

BILL NO. 1 - GENERAL					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT (KSHS)
	NOTE: The following items for housing, offices and laboratory for the Resident Engineer shall be deemed to include all cost involved in providing and maintaining such buildings, including furniture/ fittings and access thereto and for provision of security, heating, lighting, power, water, sewage and refuse disposal as required for the duration of the contract. Prime cost sum for supervisory staff Include percentage of P.C sum in item 1.01 for Contractor's overhead and profit				
1.01	Prime cost sum for supervisory staff	PC	1	500,000.00	500,000.00
1.02	Include percentage of P.C sum in item 1.01 for Contractor's overhead and profit	%		10%	50,000.00
1.03	Prime cost sum for maintenance of Resident Engineers office	PC	1,000,000	1,000,000.00	1,000,000.00
1.04	Include percentage of P.C sum in item 1.03 for Contractor's overhead and profit	%		10%	100,000.00
1.05	Prime cost sum for quality control	PC	500,000	500,000.00	500,000.00
1.06	Include percentage of P.C sum in item 1.05 for Contractor's overhead and profit	%		10%	50,000.00
1.07	Allow for removal of encroachments and re-location of services	item	1	500,000.00	500,000.00
1.08	Include percentage of P.C sum in item 1.07 for Contractor's overhead and profit	%	1	10%	50,000.00
1.09	Provide ,erect and maintain publicity sign boards including defects liability period as directed by the Engineer in accordance	No.	1	20,000.00	20,000.00
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BILL NO .4: SITE CLEARANCE AND TOP SOIL STRIPPING					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT (KSHS)
4.01	Clear site on road reserve including removal of trees, hedges, bushes and other vegetation and other deleterious materials, grub up roots and backfill to 100% MDD (AASHTO T99) with approved material in accordance with the Special Specifications	HA.	2		
4.02	Top soil removal to a maximum depth of 200mm along alignment or material sites including removal of grass and other vegetation as shall be directed by the Engineer Stockpile top soil for re-use.	m³	6,300		
	<b>Total of Bill No.4 carried forward to summary page</b>				
BILL NO. 5: EARTH WORKS					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT (KSHS)
	<b>No separate payments shall be made for the overhaul of material and the cost of such haulage shall be included in</b>				
5.01	Fill in soft material for embankment to 95% MDD (AASHTO T99) as directed by the Engineer	m³	2,300		
5.02	As item 5.01 but hard material	m³	500		
5.03	Cut to spoil in Soft material for drainage	m³	1,500		
5.04	As item 5.03 but hard material	m³	300		
5.05	Compact 150mm layer below embankment or subgrade to 95% MDD (AASHTO T.99)	M³	2,300		
5.06	Compact 300mm below formation in cutting to 100% MDD (AA SHTO)	m³	4,000		
	<b>Total of Bill No.5 carried forward to summary page</b>				
BILL NO. 7: EXCAVATION AND FILLING FOR STRUCTURE					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT (KSHS)
	<b>NOTE: No separate payment shall be paid for the haulage of spoil material</b>				
7.01	Excavate for gabions to spoil in soft material	m³	15		
7.02	Provide and place gabion mesh-boxes as shown on the drawings or as directed by the Engineer (a) 2m x 1m x 1m	m²	50		
7.03	Provide and place rock fill to gabion boxes	m³	25		
7.04	Provide and place 150 mm thick stone pitching	m²	3,250		
7.05	E.O item for 1:4 cement: sand mortar grouting to item 7.04 as directed	m²	6,500		
	<b>Total of Bill No.7 carried forward to summary page</b>				

<b>BILL NO.8: CULVERTS AND DRAINAGE WORKS</b>					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT(KSHS)
	No separate payment shall be made for the haulage of surplus or unsuitable excavated material and the cost of such haul				
8.01	Excavate for culverts and subsoil drains in soft material	m³	2,500		
8.02	Excavate for mitre, catch water and outfall drains in soft material	m³	500		
8.03	E.O Item 8.01 to 8.02 for excavation in hard material	m³	50		
8.04	Provide concrete class25/20 Scour checks	No.	50		
8.05	Provide and place Class 25(20) concrete to headwalls, wing walls and aprons, to pipe culverts including formwork and	m³	300		
