



Transforming Urban Mobility

Kenya Urban Roads Authority

Barabara Plaza Mazao Road, Off Airport South Road

P.O BOX 41727-00100 Nairobi, Kenya

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Ref: KURA/EO/SCM/3/Vol 31 (44)

Date: 13th October, 2023

To All Bidders

RE: ADDENDUM NO. 1

Reference is made to the above subject matter.

This is to notify all bidders that an addendum No. 1 has been issued for the tenders shown in the table below:

S/No.	TENDER NUMBER	TENDER NAME	CORRECTION
1.	KURA/RMLF/HQ/323/2023-2024	Improvement of Kericho Town Roads Lot 2	Replace Bills of Quantities: Page 148 – 170 as attached
2	KURA/RMLF/HQ/324/2023-2024	Improvement of Kericho Town Roads Lot 3	Bid Bond Amount is: Kshs.1,500,000.00
2.	KURA/RMLF/HQ/325/2023-2024	Improvement of Kericho Town Roads Lot 4	Replace Bills of Quantities: Page 147 - 156 As attached Bid Bond Amount is: Kshs.3,000,000.00

Details of the addendum can be accessed on our Website www.kura.go.ke.

Saadia Haji Adankhalif
FOR: DIRECTOR GENERAL



contract Name		PROPOSED IMPROVEMENT OF KERICHO TOWN ROADS PACKAGE 2					2023-2024
BILL OF QUANTITIES							
			Road Code				
			Section Name		John Kerich Road		
Bill No.	ITEM CODE	DESCRIPTION	UNIT	Quantity	Unit Bid RATE (KShs)	Amount (KSHs)	
Bill. 1 Preliminaries and General							
1	01.80.010	Allow a prime cost of sum for material testing as directed by the Engineer	PC SUM	300,000.00	1.00	300,000.00	
1	01.80.011	Extra over item 01-80-010 for contractor’s overheads and profits	%	300,000.00			
1	01.80.030	Allow a prime cost for attendance to the RE,s supervisory staff including overtime	PC SUM	450,000.00	1.00	450,000.00	
1	01.80.031	Include percentage of PC sum in item 01-80-030 for contractors overhead and profit	%	450,000.00			
1	01.80.042D	Allow for prime cost sum for survey works	PC SUM	150,000.00	1.00	150,000.00	
1	01.80.042E	Include Percentage cost Sum in Item01-80-042d	%	150,000.00			
1	01.80.038	Provide fuel and maintain with driver,4WD double cabin (adometer:0 - 10000) for exclusive use by the Engineer inclusive of the first 4,000km per vehicle month in accordance with clause 138 of special specification.	V/Mont hs	7.00			
Sub Total Carried to Summary of Bills							

Bill. 4 Site Clearance						
4	04.90.002	Allow a prime cost sum for removal and reinstatement of services	PC SUM	200,000.00		
4	04.90.002a	Extra over item 01-80-012 for profits and overheads	%	200,000.00		
Sub Total Carried to Summary of Bills						

Bill. 5 Earthworks						
5	05.50.008	Cut to spoil in Soft	M ³	600.00		
Sub Total Carried to Summary of Bills						

Bill. 8 Culvert and Drainage Works						
8	08.60.025	Culvert Installation 600 mm with surround	METERS	15.00		
8	08.60.032	Provide and place class 15/20 concrete to beds	M ³	10.00		
8	08.60.034	Provide, place and compact class 25/20 concrete to headwalls, wingwalls, aprons, and toe walls to pipe culverts.	M ³	15.00		
8	08.60.035	Provide, place A142 fabric mesh reinforcement for item 08-60-019a	M ²	5.00		
Sub Total Carried to Summary of Bills						

Bill. 11: Shoulder maintenance and repairs						
11	11.50.001	Prepare surface of existing shoulders, accesses and bus bays, including benching where necessary, water process and compact in accordance with the specification and as directed by the Engineer to receive gravel.	M ²	4,000.00		
Sub Total Carried to Summary of Bills						

Bill. 12 Subbase and Base Materials						
12	12.50.001	Provide, lay and compact Hand packed stone material including fillings voids with stone dust as directed by the Engineer.	M ³	30.00		
12	12.50.003	Provide, place, spread and compact natural gravel for subbase to footpaths and shoulders	M ³	450.00		
Sub Total Carried to Summary of Bills						

