

BILL 1: GENERAL						
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
					SHS	CT
1.01	Allow for PC Sum of Kshs. 2,000,000 for material testing	PC Sum	1	2,000,000	2,000,000	
1.02	E.O. item 1.01 for Contractor's overheads & profits	%				
1.03	Allow for PC Sum OF Kshs. 3,600,000 Resident Engineer's Miscellaneous Account to be spent in whole or part as directed by the Resident Engineer against receipts	PC Sum	1	3,600,000	3,600,000	
1.04	E.O. item 1.03 for Contractor's overheads & profits	%				
1.05	Allow for PC Sum OF Kshs. 13,500,000 for attendance to Engineers Staff in accordance with clause 137 of the Specifications	PC Sum	1	13,500,000	13,500,000	
1.06	E.O. item 1.05 for Contractor's overheads & profits	%				
1.07	Provide with drivers, fuel and maintain One (1) new 4WD fully loaded Station Wagon of minimum diesel engine capacity 2800 CC approved by the Engineer for his exclusive use, inclusive of the first 5000km per vehicle month. Vehicle to revert to the Contractor at the end of the project.	Veh Month	18			
1.08	E.O item 1.07 for total aggregated mileage in excess of 5000 km per vehicle month.	Km	18,000			
1.09	Provide with drivers, fuel and maintain one (1) new 4WD fully loaded double cabin pick-up of minimum diesel engine capacity 2500 CC approved by the Engineer for his exclusive use, inclusive of the first 5000km per vehicle month. Vehicle to revert to the Contractor at the end of the project.	Veh Month	18			
1.10	E.O item 1.09 for total aggregated mileage in excess of 5000 km per vehicle month.	Km	18,000			
1.11	Ditto item 1.09, but one (1) new 4WD standard double cabin pick-up of minimum diesel engine capacity 2500 CC approved by the Engineer for his exclusive use, inclusive of the first 5000km per vehicle month. Vehicle to revert to the Contractor at the end of the project.	Veh Month	18			
1.12	E.O item 1.11 for total aggregated mileage in excess of 5000 km per vehicle per month.	Km	18,000			
1.13	Ditto item 1.09, but One (1) new 4WD Single cabin pick-ups with fibre glass body of minimum diesel engine capacity 2500cc approved by the Engineer for his exclusive use, inclusive of the first 5000km per vehicle month. Vehicle to revert to the Contractor at the end of the project.	Veh Month	18			
1.14	E.O item 1.13 for total aggregated mileage in excess of 5000 km per vehicle per month.	Km	1,800			
1.15	Allow for a prime cost sum for of KShs 5,000,000 for engagement of a HIV/AIDS and COVID-19 specialist sub contractor to deal with prevention and awareness activities as per programme to be approved by the Engineer	PC sum	1	5,000,000.00	5,000,000	
1.16	E.O for Item 1.06 for Contractor's Oveheads and Profit	%				
1.17	Allow for PC Sum of Kshs. 30,000,000 for the construction of FULLY EQUIPED AND SOLAR POWERED 3No. Boreholes at a location instructed by the Resident Engineer	PC sum	1	30,000,000.00	30,000,000	
1.18	E.O for Item 1.17 for Contractor's Oveheads and Profit	%				
1.19	Provide, erect and maintain publicity signs as directed by the Engineer	No.	2			
Total of Bill Carried Forward to Summary						
BILL 4: SITE CLEARANCE AND TOPSOIL STRIPPING						
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
					SHS	CT
4.01	Heavy Bush Clearing	M ²	250,000			
Total of Bill Carried Forward to Summary						

BILL 5: EARTHWORKS						
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
					SHS	CT
	<i>No separate payments shall be made for the overhaul of material and the cost of such haulage shall be included in the rates and or prices</i>					
5.01	Fill in soft material including embankments and compaction to 95% MDD (AASHTO T99) in layers not exceeding 150mm	M ³	120,000			
5.02	Extra over item 5.01 for compaction of the top 300mm subgrade to 100% MDD AASHTO T99) in layers not exceeding 150mm	M ³	75,000			
5.03	Provide improved sub grade material (S4) to a thickness of 275mm or as instructed by the Engineer and compaction to 100% MDD (AASHTO T99)	M ³	0			
5.04	Cut to spoil in Soft material	M ³	150,000			
5.05	Cut to spoil in Hard material	M ³	1,000			
Total of Bill Carried Forward to Summary						

