



**KENYA RURAL ROADS AUTHORITY
P. O. BOX 48151 – 00100 NAIROBI**

**UPGRADING TO BITUMEN STANDARDS OF
C467 EMALI – UKIA ROAD (EMALI - NDUUNDUNE SHOPPING
CENTRE) PROJECT**

(Phase 1)

TENDER DOCUMENT

TENDER No. KeRRA/011//39/18/2019-20

NOVEMBER, 2019

The Engineer

DIRECTOR (ROAD ASSET MANAGEMENT)
KENYA RURAL ROADS AUTHORITY,
P.O. BOX 48151-00100,
NAIROBI.

The Employer

DIRECTOR GENERAL,
KENYA RURAL ROADS AUTHORITY,
P.O. BOX 48151-00100,
NAIROBI.

TABLE OF CONTENTS

SECTION 1: FORM OF -BID SECTION.....	3
SECTION 2: APPENDIX TO FORM OF BID	6
SECTION 3: FORM OF BID SECURITY	8
SECTION 4: INSTRUCTIONS TO BIDDERS	12
SECTION 5: QUALIFICATION CRITERIA	23
SECTION 6: CONDITIONS OF CONTRACT	30
SECTION 6A: CONDITIONS OF CONTRACT PART I:	31
GENERAL CONDITIONS OF CONTRACT	31
SECTION 6B: CONDITIONS OF CONTRACT PART II: (CONDITIONS OF PARTICULAR APPLICATION)	32
SECTION 7: SCHEDULES OF SUPPLEMENTARY INFORMATION	54
SECTION 8: FORM OF AGREEMENT	70
SECTION 9: FORMS OF PERFORMANCE BID SECURITY AND ADVANCE PAYMENT GUARANTEE (UNCONDITIONAL)	73
SECTION 10: STANDARD SPECIFICATIONS	75
SECTION 11: SPECIAL SPECIFICATIONS	77
SECTION 12: BILLS OF QUANTITIES	107
SECTION 13: DRAWINGS	165

SECTION 1: FORM OF BID SECTION

FORM OF BID

(NOTE: The Appendix forms part of the Bid. Bidders are required to fill all the blank spaces in this form of Bid and Appendix)

NAME OF CONTRACT:

UPGRADING TO BITUMEN STANDARDS OF C467 EMALI -UKIA ROAD PROJECT PHASE I

TO: The Director General, Kenya
Rural Roads Authority
P. O. Box 48151 - 00100,
NAIROBI, KENYA.

Sir,

1. Having examined the Conditions of Contract, Specifications, Bills of Quantities, and Drawings for the execution of the above-named works we, the undersigned, offer to construct and install such works and remedy any defects therein in conformity with the said Bills of Quantities, Conditions of Contract, Specifications and Drawings for the sum of

(Insert amount in words).

.....
.....

(Insert amount in figures).....

as specified in the Appendix to Bid or such other sums as may be ascertained in accordance with the said Conditions.

2. We undertake, if our bid is accepted, to commence the works within twenty-eight (28) days of receipt of the Engineer's order to commence, and to complete and deliver the whole of the works comprised in the contract within the time stated in the Appendix to Bid.
3. If our bid is accepted we will, when required, obtain the guarantee of a Bank or other sureties (to be approved by you) to be jointly and severally bound with us in a sum not exceeding 5% of the above named sum for the due performance of the contract under the terms of a Bond to be approved by you.
4. We agree to abide by this bid for the period of two hundred and fifty-five (255) days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. We understand that you are not bound to accept the lowest or any bid you may receive.
6. On the basis of our previous experience we are fully experienced and competent in the type of work included in this BID and we have adequate financial resources to carry out the works

described within the period for completion. We are in a position to fulfil the contract for which we have Bided.

Dated this Day of 20.....

Signature.....in the capacity of
Duly authorized to sign bids on behalf of (Name of Bidder)

.....
(Address of Bidder).....

(Name of Witness).....

(Signature of Witness).....

(Address of Witness).....

(Occupation of Witness).....

SECTION 2: APPENDIX TO FORM OF BID

APPENDIX TO FORM OF BID
(This appendix forms part of the bid)

CONDITIONS OF CONTRACT	CLAUSE	AMOUNT
Bid Security (Bid Security Only)		KShs 500,000.00
Amount of Performance Security (Unconditional Bank Guarantee)	10.1	5 per cent of BID Sum in the form of Unconditional Bank Guarantee
Program to be submitted	14.1	Not later than 21 (twenty one) days after issuance of Order to Commence
Cash flow estimate to be submitted	14.3	Not later than 21 (twenty one) days after issuance of Order to Commence
Minimum amount of Third Party Insurance	23.2	KShs. 1,000,000.00
Period for commencement, from Engineer's order to commence	41.1	28 days
Time for completion	43.1	12 (Twelve Months)
Amount of liquidated damages	47.1	KShs. 50,000.00 per day
Limit of liquidated damages	47.1	2.5% of Contract Value
Defects Liability period	49.1	12 (Twelve Months)
Percentage of Retention	60.3	10% of Interim Payment Certificate
Limit of Retention Money	60. 3	5% of Contract Price
Minimum amount of interim certificates	60.2	KShs. 15,000,000.00
Time within which payment to be made after Interim Payment Certificate signed by Engineer	60.10	90 days
Time within which payment to be made after Final Payment Certificate signed by Engineer	60.10	90 days
Appointer of Arbitrator/Adjudicator	67.3	The Chartered Institute of Arbitrators (Kenya)
Notice to Employer and Engineer	68.2	<p>The Employers address is: Director General, Kenya Rural Roads Authority, P.O. Box 48151, 00100 NAIROBI</p> <p>The Engineer's address is: Director (Road Asset Management), Kenya Rural Roads Authority, P.O. Box 48151- 0100 NAIROBI</p>

SECTION 3: FORM OF BID SECURITY

FORM OF BID SECURITY

Bid security from an approved Insurance Company by Public Procurement and Disposal Act 2005 or a bank guarantee is acceptable. Attached herein, find the list of the approved Insurance Companies by (PPOA).

Note: The bidder shall complete only this form of Bid Security. No other Form of Bid Bond or any other forms of security will be accepted. Bidders who fail to comply with this requirement will be disqualified. **(NOTE: ALTERING THE TEXT IN THIS FORM OF BID SECURITY WILL RESULT IN DISQUALIFICATION)**

WHEREAS [Name of bidder].....

(herein after called “the Bidder”) has submitted his bid dated.....

For the proposed **Upgrading to Bitumen Standards of C467 Emali -Ukia Road Project Phase I** hereinafter called “The Bid”

KNOW ALL MEN by these presents that we [Name of Bank/ Insurance Company]

of [Name of Country]

having our registered offices at

.....
(hereinafter called the Bank/Insurance Company) are bound unto the Director General, Kenya Rural Roads Authority (hereinafter called “the Employer”) in the sum of

(in words) KShs.....

.....
(In figures) KShs.....

for which payment will be well and truly made to the said Employer the Bank/Insurance Company binds itself, its successors and assigns by these presents.

Signed for the said Bank/Insurance Company this.....day of 20.....
THE CONDITIONS of this obligation are:

- 1) If the bidder withdraws his Bid during the period of bid validity specified by the Bidder on the Bid Form; or
- 2) If the Bidder refuses to accept the correction of errors in his bid; or
- 3) If the Bidder having been notified of the acceptance of his bid by the Employer during the period of Bid Validity
 - (i) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders when required or
 - (ii) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders.

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of any of the above conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including two hundred and fifty-five days (255) after the date of bid submission, as stated in the Instructions to Bidders.

