



KENYA RURAL ROADS AUTHORITY

TENDER NOTICE

ADDENDUM NO. 2

UPGRADING TO BITUMEN STANDARDS, SPOT IMPROVEMENT AND ROUTINE MAINTENANCE (BATCH 1) OF VARIOUS ROADS

Reference is made to the Tender Notice that appeared in the Authority's website and the MyGov pullout on The Star Newspaper dated 28th January 2025, the Long Advert dated 13th February, 2025 and Addendum No. 1 dated 25th February, 2025.

Interested Bidders are requested to note the following amendments for the Tenders published under the above referenced Tender Notice;

- 1. That the following details below under the tender for Upgrading to Bitumen Standard of Kiritiri Kiambere Road, Tender No. KeRRA/08/39/134/2024-25 have been amended;
 - a. The details under Location of the Project Section 101 Special Specifications be amended to read as "The project road is located in Embu County and is approximately 30.0 Km long. The existing alignment comprises a gravel/earth Road".
 - b. The Time for Completion under Clause 1.1.4 (Construction Part A) of Section IX Special Conditions of Contract be amended to read as "A. Construction: Thirty (30) Months".
 - c. Bill No. 1 General: Office administration and overheads/ Preliminaries has been amended and is herewith attached as *Annex I*.
- That the Summary of Bill of Quantity's to the BoQs for the Tender for Improvement of Salmond Hotel
 Sikata Junction Road, Tender No. KeRRA/08/39/133/2024-25 has been amended and is hereby attached as *Annex II*.
- 3. That the following details below under the tender for Upgrading to Bitumen Standard of Njeri Oriwo Boarder Pala Road, **Tender No.** KeRRA/08/39/125/2024-25 have been amended
 - a. The details under Location of the Project Section 101 Special Specifications be amended to read as "The project roads measure a total length of approximately 10.0Km and are located in Homabay County. The roads traverse Karachuonyo Constituency".

b. Bill Item No. 1 and Appendix 1.04 & 1.05 have been amended and are herewith attached as *Annex III*.

- 4. That the Bill Items No. 4 and 10 for the Tender for Spot Improvement Bukaya/ Buhuru Elukongo Bungasi Ugana/ Matawa Lusumu Buchifi Imanga (Kakamega County) Road, Tender No. KeRRA/08/39/ 117/2024-2025 have been amended and are herewith attached as *Annex IV*.
- 5. That the Summary of Bill of Quantity's to the BoQs for the Tender for Spot Improvement Works of Technology Primary- Court Yard, Tender No. KeRRA/08/39/78/2024-25 has been amended and is hereby attached as *Annex V*.
- 6. That the Summary of Bill of Quantity's to the BoQs for the Tender for Upgrading to Bitumen Standards of Kiawamururu Kaheti Road (Nyeri County). Tender No. KeRRA/08/39/100/2024-25 has been amended and is hereby attached as *Annex VI*.
- 7. That ITT 16.5 for all Tenders under Lot 1 & Lot 2A that have provisions for under the BoQ is hereby amended to read as follows, "The prices quoted by the Tenderer shall be subject to adjustment".
- 8. That Table A: Approximate Weightings for Price Adjustment is APPLICABLE for all LOT 1 & Lot 2A tenders as given in the respective tender documents.
- 9. Amend the Tender Security Amount under ITT 21.1 (Data Sheet) for the tender for Upgrading to Bitumen Standard of Mawatha Mbomboini Gatune Jnct Ngong Suswa/ Rumwe Sky Line, Tender No. RWC/679 to read as KShs. Three Million (3Million).
- 10. Clarifications and amendments as to the tender for Upgrading to Bitumen Standard of Chobe Kambi George –Weru Matundura & Muti Ini-Thindi (Phase 2) Road, Tender No. RWC/663 are as follows;

S/N	CLARIFICATION SOUGHT	RESPONSE
1	Subbase layer thickness:	Both the BoQ and Special Specifications
	whereas the special specifications requires a subbase	provides for subbase thickness of 175mm.
	thickness of 175mm, the BoQ indicates and provides for a	Kindly confirm from the Tender Document in
	subbase thickness of 150mm. Kindly clarify	the KeRRA Website
2	Base layer thickness:	Both the Boq and Special Specifications
	whereas the special specifications requires a subbase	provides for base thickness of 150mm. Kindly
	thickness of 150mm, the BoQ indicates and provides for a	confirm from the Tender Document in the
	subbase thickness of 125mm. Kindly clarify	KeRRA Website
3	Maintenance of works:	The performance based routine maintenance
	Whereas the special specifications provide for the	is "Not Applicable", as captured
	maintenance of the works for 36 months after defects	
	liability period, in the scope of works notes, Clause 1.1.4 of	
	the special conditions of the Contract captures the	
	performance based routine maintenance as "Not	
	Applicable". Kindly clarify	

