



KENYA URBAN ROADS AUTHORITY

Efficient and safe urban roads

Barabara Plaza, Mazao Road - Off South Airport Road, JKIA

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P.O. Box 41727-00100, GPO, NAIROBI

Ref No. KURA/EO/SCM/3/Vol.1 (69)

Date: 19th February, 2020

ALL BIDDERS

RE: REHABILITATION OF KASARANI-MWIKI ROAD

TENDER No.: KURA/DEV/HQ/225/2019-2020
ADDENDUM 1

Reference is made to the above subject matter;

This is to notify all bidders that an addendum has been issued for the tender below:

S/NO	TENDER NO	TENDER NAME	AMENDMENT
1	KURA/DEV/HQ/225/2019-2020	Rehabilitation of Kasarani-Mwiki Road	➤ Change of part of the bill of quantities

You are hereby informed to ignore the Bill of Quantities attached earlier to the bid document including its appendices and insert the attached Bill of Quantities (addendum1) as replacement of the same.

Please note that, the Tender Opening/Closing still remains the same date of 27th February, 2020 at 10.00 am.

Saadia Haji Adankhalif
FOR: DIRECTOR GENERAL

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	BILL ONE: PRELIMINARIES & GENERALS.				
1.01	Furnish, equip and maintain Resident Engineer's office including furniture during the contract period as per Clause 132.7 of the special specifications	PC SUM	1.00	3,500,000.00	3,500,000.00
1.02	Include percentage of P.C Sum in item 1.01 for Contractor's overhead and profit	%		3,500,000.00	
1.03	Allow a provisional sum for the Resident Engineer survey equipment for the duration of the contract as listed in the Special Specifications.	PC SUM	1.00	1,500,000.00	1,500,000.00
1.04	Include percentage of P.C Sum in item 1.03 for Contractor's overhead and profit	%		1,500,000.00	
1.05	Allow a provisional Sum for material testing services and other Laboratory Services.	PC SUM	1.00	2,000,000.00	2,000,000.00
1.06	Include percentage of P.C Sum in item 1.05 for Contractor's overhead and profit	%		2,000,000.00	
1.07	Allow a provisional sum for the Resident Engineer's Miscellaneous account to be spent in whole or part as directed by the Resident Engineer against receipts.	PC SUM	1.00	2,000,000.00	2,000,000.00
1.08	Include percentage of P.C Sum in item 1.07 for Contractor's overhead and profit	%		2,000,000.00	
1.09	Provide fuel and maintain with driver, 1No. (One) Type 1 (2.8 litre 4-Wheel Drive, fully loaded Double Cabin P/Up or similar approved, mobile telephone hands free headset and a two way radio) for exclusive use by the Resident Engineer inclusive of the first 4000 Km per vehicle month to revert to the Contractor after the project. The vehicles are subject to approval by the Engineer.	V. mth	18.00		

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
1.10	EO Item 1.09 for kilometers travelled in any month in excess of 4,000km for all running costs	km	22,500.00		
1.11	Provide fuel and maintain with driver, 1No. (One) Type 1 (2.8 litre 4-Wheel Drive, Station Wagon or similar approved, mobile telephone hands free headset and a two way radio) for exclusive use by the Resident Engineer inclusive of the first 4000 Km per vehicle month to revert to the Contractor after the project. The vehicles are subject to approval by the Engineer.	V. mth	18.00		
1.12	EO Item 1.11 for kilometers travelled in any month in excess of 4,000km for all running costs	km	22,500.00		
1.13	Provide and erect and maintain publicity signs at the beginning and end of each road as directed by the Engineer.	No.	4.00		
1.14	Provision and operation of the Environmental and social safeguards including all measures required by Clause 143 including payment of all relevant fees to regulatory Agencies	PC SUM	1.00	500,000.00	500,000.00
1.15	Include percentage of P.C Sum in item 1.14 for Contractor's overhead and profit	%		500,000.00	
1.16	Allow a Prime cost Sum for attendance of the Engineer's staff in accordance with clause 137 of special specifications.	PC SUM	1.00	4,000,000.00	4,000,000.00
1.17	Include percentage of P.C Sum in item 1.16 for Contractor's overhead and profit	%		4,000,000.00	
1.18	Allow a Prime Cost sum of Kshs. 4,000,000.00 for payment of wages and allowances for Engineer's staff including overtime.	Prime Cost	1.00	4,000,000.00	4,000,000.00
1.19	Extra Over on Item 1.18 for the Contractors Overheads and Profit.	%		4,000,000.00	

