	PROPOSED REHABILITATION OF VUKANI-MLUNGUNIPA ROAD IN BONGWE/GOMBATO WARD				
BILL OF QUANTITIES: No.1 PRELIMINARIES & GENERAL ITEMS					
ITEM	**DESCRIPTION**	**UNIT**	**QUANTITY**	**UNIT RATE (Kshs)**	**TOTAL**
1.01	Allow Ksh. 30,000 for Material testings and reagents for the contract duration	PC Sum	1.000		
1.02	E.O. item 1.01 for Contractor's overheads and profits.	% of item	15%		
1.03	Provide, erect and maintain publicity signs as directed by the Engineer.	No.	1.000		
1.04	Allow a sum for project management support or as instructed by the Engineer	PC sum	1.000		
1.05	E.O item 25.01 for contractor's overhead and profit	% of item	0.100		
	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 conrete, 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	24.0		
8.02	Culvert installation 900mm with surround Class 20/20 as directed by the Engineer	Mt	36.0		
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	100.0		
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	95.0		
8.05	As per item 8.04, but for hard material	m^3	19.0		
	Bill No. 8 Total Carried Forward to Grand Summary				
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	0.200		
	Bill No. 9 Total Carried Forward to Grand Summary				
BILL OF QUANTITIES: No.17 CONCRETE WORKS (Vented Drif 70X6)					
ITEM	**DESCRIPTION**	**UNIT**	**QUANTITY**	**UNIT RATE (Kshs)**	**TOTAL**
17.01	Provide, place and compact class 20/25 concrete for drift(70X6) in accordance with the specifications including retaining walls, partion, toe walls and aprons, excavation and bedding or as directed by the Engineer	m^3	200		
17.02	Provide A142 BRC Mesh Reinforcement to specifications	m^2	900		
17.03	Provide hardcore material to be laid to drift as per Engineer's instructions(rates to include blinding for hardcore)	m^3	800		
17.04	Provide and install edge marker posts with reflective paint as directed by the Engineer	m	50		
17.05	Excavate, provide and place gabion boxes and rockfill to gabions, grouting where directed by the Engineer	No.	28		
1706.00	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.25 ENVIRONMENTAL IMPACT ASSESSMENT AND MITIGATION MEASURES					

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
25.01	Allow for 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		1.00		
25.03	Allow for Kshs 100,000 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	%	1.00		
	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				
17	Concrete works (Vented Drift)				
25	Environmental mitigation measures				
(A)	Sub-total (1)				
(B)	Add …3% Contigencies of subtotal(1)				
(C)	Sub-total (2)				
(C)	Add …16% VAT of sub-total (2)				
	GRAND TOTAL CARRIED FORWARD TO FORM OF BID				