Bill. 15. Bituminous Surface Treatment						
15	15.50.003	Provide and spray K-160 as tack coat at a rate of 0.8-1.0 L/sq metre as directed by the Engineer	L	7,700.00		
Sub Total Carried to Summary of Bills						

Bill. 16. Bituminous Mixes						
16	16.60.001	Provide, lay and compact 35mm AC Type I as overlay layer for the whole section as a wearing course	M ³	318.50		
Sub Total Carried to Summary of Bills						
Bill. 20. Road Furniture						
20	20.50.012	Excavate for, provide & place 250 x 125mm precast concrete raised or ramped kerbs haunched in 100mm thick class 15/20 concrete base bedding and mortar joined in support to carriageway, bus bays and junctions as directed by the Engineer				
		a) Straight kerbs	m	2,000.00		
		b) Kerbs radius 12m - 6m	m	5.00		
		c) Ditto but radius 5m - 1m	m	5.00		
20	20.50.011	As 20.02 but for flush kerbs 100 x 125mm	m	2,200.00		
20	20.70.005	Provide and erect permanent road signs where instructed by the Resident Engineer and in accordance with Special Specifications Clause 2004 as follows				
		a) Warning signs	No.	2.00		
		b) Priority prohibitory and mandatory signs	No.	1.00		
		c) Standard informatory signs	No.	5.00		
20	20.50.021	Provide and place steel bollard of 150mm diameter by 1500mm height and 3mm thickness, embedded to a depth 0.75m. This should be inclusive of all weather resistant reflective sticker, and class 15/20 concrete bed and fill	NO	500		
20	20.70.010	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	280.00		

20	20.70.011	As Item 20.05 but for yellow reflectionized thermoplastic paint	m2	150.00		
Sub Total Carried to Summary of Bills						

Bill. 23. Paving Works

23	23.50.002	Provide, lay and compact 60mm thick colored interlocking concrete paving blocks with 35 N/mm2 cube crushing strength conforming to BS 6717 Part 1 of 1986 or Kenya Bureau of Standard equivalent including 40 mm thick compacted sand bed	M ²	1,500.00		
Sub Total Carried to Summary of Bills						

Bill. 25. Cross Cutting Issues

25	25.50.029a	Provide and erect and maintain publicity sign at the beginning and end of each road as directed by the Engineer	No	1.00		
Sub Total Carried to Summary of Bills						

SUMMARY PAGE		
BILL ITEM	DESCRIPTION	AMOUNT (KSHS)
1	Preliminaries and General Items	
4	Site Clearance	
5	Earth Works	
8	Culverts and Drainage Works	
11	Shoulder maintenance and repairs	
12	Natural Gravel Base and Subbase	
15	Bituminous Surface Treatment and Surface Dressing	
16	Bituminous Mixes	
20	Road Furniture	
23	Paving Works	
25	Cross cutting Issues	
	SUB-TOTAL	
	Add 16% VAT of sub-total	
Grand Total carried Forward to Summary		



contract Name		PROPOSED IMPROVEMENT OF KERICHO TOWN ROADS PACKAGE 2				2023-2024
BILL OF QUANTITIES						
			Road Code			
			Section Name		John Kerich Lane	
Bill No.	ITEM CODE	DESCRIPTION	UNIT	Quantity	Unit Bid RATE (KShs)	Amount (KSHs)
Bill. 1 Preliminaries and General						
1	01.80.010	Allow a prime cost of sum for material testing as directed by the Engineer	PC SUM	100,000.00	1.00	100,000.00
1	01.80.011	Extra over item 01-80-010 for contractor's overheads and profits	%	100,000.00		
1	01.80.026	Allow a prime cost sum for the REs miscellaneous account	PC SUM	100,000.00	1.00	100,000.00
1	01.80.027	Extra over 01-80-026 for profits and overheads	%	100,000.00		
1	01.80.030	Allow a prime cost for attendance to the RE's supervisory staff including overtime	PC SUM	200,000.00	1.00	200,000.00
1	01.80.031	Include percentage of PC sum in item 01-80-030 for contractors overhead and profit	%	200,000.00		
Sub Total Carried to Summary of Bills						

