



KENYA URBAN ROADS AUTHORITY

Efficient and safe urban roads

Barabara Plaza JKIA Tel: 254-020-8013844
Email: info@kura.go.ke Web: www.kura.go.ke
P.O. Box 41727-00100, GPO, NAIROBI

Ref. No. KURA/EO/SCM/3/Vol.27 (98)

Date: 4th March, 2021

To All Bidders,

RE: UPGRADING TO BITUMEN STANDARD OF MOMBASA ROAD (DEVKI) – KINANIE
PARK/KINANIE LEATHER PARK, MACHAKOS COUNTY
TENDER NO. KURA/DEV/HQ/306/2020-2021

ADDENDUM NO. 2

This is to notify all bidders that an addendum no. 2 has been issued for the above mentioned tender.

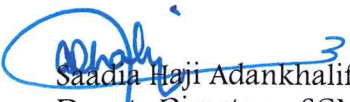
The following bills items have been amended as follows:

1. Bill No. 19 (Structural Steel works) is hereby omitted from the BOQ.
2. Enclosed are revised details under scope of work, bill no. 17 (Reinforced concrete) and no. 21 (Miscellaneous bridge work)
3. Enclosed is a revised schedule of major plant and equipment and other details.

All bidders are required to take note of this addendum and incorporate it in their bid before tender submission.

The submission date remains 9th March, 2021 while the tender opening date remains 11th March 2021.

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


Saadia Haji Adankhalif
Deputy Director – SCM
FOR: DIRECTOR GENERAL

LIST OF MAJOR PLANT & EQUIPMENT

Item No.	Equipment Details	*Minimum Number Required for the Contract Execution	Must meet criteria	No of Equipment Owned by the Bidder	No. of equipment to be hired/ purchased by the Bidder	No. of equipment to be made available for the Contract by the Bidder
A	Bituminous Plants					
	Bitumen Pressure distributor	1				
	Asphalt concrete paver	1				
	Subtotal for A	2				
B	Compactors					
	Vibrating compaction plate 300	1				
	Vibrating compaction plate 600 mm wide	1				
	Subtotal for B	2				
C	Concrete Equipment					
	Mobile concrete mixers	1				
	Concrete vibrators	1				
	Subtotal for C	2				
D	Transport (Tippers, dumpers, water tankers)					
	4X2 tippers payload 7 – 12 tonnes	1				
	6X4 tippers payload 16 – 20 tonnes	1				
	8X4 tippers payload 16 – 20 tonnes	1				
	Flatbed lorries	1				
	Subtotal for D – tippers & dumper	4				
	Water tankers (18,000 – 20,000 litres capacity)	2				
E	Earth – Moving Equipment					
	Wheeled loaders					
	Motor graders (93 - 205kW)	1				
	Trench excavator	1				
	Subtotal for E	2				


04.03.2021

F	Excavators					
	Hydraulic crawler mounted (7 – 10 tonnes) – 0.25 – 0.4 m3 SAE bucket.	1				
	Hydraulic crawler mounted (10 – 16 tonnes) – 0.40 – 0.60 m3 SAE bucket.	1				
	Hydraulic wheel mounted (7 – 10 tonnes) – 0.25 – 0.4 m3 SAE bucket.	1				
	Hydraulic wheel mounted (10 – 16 tonnes) – 0.40 – 0.6 m3 SAE bucket.	1				
	Subtotal for F	4				
G	Rollers					
	Self-propelled single drum vibrating (various types)	1				
	Pneumatic rubber tyre (1-2 tonnes/wheel) Sheep's foot roller	1				
	Subtotal for G	2				


04.03.2021

GENERAL

Special Specification is supplementary to the Standard Specification and the two must be read in conjunction. In any case where there appears to be conflict between the two then the Special Specifications will take precedence.

