accordance with the specifications including excavation, bedding and backfilling with necessary materials as directed by the Engineer	m ³	10		-
	Bill No. 8 Total Carried Forward to Grand Summary				-
BILL OF QUANTITIES: No.10 GRADING & GRAVELLING WORKS					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	Note: No overhaul will be paid for separately under these items as it shall be deemed to have been included in the Contractor's rates				
10.01	Heavy grading without watering and compaction as instructed by the Engineer	m ²	18000		
	Bill No. 10 Total Carried Forward to Grand Summary				
BILL OF QUANTITIES: No.12 NATURAL MATERIAL SUBBASE AND BASE					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	<i>No overhaul will be paid for separately under this item and the cost of hauling will be deemed to have been included in the rates. The rates inserted shall include for all costs for acquiring, site clearance, overburden removal, excavation and hauling to site.</i>				
12.01	Excavate material, transport over any distance spread, water and compact gravel sub base, all in accordance with the specifications or as directed by the Engineer.	M ³	270		-
12.02	Excavate material, transport over any distance spread, water and compact gravel base course, all in accordance with the specifications or as directed by the Engineer.	M ³	221		-
12.03	Provide, spread, water and compact 50mm thick quarry dust as blinding from an approved quarry including all treatments as directed by the Engineer	M ³	74		-
	Bill No. 12 Total Carried Forward to Grand Summary				

BILL OF QUANTITIES: No.20 ROAD FURNITURE					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
20.01	Provide lay and join precast concrete kerbs				-
	(a) Straight	m	527		-
	(b) Radius 1-5 m	m	0.0		-
20.02	Provide lay and join precast concrete channels	m	6		-
20.03	Provide, deliver, paint and mark the road as specified or as directed by the Engineer, with white reflectionized thermoplastic paint from an approved supplier.	m ²	51		-
20.04	As item 20.03 but for yellow reflectionized thermoplastic paint	m ²	26		-
Bill No. 20 Total Carried Forward to Grand Summary					
BILL OF QUANTITIES: No.23 PAVED CONCRETE SURFACES					
	<i>Measurements and payment by method "A" as defined in the standard specifications. No separate payments shall be made for the overhaul of material and the cost of such will be deemed to have been included in the rates</i>				
23.01	Provide, place 80mm heavy duty for paving blocks well compacted with river sand spread to cover joints for main carriageway as per the drawings.	m ²	1545		
Bill No. 23 Total Carried Forward to Grand Summary					
BILL OF QUANTITIES: No.25 ENVIRONMENTAL IMPACT ASSESSMENT AND MITIGATION MEASURES					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
25.01	Allow Ksh 80,000 for Environmental and Social Impact Assessment(ESIA) Study/Summary Project Report and Environmental Management Plans as per the Directions by the Engineer	PC sum	1.00		-
25.02	E.O item 25.01 for contractor's overhead and profit	%			-
25.03	Allow Ksh 50,000 for Environmental and Soil Erosion Mitigation Measures as priced in the appendix attached or as per the Directions by the Engineer	PC sum	1.00		-
25.04	E.O item 25.03 for contractor's overhead and profit	%			-
Bill No. 25 Total Carried Forward to Grand Summary					
SUMMARY					
ITEM	DESCRIPTION				AMOUNT KSHS.
1	Preliminaries and General Items				-
4	Site Clearance and Top Soil Stripping				-
5	Earth Works				-
8	Culverts and Drainage Works				-
10	Grading and Graveling Works				-
12	Natural Gravel Base and Subbase				-
20	Road Furniture				-
23	Concrete Surface Paving Blocks				-
25	Environmental Impact Assessment and Mitigation				-
(A)	Sub-total (1)				-
(B)	Add 3% CONTINGENCIES of sub total (1)				-
(C)	Sub-total (2) = (A + B)				-
(D)	Add ...16% VAT of sub-total (2)				-
GRAND TOTAL CARRIED FORWARD TO FORM OF BID					
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APPENDIX TO BILLNo.25: ENVIRONMENTAL MITIGATION MEASURES ITEM 25.03					
	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
1. Environmental and Soil Erosion Mitigation Measures					
A	Construction of Scour Checks	No	0		-
B	Gabions Installation	No	0		-
C	Trees Planting with watering untill established	No	0		-
D	Topsoiling and grassing	SM	0		-
E	Stone pitching	SM	0		-
F	Provision of waste disposal/Dust bins	No	0		-
G	Drinking water	Litres	0		-
H	Personal Protective Equipment	No	50		-
Total carried to Bill Item 25.03					

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	APPENDIX TO BILLNo.25: ENVIRONMENTAL MITIGATION MEASURES ITEM 25.03				
	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	1. Environmental and Soil Erosion Mitigation Measures				
A	Construction of Scour Checks	No	0		-
B	Gabions Installation	No	0		-
C	Trees Planting with watering untill established	No	0		-
D	Topsoiling and grassing	SM	0		-
E	Stone pitching	SM	0		-
F	Provision of waste disposal/Dust bins	No	0		-
G	Drinking water	Litres	0		-
H	Personal Protective Equipment	No	50		-
					-
	Total carried to Bill Item 25.03				-