Bill. 5 Earthworks						
5	05.50.006	Fill in soft materials including benching of embankments and compact to at least 95% MDD (AASHTO T99) in layer not exceeding 150mm	M3	240.00		
5	05.50.007	Ditto item 5.01 but in hard materials	M3	360.00		
5	05.50.008	Cut to spoil in Soft	M ³	1,260.00		
5	05.50.016	Scarify water and compact existing ground to at least 95%MDD(AASHTO T99) to a depth of 150mm below ground level.	M ³	300.00		

5	05.60.017	Selected materials for improved sub grade of minimum soils class S3 (CBR 10): dump, spread, water, mix and compact to 100% (MDD AASHTO T.99) as per specification	M ³	480.00		
Sub Total Carried to Summary of Bills						

Bill. 8 Culvert and Drainage Works

8	08.50.015	Gulley pot construction includes frame, cover and connected to the existing drain as directed by the engineer	NO	20.00		
	08.50.024	Manhole construction	NO	20		
8	08.60.025	Culvert Installation 600 mm with surround	METE RS	200.00		
8	08.60.032	Provide and place class 15/20 concrete to beds	M ³	20.00		
8	08.60.034	Provide, place and compact class 25/20 concrete to headwalls, wingwalls, aprons, and toe walls to pipe culverts.	M ³	5.00		
8	08.60.035	Provide, place A142 fabric mesh reinforcement for item 08-60-019a	M ²	15.00		
Sub Total Carried to Summary of Bills						

Bill. 12 Subbase and Base Materials

12	12.50.001	Provide, lay and compact Hand packed stone material including fillings voids with stone dust as directed by the Engineer.	M ³	210.00		
12	12.50.003	Provide, place, spread and compact natural gravel for subbase	M ³	210.00		
Sub Total Carried to Summary of Bills						

Bill. 15. Bituminous Surface Treatment

15	15.50.002	Provide and Spray MC 30 cut-back bitumen as prime coat to carriageway, shoulders, bus bays and junctions at rate 0.8-1.2 lts/m ² as prime coat	L	1,400.00		
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15	15.50.003	Provide and spray K-160 as tack coat at a rate of 0.8-1.0 L/sq metre as directed by the Engineer	L	2,100.00		
Sub Total Carried to Summary of Bills						

Bill. 16. Bituminous Mixes						
16	16.60.001	Provide, lay and compact 50mm AC Type I as overlay layer for the whole section as a wearing course	M ³	132.50		
Sub Total Carried to Summary of Bills						

Bill. 20. Road Furniture						
20	20.50.012	Excavate for, provide & place 250 x 125mm precast concrete raised or ramped kerbs haunched in 100mm thick class 15/20 concrete base bedding and mortar joined in support to carriageway, bus bays and junctions as directed by the Engineer				
		a) Straight kerbs	m	400.00		
		b) Kerbs radius 12m - 6m	m	7.00		
		c) Ditto but radius 5m - 1m	m	7.00		
20	20.50.011	As 20.02 but for flush kerbs 100 x125mm	m	400.00		
20	20.70.005	Provide and erect permanent road signs where instructed by the Resident Engineer and in accordance with Special Specifications Clause 2004 as follows				
		a) Warning signs	No.	1.00		
		b) Priority prohibitory and mandatory signs	No.	1.00		
		c) Standard informatory signs	No.	1.00		
20	20.70.010	Provide, deliver, paint and mark the road as specified or as directed by the Engineer, with white reflectionized	m ²	40.00		

		thermoplastic paint from an approved supplier				
20	20.70.011	As Item 20.05 but for yellow reflectionized thermoplastic paint	m2	20.00		
Sub Total Carried to Summary of Bills						

Bill. 25. Cross Cutting Issues						
25	25.50.029 a	Provide and erect and maintain publicity sign at the beginning and end of each road as directed by the Engineer	No	1.00		
Sub Total Carried to Summary of Bills						