8.06	Provide, place and compact class 15(20) concrete to beds , surrounds an d haunches	m³	250		
8.07	Provide and lay 600mm I.D concrete pipes	m	500		
8.08	Ditto as 8.07 above but 1200mm	m	50		
8.09	Ditto as 8.07 above but 900mm	m	50		
8.1	Ditto as 8.07 above but 450mm	m	50		
8.11	Excavate, remove and dispose existing pipe culverts of 1200mm diameter or less including demolition of inlet and outlet structures.	m	150		
	<b>Total of Bill No. 8 carried forward to summary page</b>				
<b>BILL NO. 9: PASSAGE OF TRAFFIC</b>					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT (KSHS)
	NOTE: Notwithstanding the provision of Section 9 of Standard Specification, no extra payments shall be due as all costs shall deemed to be included in the rates inserted herein				
9.01	Allow for the passage of traffic through and around the works	L.sum	1	150000	150000
	<b>Total of Bill NO.9 carried forward to summary</b>				
<b>BILL NO 11; FOOT PATH TO CARRIAGEWAY PAVEMENT</b>					
ITEM	DESCRIPTION	UNIT	QTY BILL QTY	UNIT RATE	AMOUNT (KSHS)
	The rate inserted should include the spreading procurement, winning, haulage, and compacting				
11.01	Cut benches on foot path, widening and busbays where directed by the Engineer including compaction to 100% MDD(AASHTO)	m²	5,000		
	<b>Total of Bill No 11 carried forward to summary page</b>				
<b>BILL NO 13: HAND PACKED HARDCORE BASE</b>					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT (KSHS)
	The rate inserted should include the procurement, haulage, winning ,mixing in stabilizer, spreading, watering ,laying by paver and compaction				
13.01	Provide, place and compact hand packed hardcore base in pavement and repair areas as directed by the Engineer including 50mm thick quarry dust blinding	m³	6,000		
13.02	Allow for heavy grading to falls and cross falls	m²	15,600		
	<b>Total of Bill No13 carried forward to summary page</b>				
<b>BILL NO. 15: BITUMINOUS SURFACE TREATMENTS AND SURFACE DRESSING</b>					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT (KSHS)
15.01	Prepare surface of carriageway, foot path, busbays accesses and junctions, provide, heat and spray MC 70 cutback bitumen prime coat at a rate of 0.8-1.0 litres per square metre	lt	23,000		
15.02	Prepare surfaces, provide heat and spray 80/100 penetration grade bitumen as seal coat on carriageway, shoulders, busbays and junction at a rate of 0.8-1.0 litres per m²	lt	23,000		
15.03	Ditto for 10/14 chipping as single coat on carriageway and foot path at 70 - 100m² /m³	m³	500		
	<b>Total of Bill No.15 carried forward to summary page</b>				

<b>BILL NO. 16: BITUMINOUS MIX BASES,BINDER COURSES AND WEARING COURSE</b>					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT (KSHS)
16.01	Prepare surface of carriageway, provide heat and spray KI-60 bitumen tack coat at a rate of spray of 0.3-0.8 litres per square meter on surface prepared under item 15.01	lt	17,000		
16.02	Provide and lay 35mm thick asphalt concrete Type 1 to carriageway as directed by the Engineer	m <sup>3</sup>	670		
<b>Total of Bill No. 16 carried forward to summary page</b>					
<b>BILL NO 20-ROAD FURNITURE</b>					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT (KSHS)
20.01	Prepare road surface, spray tack coat, provide approved reflectorised thermoplastic white paint and apply road marking of which as directed by the Engineer.	m <sup>2</sup>	385		
20.02	As item 20.01 but approved reflectorised thermoplastic yellow paint	m <sup>2</sup>	175		
20.03	Provide and erect permanent road signs where instructed by Engineer and in accordance with the special specifications clause 2004 as follows:-				
	(a) Warning signs(750mm)	No	6		
	(b) Priority prohibitory and mandatory signs (750mm x 600mm)	No	3		
	(c) Standard informatory signs (400mm x300mm)	No	10		
	(d) Non standard informatory signs area				
	(i) Less than 1.0m <sup>2</sup>	No	10		
	(ii) 1.0m <sup>2</sup> <A>2m <sup>2</sup>	No	5		
	(iii) 2.0m <sup>2</sup> <A>4m <sup>2</sup>	No	4		
20.04	Excavate for, provide, lay and joint 250x125mm precast concrete raised or ramped kerb haunched in 100mm thick class 15/20 concrete base bending and mortar joined in support to carriageway, busbays and junctions as directed by the Engineer				