S/N	CLARIFICATION SOUGHT	RESPONSE
4	Clause 107 of the Special specifications provides that the	Clause 107 of the Special Specifications to
	Taking over certificate shall be issued upon the completion	remain unchanged"Taking over certificate
	of the whole part of the works. Earlier requirements in	shall be issued upon the completion of the
	similar projects have been amended to provide for sectional	whole part of the works".
	taking over for any road links or a combination of links that	
	are above 10km in length. Kindly clarify.	
5	Clause 1.07 of the BoQ on the provision of fully loaded	Amend to read as follows:
	double cabin pickups states "Ditto item 1.05, but one(2)	Clause 1.07 of the BoQ on the provision of
	new fully loaded double cabin pick-ups" kindly clarify	fully loaded double cabin pick-ups states
		"Ditto item 1.05, but Two (2) new fully
		loaded double cabin pick-ups"
6	The book of drawings is not provided in the tender	The book of Drawings will be provided on
	documents. Kindly clarify	site by the Engineer prior to commencement
		of works
7	Kindly provide blank Pre-tender site Visit certificate	Blank Pretender site visit certificate attached
		as Annex VII herewith.
8	Kindly provide the form/format to be used to provide the	Qualification Forms, Form 1 Ft: Foreign
	information proof of eligible goods	Tenderers 40% Rule provided in the tender
		document can be used to provide information.
9	Kindly confirm the Tender security validity period	This is guided in detail under ITT 20.1 and
		ITT 21.
10	Bid Bond is indicated as Kshs. 3,000,000.00 pg 19 and	Amend the Tender Security Amount under
	Kshs. 6,000,000.00 on page 22. Kindly clarify	ITT 21.1 (Data Sheet) to read as KShs. Six
		Million (6Million).

- 11. The revised Appendix A of the Bills of Quantities for the tender for Upgrading to Bitumen Standard of Jn Kaplogoi Kimoning Kapteren Tambach Road, Tender No. RWC/670 is herewith attached as *Annex VIII*.
- 12. That the Tender Document for the tender for Rehabilitation of Eregi Chavakali, Tender No. KeRRA/08/39/191/2024-25 has been revised and has been uploaded on the KeRRA website as an updated version.
- 13. Pre-Tender Site visit dates and time were clearly given in the Long Advert with the project roads.
- 14. That the submission and opening date for Lot 1 and Lot 2A remains as **on or before 13th March, 2025 at 11.00am** as revised under Addendum No. 1 dated 25th February, 2025.
- 15. That the submission and opening date for Lot 2B remains as **to on or before 12th March, 2025 at 11.00am** as revised under Addendum No. 1 dated 25th February, 2025.
- 16. Completed tender documents under Lot 1 and Lot 2A should be enclosed in plain sealed envelopes, clearly marked with the Tender Name, Tender Number and deposited at KeRRA Head office in the

Tender Box located on the 3rd Floor, Barabara Plaza Block B, Mazao road, Opposite KCAA building

on or before the revised date indicated above.

17. Completed tender documents under Lot 2B should be enclosed in plain sealed envelopes, clearly marked

with the Tender Name, Tender Number and deposited in the Tender Boxes at the Offices of respective

Regional Directors on or before the revised date indicated above.

18. Interested bidders should note that the amendments detailed herewith take precedence.

19. All interested bidders are required to continuously check the Kenya Rural Roads Authority website:

www.kerra.go.ke for any tender addendums or clarifications that may arise before the submission date.

20. Interested Bidders with enquiries are encouraged to do so vide the email address

procurementhq@kerra.go.ke.

21. All other information as pertaining to the tenders remains the same.

Deputy Director (Supply Chain Management)

FOR: DIRECTOR GENERAL

ANNEX I - Upgrading to Bitumen Standard of Kiritiri – Kiambere Road, Tender No. KeRRA/08/39/134/2024-25

Bill No. 1:	PRELIMINARIES AND GENERAL ITEM	S			
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (KES)
1.01 (i)	Provide or rent accommodation for Engineer's senior and junior staff (i) Type I	month	30.00	65,000.00	1,950,000.00
1.01 (ii)	Provide or rent accommodation for Engineer's senior and junior staff (ii) Type II	month	90.00	55,000.00	4,950,000.00
1.01 (iii)	Provide or rent accommodation for Engineer's senior and junior staff (iii) Type III	month	150.00	40,000.00	6,000,000.00
1.01 (iv)	Provide or rent accommodation for Engineer's senior and junior staff (iv)Type IV	month	180.00	30,000.00	5,400,000.00
1.01 (v)	Provide or rent accommodation for Engineer's senior and junior staff (v)Type V	month	300.00	21,000.00	6,300,000.00
	Total	Total Item 1.01			24,600,000.00
1.02	E.O item 1.01 for contractor's overhead and profit	%	1.00		
1.03	Construct and maintain Engineer's Representative's office as shall be instructed by the Engineer for use during the duration of the Contract, ownership to revert to the Employer at the end of the Contract	PC Sum	20,000,000		
1.04	Provide or rent and maintain Engineer's Site Laboratory for the duration of the Contract. The Laboratory shall revert to the Employer at the end of the project.	LS	1.00		
1.05	Provide and maintain Laboratory equipment, reagents and other items as priced in Appendix 'A' to the Bill of Quantities for use by the Engineer's representative for the duration of the contract.	LS	1.00		
1.06 (A)	Provide and maintain furniture, tools and other items for the Engineers Representative office for the duration of the Contract as priced in Appendix `B'.	LS	1.00		
1.06 (B)	Provide and maintain survey equipment as priced in Appendix C for the duration of the contract.	LS	1.00		
1.07	Provide with drivers, fuel and maintain One (2) new 4WD fully loaded Station Wagon of minimum diesel engine capacity 2400 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	36.00		
1.08	E.O item 1.07 for total aggregated mileage in excess of 5000 km per vehicle month.	Km	3,000.00		