At the request of the Employer the Bid validity period may be extended by mutual agreement between the Employer and the Bidder and we undertake to extend the validity of this surety accordingly without you having to inform us of such an extension of the Bid validity period if within this period the Bidder has been notified of the acceptance of his Bid. This Surety shall remain valid up to the time the Contract Agreement has been executed.

AUTHORIZED SIGNATURE AND SEAL OF THE BANK/INSURANCE COMPANY

..... DATE

NAME OF SIGNATORY

TITLE OF SIGNATORY

NAME OF THE WITNESS

SIGNATURE OF THE WITNESS: DATE

ADDRESS OF THE WITNESS

Below is the list of all insurance companies authorized to transact miscellaneous class of insurance business and by extension bid bonds business:

- 1) APA Insurance Company Ltd
- 2) Africa Merchant Assurance Company Ltd
- 3) British American Insurance Company Ltd
- 4) Cannon Assurance Ltd
- 5) Chartis Kenya Insurance Co. Ltd
- 6) Concord Insurance Co. Ltd
- 7) CIC Insurance Group Ltd
- 8) Corporate Insurance Co. Ltd
- 9) Fidelity Shield Insurance Co. Ltd
- 10) First Assurance Co. Ltd
- 11) GA Insurance Limited
- 12) Gateway Insurance Co. Ltd
- 13) Geminia Insurance Co. Ltd
- 14) Insurance Company of East Africa Ltd
- 15) Intra Africa Assurance Co. Ltd
- 16) Invesco Insurance Co. Ltd
- 17) Kenindia Assurance Co. Ltd
- 18) Kenya Orient Insurance Co. Ltd
- 19) Lion of Kenya Insurance Co. Ltd
- 20) Madison Insurance Co. Ltd
- 21) Mayfair Insurance Co. Ltd
- 22) Mercantile Insurance Co. Ltd
- 23) Occidental Insurance Co. Ltd
- 24) Pacis Insurance Co. Ltd
- 25) Phoenix East Africa Assurance Co. Ltd
- 26) Real Insurance Co. Ltd
- 27) Takaful Insurance of Africa Ltd
- 28) Tausi Assurance Co. Ltd
- 29) The Monarch Insurance Co. Ltd
- 29) The Heritage Insurance Co. Ltd
- 30) The Kenya Alliance Insurance Co. Ltd
- 31) Trident Insurance Co. Ltd
- 32) UAP Insurance Co. Ltd
- 33) Xplico Insurance Co. Ltd
- 34) Jubilee Insurance Company of Kenya Ltd.

SECTION 4: INSTRUCTIONS TO BIDDERS

SECTION 4: INSTRUCTIONS TO BIDDERS

TABLE OF CONTENTS

A. GENERAL	15
1 SCOPE OF BID	15
2 SOURCE OF FUNDS	15
3 CORRUPT PRACTICES	15
4 ELIGIBLE BIDDERS	15
5 QUALIFICATION OF THE BIDDER	16
6 One bid per bidder	17
7 Cost of Bidding	17
8 Site Visit	17
B. BIDDING DOCUMENTS.....	17
9 Contents of Bidding Documents.....	17
10 Clarification of Bidding Documents	18
11 Amendment of Bidding Documents.....	18
C. PREPARATION OF BIDS.....	18
12 Language of Bid.....	18
13 Documents Comprising the Bid	18
14 Bid Prices	18
15 CURRENCIES OF BID AND PAYMENT	19
16 Bid Validity	19
17 Bid Security.....	19
18 No Alternative Offers.....	20
19 PRE-BID MEETING	20
20 Format and Signing of Bids.....	20
D. SUBMISSION OF BIDS.....	20
21 Sealing and Marking of Bids	20
22 Deadline for Submission of Bids	21
23 LATE BIDS.....	21
24 Modification, SUBSTITUTION and Withdrawal of Bids	21
E. BID OPENING AND EVALUATION	21
25 Bid Opening	21
26 Process to be confidential	22
27 Clarification of bids and contacting of the employer	22
28 Examination of bids and determination of responsiveness	22
29 Correction of errors	22
30 EVALUATION AND COMPARISON OF BIDS	23
F. AWARD OF CONTRACT	23
31 Award	23
32 Employer's right to accept any bid and to reject any or all bids	23
33 Notification of award	23
34 Signing of agreement.....	24
35 PERFORMANCE SECURITY.....	24
36 Contract effectiveness	24

CONDITIONS OF BID AND INSTRUCTIONS TO BIDDERS

A. GENERAL

1 SCOPE OF BID

The Employer, as defined in the Conditions of Contract Part II hereinafter “the Employer” wishes to receive bids for the construction of works as described in Section 1, clause 102 of the Special Specifications –“Location and extent of the Works”

The successful bidder will be expected to complete the Works within the period stated in the Appendix to Bid from the date of commencement of the Works.

Throughout these bidding documents, the terms bid and BID and their derivatives (bidder/Bidder, bid/Bided, bidding/Bidding etc) are synonymous, and day means calendar day. Singular also means plural.

2 SOURCES OF FUNDS

The source of funding is the **Government of Kenya**

3 CORRUPT PRACTICES

The Government requires that the bidders, suppliers, sub-contractors and supervisors observe the highest standard of ethics during the procurement and execution of such contracts. in this pursuit of this policy, the government;

- (a) Defines for the purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in the execution, and
 - (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer, and includes collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Employer of the benefits of free and open competition
- (b) Will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the Contract, and
- (c) Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a government contract if it at any times determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government financed contract.

4 ELIGIBLE BIDDERS

This invitation to bid is open to all Bidders who are legally registered or incorporated in the Republic of Kenya as of the time of bid submission. Registration with Kenya Rural Roads Authority as a Contractor is mandatory.

Bidders shall not have a conflict of interest. Bidders shall be considered to have conflict of interest, if they participated as a consultant in the preparation of the design, documentation or technical specifications of the works that are the subject of this bidding other than as far as required by the Employer.

A firm that is under a declaration of ineligibility by the Employer in accordance with clause 3, at the date of submission of the bid or thereafter, shall be disqualified.

Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.

5 QUALIFICATION OF THE BIDDER

5.1 As a minimum, Bidders shall provide latest information set out below:

- (a) Certified Certificate of Incorporation by Registrar of Companies.
- (a) Current (dated within 12 Months before date of opening) Certified CR12 Certificate from the Registrar of Companies. This should be provided with Identification Documents of Directors. (ID or Passport) or certificate of registration, CR12 and IDS where the Directors are artificial persons.
- (b) Certified Current Single Business permit.
- (c) VAT/PIN Certificate.
- (d) Valid Tax Compliance Certificate.
- (e) Provide a Tender Security of KShs. 500,000 in the required format. The tender guarantee (security) will remain in force up to and including two hundred and fifty five (255) days after the date of bid submission.
- (f) Registration with National Construction Authority “NCA 3, 4 & 5 ” and a current valid NCA practicing licence.
- (g) Similar previous experience
- (h) Declaration of current On-going works (The total value of remaining works (based on certified IPC) for the ongoing contracts must not exceed KShs. Five Hundred Million)
- (i) Equipment holding
- (j) Professional and Technical personnel
- (k) Submission of audited accounts or if not required by the law of the applicant's country, other financial statements acceptable to the Employer, for the last three [3] years for tenders to demonstrate: the current soundness of the applicant's financial position and its prospective long-term profitability, and capacity to have a cash flow amount, turnover and working capital as stipulated in the evaluation criteria.
- (l) Current work load
- (m) Litigation history
- (n) Work Methodology
- (o) Proof of Bank Account in the Tenderers' Name
- (p) Properly filled, signed and stamped confidential Business Questionnaire.
- (q) Properly filled, signed and stamped all schedules of supplementary information.
- (r) Submit a written power of attorney authorizing the signatory of the bid to commit the bidder.
- (s) Duly filled-in the Form of Bid and Appendix to form of bid
- (t) Priced Bills of Quantities (Alterations must be counter signed by the Authorized signatory) and stamped
- (u) Serialization of all the pages (this should be in the format of 1,2,3,4,5.....) from the first page to the last page.
- (v) Attach a Pre Tender Site Visit Certificate duly endorsed by the Authorized KeRRA Staff.