SUMMARY PAGE		
BILL ITEM	DESCRIPTION	AMOUNT(KShs)
1	Preliminaries and General Items	
5	Earth Works	
8	Culverts and Drainage Works	
12	Natural Gravel Base and Subbase	
15	Bituminous Surface Treatment and Surface Dressing	
16	Bituminous Mixes	
20	Road Furniture	
25	Cross cutting Issues	
	SUB-TOTAL	
	Add 16% VAT of sub-total	
Grand Total carried Forward to Summary Page		

contract Name		PRISON ROAD					
BILL OF QUANTITIES							2023-2024
			Road Code				
			Section Name	Prison Road			
Bill No.	ITEM CODE	DESCRIPTION	UNIT	Quantity	Unit Bid RATE (KShs)	Amount (KShs)	

Bill. 1 Preliminaries and General

1	01.80.010	Allow a prime cost of sum for material testing as directed by the Engineer	PC SUM	50,000.00	1.00	50,000.00
1	01.80.011	Extra over item 01-80-010 for contractor's overheads and profits	%	50,000.00		
1	01.80.030	Allow a prime cost for attendance to the RE,s supervisory staff including overtime	PC SUM	300,000.00	1.00	300,000.00
1	01.80.031	Include percentage of PC sum in item 01-80-030 for contractors overhead and profit	%	300,000.00		
1	01.80.042D	Allow for prime cost sum for survey works	PC SUM	150,000.00	1.00	150,000.00
1	01.80.042E	Include Percentage cost Sum in Item01-80-042d	%	150,000.00		
Sub Total Carried to Summary of Bills						

Bill. 5 Earthworks

4	04.60.001	Clear site on road reserve including removal of all growths bushes hedges trees stumps grub up root and other deleterious materials and back fill and compact to 100% MDD with approved materials as directed by the engineer	Ha	0.10		
4	04.90.002	Allow a prime cost sum for removal and reinstatement of services	PC SUM	200,000.00	1.00	200,000.00
4	04.90.002a	Extra over item 01-80-012 for profits and overheads	%	200,000.00		
Sub Total Carried to Summary of Bills						

contract Name		PRISON ROAD					
BILL OF QUANTITIES							2023-2024
			Road Code				
			Section Name	Prison Road			
Bill No.	ITEM CODE	DESCRIPTION	UNIT	Quantity	Unit Bid RATE (KShs)	Amount (KShs)	

Bill. 1 Preliminaries and General

1	01.80.010	Allow a prime cost of sum for material testing as directed by the Engineer	PC SUM	50,000.00	1.00	50,000.00
1	01.80.011	Extra over item 01-80-010 for contractor's overheads and profits	%	50,000.00		
1	01.80.030	Allow a prime cost for attendance to the RE,s supervisory staff including overtime	PC SUM	300,000.00	1.00	300,000.00
1	01.80.031	Include percentage of PC sum in item 01-80-030 for contractors overhead and profit	%	300,000.00		
1	01.80.042D	Allow for prime cost sum for survey works	PC SUM	150,000.00	1.00	150,000.00
1	01.80.042E	Include Percentage cost Sum in Item01-80-042d	%	150,000.00		
Sub Total Carried to Summary of Bills						

Bill. 5 Earthworks

4	04.60.001	Clear site on road reserve including removal of all growths bushes hedges trees stumps grub up root and other deleterious materials and back fill and compact to 100% MDD with approved materials as directed by the engineer	Ha	0.10		
4	04.90.002	Allow a prime cost sum for removal and reinstatement of services	PC SUM	200,000.00	1.00	200,000.00
4	04.90.002a	Extra over item 01-80-012 for profits and overheads	%	200,000.00		
Sub Total Carried to Summary of Bills						

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Bill. 5 Earthworks						
5	05.50.008	Cut to spoil in Soft	M ³	1,620.00		
5	05.50.016	Scarify water and compact existing ground to at least 95%MDD (AASHTO T99) to a depth of 150mm below ground level.	M ³	405.00		
5	05.60.017	Selected materials for improved sub grade of minimum soils class S3 (CBR 10): dump, spread, water, mix and compact to 100% (MDD AASHTO T.99) as per specification	M ³	720.00		
Sub Total Carried to Summary of Bills						