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (KES)
1.09	Provide with drivers, fuel and maintain Two (2) New 4WD fully loaded double cabin pick-up of minimum diesel engine capacity 2400 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	48.00		
1.10	E.O item 1.09 for total aggregated mileage in excess of 5000 km per vehicle month.	Km	90,000.00		
1.11	Ditto item 1.09, but Two (2) 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	36.00		
1.12	E.O item 1.11 for total aggregated mileage in excess of 5000 km per vehicle per month.	Km	5,000.00		
1.13	Ditto item 1.09, but Two (2) New 4WD Single cabin pick-ups with fibre glass body of minimum diesel engine capacity 2200cc 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	0.00		
1.14	E.O item 1.13 for total aggregated mileage in excess of 5000 km per vehicle per month.	Km	0.00		
1.15	Allow a Prime Cost Sum of Kshs.9,000,000 for the RE's miscellaneous account to be spent in whole or part as directed by the RE against receipts	PC Sum	1.00	9,000,000.00	9,000,000.00
1.16	E.O. item 1.15 for Contractor's overheads and profits.	%	1.00		
1.17	Allow a Prime Cost Sum of Kshs. 21,600,000.00 for attendance upon the Resident Engineer' staff.	PC Sum	1.00	21,600,000.00	21,600,000.00
1.18	E.O. item 1.17 for Contractor's overheads and profits.	%	1.00		
1.19	Provide, erect and maintain publicity signs as directed by the Engineer.	No.	10.00		

Annex II – Improvement of Salmond Hotel - Sikata Junction Road, Tender No. KeRRA/08/39/133/2024-25

ILL ITEM	DESCRIPTION	AMOUNT
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	
10	Grading and Gravelling Works	
12	Natural Gravel Base and Subase	
14	Lime/Cement Improved gravel Subbase and Base	
15	Bituminous Surface Treatment & Surface Dressing to Shoulders	
16	Bituminous Mixes	
17	Concrete Works	
20	Road Furniture	
21	Miscellaneous Bridge works	
22	Schedule of Dayworks.	
25	HIV/AIDS, Gender &Social Issues, Local Participation	
26	Land Acquisition, Axle load Control and Relocation of Services	
(A)	SUB-TOTAL (1)	
(B)	Add 15% VARIATION OF PRICE of sub total (1)	
(C)	Add 10% CONTIGENCIES of sub total (1)	
(D)	SUB-TOTAL $(2) = (A + B + C + D)$	
(E)	Add 0.03% For PPCBLof sub total (2)	
(F)	Add16% VAT of sub-total (2)	

Annex III - Upgrading to Bitumen Standard of Njeri - Oriwo - Boarder - Pala Road, Tender No. KeRRA/08/39/125/2024-25

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.01	Provide or rent accomodation for Engineer's senior and junior staff				
	(i)Type I - 1 No.	Month	18	65,000.00	1,170,000
	(i)Type II - 4 No.	Month	72	55,000.00	3,960,000
	(iii) Type III - 6 No.	Month	108	40,000.00	4,320,000
	(iv) Type IV - 8 No.	Month	144	30,000.00	4,320,000
	(v) Type V - 6 No.	Month	108	21,000.00	2,268,000
	Total				16,038,000.00
1.02	E.O item 1.01 for contractor's overhead and profit	%			
1.03	Provide or rent and maintain Engineer's Representative's office as shown on the drawings or as instructed by the Engineer for use during the duration of the Contract, ownership to revert to the Contractor at the end of the Contract	LS	1		
1.04	Provide, reagents and other items as priced in Appendix 'A' to the Bill of Quantities for use by the Engineer's representative for the duration of the contract	LS	1		
1.05	Provide and maintain furniture, tools and other items for the Engineers Representative office for the duration of the Contract as priced in Appendix `B', ownership to revert to the Employer at the end of Contract.	LS	1		
1.06	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 Employer at the end of the project.	Veh Month	36		
1.07	E.O item 1.04 for total aggregated mileage in excess of 5000 km per vehicle month.	Km	36,000		

BILL NO. 1. PRELIMINARIES AND GENERAL ITEMS							
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT		
1.08	Ditto item 1.04, but Two (2) 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	72				
1.09	E.O item 1.11 for total aggregated mileage in excess of 5000 km per vehicle per month.	Km	72,000				
1.10	Ditto item 1.09, but Two (2) 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	72				
1.11	E.O item 1.12 for total aggregated mileage in excess of 5000 km per vehicle per month.	Km	72,000				
1.12	Allow a Prime Cost Sum for the RE's miscellaneous account to be spent in whole or part as directed by the RE against receipts.	PC Sum	1				
1.13	E.O. item 1.08 for Contractor's overheads and profits.	%	-				
1.14	Allow a Prime Cost Sum for attendance upon the Resident Engineer' staff.	PC Sum	1				
1.15	E.O. item 1.10 for Contractor's overheads and profits.	%	-				
1.16	Provide, erect and maintain publicity signs as directed by the Engineer.	No	8				
	Bill No. 1 Total Carried Forward to Grand Sumi	mary					