In the absence of any definite provisions on any particular issue in the aforesaid Specifications, reference may be made to the latest codes and specifications of Design Manual for Roads and Bridges of the Ministry of Transport and communication of the Republic of Kenya, Kenya Bureau of Standards (KeBS), BS, ASTM, AASHTO and in that order. Where even these are silent, the construction and completion of the works shall conform to sound engineering practice as approved by the Engineer and in case of any dispute arising out of the interpretation of the above, the decision of the Engineer shall be final and binding on the Contractor.

Where reference is made in the Contract to specific standards codes to be met by the materials, plant, and other supplies to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards as on the date of the bid and codes/design manual in effect shall apply, unless otherwise expressly stated in the contract. Where such standards and codes/design manual are national, or relate to a particular country or region, other internationally recognised standards which ensure a substantially equal or higher performance than the standards and codes/design manual specified will be accepted subject to the Engineer's prior review and written approval. The difference between the standards specified and the proposed alternative standards must be fully described in writing by the Contractor and submitted to the Engineer at least 28 days prior to the date when the Contractor desires the Engineer's approval. In the event that the Engineer determines that such proposed deviations do not ensure substantially equal performance, the Contractor shall comply with the standards specified in the documents.

101 Location and Extent of Site

The Project works involves construction of single carriageway of approximately 25km of Mombasa Road (Devki) – Kinanie Park – Joska and Kinanie Leather Park Roads in Machakos County. The main project works comprise upgrading to bitumen standard of the carriageway, construction of shoulders (where necessary), drainage works, concrete structures and walkways.

102 Extent of Contract

The main Project Road under this Contract is approximately 25.0 km long construction of a single carriageway to bitumen standard.

102.1 Projects Components

The works proposed in this Contract include but are not limited to the following;

- ☐ Construction of approximately 7.0m wide carriageway with 0.5m wide shoulders to bitumen standard
- ☐ Construction of 2.0 m wide footpaths on either side of the road or
- ☐ Construction of Lined Open/Covered drains with associated structures on either sides of the road
- ☐ Utility relocation where applicable
- ☐ Safety provisions and protection works


04.03.2021

102.2 Scope of Work

The scope of the work shall include but not limited to the following

1. Relocation of utilities as necessary
2. . Site clearance
3. Earthworks to formation levels
4. Regular maintenance of passage of traffic during construction including diversion works as necessary to meet regulatory requirements
5. Construction of the pavement structure consisting of:
 - ❖ Improved subgrade 300mm
 - ❖ Cement Improved gravel Subbase, 175mm
 - ❖ Cement Stabilized Gravel (2-4%) Base, 150mm
 - ❖ Laying of 50mm asphaltic Concrete Type I surfacing
6. Construction of 2.0m footpaths on either side of the carriageway pavement consisting of 150mm neat gravel and 35mm thick AC Type I surfacing.
7. Construction of pipe culverts and other drainage works.
8. Construction cross-river bridges.
9. Provision and installation of road furniture including road marking and street lighting.
10. Facilitation of the supervision staff.
11. Maintenance of the works during 12 months Defect Liability Period.
12. Any other activity not listed above but deemed to be necessary by the Engineer shall be carried out subject to Engineer's formal instructions and within the mode of payment stipulated either by day works or on measured basis.

103 Drawings

This clause shall be read as under:

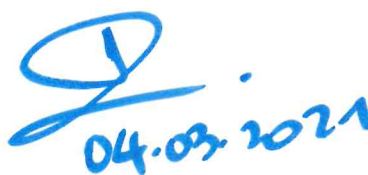
The drawings provided for bidding purpose shall be as contained in the Bid documents. The Engineer may from time to time, in order to enable satisfactory completion of works, revise, amend, or supersede any of these drawings. It shall be the Contractor's responsibility to construct the works in conformity with the latest revision and amendment to the drawings provided that the Engineer has given the Contractor in writing such reasonable prior notices of intention to revise, amend, or supersede as the nature of the intended change required and relevant drawings have been issued to the Contractor.

