

	PROPOSED REHABILITATION OF MATUGA KSG TO SHEEP AND GOATS ROAD IN WAA/NG'OMBENI WARD				
BILL OF QUANTITIES: No.1 PRELIMINARIES & GENERAL ITEMS					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
1.01	Allow Ksh. 25,000 for Material testings and reagents for the contract duration	PC Sum	1		
1.02	E.O. item 1.01 for Contractor's overheads and profits.	% of item			
1.03	Provide, erect and maintain publicity signs as directed by the Engineer.	No.	1		
	Bill No. 1 Total Carried Forward to Grand Summary				-
BILL OF QUANTITIES: No.8 CULVERTS & DRAINAGE WORKS					
	Note: No separate payments shall be made for gravel, for blinding, hauling to spoil unsuitable excavation materials, reinforcement of concrete, excavations and Backfilling of culverts with gravel and the cost of such shall be included in the rates and prices				
8.01	Culvert installation 1200mm with surround Class 20/20 as directed by the Engineer	Mt	21.0		
8.02	Culvert installation 900mm with surround Class 20/20 as directed by the Engineer	Mt	28.0		
8.03	Provide and place A142 BRC mesh reinforcement for culverts bed, surround, wingwalls, aprons, Head walls and toewalls as shown in the drawings	m ²	497.0		
8.04	Excavation in soft material for pipe culverts,headwalls, wingwalls, apron,toewalls, inlet drains, Outlet drains and compact as directed by the Engineer	m ³	31.0		
8.05	As per item 8.04, but for hard material	m ³	7.8		
	Bill No. 8 Total Carried Forward to Grand Summary				
BILL OF QUANTITIES: No.9 PASSAGE OF TRAFFIC					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
9.01	Allow, construct and maintain temporary diversion for the passage of traffic through the works including road signs and barriers as per Engineer's instructions	KM	0.100		
	Bill No. 9 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	0		
10.02	Provide gravel wearing course – excavation free haul, spread, water and compact gravel to specifications.	M ³	300		
	Bill No. 22 Total Carried Forward to Grand Summary				
BILL OF QUANTITIES: No.17 CONCRETE WORKS (Vented Drif 30X7)					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
17.01	Provide, place and compact class 20/20 concrete for drift(30X7) in accordance with the specifications including retaining walls, partition, toe walls and aprons, excavation and bedding or as directed by the Engineer	m ³	100		
17.02	Provide A142 BRC Mesh Reinforcement to specifications	m ²	465		
17.03	Provide hardcore material to be laid to drift as per Engineer's instructions(rates to include blinding for hardcore)	m ³	305		
17.04	Provide and install edge marker posts with reflective paint as directed by the Engineer	m	14		
17.05	Excavate, provide and place gabion boxes and rockfill to gabions, grouting where directed by the Engineer	No.	10		
17.06	Provide and spread gravel backfill at the approaches	m ³	100		
	Bill No. 17A Total Carried Forward to Bill No.17 Summery				
BILL OF QUANTITIES: No.22 SCHEDULE OF DAYWORKS					
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	The rates inserted herein are to include all operational and Maintenace costs, fuel, oil, grease, drivers/operators wages, supervision, overheads and profit. Only time actually employed upon the work will be paid for and the rates should include for idle time, travelling time and overtime, In accordance with clause 2202 (a) of the specifications. Note: All items of plant must be priced.				
22.01	Provide excavator for existing Drift demolition,River training and backfilling of gullies/eroded areas as instructed by the Engineer (rates to include disposal of excavated material to approved sites)	Hrs	12		-
	Bill No. 22 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 for Kshs 80,000 as a sum for Environmental and Social Impact Assessment (ESIA) Study/Summary Project Report and Environmental Management Plan 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 for Kshs 95,000 as a sum 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				-
8	Culverts and drainage				-
9	Passage to Traffic				
10	Grading and Graveling Works				
17	Concrete works (Vented Drift)				-
22	Schedule of Dayworks				-
25	Environmental mitigation measures				
(A)	Sub-total				-
(B)	Add ...16% VAT of sub-total				-
	GRAND TOTAL CARRIED FORWARD TO FORM OF BID				-
	PROPOSED REHABILITATION OF VUKANI-MLUNGUNIPA ROAD IN BONGWE/GOMBATO WARD				
	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	6		-
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	0		-
	Total carried to Bill Item 25.03				-

	PROPOSED REHABILITATION OF VUKANI-MLUNGUNIPA ROAD IN BONGWE/GOMBATO WARD				
	APPENDIX TO BILLNo.25: ENVIRONMENTAL MITIGATION ITEM 25.03				
	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	1. Environmental and Soil Erosion Mitigation Measures				
A	Construction of Scour Checks	No	0	5,000	-
B	Gabions Installation	No	6	15,400	92,400.00
C	Trees Planting with watering untill established	No	0	500	-
D	Topsoiling and grassing	SM	0	100	-
E	Stone pitching	SM	0	2,000	-
F	Provision of waste disposal/Dust bins	No	0	5,000	-
G	Drinking water	Litres	0	50	-
H	Personal Protective Equipment	No	0	1,000	-
					-
	Total carried to Bill Item 25.03				92,400.00