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
1.20	Allow for prime cost sum for purchase of mobile phones including airtime.	PC SUM	1.00	700,000.00	700,000.00
1.21	Extra Over on Item 1.20 for the Contractor's Overheads and Profit.	%		700,000.00	
1.22	Allow PC Sum for pre-construction pavement evaluation	PC Sum	1.00	1,500,000.00	1,500,000.00
1.23	Extra Over on Item 1.22 for the Contractor's Overheads and Profit.	%		1,500,000.00	
Total of Bill Carried Forward to Summary Page					
BILL 4: SITE CLEARANCE AND TOPSOIL STRIPPING					
BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
4.01	Clear site on road reserve including garbage, removal of trees, hedges, bushes, vegetation and other deleterious materials grub up roots and backfill to 100% MDD(AASHTO T99) with approved material in accordance with the specifications, and as directed by the Engineer.	m ²	21,600.00		
4.02	Remove up to 0.2m top soil including removal of all grass, transport to spoil and spread or stockpile for re-use as directed by the Engineer	m ³	1,920.00		
4.03	Excavate, remove and dispose cracked pipe culverts of any size.	m	200.00		
4.04	Demolish reinforced or mass concrete structures and cart to spoil or stockpile for re-use as directed by the Engineer.	m ³	300.00		
4.05	Provide a provisional sum of Kshs 7,500,000 for relocation of services.	Prov. Sum	1.00	7,500,000.00	7,500,000.00
4.06	Extra Over on Item 4.05 for the Contractor's Overheads and Profit.	%		7,500,000.00	
Total of Bill Carried Forward to Summary Page					

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
BILL 5: EARTH WORKS					
BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	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				
5.01	Cut to spoil in soft material	m ³	5,760.00		
5.02	Cut to spoil in hard material	m ³	500.00		
5.03	Cut to fill and compact to a density of 100% MDD (AASHTO T.99) in soft material.	m ³	1,000.00		
5.04	Provide and fill in soft material using approved materials.	m ³	5,280.00		
5.05	Provide rock fill as directed by the Engineer	m ³	4,372.00		
5.06	Scarify and compact top 150mm layer of existing ground below fills and cuts to 95% MDD (ASSHTO T99)	m ³	2,304.00		
Total of Bill Carried Forward to Summary Page					
BILL No 7 EXCAVATION AND FILLING FOR STRUCTURES					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
7.01	Excavate to spoil in soft material	m ³	30.00		
7.02	As in 7.01 but in hard material	m ³	10.00		
7.03	Provide, place and compact rock fill below structures	m ³	20.00		
7.04	Provide and place 150mm thick stone pitching as directed by the Engineer	m ²	1,000.00		
7.05	E.O item for cement grouting	m ²	300.00		
7.06	Provide and place gabion boxes and mattresses where directed by the Engineer	m ²	550.00		
7.07	Rock fill to gabions	m ³	100.00		
7.08	Filter fabric behind gabion boxes	m ²	200.00		
TOTAL BILL NO. 7 TO SUMMARY PAGE					
BILL 8: CULVERTS AND DRAINAGE WORKS					
BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	No separate payment shall be made for gravel for blinding and hauling to spoil unsuitable excavation materials and the cost of such shall be included in the rates and /or prices.				
8.01	Excavate/desilt, grade to shape inlets outfalls, side drains to free flow conditions including cart to spoil any excess grass debris and soils as and where directed by the Engineer.	m ³	13,500.00		
8.02	Clean drains to free flow conditions	m	5,000.00		
8.03	Clean culverts of all sizes to free flow conditions	m	500.00		
8.04	Excavation for culvert inlet and outlet, outfall, mitre and catch water drains in soft material including removal of all material to spoil, to any depth	m ³	2,250.00		
8.05	Excavate in soft materials for pipe culverts headwalls, wing walls, apron, toe walls and drop inlets.	m ³	500.00		
8.06	Provide, lay and joint 450 mm inner diameter (ID) precast concrete pipes.	m	150.00		
8.07	As in item 8.06 but 600 mm ID.	m	250.00		
8.08	As in item 8.06 but 900 mm ID.	m	50.00		
8.09	As in item 8.06 but 1200 mm ID.	m	30.00		
8.10	Provide place and compact class 15/20 concrete to beds, surrounds and haunches.	m ³	240.00		
8.11	Provide place and compact class 25/20 concrete to headwalls, wing walls, aprons and toe walls to pipe culverts; and slabs on drains, including form work.	m ³	293.04		
8.12	Provide and place A142 fabric mesh reinforcement for item 8.11.	m ²	1,000.00		