APPENDIX TO BILL ITEM 1.04

APPENDIX TO BILL ITEM 1.04:

PROVIDE REAGENTS AND ITEMS FOR ENGINEER'S LABORATORY

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/17.01	Paraffin wax	Kg	50		
A104/17.02	Gunny sack	No	500		
A104/17.03	Plastic bag 900x450x1000 gauge	No	500		
A104/17.04	Plastic bag 450x300x1000 gauge	No	500		
A104/17.05	Filter paper 150mm diameter Whatman No. 5 (Boxes of 100)	No	20		
A104/17.06	Filter paper 400mm diameter Whatman No. 5 (Boxes of 100)	No	20		
A104/17.07	Filter paper 100mm diameter Whatman No. 5 (Boxes of 100)	No	20		
A104/17.08	Filter paper 400mm diameter Whatman No. 54 (Boxes of 100)	No	10		
A104/17.09	Filter paper 270mm diameter with 33 diameter hole at centre Whatman No. 5 (Boxes of 100)	No	15		
A104/17.10	Trichloroethylene (205 Litre Drum)	No	5		
A104/17.11	Dichloromethane	kg	200		
A104/17.12	Cotton waste	kg	50		
A104/17.13	13kg Gas cylinders filled with gas and with compatible gas burners	No	5		
A104/17.14	Sodium sulphate	kg	45		
A104/17.15	Sand for density test	kg	250		
	C/Forward to item 1.04				

APPENDIX TO BILL ITEM 1.05: PROVIDE, FURNISH AND MAINTAIN THE R.E.'S OFFICE

APPENDIX TO BILL ITEM 1.05: PROVIDE, FURNISH AND MAINTAIN THE R.E.'S OFFICE						
DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)		
1. ENGINEER'S MAIN OFFICE AND FURNITURE						
Executive desk 2.2x0.9 m with six lockup drawers	No	2				
Desk 2.2x0.9 m with chair and three lockup drawers	No	4				
Office tables 2.2x0.9 m	No	5				
Executive Swivel orthopeadic chair adjustable height	No	6				
Standard office chairs	No	10				
Typist's desk	No	1				
Typist's chair	No.	1				
Lockable steel stationery cupboard, 1.2 m³, lockable	No.	2				
Medium size steel filing cabinet, 4 drawers lockable	No.	2				
Medium size steel filing cabinet, 2 lockable drawers	No.	2				
Bookshelf, 1.5 m wide 3 shelves (for box files) sliding glass door	No.	2				
Conference table with 15 chairs	No.	1				
Waste paper basket	No.	10				
Curtains for office and laboratory -for all windows and doors	Set	2				
Ordinary 2 hole paper punch	No	5				
Heavy duty 2 hole paper punch	No	2				
Computer meeting the following specifications or equivalent: Personal computer with 17" screen full multimedia, 500GB hard disk, 4.0GB RAM, Core i7 processor, complete with all accessories preloaded with latest versions of windows OS, MS Office, Professional and MS Project	No	5				
Autocad Civil 3D 2016 and Licences for above computers	No	1				
Laptop PC with Intel Core i7-45IOU Processor 15.4" screen, CPU @ 2.6GHz 8GB RAM 1TB 8xDVD+/-RW approved with Microsoft Windows professional	No	4				

APPENDIX TO BILL ITEM 1.05: PROVIDE, FURNISH AND MAINTAIN THE R.E.'S OFFICE						
DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)		
Latest HP (A4) Laser Printer with accessories	No	5				
Latest HP (A3) Laser Colour Printer with accessories	No	1				
UPS 600 VA	No	6				
wall clocks, battery powered min size 350mm x 350mm	No	6				
First Aid Kit	No	4				
Fire Extinguisher	No	4				
Filing Tray - set of 3no.	set	10				
Refrigerator minimum capacity 0.2 m ³	No	1				
Drinking water dispenser, hot/cold	No	3				
Table - 0.8 m ² surface area	No	1				
Cupboard, 0.15 m ³ , lockable	No	1				
13 Kg Gas cylinder with three gas burners	No	2				
A3 Photocopier (approved make), with feeder sorting trays, scanner and print capability	No	1				
Reams of A4 phocopying paper	No	120				
Reams of A3 phocopying paper	No	24				
Electronic scientific calculator, Casio fx 991ES PLUS or equivalent approved	No	6				
Stapling machine Ofrex size 50 or similar with 5000 staples	No	6				
Heavy duty punch and spiral binder, IBICO AG or similar approved	No	2				
Digital Camera, 16.1 Megapixel(min), 1920x1080 full HD movie recording, optical steadyShot, sweep panorama, 2.7" LCD screen, minimum 5x digital zoom, multimedia card/SD 8GB memory, 12 scene selection modes, all inclusive.	No	2				
Provision of mobile phones for supervision team with the latest android version to the approval of the Engineer.	item	8				
Total carried to Bill Item 1.05						

ANNEX IV - Spot Improvement Bukaya/Buhuru - Elukongo - Bungasi - Ugana/Matawa - Lusumu - Buchifi - Imanga (Kakamega County) Road, Tender No. KeRRA/08/39/117/2024-2025

