

PROPOSED CABRO PAVING OF MKWAKWANI ECDE ROAD PHASE II 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			-
1.06	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	1400		-
4.02	Strip top soil upto 0.2m in thickness along alignment or material sites including removal of all grass and other vegetation,transport to spoil and spread or stock pile for re-use as directed by the Engineer.	M ³	280		-
4.03	Tree Cutting, Stump removal and Disposal as directed by the Engineer (>450mm)	NO	1		
	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	Excavate all materials to reduced levels upto 0.2m from the stripped level as per instructions by the Engineer	m ³	240		-
	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 backfill, Formwork and hauling to spoil unsuitable excavation materials and the cost of such shall be included in the rates and prices				
8.01	Provide and place class 20/20 concrete for blinding and haunching and storm water lining in accordance with the specifications including excavation,bedding, reinforcement and backfilling with necessary materials as directed by the Engineer	M ³	10		-
8.02	Provide, lay and join 300mm inner dia concrete culverts and place and compact class 25/20 concrete for surround,headwalls,wingwalls,aprons,and toewalls to pipe culvert including all form work and the provision and placing of reinforcement as provision for service duct	Mt	7		-
	Bill No. 8 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	210		-
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	240		-
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	80.0		-
	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	495		-
	(b) Radius 1-5 m	M	0.00		-
20.02	Provide lay and join precast concrete chanel	M	10		-
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	50		-
20.04	As item 20.03 but for yellow reflectionized thermoplastic paint	M ²	25		-
	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	1200		
	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 as a prime cost 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 Kshs. 50,000 as a prime cost 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	Earthworks				-
8	Culverts and Drainage 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% CONTIGENCIES 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	Topsailing 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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	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				-