	(1) Straight Kerbs	m	5,200		
	(2) Kerb radius 12m-6m	m	175		
	(3) Quadrant radius < 1m	m	88		
	(4) Straight Channel (125x100mm)	m	5,200		
20.05	Provide and erect concrete edge marker posts with two reflectors per post where directed	No	11		
<b>Total carried forward to Next page</b>					
<b>BILL NO 20 CONT.</b>					
ITEM	DESCRIPTION	UNIT	QTY BILL QTY	UNIT RATE	AMOUNT (KSHS)
<b>Brought forward from previous page</b>					
20.06	Provide and erect Road reserve boundary posts where directed by the Engineer	No.	35		
20.07	Erect standard bumps using asphalt concrete type 1 where directed	m	120		
20.08	Provide and place 20/20 Bollard size 12m x0.1m x 0.1m embedded to a depth 0.2m where directed by the Engineer	m	35		
20.09	Allow for beautification	item	1	100,000.00	100,000.00
<b>Total of Bill No.20 carried forward to summary page</b>					

<b>BILL NO. 25 : HIV/AIDS</b>					
ITEM	DESCRIPTION	UNIT	BILL QTY	UNIT RATE	AMOUNT TO DATE(KSHS)
25.01	Implement HIV/AIDS awareness campaign amongst the workers for the duration of the contract including provision of	Item	1	50,000.00	50,000.00
<b>Total of Bill No. 25 carried forward to summary</b>					
<b>Bill No. 22 - DAYWORKS (This bill is not to be included in the contract price - see standard specifications)</b>					
		UNIT	BILL QTY	UNIT RATE	BILL AMOUNT
Note: Any plant employed upon Day works which have power rating lower than that specified, shall be paid for at rates lower than those in the Schedule of Day works. The reduction in the payable rate shall be in proportion to the power rating below that specified.					
22.01	PLANT				
	Crawler Dozer and Hydraulic Ripper				
	a) 100-135Kw rated flywheel power	Hr	150		
	b) 136-250 Kw rated flywheel power	Hr	150		
	c) 186-250Kw rated flywheel power	Hr	150		
22.02	Motorized rubber tyred twin engine scrappers				
	a) up to 16m heaped capacity	Hr	50		
	b) 17-26m heaped capacity	Hr	50		
22.03	Motorized rubber tyred twin engine scrappers				
	a) Up to 15m heaped capacity	Hr	100		
	b) 17-26m heaped capacity	Hr	100		
22.04	Motor Graders				
	a) 80-110 Kw rated flywheel power	Hr	150		
	b) 111-120Kw rated flywheel power	Hr	150		
	c) 121-160Kw rated flywheel power	Hr	150		
22.05	Rollers Towed vibratory including tractor				
	a) 6.5-8.8t un ballasted wt	Hr	50		
	b) 8.6-11.7ft un ballasted wt	Hr	50		
22.06	Road Roller deadweight (steel three wheel)				
	a) 6.5-8.8t un ballasted wt	Hr	50		
	b) 8.6-11.7ft un ballasted wt	Hr	50		
22.07	Roller rubber tyred self propelled				
	a) upto 1t per wheel	Hr	150		
	b) 1.1t-2.0t per wheel	Hr	150		
22.08	Roller vibratory single roll rubber tyred 8.3-10.5t unballasted weight	Hr	150.00		
22.09	Vibratory pedestrian operated twin roller 135kg - 1.3t unballasted weight	Hr	150.00		
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<b>BILL NO 22 - DAYWORKS CONT</b>				
		UNIT	BILL QTY	UNIT RATE
22.1	Vibrating plate compactor 114-200kg operating weight	Hr	50.00	
22.11	Compressor rated by normal delivery of free air per minute complete with all tools			
	(a) 6.0-7.4m <sup>3</sup> /min		200	
	(b) 7.5-9.7m <sup>3</sup> /min		200	
	© 9.8-25.5m <sup>3</sup> /min		200	
22.12	Mobile rubber tyred rough terrain crane 23-40 t max working load	Hr	50	
22.13	Tracked Excavator Cranes			
	(a) 20-28t max working load	Hr	150	
	(b) 28.1-36.1t max working load	Hr	150	
	© 36.1-56t max working load	Hr	150	
22.14	Small dumpers 751kg-1.2t max rated payload	Hr	100	
22.15	Excavators hydraulic wheeled dual purpose			
	(a) 0.6-0.8m rated bucket capacity	Hr	100	
	(b) 0.81-1.0m rated bucket capacity	Hr	50	
22.16	Pumps (Inclusive of all hoses)			
	(a) 50-76mm delivery	Hr	300	
	(b) 77-101mm delivery	Hr	300	
22.17	Rubber tyred tractors including trailer.50-70kw rated flywheel power	Hr	50	
	Wheeled loaders 4x4 articulate			
	(a) 1.4-2.0m SAE rated capacity	Hr	50	
	(b) 2.01-3m SAE rated capacity	Hr	50	
	© 3-5m SAE rated capacity	Hr	50	
22.19	Crawler Loaders			
	(a) 0.8-1.3m SAE rated capacity	Hr	50	
	(b) 1.31-1.99 m SAE rated capacity	Hr	50	
	© 2-2.5 m SAE rated capacity	Hr	50	
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BILL NO 22 - DAYWORKS CONT.					