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
8.13	Excavate in any material provide and joint 600x360 mm invert block drains (IBD) precast concrete channels with single side precast side slabs of 600x225x75mm as lining for storm water drain including bedding and backfilling with selected material as directed by the Engineer.	m	3,000.00		
8.14	Provide and place aggregates around the sub-soil drain as instructed by the Engineer and shown in the drawings	m ³	100.00		
8.15	Provide, lay and joint 150mm inner diameter(ID) PVC perforated pipe to form sub-soil drains	m	100.00		
8.16	Provide and place geotextile fabric mesh (As Terram 280g/m ² or other approved) including aggregates as instructed by the Engineer	m ²	600.00		
8.17	Extra over item 8.13 for precast side slabs of 600x225x75mm.	m ²	1,300.00		
8.18	Provide place and compact class 15/20 concrete to haunches on margin between shoulders and IBDs.	m ³	250.00		

Total of Bill Carried Forward to Summary Page

BILL9: PASSAGE OF TRAFFIC

BILL	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9.01	Place warning signs, barriers and cones around working lane on the carriageway and guide the passage of traffic through the works	km	3.60		
9.02	Allow for the provision, processing and compaction of gravel of subbase quality of existing roads to be used as deviations for traffic as directed by the Engineer	m ³	1,000.00		

Total of Bill Carried Forward to Summary Page

BILL 12: NATURAL MATERIAL BASE AND SUBBASE

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	Note: All haulage is to be included in the Contractor's rates and prices. There is no separate payment for overhaul				
12.0 1	Excavate existing bituminous surfacing or pavement material to spoil or stockpile for reuse as directed by the Engineer.	m ³	3,300.00		
12.0 2	Provide, place and compact approved gravel material in layers of 150mm to form subbase layer for carriageway and accesses	m ³	4,050.00		
12.0 3	Provide, lay, and compact hand packed stone material including filling of voids with stone dust and watering as directed by the Engineer.	m ³	2,700.00		
12.0 4	Break or scarify mechanically the existing pavement layer, and compact.	m ³	2,640.00		

Total of Bill Carried Forward to Summary Page

BILL № 13: Graded Crushed Stone Sub-base and Base

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)
13.0 1	Provide, mixing, spreading and compacting Graded Crushed Stone (GCS) for Subbase in the main carriageway, service roads, slip roads, junctions, accesses, bus bays and shoulders with all leads and lifts complete shown in the Book of Drawings complete with approved specifications or as instructed by the Engineer.	m ³	1,800.00		

Bill No. 13 Total Carried Forward to Grand Summary Page

BILL 14: CEMENT AND LIME TREATED MATERIAL

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
14.0 1	Provide, transport to site and spread cement on natural gravel or GCS material for base or subbase as specified and as directed by the Engineer at 30-	Tonne s	85.50		

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	90 kg/m ³ .				
14.0 2	Allow for mixing in cement and /or lime into natural gravel or GCS.	m ³	1,800.00		
14.0 3	Allow for curing and protection of treated layers as specified.	m ²	14,400.00		