1.2 Bidders shall also submit proposals of work methods and schedule in sufficient detail to demonstrate the adequacy of the bidders proposals to meet the technical specifications and the completion time referred to in Clause **Error! Reference source not found.** above.

6 ONE BID PER BIDDER

Each bidder shall submit only one bid. A bidder who submits or participates in more than one bid will be disqualified.

7 COST OF BIDDING

The bidder shall bear all costs associated with the preparation and submission of his bid and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

8 SITE VISIT

The bidder is informed that pre-BID site visit is mandatory and he/she shall examine the Site of Works and its surroundings and obtain for himself all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the site shall be at the bidder's own expense.

The bidder and any of his personnel or agents will be granted permission by the Employer to enter its premises and lands for the purpose of such inspection, but only on the express condition that the bidder, its personnel and agents, will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for personal injury (whether fatal or otherwise), loss of or damage to property and any other loss, damage, costs and expenses however caused, which but for the exercise of such permission would not have arisen.

The Employer will conduct a Site Visit concurrently with the pre-bid meeting referred to in Clause 19. **The site visit** is mandatory for all bidders. Failure to attend the site visit by any bidder will lead to disqualification of his /her bid.

B. BIDDING DOCUMENTS

9 CONTENTS OF BIDDING DOCUMENTS

The set of documents comprising the BID includes the following together with any addenda issued in accordance with Clause 11:

- (a) Invitation to Bid
- (b) Instructions to bidders
- (c) Qualification Criteria
- (d) Conditions of Contract - Part II
- (e) Conditions of Contract - Part I
- (f) Standard Specifications
- (g) Special Specifications
- (h) Form of Bid, Appendix to Form of Bid and Bid Security
- (i) Bills of Quantities
- (j) Schedules of Supplementary information
- (k) Form of Contract Agreement
- (l) Form of Performance Security
- (m) Drawings
- (n) BID addenda (BID notices)

The bidder is expected to examine carefully all instructions, conditions, forms, terms, specifications and drawings in the bidding documents. Failure to comply with the requirements of bid submission will be at the bidder's own risk. Bids that are not substantially responsive to the requirements of the bidding documents will be rejected.

10 CLARIFICATION OF BIDDING DOCUMENTS

The prospective bidder requiring any clarification of the bidding documents may notify the Employer in writing or by cable (hereinafter the term cable is deemed to include telex and facsimile) at the Employer's mailing address indicated in the Bidding Data.

The Employer will respond in writing to any request for clarification that he receives earlier than 7 days prior to the deadline for the submission of bids. Copies of the Employer's response to queries raised by bidders (including an explanation of the query but without identifying the sources of the inquiry) will be sent to all prospective bidders who will have purchased the bidding documents.

11 AMENDMENT OF BIDDING DOCUMENTS

At any time prior to the deadline for submission of bids, the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by issuing subsequent Addenda.

The Addendum thus issued shall be part of the bidding documents pursuant to Sub-Clause 10.1 and shall be communicated in writing or cable to all purchasers of the bidding documents. Prospective bidders shall promptly acknowledge receipt of each Addendum in writing or by cable to the Employer.

In order to afford prospective bidders reasonable time in which to take an Addendum into account in preparing their bids, the Employer may, at his discretion, extend the deadline for the submission of bids in accordance with Clause 22.

C. PREPARATION OF BIDS

12 LANGUAGE OF BID

12.1 The bid prepared by the bidder and all correspondences and documents relating to the bid exchanged by the bidder and the Employer shall be written in the English Language. Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an appropriate translation of pertinent passages in the above stated language. For the purpose of interpretation of the bid, the English language shall prevail.

13 DOCUMENTS COMPRISING THE BID

The bid to be prepared by the bidder shall comprise:

- (a) Duly filled-in the Form of Bid and Appendix to form of bid;
- (b) Bid security;
- (c) Priced Bills of Quantities;
- (d) Work Methodology
- (e) Schedules of information
- (f) Qualification Criteria
- (g) Any other materials required to be completed and submitted in accordance with the Instructions to Bidders embodied in these bidding documents.

These Forms, Bills of Quantities, work methodology and Schedules provided in these bidding documents shall be used without exception (subject to extensions of the Schedules in the same format).

14 BID PRICES

Unless explicitly stated otherwise in the bidding documents, the contract shall be for the whole works as described in Sub-Clause 1.1, based on the basic unit rates and prices in the Bill of Quantities submitted by the bidder.

The bidder shall fill in rates and prices for all items of Works described in the Bills of Quantities, whether quantities are stated or not.

All duties, taxes (excluding VAT) and other levies payable by the Contractor under the Contract, or for any other cause as of the date 28 days prior to the deadline for submission of bids, shall be included in the rates and prices and the total Bid Price submitted by the bidder.

Unless otherwise provided in the Bidding Data and Conditions of Particular Application the rates and prices quoted by the bidder are subject to adjustment during the performance of the contract in accordance with the provisions of Clause 70 of the Conditions of Contract.

15 CURRENCIES OF BID AND PAYMENT

Bids shall be priced in Kenya Shillings.

16 BID VALIDITY

The bid shall remain valid and open for acceptance for a period of 255 days from the specified date of bid opening specified in Clause 22.

In exceptional circumstances prior to expiry of the original bid validity period, the Employer may request that the bidders extend the period of validity for a specified additional period. The request and the responses thereto shall be made in writing or by cable. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required nor permitted to modify his bid, but will be required to extend the validity of his bid security for the period of the extension, and in compliance with Clause 17 in all respects.

17 BID SECURITY

The bidder shall furnish, as part of his bid, a bid security in the amount shown in the Appendix to Form of Bid.

The bid security shall be in the form of unconditional bank guarantee from a reputable bank selected by the bidder and located in Kenya, or insurance bond issued by a bonding or insurance company acceptable to the Employer and approved by the PPOA. The format of the Bid Security shall be in accordance with bid security included in Section 1.

The bid security shall remain valid for a period of 225 after the bid opening date, and beyond any period of extension subsequently requested under Sub-Clause 16.2.

Any bid not accompanied by an acceptable bid security will be rejected by the Employer as non- responsive.

The bid securities of unsuccessful bidders will be discharged/ returned as promptly as possible but not later than 28 days after the expiration of the period of bid security validity.

The bid security of the successful bidder will be discharged upon the bidder signing the Contract Agreement and furnishing the required performance security.

The bid security may be forfeited:

- (a) if a bidder withdraws his bid, except as provided in Sub-Clause 24.2.
- (b) if the bidder does not accept the correction of any errors, pursuant to Sub-Clause 29.2 or
- (c) in the case of a successful bidder, if he fails within the specified time limit to:
 - (i) sign the Contract Agreement or
 - (ii) furnish the necessary performance security.

18 NO ALTERNATIVE OFFERS

The bidder shall submit one offer, which complies fully with the requirements of the bidding documents.

The bid submitted shall be solely on behalf of the bidder. A bidder who submits or participates in more than one bid will be disqualified.

A price or rate shall be entered in **indelible ink** against every item in the Bills of Quantities with the exception of items which already have Prime Cost or Provisional sums affixed thereto. The bidders are reminded that no “nil” or “included” rates or “lump-sum” discounts will be accepted. The rates for various items should include discounts if any. Bidders who fail to comply will be disqualified.