BILL NO. 7 : EXCAVATION AND FILLING OF STRUCTURES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	CT
	<i>Note: No separate payments shall be made for gravel for blinding or hauling to spoil unsuitable excavation materials and the cost of such shall be included in the rates and prices</i>					
7.01	Excavate to spoil in soft materials.	m ³	8,000			
7.02	As item 7.01 but in hard material.	m ³	800			
7.03	Provide, place and compact rockfill below and around structures.	m ³	6,500			
7.04	Provide and place 150mm thick stone pitching as directed by the Engineer including cement grouting	m ²	100,000			
7.05	Excavate for gabions in soft material.	m ³	1,740			
7.06	Provide and place gabion boxes and mattresses where directed by the Engineer.	m ²	4,000			
7.07	Rockfill to gabions.	m ³	4,670			
7.08	Filter fabric behind gabion boxes.	m ²	2,000			
7.09	Provide and backfill approved material around new structures, compact 100% MDD (AASHTO T99) in layers not exceeding 150mm.	m ³	6,800			
7.10	Allow for the provision and removal of cofferdams or other measures for the exclusion of water from site and for protection of works against floods.	LS	1	2,000,000	2,000,000	
7.11	River Training in Soft Material	m ³	500			
Bill No. 7 Total Carried Forward to Grand Summary						

F AND DRAINAGE WORKS						
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
					SHS	CT
	<i>Note: No separate payments shall be made for gravel for blinding or hauling to spoil unsuitable excavation materials and the cost of such shall be included in the rates and prices</i>					
8.01	Excavation in soft material for pipe culverts, headwalls, wingwalls, apron, toewalls, and drop inlets and compact as directed by the engineer	M ³	1000			
8.02	Provide, lay and joint 600mm dia. concrete pipes	M	300			
8.03	Provide, lay and joint 900mm dia. concrete pipes	M	500			
8.04	As Item 8.02 but Ø 450mm	M	0			
8.05	Provide and place class 15/20 concrete to beds, surround and haunches	M ³	1400			
8.06	Provide, place and compact class 25(20) concrete for headwalls, wingwalls, aprons, and toewalls to access and cross pipe culverts including all form work	M ³	500			
8.07	Provide and place 150mm thick stone pitching as directed by the Engineer including cement grouting	M	2,000			
8.08	Allow for construction of 16 No. Water Pans along the road at locations instructed by the Engineer	LS	1	16,000,000	16,000,000	
Total of Bill Carried Forward to Summary						
BILL 9: PASSAGE OF TRAFFIC						
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
					SHS	CT
9.01	Allow for passage of traffic through the Works	Km	50.0			
Total of Bill Carried Forward to Summary						
BILL 12: NATURAL MATERIAL BASE AND SUBBASE						
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
					SHS	CT
12.01	Provide, place, spread and compact natural gravel for subbase/base	M ³	60,000			
Total of Bill Carried Forward to Summary						
BILL 15: BITUMINOUS SURFACE TREATMENTS AND SURFACE DRESSING						
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
					SHS	CT
15.01	Prepare surface of road base and shoulders provide and spray MC-30 cutback bitumen prime coat at a rate of 0.8-1.2 l/m ²	Lts	0			
15.02	Prepare surface of road base and shoulders. Provide, heat and spray 80/100 bitumen on the carriageway and shoulders at a rate of 1.0-1.2 Litres/m ²	Litres	0			
15.03	Prepare surface of road base and shoulders. Provide, transport, lay and roll 10/14 mm Class 1 and above pre-coated with MC 30, chippings at a rate of 90-110m ² /m ³	m ³	0			
15.04	Provide & spray K1-60 as tack coat on carriageway, rate of 0.5-0.8 l/m ²	Lts	0			
Total of Bill Carried Forward to Summary						

BILL 16: BITUMINOUS MIXES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT SHS
16.01	Provide, lay and compact Asphalt Concrete for pothole patching and regulation as directed by the Engineer	M ³	0		
16.01	Provide, lay and compact 50mm Asphalt Concrete Type 1 wearing course as directed by the Engineer at a nominal Bitumen Content of 5 - 6% by weight of total mix	M ³	0		
Total of Bill Carried Forward to Summary					

BILL NO. 17. CONCRETE WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BRIDGES AND BOX CULVERTS					
Concrete					
17.01	Provide, place and compact Class 15(20) concrete blinding as instructed by the Engineer	m ³	190		
17.02	Provide, place and compact concrete class 25(20) to aprons, wingwalls, abutments and piers, walls and slabs for the Box culverts and bridges as shown in drawings.	m ³	3,200		
17.03	Provide, place and compact concrete class 30(20) to main beams, cross-beams deck and approach slabs as shown in drawings.	m ³	420		
Reinforcement: Provide, cut, bend & fix into position steel reinforcement as shown in the drawings or as instructed by the Engineer					
17.04	High yield reinforcement steel bars to BS 4461 equal to or less than 12mm diameter bar size	Tonne	142		
17.05	High yield bond strength reinforcement steel to BS 4461 equal to and greater than 16mm diameter bar size	Tonne	386		
Formwork: Provide, erect and afterwards dismantle and remove all the formwork as specified by the Engineer					
17.16	Provide & fix in place formwork to achieve class F1 finish	m ²	4,076		
17.17	Provide formwork to achieve class F3 finish	m ²	5,076		
Bill No. 17 Total Carried Forward to Grand Summary					