	BILL NO 4: SITE CLEA	RANCE	E AND TOP SO	OIL STRIPPING	
ITEM	DESCRIPTION	UNIT	QUANTITY	TENDER RATE (Ksh)	AMOUNT
	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				
4.01	Clear site on road reserve including removal of all growths, bushes, hedges, trees, stumps, grub up roots, and other deleterious materials and back-fill and compact to 100% MDD(AASHTO T99) with approved material as directed by the Engineer	M^2 .	10,000		
4.02	Strip top soil upto 0.2m in thickness along alignment or material sites including removal of all grass and other vegetation,transport to spoil and spread or stock pile for re-use as directed by the Engineer.	M^3	2,500		
	Total C/ Forward to Summary				

	BILL NO 10: GRADING AND GRAVELLING WORKS							
ITEM	DESCRIPTION	UNIT	QUANTITY	TENDER RATE (Ksh)	AMOUNT			
10.01	Provide and compact gravel wearing course (GWC) to the approaches as directed by the Engineer, compacted to 95%MDD AASHTO T180.	M^3	580					
10.02	Heavy grading with watering and compaction instructed by the Engineer	M^2	5,100					
	Total C/ Forward to Summary							

 $ANNEX\ V\ -\ Spot\ Improvement\ Works\ of\ Technology\ Primary\ -\ Court\ Yard,\ Tender\ No.\ KeRRA/08/39/78/2024-25$

	SUMMARY OF BILL OF QUANTITIES	
BILL ITEM	DESCRIPTION	AMOUNT(KShs)
1	Preliminaries and General Items	
4	Site Clearance and Top Soil Stripping	
5	Earthworks	
7	Excavation and Filling of Structures	
8	Culverts and Drainage Works	
9	Passage to Traffic	
12	Natural Gravel Sub-base	
13	Graded Crushed Stone And Hand Packed Stone For Base	
14	Lime/Cement Improved gravel Subbase	
20	Road Furniture	
22	Schedule of Dayworks.	
25	HIV/AIDS, Gender &Social Issues, Local Participation	
26	Land Acquisition, Axle Load Control, And Relocation Of Services	
(A)	SUB-TOTAL (1)	
(B)	Add 0.03% Public Procurement Capacity Building Levy (PPCBL) of Sub-total (1)	
(C)	Add16% VAT of sub-total (1)	
GRAND TO	ΓAL CARRIED FORWARD TO FORM OF BID (A+B+C+)	

ANNEX VI - Upgrading to Bitumen Standards of Kiawamururu - Kaheti Road (Nyeri County).

Tender No. KeRRA/08/39/100/2024-25

SUMMARY	SUMMARY OF BILL OF QUANTITIES					
BILL ITEM	DESCRIPTION	AMOUNT (KShs)				
1	Preliminaries and General Items					
4	Site Clearance and Top Soil Stripping					
5	Earthworks					
7	Excavation and Filling of Structures					
8	Culverts and Drainage Works					
9	Passage to Traffic					
12	Natural Gravel for Sub-base and Base					
14	Lime/Cement Improved Gravel Subbase and Base					
15	Bituminous Surface Treatment and Surface Dressing					
16	Bituminous Mixes					
20	Road Furniture					
22	Schedule of Dayworks.					
26	Land Acquisition, Axle Load Control, And Relocation Of Services					
(A)	SUB-TOTAL (1)					
(B)	Add 2.5% CONTINGENCIES of sub total (1)					
(C)	SUB-TOTAL $(2) = (A + B)$					
(D)	Add 0.03% Public Procurement Capacity Building Levy (PPCBL) of sub total (2)					
(E)	Add16% VAT of sub-total (2)					
TOTAL CAI	RRIED FORWARD TO FORM OF BID (C+D+E)					

ANNEX VII -



CERTIFICATE OF BIDDER'S VISIT TO SITE

This is to certify that	
[Name/s]	
Being the authorized representative/Agent of [Name	e of bidder]
Participated in the organised inspection visit of the	site of
	ROADS
day of	20
(Name of Contractors Representative)	
Signed(Contractor's Representative)	Stamp
(Name of Employer's Representative)	
(Signature of Employer's Representative)	(Designation)

NOTE: This form is to be completed at the time of the organized site visit.

ANNEX VIII – Upgrading to Bitumen Standard of Jn Kaplogoi - Kimoning - Kapteren – Tambach Road, Tender No. RWC/670

APPENDIX TO BILL ITEM 1.05: PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY APPENDIX A **RATE AMOUNT** DESCRIPTION **QUANTITY ITEM** UNIT (KSHS) (KSHS) 1. FURNITURE A104/1.01 Desk 2.2x0.9 m with chair and lockup No 2 drawers A104/1.02 Desk chair (standard) 15 No Stationery cupboard, 1.2 m³, lockable 2 A104/1.03 No Steel filing cabinet, 4 drawers, A104/1.04 No 2 lockable Steel filing cabinet, 2 drawers, No A104/1.05 2 lockable A104/1.06 Bookshelf, 3 shelves 1.2 m long (to 2 No hold box files) A104/1.07 Table - 6 m² No 2 A104/1.08 Two Plate electric heater No A104/1.09 Fire extinguisher, 10 litre capacity, No 4 CO₂ type A104/1.10 Complete first aid kit 2 No **EQUIPMENT** (The following equipment shall be purpose made for use in the Engineer's laboratories and shall comply with the relevant British (BS) or American (AASHTO) Standard) 2. General Equipment