	Carried forward from previous page				
22.2	Concrete mixers (wet capacity)				
	(a) up to 1000litres	Hr	100		
	101-200 litres	Hr	100		
	201-300 litres	Hr	100		
22.21	Concrete poker vibrator	Hr	300		
22.22	Lorries- Ordinary				
	(a) up to 7.5t gross vehicle weight	Hr	100		
	(b) 7.6-12.0t gross vehicle weight	Hr	100		
22.23	Lorries Tippers				
	(a) upto 11t gross vehicle weight	Hr	50		
	(b) 11-17t gross vehicle weight	Hr	50		
	© 17.1-25t gross vehicle weight	Hr	50		
22.24	Van, Pickup or similar utility vehicle				
	(a) up to 1 t carrying capacity	Hr	50		
	(b) 1.1-2.6 t carrying capacity	Hr	50		
22.25	Self propelled water or fuel tanker				
	(a) 3500-4550 litre capacity	Hr	100		
	(b) 4551-7000 litre capacity	Hr	100		
	© 7001-12000 litre capacity	Hr	100		
22.26	Pressure Bitumen distributor				
	(a) 3500-4550 litre capacity	Hr	75		
	(b) 4551-9000 litre capacity	Hr	75		
22.27	Mechanical Broom	Hr	50		
22.28	Labour				
	(a) Unskilled Labour	Hr	2,000.00		
	(b) Artisan	Hr	1,500.00		
	(c) Plant Operator	Hr	1,500.00		
	(d) Driver	Hr	1,000.00		
	(e) Foreman	Hr	1,000.00		
	(f) Office attendants and chainmen	Hr	2,000.00		
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BILL NO 22 - DAYWORKS CONT.					
		UNIT	BILL QTY	UNIT RATE	BILL AMOUNT
Carried forward from previous page					
Materials All items of materials must be priced to comply with the specifications					
22.29	Ordinary Portland Cement		40		
22.3	Hydrated Lime		40		
22.31	Mild Steel (any diameter 5-25mm)			5	
22.32	High Yield Steel (any diameter 5-32mm)			5	
22.34	Aggregates for Concrete				
	(a) Fine		50		
	(b) Coarse		100		
22.35	Shuttering Timber				
	a) F 1 finish	m <sup>2</sup>	50		
	b) F 2 finish	m <sup>2</sup>	50		
	Bitumen				
	a) MC30	Lt	2,000.00		
	b) MC3000	Lt	2,000.00		
	c) 80/100	Lt	2,000.00		
	Chippings				
	a) Class 3 any size	m <sup>3</sup>	100		
	b) Fine aggregate	m <sup>3</sup>	100		
	<b>Total carried to summary page</b>				
<b>Summary</b>					
<b>Bill No.</b>	<b>Description</b>	<b>Tender Amount</b>			
1	General				
4	Site clearance				
5	Earthworks				
7	Excavation and filling for structures				
8	Culvert and drainage works				
9	Passage of traffic				
11	Footpath to carriageway				
13	Hand packed hardcore base				
15	Bituminous surface treatment				
16	Bituminous mix bases, binder courses and wearing co				
20	Road furniture				
25	HIV/AIDS				
A	Sub Total 1				
B	Add 7.5% Contingencies				
	Add 10% Variations				
	Add 0.5% NEMA Fee				
C	Sub Total 2				
D	Add V.A.T				
E	<b>TOTAL</b>				