19 PRE-BID MEETING

The bidders designated representative is invited to attend a pre-bid site visit and meeting, which will take place concurrently at the time, date and venue indicated on the invitation to tender notice. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

The bidder is requested as far as possible to submit any questions in writing or by cable, to reach the Employer not later than one week before the meeting. It may not be practicable at the meeting to answer questions received late, but questions and responses will be transmitted in accordance with the Minutes of the meeting, including the text of the questions raised and the responses given together with any responses prepared after the meeting, will be transmitted without delay to all purchasers of the bidding documents. Any modification of the bidding documents listed in Sub-Clause 8.1, which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 10 or through the minutes of the pre-bid meeting.

20 FORMAT AND SIGNING OF BIDS

The bidder **shall** prepare one original of the documents comprising the bid as described in Clause 13 of these Instructions to Bidders, bound with the section containing the Form of Bid and

Appendix to Bid, and clearly marked “ORIGINAL”. In addition, the bidder shall submit two copies of the bid clearly marked “COPIES”. In the event of discrepancy between them, the original shall prevail.

The original and copies of the bid shall be typed or written in **indelible ink** (in the case of copies, photocopies are also acceptable) and shall be signed by a person or persons duly authorized to sign on behalf of the bidder pursuant to Sub-Clause 5.1(a). The person or persons signing the bid shall initial all pages of the bid where entries or amendments have been made.

The bid shall be without alterations, omissions or conditions except as necessary to correct errors made by the bidder, in which case such corrections shall be initialled by the person or persons signing the bid.

D. SUBMISSION OF BIDS

21 SEALING AND MARKING OF BIDS

The bidder shall seal the original and each copy of the bid in separate envelopes duly marking the envelopes “ORIGINAL” and “COPY”. The envelopes shall then be sealed in an outer separate envelope.

The inner and outer envelopes shall be:

- (a) addressed to the Employer at the address provided in the Appendix to Form of Bid.

(b) bear the name and identification number of the contract. In addition to the identification required in sub-Clause 21.2, the inner envelopes shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to Clause 23.1, and for matching purposes under Clause 24.

If the outer envelope is not sealed and marked as instructed above, the Employer will assume no responsibility for the misplacement or premature opening of the bid. If the outer envelope discloses the bidder's identity the Employer will not guarantee the anonymity of the bid submission, but this shall not constitute grounds for rejection of the bid.

22 DEADLINE FOR SUBMISSION OF BIDS

Bids must be received by the Employer at the address specified in Sub Clause 21.2 not later than the time and date specified in the letter of invitation to bid or as amended in addenda.

The Employer may, at his discretion, extend the deadline for the submission of bids through the issue of an Addendum in accordance with Clause 11 in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline shall thereafter be subject to the new deadline as extended.

23 LATE BIDS

Any bid received by the Employer after the deadline for submission of bids prescribed in Clause 22 will be returned unopened to the bidder.

24 MODIFICATION, SUBSTITUTION AND WITHDRAWAL OF BIDS

The bidder may modify, substitute or withdraw his bid after bid submission, provided that written notice of modification or withdrawal is received by the Employer prior to the prescribed deadline for submission of bids.

The bidder's modification, substitution or withdrawal notice shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause 21, with the outer and inner envelopes additionally marked "MODIFICATION" or "WITHDRAWAL" as appropriate.

No bid may be modified subsequent to the deadline for submission of bids, except in accordance with Sub-Clause 28.1.

Any withdrawal of a bid during the interval between the deadline for submission of bids and expiration of the period of bid validity specified in Clause 17 may result in the forfeiture of the bid security pursuant to Sub-Clause 17.6.

E. BID OPENING AND EVALUATION

25 BID OPENING

The Employer will open the bids, including withdrawals and modifications made pursuant to Clause 24, in the presence of bidders' designated representatives who choose to attend, at the time, date and location specified in the letter of invitation to bid or as amended in the addenda. The bidders' representatives who are present shall sign a register evidencing their attendance.

Envelopes marked "WITHDRAWAL" and "SUBSTITUTION" shall be opened first and the name of the bidder shall be read out. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause 24 shall not be opened.

The bidder's name, the Bid Prices, including any bid modifications and withdrawals, the presence (or absence) of bid security, and any such details as the Employer may consider appropriate, will be announced by the Employer at the opening. Subsequently, all envelopes marked

“MODIFICATION” shall be opened and the submissions therein read out in appropriate detail. No bid shall be rejected at bid opening except for late bids pursuant to Clause 23.

The Employer shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with Sub-Clause 25.3.

Bids not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances.

26 PROCESS TO BE CONFIDENTIAL

Information relating to the examination, evaluation and comparison of bids, and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful bidder has been announced. Any effort by a bidder to influence the Employer's processing of bids or award decisions may result in the rejection of the bidder's bid.

27 CLARIFICATION OF BIDS AND CONTACTING OF THE EMPLOYER

To assist in the examination, evaluation, and comparison of bids, the Employer may, at its discretion, ask any bidder for clarification of its bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the bids in accordance with Clause 29.

Subject to Sub-Clause 26.1, no bidder shall contact the Employer on any matter relating to its bid from the time of the bid opening to the time the contract is awarded. If the bidder wishes to bring additional information to the notice of the Employer, it should do so in writing.

Any effort by the bidder to influence the Employer in the Employer's bid evaluation, bid comparison or contract award decisions may result in the rejection of the bidder's bid.

28 EXAMINATION OF BIDS AND DETERMINATION OF RESPONSIVENESS

Prior to the detailed evaluation of bids, the Employer will determine whether each bid (a) has been properly signed; (b) is accompanied by the required securities; (c) is substantially responsive to the requirements of the bidding documents; and (d) provides any clarification and/or substantiation that the Employer may require to determine responsiveness pursuant to Sub-Clause 28.2.

A substantially responsive bid is one that conforms to all the terms, conditions, and specifications of the bidding documents without material deviation or reservation and has a valid BID bank guarantee. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the works; (b) which limits in any substantial way, inconsistent with the bidding documents, the Employer's rights or the bidder's obligations under the contract; or (c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

If a bid is not substantially responsive, it will be rejected by the Employer and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

29 CORRECTION OF ERRORS

Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:

- (a) Where there is a discrepancy between the amounts in figures and in words, the amount in words as indicated in the Form of Bid will govern; and
- (B) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the line item total will govern and the unit rate will be adjusted accordingly in such a way that the BID Sum remains unaltered.

Any error by the Bidder in pricing or extending the Bills of Quantities or carrying forward to the summary or BID Sum, shall be corrected in such a way that the BID Sum remains unaltered and the Bidder shall within seven (7) days after issuance of the written notice by the Engineer, or such further time as the Engineer may allow, correct his BID in such a manner as may be agreed or directed by the Engineer failing which the BID may be absolutely rejected and the Bid Security forfeited in accordance with Sub-Clause 17.6. Any discrepancy that results in variation of more than 15% of the corrected figure shall result in rejection of the Tender.

30 EVALUATION AND COMPARISON OF BIDS

The Employer will then evaluate and compare only the bids determined to be substantially responsive in accordance with Clauses 28 and 29. Any variation, deviation and alternative offers will be rejected and shall not be taken into account in bid evaluation.

If the bid, which results in the lowest Evaluated Bid Price is seriously unbalanced or front loaded in relation to the Engineer's estimate of the items of work to be performed under the contract, the Employer may require the bidder to produce detailed price analyses for any or all items of the Bills of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, taking into consideration the schedule of estimated contract payments, the Employer may require that the amount of the Performance Security set forth in Clause 35 be increased at the expense of the bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful bidder under the contract.

Preference shall be applied in accordance with clause 157 of the Public Procurement and Asset Disposal Act 2015 and Clause 28 of the accompanying regulations of 2006 as revised in legal notice No. 58 of 8th June 2011.