APPENDIX TO BILL ITEM 1.05:

PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/2.02	2.49kg. Compaction hammer, drop regulated to 304.8mm	No	2		
A104/2.03	4.535kg compaction hammer drop regulated to 457.2mm	No	2		
A104/2.04	Electric vibrating Kango Hammer fitted with steel tamper(BS 1377) with support frame	No	1		
A104/2.05	Straight edge 300 mm long with handles	No	4		
A104/2.06	Steel Tamper (BS1377) compatible with Kango hammer	No	3		
A104/2.07	Compaction mould 152.4 mm. dia x 116.43 mm complete with base plate and extension collar, 101.6 mm	No	2		
A104/2.08	Galvanized metal tray 1m x 0.5m x 75 mm deep	No	4		
A104/2.09	75mm brush	No	2		
A104/2.10	Semi-automatic balance, 25kg Capacity accurate to 1g, including weights	No	1		
A104/2.11	20mm BS Sieve, 300mm diameter	No	1		
A104/2.12	Stop Clock	No	2		
A104/2.13	Thermostatically controlled electric oven 105-1100C, capacity 0.225 m ³	No	2		
A104/2.14	As above but gas heated	No	1		
A104/2.15	Moisture content tins, 75 mm dia, Cadmium or aluminium plated	No	60		
A104/2.16	Cone penetrometer with gauge and automatically controlled test cup	No	2		
	3. Density (Sand replacement method BS 1377)				

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PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/3.01	Metal containers 450mm diameter	No	2		
A104/3.02	Stainless steel tray 305mm diameter	No	2		
A104/3.03	Metal tray with 150 mm diameter hole in the centre, 300mmx300 mm square or equivalent area, 40mm deep	No	2		
A104/3.04	Metal tray with 200mm diameter hole in the centre, 500mm x 500 mm square , 50 mm deep	No	2		
A104/3.05	Steel pegs for fixing tray in position	No	15		
A104/3.06	Sand pouring cylinder, 150 mm diameter	No	2		
A104/3.07	Sand pouring cylinder, 215 mm diameter	No	2		
A104/3.08	Cold steel chisel 20mm x 300mmm	No	4		
A104/3.09	Cold steel chisel 10mm x 250mmm	No	4		
A104/3.10	1.5kg, 3.5kg hammers and 1kg rubber mallet	Set	1		
A104/3.11	Scoop for removing excavated material from hole, 250 mm long handle	No	6		
A104/3.12	100mm brush, soft	No	3		
A104/3.13	50mm brush, soft	No	3		
A104/3.14	Primus gas stove	No	1		
A104/3.15	Calibrating can 150 mm diameter x 150 mm deep	No	3		
A104/3.16	Ditto but 200 mm diameter x 250 mm deep	No	3		
	5. CBR (AASHTO T193)				

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PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/5.01	CBR mould, 152.4 mm dia x 178 mm high, complete with perforated base plate and extension collar 50.8 mm high that can be fitted to either side of mould	No	50		
A104/5.02	Perforated swell plate 150 mm dia with an adjustable centre post of rust proof metal provided with a lock-nut	No	40		
A104/5.03	2.25 kg split surcharge weight	No	2		
A104/5.04	Set of annular surcharge weights	No	1		
A104/5.05	Solid base plate for CBR mould	No	2		
A104/5.06	Static compaction displacer discs 1 Nox 61.4 mm, 1 No x 50.8 mm and 2 Nox 38.8 mm thick with handles	set	1		
A104/5.07	Disk lifting handle	No	2		
A104/5.08	Central extruder, complete with 20kN hydraulic jack and accessories	No	1		
A104/5.09	Automatic CBR Proctor Compaction press, 50 tonnes capacity with an adjustable distance between platens of 530mm-250mm, rammer weights and automatic count selector	No	1		
A104/5.10	Set of guards for above press.	No	1		
A104/5.11	50 kN CBR Load frame complete with stabilising bar (electric and hand operated) including proving rings for 10KN, 28KN and 50KN, piston and bracket	No	1		
A104/5.12	Penetration gauge range 0 - 25mm	No	2		
A104/5.13	CBR piston including bracket	No	2		

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PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/5.14	Swell measurement tripod complete with guage calibrated in 0.01 mm divisions	No	2		
A104/5.15	Soaking tank for CBR mould sufficient for 50 moulds	No	1		
	6. Relative Density of Aggregates (BS 812)				
A104/6.01	Wire mesh basket with apertures not greater than 6.5 mm large enough to contain 2.5 kg of aggregate	No	2		
A104/6.02	A stout watertight container in which the basket can be freely suspended	No	2		
A104/6.03	Soft absorbent cloth (tea towel)	No	10		
A104/6.04	Shallow tray of area not less than 0.065 m ²	No	2		
A104/6.05	An airtight container of similar capacity to the basket	No	2		
A104/6.06	Pycnometer of 1 litre capacity	No	4		
A104/6.07	Semi automatic 5 kg balance accurate to 0.1g to be of size and type to permit the basket containing the sample to be suspended in water(to be supplied with weights)	No	1		
A104/6.08	Hot air drier (electric)	No	2		
	7. Flakiness (BS 812)				
A104/7.01	Thickness gauge (various sizes)	No	2		
	8. Sieve Analysis (BS 1377)				