Total of Bill. 14 Carried Forward to Summary Page

BILL 15: BITUMINOUS SURF. TREAT.& S DRESSING

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
15.0 1	Prepare surface of carriageway and repair areas, provide and spray MC-30/MC-70 cutback bitumen at a rate of 0.8-1.2 lt/m ² as prime coat.	litres	32,400.00		
15.0 2	Prepare surface of repair areas provide and spray K1-60 bitumen emulsion as tack coat or seal to repair areas at a spray rate of 0.8 - 1.0 L/m ² as directed by the Engineer.	litres	64,800.00		

Total of Bill Carried Forward to Summary Page

BILL 16: BITUMINOUS MIXES

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
16.0 1	Excavate, trim and clean potholes, failed and damaged areas of the carriageway and edges including cart to spoil the excavated materials.	m ³	200.00		
16.0 2	Provide, place and compact 50mm thick asphalt concrete Type 1 (0/20mm) with 5 - 6 % nominal bitumen content by weight to total mix as wearing course on carriageway and walkway respectively as directed by the Engineer.	m ³	1,405.00		
16.0 3	Provide, place and compact DBM (0/30mm) to accesses and for regulation to carriageway and pothole patching as directed by the Engineer. The	m ³	250.00		

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	rate to include the application of KI-60 at a rate of 0.8-1.0 l/m ²				
16.04	Prepare surface of underlying material, provide, lay and compact DBM (0/30mm) as base layer in compacted thickness as specified using 4.5 % nominal bitumen content by weight of total mix.	m ³	1,687.50		
Total of Bill Carried Forward to Summary Page					
BILL 20: ROAD FURNITURE					
BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
20.01	Provide thermoplastic material for road marking and mark lines on the road as directed by the Engineer	m ²	1,080.00		
20.02	Excavate for, provide and place 250 x 125 mm class 25/20 precast concrete raised or ramped Kerbs hunched in 100 mm thick class 15/20 concrete base bedding and mortar joined in support to bus bays and junctions as directed by the Engineer.				
	(a) Straight Kerbs.	m	1,200.00		
	(b) Kerbs radius: 12 m-6 m.	m	50.00		
	(c) Ditto but radius: 5 m-1 m.	m	50.00		
20.03	Ditto 20.02 but 100 x 125 mm flush Kerbs in support of carriageway				
	(a) Straight Kerbs.	m	2,400.00		
	(b) Kerbs radius: 12 m-6 m.	m	50.00		
	(c) Ditto but radius: 5 m-1 m.	m	50.00		
20.04	Provide and erect permanent road signs where instructed by the Engineer and in accordance with the				

BILL	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	specifications as follows:-				
	(a) Warning signs.	No	10.00		
	(b) Priority, prohibitory and mandatory signs.	No	10.00		
	(c) Standard informatory signs.	No	10.00		
	(d) Non- standard informatory signs of area.		10.00		
	(i) Less than 1.0 m ² .	No	10.00		
20.05	Provide and place new flex-beam guardrails complete with pre-cast concrete flex-beam guardrail posts, spacers, nut, bolts and fittings as directed by Engineer.	m	250.00		
Total of Bill Carried Forward to Summary Page					

SUMMARY OF BILLS OF QUANTITIES		
Bill	DESCRIPTION	AMOUNT
No.		SHS.
1	GENERAL	
4	SITE CLEARANCE AND TOPSOIL STRIPPING	
5	EARTHWORKS	
7	EXCAVATION AND FILLING FOR STRUCTURES	
8	CULVERTS AND DRAINAGE WORKS	
9	PASSAGE OF TRAFFIC	
12	NATURAL MATERIAL SUBBBASE AND BASE	
13	GRADED CRUSHED STONE SUB-BASE AND BASE	
14	CEMENT AND LIME TREATED MATERIAL	
15	BITUMINOUS SURF. TREAT.& S DRESSING	
16	BITUMINOUS MIXES	
20	ROAD FURNITURE	
	Sub-total 1	
	Add 2.5% of Sub-total 1 for Contingencies to be expended in whole or in part or deleted as directed by the Engineer.	
	Add 2.5% of Sub-total 1 for Variation of Prices in accordance with Clause 70 of the Conditions of Contract.	
	Sub-total 2	
	Add 16% of Sub-total 2 for Value Added Tax (VAT)	
	TOTAL CARRIED FORWARD TO FORM OF BID	