F. AWARD OF CONTRACT

31 AWARD

Subject to Clause 32, the Employer will award the contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has offered the lowest Evaluated Bid Price pursuant to Clause 30, provided that such bidder has been determined to be (a) eligible in accordance with the provisions of Sub-Clause 4.1, and (b) qualified in accordance with the provisions of Clause 5.

32 EMPLOYER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Employer's action.

33 NOTIFICATION OF AWARD

Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder in writing or by cable confirmed by registered letter that its bid has been accepted. This letter (hereinafter and in the Conditions of Contract called "Letter of Acceptance") shall specify the sum, which the Employer will pay the Contractor in consideration of the execution and completion of the works and the remedying of any defects

therein by the Contractor as prescribed by the contract (hereinafter and in the Conditions of Contract called "the Contract Price").

At the same time that the Employer notifies the successful bidder that his bid has been accepted, the Employer shall notify the other bidders that their bids have been unsuccessful and that their bid securities will be returned as promptly as possible, in accordance with Sub-Clause 17.4.

34 SIGNING OF AGREEMENT

At the same time that the Employer notifies the successful bidder that its bid has been accepted, the Employer will send the bidder the Agreement in the form provided in the bidding documents, incorporating all agreements between the parties.

After 14 days of receipt of the Agreement, the successful bidder shall sign the Form of Agreement and return it to the Employer, together with the required performance security.

35 PERFORMANCE SECURITY

After 14 days of receipt of the Letter of Acceptance from the Employer, the successful bidder shall furnish to the Employer a performance security in the form stipulated in the Conditions of contract. The form of performance security provided in Section 8 of the bidding documents shall be used.

The successful bidder shall provide a performance security in the form of an Unconditional Bank Security from a reputable bank located in Kenya.

Failure by the successful Bidder to lodge the required Performance Guarantee within 60 days of the receipt of the Letter of Acceptance shall constitute sufficient grounds for the annulment of the Award and forfeiture of the Bid Surety; in which event the Employer may make the award to another bidder or call for new bids.

36 CONTRACT EFFECTIVENESS

The Contract will be effective only upon signature of the Agreement between the Contractor and the Employer.

SECTION 5: QUALIFICATION CRITERIA

SECTION 5: QUALIFICATION CRITERIA

This Section contains all the factors, methods and criteria that the Employer shall use to evaluate applications. The information to be provided in relation to each factor and the definitions of the corresponding terms are included in the respective Application Forms.

Contents

1. Eligibility	25
2. Historical Contract Non-Performance	26
3. Financial Situation	26
4. Experience	27
5. Equipment holding	28
6. Current Commitment	29
7. Site Staff	29

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Party	One Party	
1. Eligibility							
1.1	Eligibility	Nationality in accordance with Sub-Clause 4.1.	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N / A	Section 7, Schedule 1
1.2	Conflict of Interest	No conflicts of interest in Sub-Clause 4.2.	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N / A	Section 7, Schedule 1
1.3	Employer Ineligibility	Not having been declared ineligible by the Employer, as described in Sub-Clause 4.3.	Must meet requirement	Existing JV must meet requirement	Must meet requirement	N / A	Section 7, Schedule 1
1.4	Incorporation & Registration	Pursuant to sub clause 4.1 the following shall be provided; <ul style="list-style-type: none"> - Certified Copy of Certificate of incorporation to show that the applicant is a registered company and legally authorised to do business in Kenya - Proof of registration with the National Construction Authority Category NCA 3, 4 and 5 only for Road Works. 	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Section 7, Schedule 1

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Party	One Party	
2. Historical Contract Non-Performance							
2.1	History of Non-Performing Contracts	Non-performance of a contract did not occur within the last five (5) years prior to the deadline for application submission based on all information on fully settled disputes or litigation. A fully settled dispute or litigation is one that has been resolved in accordance with the Dispute Resolution Mechanism under the respective contract, and where all appeal instances available to the applicant have been exhausted.	Must meet requirement by itself or as party to past or existing JV	N / A	Must meet requirement by itself or as party to past or existing JV	N / A	Section 7, Schedule 6
2.2	Pending Litigation	All pending litigation shall in total not represent more than thirty percent (30%) of the Applicant's net worth and shall be treated as resolved against the Applicant.	Must meet requirement by itself or as party to past or existing JV	N / A	Must meet requirement by itself or as party to past or existing JV	N / A	Section 7, Schedule 11

3. Financial Situation

3.1	Financial Performance	Submission of audited balance sheets or if not required by the law of the applicant's country, other financial statements acceptable to the Employer, for the last three [3] years to demonstrate: (a) the current soundness of the applicants financial position and its prospective long term profitability, and	Must meet requirement (a) Must meet requirement	N / A (a) N / A	Must meet requirement (a) Must meet requirement	N / A (a) N / A	Section 7, Schedule 10
-----	------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------	------------------------	--------------------------------------------------------	------------------------	------------------------

Qualification Criteria

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Party	One Party	
		(b) capacity to have a cash flow amount of minimum KShs 30 Million equivalent working capital	(b) Must meet requirement	(b) Must meet requirement	(b) N / A	(b) N / A	
3.2	Average Annual Construction Turnover	Minimum average annual construction turnover of KShs 100 Million calculated as total certified payments received for contracts in progress or completed, within the last three [(3)] years	Must meet requirement	Must meet requirement	Must meet $((100-50)/(n-1))\%$ of the requirement where n= number of joint venture members	Must meet fifty (50%) percent of the of the requirement	Section 7, Schedule 10
4. Experience							

4.1	General Construction Experience	Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last Five [5] years prior to the applications submission deadline	Must meet requirement	N / A	Must meet requirement	N / A	Section 7, Schedule 6
4.2(a)	Specific Construction Experience	Participation as contractor, management contractor or subcontractor, in at least two (2) contracts within the last five (5) years, each with a value of at least KShs. 50 Million , that have been successfully and substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section 6, Scope of Works	Must meet requirement	Must meet requirement	N / A	Must meet requirement for one contract	Section 7, Schedule 6

Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Party	One Party	
4.2(b)		b) For the above or other contracts executed during the period stipulated in 4.2(a) above, a minimum construction experience in at least one (1) of: - Road construction using bitumen. - Major gravelling and drainage works including bridges and Box Culverts	Must meet requirements	Must meet requirement	N / A	Must meet requirement	Section 7, Schedule 6
4.3	Work Methodology	Submission of a brief work methodology in accordance with Sub-Clause 5.3	Should demonstrate understanding of the scope of works and other general requirements	Should demonstrate understanding of the scope of works and other general requirements	N/A	N/A	Section 7, Schedule 12

5. Equipment holding

5.1	Minimum number of Equipment	The bidder must indicate the minimum the core plant and equipment considered by the company to be necessary for undertaking the project together with proof of ownership	Must meet the requirement	Must meet requirement	Must meet requirement	N/A	Section 7, Schedule 5
-----	-----------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------	-----------------------	-----------------------	-----	-----------------------

Qualification Criteria			Compliance Requirements			Documentation
				Joint Venture		Submission