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PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/8.01	BS Sieve 300mm diameter in sizes 75, 63, 50, 37.5, 28, 20, 14, 10, 6.3, 5 and 4 mm, plus lid and receiver	Set	2		
A104/8.02	BS Sieve 200mm diameter in sizes 2, 1, 0.6, 0.5, 0.425, 0.300,0.150 and 0.075 mm, plus lid and receiver	Set	2		
A104/8.03	Electric sieve shaker	No	1		
A104/8.04	BS sieve 200mm diameter 0.425 and 0.075 mm	set	1		
A104/8.05	1 m x 1 m x 75mm deep galvanized metal tray	No	10		
A104/8.06	Riffle box with 50mm slots (BS 1377)	No	1		
	9. Miscellaneous Equipment				
A104/9.01	Wheel barrow	No	3		
A104/9.02	Dustpan and brush	No	3		
A104/9.03	Shovel	No	4		
A104/9.04	Pick axe with handle	No	4		
A104/9.05	Metal scoop, large (150mm wide)	No	3		
A104/9.06	Metal scoop, medium (100mm wide)	No	4		
A104/9.07	Garden trowel	No	2		
A104/9.08	Steel tray 0.3m x 0.3m x 0.01m deep	No	15		
A104/9.09	Palette knife 200mm long blade	No	3		
A104/9.10	Palette knife 100mm long blade	No	4		
A104/9.11	BS sieve 450mm diameter, 37.5mm	No	1		
A104/9.12	BS sieve 450mm diameter, 20mm	No	1		
A104/9.13	BS sieve 450mm diameter, 5mm	No	1		

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PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/9.14	BS sieve 450mm diameter, 0.425mm	No	1		
A104/9.15	BS sieve 450mm diameter, 0.3mm	No	1		
A104/9.16	BS sieve 450mm diameter, 0.075mm	No	1		
A104/9.17	Set of lid and receiver for metal scoop and steel trays	No	2		
A104/9.18	BS Sieve brush	No	2		
A104/9.19	Measuring cylinder set, 25 ml, 100 ml, 500 ml, 1000 ml, 2000 ml	set	2		
A104/9.20	Glass jar capacity 5 litres with lid	No	10		
A104/9.21	200mm x 200mm x 20mm cadmium plated or aluminium tin	No	20		
A104/9.22	Electronic balance capacity 1000 g, accurate to 0.01gm.	No	1		
A104/9.23	Balance 2000 g capacity accuracy to 0.1g (manual), including weights	No	1		
A104/9.24	Balance 50kg capacity accurate to 10gm including weights	No	1		
A104/9.25	Still for producing distilled water	No	1		
A104/9.26	Polythene or glass 20 litres storage vessel with tap at bottom	No	2		
A104/9.27	Stiff broom	No	2		
A104/9.28	Vernier calipers, 150mm	No	2		
A104/9.29	Vernier calipers, 250mm	No	2		
A104/9.30	Pestle and mortar	No	2		
A104/9.31	Linear shrinkage mould (BS 1377)	No	6		
A104/9.32	Liquid Limit Device	No	2		
A104/9.33	Average least dimension gauge	No	2		

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PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/9.34	Lockable tool box containing: 1 pr"Molegrips", 2 x 150mm screwdriver, 2 x 200 mm screwdriver, 2 x 300 mm screwdriver, (1 standard and 1 Phillips head of each) adjustable spanners 200 mm and 300 mm, 1 pair round nosed pliers, 1 pair general purpose pliers,	No	1		
A104/9.35	Plastic or metal bucket including lid,10 litres capacity	No	6		
A104/9.36	Polythene wash bottle (500 ml)	No	5		
A104/9.37	A4 size clipboard	No	4		
A104/9.38	Thermometer, range -10°C to150°C, glass (BS 593)	No	2		
A104/9.39	Laboratory thermometer, range + 0°C to + 250°C (BS 593)	No	2		
A104/9.40	Maximum and minimum thermometer (BS692)	No	2		
A104/9.41	Rain gauge	No	1		
A104/9.42	Portable dial thermometer + 50°C to +250°C accurate to ± 3%	No	1		
A104/9.43	Ditto with 0.75m long stem	No	1		
A104/9.44	Pocket thermometer + 50°C to +250°C accurate to ± 3% with 0.1 m stem	No	2		
A104/9.45	5 litre capacity steel storage containers with leak and dust proof lids for storage of bitumen samples	No	50		
A104/9.46	Hotplate 200mm diameter with Simmerstat heat control unit.	No	2		
A104/9.47	450mm diameter x 150mm deep metal mason's basin	No	6		
	11. Concrete: Slump and Cube Manufacture (BS 1881)				
A104/11.01	Slump cone, tamping rod and base	set	2		