Bill. 7 Excavation for Structures						
7	07.50.001	Excavate for structure in soft material	M ³	132.00		
7	07.70.001	Provide material lay and joint in cement mortar (1:3) dressed natural stone as lining to drain including concrete haunching (1:3:6) at the edge, and pointing to joints.	M ²	660.00		
Sub Total Carried to Summary of Bills						

Bill. 8 Culvert and Drainage Works						
8	08.60.025	Culvert Installation 600 mm with surround	METERS	50.00		
8	08.60.032	Provide and place class 15/20 concrete to beds	M ³	22.00		
8	08.60.034	Provide, place and compact class 25/20 concrete to headwalls, wingwalls, aprons, and toe walls to pipe culverts.	M ³	15.00		
8	08.60.035	Provide, place A142 fabric mesh reinforcement for item 08-60-019a	M ²	10.00		
Sub Total Carried to Summary of Bills						

Bill. 12 Subbase and Base Materials						
12	12.50.001	Provide, place and compact natural or improved gravel to meet subbase quality compacted at 95% MDD (ASHTO T180) at the road carriageway, parking bays and bus bays and extended to road shoulders	M ³	315		
12	12.50.003	Provide, place and compact natural or improved gravel to meet base quality compacted at 95% MDD (ASHTO T180) at the road carriageway, parking bays and bus bays and extended to road shoulders	M ³	315		
Sub Total Carried to Summary of Bills						

Bill. 14: Cement and Lime treated Subgrade, Subbase and Base						
14	14-50-001	Provide transport, spread cement stabilizer on natural material	Ton	16		
14	14-50-002	Provide transport, spread, mix and cure lime on natural material	Ton	6		
14	14-50-007	Mixing in cement/ lime stabilizer into gravel	M ³	630		
14	14-50-008	Allow for the protection and curing of the treated material as specified	M ³	2250		
Bill No. 14 Total carried forward to Grand Summary						

Bill. 15. Bituminous Surface Treatment						
15	15.50.002	Provide and Spray MC 30 cut-back bitumen as prime coat to carriageway, shoulders, bus bays and junctions at rate 0.8-1.2 lts/m ² as prime coat	L	2,000.00		
15	15.50.003	Provide and spray K-160 as tack coat at a rate of 0.8-1.0 L/sq metre as directed by the Engineer	L	2,000.00		
Sub Total Carried to Summary of Bills						

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Bill. 16. Bituminous Mixes						
16	16.60.001	Provide, lay and compact 35mm AC Type I as overlay layer for the whole section as a wearing course	M ³	100.00		
Sub Total Carried to Summary of Bills						

Bill. 20. Road Furniture						
20	20.50.012	Excavate for, provide & place 250 x 125mm precast concrete raised or ramped kerbs haunched in 100mm thick class 15/20 concrete base bedding and mortar joined in support to carriageway, bus bays and junctions as directed by the Engineer				
		a) Straight kerbs	m	300.00		
		b) Kerbs radius 12m - 6m	m	5.00		
		c) Ditto but radius 5m - 1m	m	5.00		
20	20.50.011	As 20.02 but for flush kerbs 100 x 125mm	m	300.00		
20	20.70.005	Provide and erect permanent road signs where instructed by the Resident Engineer and in accordance with Special Specifications Clause 2004 as follows				
		a) Warning signs	No.	2.00		
		b) Priority prohibitory and mandatory signs	No.	1.00		
		c) Standard informatory signs	No.	1.00		
20	20.70.010	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	60.00		
20	20.70.011	As Item 20.05 but for yellow reflectionized thermoplastic paint	m ²	30.00		
Sub Total Carried to Summary of Bills						

Bill. 25. Cross Cutting Issues						
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25	25.50.029a	Provide and erect and maintain publicity sign at the beginning and end of each road as directed by the Engineer	No	1.00		
Sub Total Carried to Summary of Bills						
SUMMARY PAGE						
BILL ITEM		DESCRIPTION			AMOUNT(KShs)	
1		Preliminaries and General Items				
4		Site Clearance				
5		Earth Works				
7		Excavation and Filling of Structures				
8		Culverts and Drainage Works				
12		Natural Gravel Base and Subbase				
14		Cement and Lime Treated subgrade, subbase and Base				
15		Bituminous Surface Treatment and Surface Dressing				
16		Bituminous Mixes				
20		Road Furniture				
25		Cross cutting Issues				
		SUB-TOTAL				
		Add 16% VAT of sub-total				
Grand Total carried Forward to Summary						