104 Programme for Execution of the Works

The Contractor shall provide the works programme, required under Clause 14.1 of the Conditions of Contract, within 28 days of receipt of the Engineer's Order to commence work.

The programme shall be coordinated with climatic and other conditions to provide for the completion of the works in the order and by the time specified.

The Contractor shall carry out the Works of the Contract in accordance with the programme agreed with the Engineer, but he shall in no manner be relieved by the Engineer's approval of the



04.03.2021

programme, of his obligation to complete the works in the prescribed order and by the prescribed completion date and he shall from time to time


04.03.2021

BILL NO. 17: CONCRETE WORKS					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)
17.01	Provide, place and compact class 20/20 concrete for blinding to foundations as per the drawings and as directed by the Engineer.	m ³	900		
17.02	Provide, place and compact concrete class 30/20 reinforced concrete to spread foundation of piers, columns, Pier Bent caps, Spread foundation of abutments, head walls and backwalls of abutments, bridge deck and Transition slabs.	m ³	2,000		
17.03	Provide, place and compact concrete class 20/20 unreinforced concrete to shallow side drains on bridge.	m ³	150		
17.04	Provide, place and compact concrete class 30/20 reinforced concrete to top and bottom slabs, side walls and wing walls of bridge & box culvert.	m ³	1,530		
	FORM WORK				
	NOTE: Formwork shall be provided, erected and dismantled as per specifications.				
	Metal Formwork shall be used in all cases.				
17.05	Unformed surface finish -Class UF1.	m ²	650		
17.06	Formworks for formed surface finishes (Rate to include for 25x25mm chamfer to all exposed areas)				
	i) F1 Finish-Vertical	m ²	720		
	ii) F1 Finish-Sloping	m ²	470		
	ii) F1 Finish-Horizontal	m ²	530		
	iii) F3 Finish-Horizontal	m ²	448		
	iii) F3 Finish-Vertical	m ²	680		
17.07	High yield steel bars to BS 4461 for the pier columns, spread foundation of pier, Abutment spread foundation, abutment back-wall and Headwall, Guardrail works, wing-walls, transition slabs, Pier bent cap, Pier protection and Bridge deck.				
17.08	High yield steel bars to BS 4461 of size 12mm dia. and below.	Tonne	168		
17.09	High yield steel bars to BS 4461 of size 16mm dia. and above.	Tonne	100		
17.10	Allow a Provisional Sum of KShs 5,000,000 for Geotechnical Investigations at the proposed bridge locations to be spent as directed by the Engineer.	Prov. Sum	1	5,000,000.00	
17.11	Extra over on Item 17.13 for the contractors overheads and profit.	%	5,000,000.00		
BILL 17 TOTAL CARRIED TO SUMMARY PAGE					


04.03.2021

BILL NO. 21: MISCELLANEOUS BRIDGE WORKS					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSH)	AMOUNT (KSH)
21.01	Provide and install elastomeric bearings complete as per drawings and as per BS 5400 Part 9.2 of size 610x305x70mm.	No	36		
21.02	Strip seal type of expansion joint with structural steel and anchorage assembly complete as per drawing & specification including acceptance testing as specified, to be installed under supervision of a specialist manufacturer	m	60		
21.03	Provide and install 75mm diameter galvanised steel pipes for handrails in accordance with clause 2104 of Standard Specifications.	m	300		
21.04	Provision of guardrails to bridges.	m	300		
21.05	Provide and install 75mm dia. weep holes to wing wall & abutments in accordance with clause 2107 of Standard Specifications	No	350		
21.06	Provide and apply bitumen emulsion or cutback bitumen or bitumen/rubber latex emulsion to all structural concrete in contact with fill material or cut soil.	m ²	550		
21.07	Provide and place as directed by the Engineer PVC pipes of diameter 100 mm inclusive of required joinery items like elbows and adhesives to form storm drain pipes of the bridge deck.	m	200		
BILL 21 TOTAL CARRIED TO SUMMARY PAGE					


04.03.2021