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PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/11.02	Concrete cube mould, 150mm cube	No	30		
A104/11.03	Soaking tank for cubes (capacity 50 No.)	No	1		
A104/11.04	Cube tamping bars	No	10		
	12. Concrete: Cube Compression Testing				
A104/12.01	Concrete compression machine to BS1610 Grade A with 300 mm gauge, rectangular platens, capacity 1560 kN with load spacer				
A104/12.02	Safety guard for above	No	1		
A104/12.03	50mm distance piece				
A104/12.04	70mm distance piece				
A104/12.05	Electro-mechanical load pacer, 100 mm or equivalent distance piece				
	13. Aggregate and Chippings				
A104/13.01	Sand equivalent to AASHTO T176 including graduated plastic cylinder, rubber stopper, irrigation tube weighted foot assembly, siphon assembly, 85ml tin box (57mm dia.), 100 mm dia wide mouth funnel, stop clock,mechanical shaker and 10 litre jar	Set	1		
A104/13.02	Beaker 250ml	No	2		
A104/13.03	Aggregate Crushing Value Apparatus, 150 mm nominal diameter, including plunger and base plate	No	2		
A104/13.04	Tamping rod and metal measure for above	Set	4		

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/13.05	Los Angeles Abrasion to ASTM standards	No	1		
A104/13.06	Set of 12 abrasive charges	No	2		
A104/13.07	Thermometer, 0°C to +50°C	No	2		
A104/13.08	Thermometer, 0°C to +250°C	No	2		
A104/13.09	Reagent grade Silica gel, 500g container	No	50		
	14. Bitumen Spray Test (BS 1707)				
A104/14.1	Transverse distribution of spray test bitumen distributor (depot tray test to BS 1707) or equivalent.	Set	1		
A104/14.02	Steel tray 20 mm deep x0.1m2 (for measuring bitumen spray rates) with purpose made detachable handle 1.5m long.	No.	4		
	16. Bitumen Extraction Test				
	A) Extractor Bottle Method BS 598 Part 2				
A104/16.01	Electronic top pan balance 4kg capacity, sensitive to 0.1gm	No	1		
A104/16.02	Flat bottomed scoop	No	3		
A104/16.03	Steel garden trowel	No	2		
A104/16.04	Large steel spoon	No	2		
A104/16.05	Heat resistant gloves	pair	10		
A104/16.06	Foot pump for pressurising air water assemblies up to a maximum of 700KN/m2 and fitted with flexible hose approximately 1.2m long and connector	No	2		

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/16.07	Steel bottle 600ml capacity with 49mm rubber stopper	No	2		
A104/16.08	Steel bottle 2500ml capacity with 71mm rubber stopper	No	2		
A104/16.09	Steel bottle 7000ml capacity with 71mm rubber stopper	No	2		
A104/16.10	Flask funnel for fitting to the 700ml steel bottle with rim of funnel retaining sieve 200mm nominal diameter	No	2		
A104/16.11	Bottle roller compact bench mounted unit designed to rotate 2 bottles simultaneously about longitudinal axis	No	1		
A104/16.12	Pressure filter complete with cutting tool for making hole in the filter paper	No	1		
A104/16.13	Filter funnel to take 200mm nominal diameter sieves	No	2		
A104/16.14	Centrifuge complying with BS 598	No	1		
A104/16.15	Binder recovery	No	1		
A104/16.16	Volumetric flask 250ml, 500ml, 1000ml and 2000ml capacity	set	2		
A104/16.17	Recovery still for Dichloromethane	No	1		
	B) Hot Extractor Method BS 598 Part 2				
A104/16.18	Hot extractor complete with wire gauze container gasket, cork lid and support assembly	No	2		
A104/16.19	Dean and Stark receiver with condenser to suite Trichloroethylene	No	2		
A104/16.20	Gyratory compactor ELE Servo Pac or equivalent with 1 x 100mm and 1 x 150mm moulds	No	2		

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
A104/16.21	PRD Vibrating hammer compactor complete with 6 moulds, 7 base plates from ELE	SET	1		
A104/16.22	Two (2) sets of Tamping foot 102mm diameter and 146mm diameter and shanks to fit the supplied vibratory hammer	SET	2		
	17. Consumables				
A104/17.01	Paraffin wax	Kg	50		
A104/17.02	Gunny sack	No	500		
A104/17.03	Plastic bag 900x450x1000 gauge	No	500		
A104/17.04	Plastic bag 450x300x1000 gauge	No	500		
A104/17.05	Filter paper 150mm diameter Whatman No. 5 (Boxes of 100)	No	20		
A104/17.06	Filter paper 400mm diameter Whatman No. 5 (Boxes of 100)	No	20		
A104/17.07	Filter paper 100mm diameter Whatman No. 5 (Boxes of 100)	No	20		
A104/17.08	Filter paper 400mm diameter Whatman No. 54 (Boxes of 100)	No	10		
A104/17.09	Filter paper 270mm diameter with 33 diameter hole at centre Whatman No. 5 (Boxes of 100)	No	15		
A104/17.10	Trichloroethylene (205 Litre Drum)	No	5		
A104/17.11	Dichloromethane	kg	200		
A104/17.12	Cotton waste	kg	50		
A104/17.13	13kg Gas cylinders filled with gas and with compatible gas burners	No	5		
A104/17.14	Sodium sulphate	kg	45		

APPENDIX TO BILL ITEM 1.05: PROVIDE AND MAINTAIN FURNITURE AND EQUIPMENT FOR THE ENGINEER'S LABORATORY APPENDIX A							
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)		
A104/17.15	Sand for density test	kg	250				
	C/Forward to item 1.05						