contract Name		PROPOSED IMPROVEMENT OF KERICHO TOWN ROADS PACKAGE 2					
BILL OF QUANTITIES							2023-2024
			Road Code				
			Section Name	County Comm Residence Access and Parking			
Bill No.	ITEM CODE	DESCRIPTION	UNIT	Quantity	Unit Bid RATE (KShs)	Amount (KSHs)	
Bill. 1 Preliminaries and General							
1	01.80.010	Allow a prime cost of sum for material testing as directed by the Engineer	PC SUM	150,000.00	1.00	150,000.00	
1	01.80.011	Extra over item 01-80-010 for contractor’s overheads and profits	%	150,000.00			
1	01.80.030	Allow a prime cost for attendance to the RE,s supervisory staff including overtime	PC SUM	315,000.00	1.00	315,000.00	
1	01.80.031	Include percentage of PC sum in item 01-80-030 for contractors overhead and profit	%	315,000.00			
1	01.80.042D	Allow for prime cost sum for survey works	PC SUM	150,000.00	1.00	150,000.00	
1	01.80.042E	Include Percentage cost Sum in Item01-80-042d	%	150,000.00			
Sub Total Carried to Summary of Bills							

Bill. 5 Earthworks						
5	05.50.008	Cut to spoil in Soft	M ³	60.00		
5	05.50.006	Fill in soft materials including benching of embankments and compact to at least 95% MDD (AASHTO T99) in layer not exceeding 150mm	M3	60.00		
5	05.50.016	Scarify water and compact existing ground to at least 95%MDD (AASHTO T99) to a depth of 150mm below ground level.	M ³	120.00		

5	05.60.017	Selected materials for improved sub grade of minimum soils class S3 (CBR 10): dump, spread, water, mix and compact to 100% (MDD AASHTO T.99) as per specification	M ³	60.00		
Sub Total Carried to Summary of Bills						

Bill. 8 Culvert and Drainage Works						
7	07.50.001	Excavate for structure in soft material	M ³	36.00		
7	07.70.001	Provide material lay and joint in cement mortar (1:3) Invert Block drain inclusive of one side slab on both sides as directed by the engineer	M	200.00		
Sub Total Carried to Summary of Bills						

Bill. 8 Culvert and Drainage Works						
8	08.60.003	Culvert Cleaning- Partially blocked - 600mm	M	10		
8	08.60.025	Culvert Installation 600 mm with surround	METERS	5.00		
8	08.60.032	Provide and place class 15/20 concrete to beds	M ³	1.00		
8	08.60.034	Provide, place and compact class 25/20 concrete to headwalls, wingwalls, aprons, and toe walls to pipe culverts.	M ³	3.00		
8	08.60.035	Provide, place A142 fabric mesh reinforcement for item 08-60-019a	M ²	5.00		
Sub Total Carried to Summary of Bills						

Bill. 12 Subbase and Base Materials						
12	12.50.001	Provide, lay and compact Hand packed stone material including fillings voids with stone dust as directed by the Engineer.	M ³	40.00		
12	12.50.003	Provide, place, spread and compact natural gravel for subbase	M ³	105.00		
Sub Total Carried to Summary of Bills						

Bill. 15. Bituminous Surface Treatment						
15	15.50.002	Provide and Spray MC 30 cut-back bitumen as prime coat to carriageway, shoulders, bus bays and junctions at rate 0.8-1.2 lts/m2 as prime coat	L	400.00		
15	15.50.003	Provide and spray K-160 as tack coat at a rate of 0.8-1.0 L/sq metre as directed by the Engineer	L	800.00		
Sub Total Carried to Summary of Bills						

Bill. 16. Bituminous Mixes						
16	16.50.001	Pothole patching	m3	20		
16	16.60.001	Provide, lay and compact 35mm AC Type I as overlay layer for the whole section as a wearing course	M ³	55.00		
16	16.50.001a	Clearing and cutting of potholes and failed areas	M ³	15.00		
Sub Total Carried to Summary of Bills						