No.	Subject	Requirement	Single Entity	All Parties Combined	Each Party	One Party	Requirements
6. Current Commitment							
6.1	On-going contracts	The total value of remaining works (<i>based on certified IPC</i>) for the ongoing contracts with the Authority, must not exceed KShs. 500 Million	Must meet requirements	Must meet requirements	Must meet ((100-50)/(n-1))% of the requirement where n= number of joint venture members	N/A	Section 7, Schedule 7
7. Site Staff							
1	Site Agent	The site staff shall possess minimum levels set below; Qualification = Bachelors in Civil Eng = Reg. Eng General Experience = 7 yrs Specific Experience = 5 Yrs	Must requirements meet	Must meet requirements	N/A	N/A	Section 7, Schedule 5
2	Dep. Site Agent/ Site Engineer	Qualification = Bachelors in Civil Eng General Experience = 5 yrs Specific Experience = 3 Yrs					
	Senior Foreman	Qualification = Diploma. Civil Eng General Experience = 7 yrs Specific Experience = 5 Yrs					
3	Site Surveyor	Qualification = Diploma, Survey General Experience = 7 yrs Specific Experience = 5 Yrs					
	2 Foremen	Qualification = Certificate Civil Eng General Experience = 7 yrs Specific Experience = 5 Yrs					

SECTION 6: CONDITIONS OF CONTRACT

SECTION 6A: CONDITIONS OF CONTRACT PART I: GENERAL CONDITIONS OF CONTRACT

The Conditions Of Contract Part 1 – General Conditions shall be those forming Part 1 of the Conditions of Contract for works of Civil engineering construction Fourth Edition 1987, reprinted in 1992 with further amendments, prepared by the Federation Internationale des Ingenieurs Conseils (FIDIC)

Copies of the FIDIC Conditions of Contract can be obtained from:

FIDIC Secretariat

P.O.Box 86

1000 Lausanne 12

Switzerland

Fax: 41 21 653 5432

Telephone: 41 21 653 5003

E-mail: fidic@pobox.com

WWW: <http://www.fidic.org>

Or

The Association of Consulting Engineers of Kenya

P.O Box 72643-00200

NAIROBI

The Professional Centre

Parliament Road

Nairobi-Kenya

Tel: 2249085

SECTION 6B: CONDITIONS OF CONTRACT PART II: (CONDITIONS OF PARTICULAR APPLICATION)

The following Conditions of Particular Application shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The Particular Condition is preceded by the corresponding clause number of the General Conditions to which it relates.

CONTENTS

CONDITIONS OF CONTRACT PART II (CONDITIONS OF PARTICULAR APPLICATION)

SUB-CLAUSE 1.1 – DEFINITIONS	34
SUB-CLAUSE 2.1 - ENGINEER'S DUTIES AND AUTHORITY.	34
SUB-CLAUSE 5.1 - LANGUAGE AND LAW	34
SUB-CLAUSE 5.2 – PRIORITY OF CONTRACT DOCUMENTS	34
SUB-CLAUSE 10.1 - PERFORMANCE SECURITY	34
SUB-CLAUSE 10.2 - VALIDITY OF PERFORMANCE SECURITY	35
SUB-CLAUSE 10. 3- CLAIMS UNDER PERFORMANCE SECURITY.....	35
SUB-CLAUSE 10. 4- COST OF PERFORMANCE SECURITY	35
SUB-CLAUSE 11. 1- INSPECTION OF SITE	35
SUB-CLAUSE 11.2 - ACCESS TO DATA	35
SUB-CLAUSE 14.1 - PROGRAM TO BE SUBMITTED	35
SUB-CLAUSE 14.3 - CASH FLOW ESTIMATE.....	36
SUB-CLAUSE 15.1 - CONTRACTOR'S SUPERINTENDENCE	36
SUB-CLAUSE 15.2 - LANGUAGE ABILITY AND QUALIFICATIONS OF CONTRACTOR'S AUTORISED AGENT	37
SUB-CLAUSE 16.2 - ENGINEER AT LIBERTY TO OBJECT	37
SUB-CLAUSE 16.3 - QUALIFICATION AND LANGUAGE ABILITY OF SUPERINTENDING STAFF	37
SUB-CLAUSE 16.4 – EMPLOYMENT OF LOCAL PERSONNEL	37
SUB-CLAUSE 19.1 - SAFETY, SECURITY AND PROTECTION OF THE ENVIRONMENT	37
SUB-CLAUSE 20.4 - EMPLOYERS RISKS	38
SUB-CLAUSE 21.1 - INSURANCE OF WORKS AND CONTRACTOR 'S EQUIPMENT ...	38
SUB-CLAUSE 21.2 – SCOPE OF COVER	38
SUB-CLAUSE 21.4 - EXCLUSIONS	38
SUB-CLAUSE 23.2 – MINIMUM AMOUNT OF INSURANCE	39
SUB-CLAUSE 25.1 – EVIDENCE AND TERMS	39
SUB-CLAUSE 25.6 – INSURANCE NOTICES	39
SUB-CLAUSE 25.7 – NOTIFICATION TO INSURERS	39
SUB-CLAUSE 28.2 – ROYALTIES	39
SUB-CLAUSE 29.1 – INTERFERENCE WITH TRAFFIC	39
SUB-CLAUSE 29.2 – REINSTATEMENT AND COMPENSATION FOR DAMAGES TO PERSONS AND PROPERTY	39
SUB-CLAUSE 34.2 – CONDITIONS OF EMPLOYMENT OF LABOUR	40
SUB-CLAUSE 34.3 – FAIR WAGES	40
SUB-CLAUSE 34.4 – BREACH OF FAIR WAGES CLAUSE	41
SUB-CLAUSE 34.5 – RECRUITMENT OF UNSKILLED LABOUR	41
SUB-CLAUSE 34.6 – COMPENSATION FOR INJURY.....	41
SUB-CLAUSE 34.7 – LABOUR STANDARD	41

SUB-CLAUSE 34.8 – MINORITIES AND PERSONS WITH DISABILITIES	41
SUB-CLAUSE 35.2 – RECORDS OF SAFETY AND HEALTH	41
SUB-CLAUSE 35.3 – REPORTING OF ACCIDENTS	41
SUB-CLAUSE 41.1 – COMMENCEMENT OF WORKS	42
SUB-CLAUSE 43.1 – TIME FOR COMPLETION	42
SUB-CLAUSE 44.1 – EXTENSION OF TIME FOR COMPLETION	42
SUB-CLAUSE 45.1 – RESTRICTION ON WORKING HOURS	42
SUB-CLAUSE 47.2 – REDUCTION OF LIQUIDATED DAMAGES	42
SUB-CLAUSE 48.2 – TAKING OVER OF PARTS OF WORKS	42
SUB-CLAUSE 52.1 – VALUATION AND VARIATIONS.....	43
SUB-CLAUSE 52.4 – DAYWORKS	43
SUB-CLAUSE 54.1 – CONTRACTORS EQUIPMENT, TEMPORARY WORKS AND MATERIALS: EXCLUSIVE USE FOR THE WORKS	43
SUB-CLAUSE 55.2 – OMISSIONS OF QUANTITIES	43
SUB-CLAUSE 58.4 – PROVISIONAL ITEMS	43
CLAUSE 60: – CERTIFICATES AND PAYMENTS.....	43
SUB-CLAUSE 60.1 – MONTHLY STATEMENT	43
SUB-CLAUSE 60.2 - INTERIM PAYMENT CERTIFICATE	44
SUB-CLAUSE 60.3 – PAYMENT OF RETENTION MONEY	44
SUB-CLAUSE 60.4 – CORRECTION OF CERTIFICATES	44
SUB-CLAUSE 60.5 – STATEMENT AT COMPLETION	45
SUB-CLAUSE 60.6 – FINAL STATEMENT	45
SUB-CLAUSE 60.7 – DISCHARGE	45
SUB-CLAUSE 60.8 – FINAL PAYMENT CERTIFICATE	45
SUB-CLAUSE 60.9 – CESSATION OF EMPLOYERS LIABILITY	45
SUB-CLAUSE 60.10 – TIME FOR PAYMENT	46
SUB-CLAUSE 60.11 – CURRENCY OF PAYMENT	46
SUB-CLAUSE 60.12 – ADVANCE PAYMENT	46
SUB-CLAUSE 60.13 - MATERIALS FOR PERMANENT WORKS	47
SUB-CLAUSE 67.1 – ENGINEER’S DECISION.....	47
SUB-CLAUSE 67.2 – AMICABLE SETTLEMENT	48
SUB-CLAUSE 67.3(d) – ARBITRATION	51
SUB-CLAUSE 68.2 – NOTICES TO EMPLOYER AND ENGINEER	51
SUB-CLAUSE 68.4 – CORRESPONDENCES	51
CLAUSE 69 – DEFAULT OF EMPLOYER	51
CLAUSE 70 – CHANGES IN COST AND LEGISLATION.....	51
SUB-CLAUSE 70.1 - PRICE ADJUSTMENT	52
SUB-CLAUSE 70.2 - OTHER CHANGES IN COST	52
SUB-CLAUSE 70.3 - ADJUSTMENT FORMULAE.....	Error! Bookmark not defined.
SUB-CLAUSE 70.4 - SOURCES OF INDICES AND WEIGHTINGS	Error! Bookmark not defined.
SUB-CLAUSE 70.5 - BASE, CURRENT, AND PROVISIONAL INDICES	Error! Bookmark not defined.
SUB-CLAUSE 70.6 - ADJUSTMENT AFTER COMPLETION	52
SUB-CLAUSE 70.7 - WEIGHTINGS	Error! Bookmark not defined.
SUB-CLAUSE 70.8 - SUBSEQUENT LEGISLATION	52
CLAUSE 72 – RATES OF EXCHANGE COST.....	52
CLAUSE 73 – BRIBERY AND COLLUSION	52
CLAUSE 74 - CONTRACT TO BE CONFIDENTIAL	53
CONDITIONS OF CONTRACT PART II (CONDITIONS OF PARTICULAR APPLICATION)	