BILL 20: ROAD FURNITURE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT SHS
20.01	Excavate for , provide and place 100 x 125 mm class 25/20 precast concrete flushed kerbs in support of carriageway	M	0		
20.02	Provide and erect warning type signs	No	20		
20.03	Provide and erect standard informatory signs 400*300mm	No	20		
20.04	Paint 0.1m Wide Thermoplastic yellow centre line	M ²	0		
20.05	Paint 0.1m Wide Thermoplastic white line on the road	M ²	0		
Total of Bill Carried Forward to Summary					

BILL NO. 21: MISCELLANEOUS BRIDGE WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.01	Form 75-100 mm weepholes sloped to suit in abutments and structural walls of structures.	No	560		
21.02	Form holes 75-100mm dia in deck slab and insert heavy duty PVC 100mm diameter 600mm long, top sealed with perforated steel grating.	No	560		
21.03	Provide and install elastomeric bearings LEB IRHD size 500 x 450x 54 mm thick.	No	20		
21.04	Providing and placing bitumen emulsion or cutback bitumen or bitumen/rubber latex emulsion to all structural concrete in contact with fill material or cut soil.	m ²	2,000		
21.05	Provide and place into position handrails along the edge of the carriageway as per drawings and as instructed by the Engineer.	m	397		
21.06	Provide and place into position galvanised flexi-beam guardrails including end pieces,nuts and bolts along the approaches to the bridges as per drawings and as instructed by the Engineer	m	415		
21.07	Movement joints at abutments and piers including dowels	m	30		
	25mm thick 'flex cell' or similar approved low compression joint filler at expansion joint	m	30		
21.08	Paraseal or similar approved cold poured polysulphide sealant	m	30		
21.09	Provide and place a 0.5m wide drainage layer of class 14/20 mm to structural concrete in contact with fill material.	m ³	240		
Bill No. 21 Total Carried Forward to Grand Summary					

ODDA - BUTE - DANABA ROAD**PROPOSED INTERVENTION SCHEDULE**

S/No.	Chainage	Proposed Intervention	Revised Size	Stream Name	Length
1	2+700	Burred drift	10x70	Kinisa flood Plain	70
2	3+100	Bridge	60m	Kinisa river	60
3	10+600	Burred drift	9x30	Yabalo town	30
4	52+200	Box Culvert	2 cell 5x2.5m	Katamaa stream	10
5	54+830	Vented Drift	2no. cell 5m x 1.2m	Far-Lebi	10
6	57+720	Vented Drift	2no. cell 5m x 1.2m	Bambaa	10
7	59+550	Box Culvert	1no. cell 4m x 2m	Kambi	11
8	67+560	Vented Drift	1no. cell 5m x 1.2m	Far-Gumar	10
9	72+200	Burred drift	9 x 12	"	10
10	74+900	Box Culvert	2no. cell 4m x 2m	Qarsabula 1	12
11	73+820	Burred drift	1no. cell 5m x 1.2m	Qarsabula2	10
12	80+400	Burred drift	1no. cell 5m x 1. 2m	Qarsabula3	12
13	84+160	Box Culvert	3no. cell 4m x 2m	Lag Jarra	12
14	84+240	Box Culvert	1no. cell 4m x2m	"	12
15	86+900	Burred drift	2no. cell 5m x 1.2m	Handarak	10

SUMMARY OF BILL OF QUANTITIES

BILL ITEM	DESCRIPTION	AMOUNT(KShs)
1	Preliminaries and General Items	
4	Site Clearance and Top Soil Stripping	
5	Earth Works	
7	EXCAVATION AND FILLING OF STRUCTURES	
8	Culverts and Drainage Works	
9	Passage to Traffic	
12	Natural Gravel Base and Subbase	
15	Bituminous Surface Treatment and Surface Dressing	
16	Bituminous Mixes	
17	CONCRETE WORKS	
20	Road Furniture	
21	MISCELLANEOUS BRIDGE WORKS	
(A)	SUB-TOTAL (1)	
(B)	Add 25% VARIATION OF PRICE of sub total (1)	
(C)	Add 5% CONTIGENCIES of sub total (1)	
(D)	SUB-TOTAL (2) = (A + B + C)	
(E)	Add 16% VAT of sub-total (2)	-
	Grand Total Carried to Form of Bid	-