Bill. 20. Road Furniture						
20		Excavate for, provide & place 250 x 125mm precast concrete raised or ramped kerbs haunched in 100mm thick class 15/20 concrete base bedding and mortar joined in support to carriageway, bus bays and junctions as directed by the Engineer				
	20.50.012	a) Straight kerbs	m	800.00		
20	20.70.010	Provide, deliver, paint and mark the road as specified or as directed by the Engineer, with white reflectionized thermoplastic paint from an approved supplier	m2	60.00		
20	20.70.011	As Item 20.05 but for yellow reflectionized thermoplastic paint	m2	30.00		
Sub Total Carried to Summary of Bills						
Bill. 23. Paving Works						
23	23-50-001	Provide and place 30mm quarry dust and compact to refusal densities as directed by the engineer	m2	45		
23	23.50.002	Provide and place heavy duty paving block- 80mm thick to driveways and parking	m2	1,500		
23	23.50.003	Provide and place medium duty paving block- 60mm thick to driveways and parking	m2	130		
23	23.50.004	Provide, lay and joint paving slabs 600x600x50	m2	450		
Sub Total Carried to Summary of Bills						

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SUMMARY PAGE		
BILL ITEM	DESCRIPTION	AMOUNT(KShs)
1	Preliminaries and General Items	
5	Earth Works	
7	Excavation and Filling of Structures	
8	Culverts and Drainage Works	
12	Natural Gravel Base and Subbase	
15	Bituminous Surface Treatment and Surface Dressing	
16	Bituminous Mixes	
20	Road Furniture	
23	Paving Works	
	SUB-TOTAL	
	Add 16% VAT of sub-total	
Grand Total carried Forward to Summary		

contract Name		PROPOSED IMPROVEMENT OF KERICHO TOWN ROADS PACKAGE 2				
BILL OF QUANTITIES						2023-2024
			Road Code			
			Section Name	KIE-Isaac Salat Link Road		
Bill No.	ITEM CODE	DESCRIPTION	UNIT	Quantity	Unit Bid RATE (KShs)	Amount (KSHs)
Bill. 1 Preliminaries and General						
1	01.80.010	Allow a prime cost of sum for material testing as directed by the Engineer	PC SUM	50,000.00	1.00	50,000.00
1	01.80.011	Extra over item 01-80-010 for contractor’s overheads and profits	%	50,000.00		
1	01.80.030	Allow a prime cost for attendance to the RE,s supervisory staff including overtime	PC SUM	450,000.00	1.00	450,000.00
1	01.80.031	Include percentage of PC sum in item 01-80-030 for contractors overhead and profit	%	450,000.00		
1	01.80.042D	Allow for prime cost sum for survey works	PC SUM	150,000.00	1.00	150,000.00
1	01.80.042E	Include Percentage cost Sum in Item01-80-042d	%	150,000.00		
Sub Total Carried to Summary of Bills						

Bill. 4 Site Clearance						
4	04.60.001	Excavate, remove and disposal of concrete structures	M ³	100.00		
4	04.90.002	Allow a prime cost sum for removal and reinstatement of services	PC SUM	200,000.00	1.00	200,000.00
4	04.90.002a	Extra over item 01-80-012 for profits and overheads	%	200,000.00		
4	04.60.005a	Demolish and dispose pipe culverts inlet and outlet structures as directed by the engineer	M	100.00		
Sub Total Carried to Summary of Bills						

Bill. 5 Earthworks						
5	05.50.008	Cut to spoil in Soft	M ³	5,000.00		
5	05.50.016	Scarify water and compact existing ground to at least 95%MDD(AASHTO T99) to a depth of 150mm below ground level.	M ³	1,500.00		
5	05.60.017	Selected materials for improved sub grade of minimum soils class S3 (CBR 10): dump, spread, water, mix and compact to 100% (MDD AASHTO T.99) as per specification	M ³	2,700.00		
Sub Total Carried to Summary of Bills						

Bill. 7 Excavation for Structures						
7	07.50.001	Excavate for structure in soft material	M ³	880.00		
7	07.70.001	Provide material lay and joint in cement mortar(1:3)dressed natural stone as lining to drain including concrete haunching (1:3:6) at the edge, and pointing to joints.	M ²	4,400.00		
Sub Total Carried to Summary of Bills						