SUB-CLAUSE 1.1 – DEFINITIONS

Amend this sub-clause as follows:

- (a) (i) The “Employer” is the Government of Kenya, represented by the Director General, Kenya Rural Roads Authority. (iv) The “Engineer” is the General Manager (Maintenance), Kenya Rural Roads Authority.
- (b) (i) Insert in line 2 after the Bills Of Quantities”, the following, “the rates entered by the Contractor (whether or not such rate be employed in computation of the Contract Price),”

Amend subparagraph (b) (v) of Sub-Clause 1.1 by adding the following words at the end:

The word “BID” is synonymous with “tender” and the word “Appendix to BID” with “Appendix to Tender” and the word “BID documents” with “bidding documents”.

Add the following at the end of this Sub-Clause:

- (h) (i) “Materials” means materials and other things intended to form or forming part of the Permanent Works.

SUB-CLAUSE 2.1 - ENGINEER’S DUTIES AND AUTHORITY.

With reference to Sub-Clause 2.1 (b), the following shall also apply: The Engineer shall obtain the specific approval of the Employer before taking any of the following actions specified in Part 1:

- (a) Consenting to the subletting of any part of the works under Clause 4;
- (b) Certifying additional cost determined under Clause 12; (c)
- (c) Determining an extension of time under Clause 44;
- (d) Issuing a variation under Clause 51;
- (e) Fixing rates or prices under Clause 52

SUB-CLAUSE 5.1 - LANGUAGE AND LAW

- a) The Contract document shall be drawn up in the ENGLISH LANGUAGE. Communication between the Contractor and the Engineer’s Representative shall be in this given language.
- b) The Laws applicable to this Contract shall be the Laws of the Republic of Kenya.

SUB-CLAUSE 5.2 – PRIORITY OF CONTRACT DOCUMENTS

Delete the documents listed 1-6 and substitute:

- (1) The Contract Agreement (if completed)
- (2) The Letter of Acceptance;
- (3) The Bid and Appendix to Bid;
- (4) The Conditions of Contract Part II;
- (5) The Conditions of Contract Part I;
- (6) The Special Specifications;
- (7) The Standard Specification for Road and Bridge Construction, 1986;
- (8) The Drawings;
- (9) The priced Bills of Quantities
- (10) Other documents as listed in the Appendix to form of Bid

SUB-CLAUSE 10.1 - PERFORMANCE SECURITY

Replace the text of Sub-Clause 10.1 with the following:

“The Contractor shall provide security for his proper performance of the Contract within 60 days after receipt of the Letter of Acceptance. The Performance Security shall be in the form of a bank guarantee as stipulated by the Employer in the Appendix to Bid. *The Performance Security shall be issued by a bank incorporated in Kenya.* The Contractor shall notify the Engineer when providing the Performance Security to the Employer.

“Without limitation to the provisions of the preceding paragraph, whenever the Engineer determines an addition to the Contract Price as a result of a change in cost, the Contractor, at the Engineers written request, shall promptly increase the value of the Performance Security by an equal percentage.

SUB-CLAUSE 10.2 - VALIDITY OF PERFORMANCE SECURITY

The Performance Security shall be valid until a date 28 days after the date of issue of the Substantial Completion Certificate. The security shall be returned to the Contractor within 14 days of expiration.

SUB-CLAUSE 10.3- CLAIMS UNDER PERFORMANCE SECURITY

Delete the entire sub-clause 10.3.

SUB-CLAUSE 10.4- COST OF PERFORMANCE SECURITY

The cost of complying with the requirements of this clause shall be borne by the Contractor.

SUB-CLAUSE 11. 1- INSPECTION OF SITE

In line 17 after “affect his BID” add

“and the Contractor shall be deemed to have based his BID on all the aforementioned”

Delete the last paragraph completely and replace with the following:

“The Employer in no way guarantees completeness nor accuracy of the soil, materials, subsurface and hydrological information made available to the Contractor at the time of bidding or at any other time during the period of the Contract, and the Contractor shall be responsible for ascertaining for himself all information as aforesaid for the execution of works and his BID shall be deemed to have been priced accordingly.

SUB-CLAUSE 11.2 - ACCESS TO DATA

Data made available by the Employer in accordance with Clause 11.1 shall be deemed to include data listed elsewhere in the Contract as open for inspection at the address stipulated in the Appendix to Bid.

SUB-CLAUSE 14.1 - PROGRAM TO BE SUBMITTED

The time within which the program shall be submitted shall be as specified in the Appendix to the Form of Bid. This detailed program shall be based upon the program submitted by the Contractor as

part of his BID, where this was required, and shall in no material manner deviate from the said program.

The program shall be in the form of a Critical Path Method Network (CPM Network) showing the order of procedure and a description of the construction methods and arrangements by which the Contractor proposes to carry out the works. It should also be supplemented by a time –bar chart of the same program. The program shall be coordinated with climatic, groundwater and other conditions to provide for completion of the works in the order and by the time specified. The program shall be revised at three-month intervals and should include a chart of the principle quantities of work forecast for execution monthly.

The Contractor shall submit to the Engineer not later than the day or date mentioned in the Appendix to the Form of Bid, a general description of his proposed arrangements and methods for the execution of the Works, including temporary offices, buildings, access roads, construction plant and its intended production output, working shift arrangements, labor strength, skilled and unskilled, supervision arrangements, power supply arrangements, supply of materials including a materials utilization program, stone crushing, aggregate production and storage, cement handling, concrete mixing and handling, methods of excavation, dealing with water, testing methods and facilities.

During the execution of the works, the Contractor shall submit to the Engineer full and detailed particulars of any proposed amendments to the arrangements and methods submitted in accordance with the foregoing. If details of the Contractors proposals for Temporary Works are required by the Engineer for his own information the Contractor shall submit such details within (14) fourteen days of being requested to do so.