Bill. 8 Culvert and Drainage Works						
8	08.60.025	Culvert Installation 600 mm with surround	METERS	120.00		
8	08.60.032	Provide and place class 15/20 concrete to beds and shoulders	M ³	60.00		
8	08.60.034	Provide, place and compact class 25/20 concrete to headwalls, wingwalls, aprons, and toe walls to pipe culverts.	M ³	25.00		
8	08.60.035	Provide, place A142 fabric mesh reinforcement for item 08-60-019a	M ²	15.00		
Sub Total Carried to Summary of Bills						

Bill. 12 Subbase and Base Materials						
12	12.50.001	Provide, place and compact natural or improved gravel to meet subbase quality compacted at 95% MDD (ASHTO T180) at the road carriageway, parking bays and bus bays and extended to road shoulders	M ³	1,725		
12	12.50.003	Provide, place and compact natural or improved gravel to meet base quality compacted at 95% MDD (ASHTO T180) at the road carriageway, parking bays and bus bays and extended to road shoulders	M ³	975		
Sub Total Carried to Summary of Bills						

Bill. 14: Cement and Lime treated Subgrade, Subbase and Base						
14	14-50-001	Provide transport, spread cement stabilizer on natural material	Ton	53		
14	14-50-002	Provide transport, spread, mix and cure lime on natural material	Ton	23		
14	14-50-007	Mixing in cement/ lime stabilizer into gravel	M ³	2,100		
14	14-50-008	Allow for the protection and curing of the treated material as specified	M ³	6,500		
Bill No. 14 Total carried forward to Grand Summary						

Bill. 15. Bituminous Surface Treatment						
15	15.50.002	Provide and Spray MC 30 cut-back bitumen as prime coat to carriageway, shoulders, busbays and junctions at rate 0.8-1.2 lts/m2 as prime coat	L	8,500.00		
15	15.50.003	Provide and spray K-160 as tack coat at a rate of 0.8-1.0 L/sq metre as directed by the Engineer	L	8,500.00		
Sub Total Carried to Summary of Bills						

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Bill. 16. Bituminous Mixes						
16	16.60.001	Provide, lay and compact 50mm AC Type I as overlay layer for the whole section as a wearing course	M ³	405.00		
Sub Total Carried to Summary of Bills						

Bill. 20. Road Furniture						
20.02	20.50.012	Excavate for, provide & place 250 x 125mm precast concrete raised or ramped kerbs haunched in 100mm thick class 15/20 concrete base bedding and mortar joined in support to carriageway, bus bays and junctions as directed by the Engineer				
		a) Straight kerbs	m	2,000.00		
		b) Kerbs radius 12m - 6m	m	10.00		
		c) Ditto but radius 5m - 1m	m	5.00		
20.03	20.50.011	As 20.02 but for flush kerbs 100 x125mm	m	2,000.00		
20.04	20.70.005	Provide and erect permanent road signs where instructed by the Resident Engineer and in accordance with Special Specifications Clause 2004 as follows				
		a) Warning signs	No.	2.00		
		b) Priority prohibitory and mandatory signs	No.	1.00		
		c) Standard informatory signs	No.	1.00		
20.05	20.70.010	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	200.00		

20.06	20.70.011	As Item 20.05 but for yellow reflectionized thermoplastic paint	m2	100.00		
Sub Total Carried to Summary of Bills						

Bill. 25. Cross Cutting Issues						
25.05		Provide and erect and maintain publicity sign at the beginning and end of each road as directed by the Engineer	No	1.00		
Sub Total Carried to Summary of Bills						

SUMMARY PAGE		
BILL ITEM	DESCRIPTION	AMOUNT(KShs)
1	Preliminaries and General Items	
4	Site Clearance	
5	Earth Works	
7	Excavation and Filling of Structures	
8	Culverts and Drainage Works	
12	Natural Gravel Base and Subbase	
14	Cement Treated Subgrade, Subbase and Base	
15	Bituminous Surface Treatment and Surface Dressing	
16	Bituminous Mixes	
20	Road Furniture	
25	Cross cutting Issues	
	SUB-TOTAL	
	Add 16% VAT of sub-total	
Grand Total carried Forward to Summary		