The various operations pertaining to the works shall be carried out in such a progressive sequence as will achieve a continuous and consecutive output of fully completed roadworks inclusive of all bridge works and culverts within the time limits specified in the Contract. Generally, the Contractor shall start at one end of the road and progress continuously towards the other without leaving any isolated section or sections of uncompleted road provided always that the site of the works has been acquired in its entirety and the encumbrances and services thereon removed.

The Contractor shall allow in his programme for the following public holidays per calendar year during which the Contractor shall not be permitted to work.

- New Years Day (1st January)
- Good Friday
- Easter Monday
- Labour Day (1st May)
- Madaraka Day (1st June)
- Idd Ul Fitr
- Mashujaa Day (20th October)
- Jamhuri Day (12th December)
- Christmas Day (25th December)
- Boxing day (26th December)

The Contractor shall also allow per calendar year for a further two unspecified public holidays which may be announced by the Government of Kenya with no prior notification upon which he shall not be permitted to work.

SUB-CLAUSE 14.3 - CASH FLOW ESTIMATE

The time within which the detailed cash flow estimate shall be submitted shall be as specified in the Appendix to the Form of Bid.

SUB-CLAUSE 15.1 - CONTRACTOR'S SUPERINTENDENCE

Add the following at the end of the first paragraph of Sub-Clause 15.1:

“The Contractor shall, within seven (7) days of receipt of the Engineer’s order to commence the works inform the Engineer in writing the name of the Contractor’s Representative and the anticipated date of his arrival on site.”

Add the following Sub-clause 15.2

SUB-CLAUSE 15.2 - LANGUAGE ABILITY AND QUALIFICATIONS OF CONTRACTOR'S AUTHORISED AGENT

The Contractor’s Representative on the site shall be the Site Agent who shall be a Professional Engineer registered by The Engineer’s Act, 2011 or have equivalent status approved by the Engineer and shall be able to read and write in English.

The Contractor’s Agent or Representative shall have at least 7 years relevant experience as a Professional Engineer i.e. 7years from the date of registration as an Engineer.

SUB-CLAUSE 16.2 - ENGINEER AT LIBERTY TO OBJECT

At the end of this Clause add

“by a competent substitute approved by the Engineer and at the Contractors own expense.”

Add the following Sub-Clauses 16.3 and 16.4:

SUB-CLAUSE 16.3 - QUALIFICATION AND LANGUAGE ABILITY OF SUPERINTENDING STAFF

The Contractor’s superintending staff shall meet the following minimum qualifications:

- (a) Should have a working knowledge of English or Kiswahili. Should any of the superintending staff not be able to meet this condition, the Contractor shall propose to the Engineer arrangements for provision of a sufficient number of interpreters of approved qualifications. The Engineer, at his discretion, may amend, approve or reject such arrangements or reject deployment of superintending staff not meeting the language requirements. The Engineer may at any time during the duration of the Contract amend any approved arrangements made for interpreters, which shall be implemented at the Contractors expense.
- (b) The key staff listed below must have academic qualifications from Government recognised institutions or equivalent institutions of the levels set out in Section 5, Part 7.
 - Site Agent
 - Deputy Site Agent
 - Site Engineer
 - Senior Foreman
 - Site Surveyor
- (c) Foremen The key staff listed below must have minimum experience set out in Section 5, Part 7:
 - Site Agent

- Deputy Site Agent
- Site Engineer
- Senior Foreman
- Site Surveyor
- Foremen

(d) Qualifications as above shall be subject to verification and approval on site by the Engineer or his representative on site before commencement of the said works.

SUB-CLAUSE 16.4 – EMPLOYMENT OF LOCAL PERSONNEL

The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labour with appropriate qualifications and experience who are Kenya citizens.

SUB-CLAUSE 19.1 - SAFETY, SECURITY AND PROTECTION OF THE ENVIRONMENT

Add Sub-Clause-paragraph (d) of Sub-Clause 19 as follows:

Notwithstanding the Contractor's obligation under Sub-Clause-paragraph (a), (b) and (c) of Sub-Clause 19.1 of the Conditions of Contract, the Contractor shall observe the following measures with a view to reducing or elimination adverse environmental effects by the site works:

- i) All quarries and borrow pits shall be filled and landscaped to their original state after extraction of construction material
- ii) Soil erosion due to surface runoff or water from culverts or other drainage structures should be avoided by putting in place proper erosion control measures that shall include, but are not limited to grassing and planting if trees
- iii) Long traffic diversion roads shall be avoided so as to minimize the effect of dust on the surrounding environment. In any case all diversions shall be kept damp and dust free
- iv) Spillage of oils, fuels and lubricants shall be avoided and if spilt, shall be collected and disposed off in such a way as not to adversely affect the environment
- v) Rock blasting near settlement areas shall be properly coordinated with the relevant officers of the Government so as to minimize noise pollution and community interference.

SUB-CLAUSE 20.4 - EMPLOYERS RISKS

Delete Sub-Clause (h) and substitute with;

(h) any operation of the forces of nature (insofar as it occurs on site) which an experienced contractor:

- (i) could not have reasonably foreseen, or
- (ii) could reasonably have foreseen, but against which he could not reasonably have taken at least one of the following measures:
 - (a) prevent loss or damage to physical property from occurring by taking appropriate measures or
 - (b) insure against such loss or damage

SUB-CLAUSE 21.1 - INSURANCE OF WORKS AND CONTRACTOR 'S EQUIPMENT

Delete the first sentence of this Clause and replace with the following:

“Prior to commencement of the Works the Contractor shall, without limiting his or the Employer's

obligations and responsibilities under Clause 20, insure to the satisfaction of the Employer.”

Add the following words at the end of Sub-paragraph (a) and immediately before the last word of Sub-paragraph (b) of Sub-Clause 21.1:

“It being understood that such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred”

SUB-CLAUSE 21.2 – SCOPE OF COVER

Amend sub-paragraph (a) of Sub-Clause 21.2 as follows:

Delete words “from the start of work at the site” and substitute the words “from the first working day after the Commencement Date”

Add the following as Sub-Clause (c) under Sub-Clause-Clause 21.2

(c) It shall be the responsibility of the Contractor to notify the insurance company of any change in the nature and extent of the Works and to ensure the adequacy of the insurance coverage at all times during the period of the Contract.

SUB-CLAUSE 21.4 - EXCLUSIONS

Amend Sub-Clause 21.4 to read as follows:

“There shall be no obligation for the insurances in Sub-Clause 21.1 to include loss or damage caused by the risks listed under Sub-Clause 20.4 sub-paragraph (a) to (h) of the General Conditions of Contract”.

SUB-CLAUSE 23.2 – MINIMUM AMOUNT OF INSURANCE

Add the following at the end of this Clause: “.. with no limits to the number of occurrences”.

SUB-CLAUSE 25.1 – EVIDENCE AND TERMS

Amend Sub-Clause as follows:

Insert the words “as soon as practicable after the respective insurances have been taken out but in any case” before the words “prior to the start of work at the site” Add the following Sub-Clauses 25.6, 25.7

SUB-CLAUSE 25.6 – INSURANCE NOTICES

Each policy of insurance effected by the Contractor for purposes of the Contract shall include a provision to the effect that the Insurer shall have a duty to give notice in writing to the Contractor and Employer of the date when a premium becomes payable. This shall not be more than thirty (30) days before that date and the policy shall remain in force until thirty (30) days after the giving of such notice.

SUB-CLAUSE 25.7 – NOTIFICATION TO INSURERS

It shall be the responsibility of the Contractor to notify insurers under any of the insurance referred to in the preceding clauses 21, 23 and 24 on any matter or event, which by the terms of such insurance are required to be so notified. The Contractor shall indemnify and keep indemnified the Employer against all losses, claims, demands, proceedings, costs, charges and expenses whatsoever

arising out of or in consequence of any default by the Contractor in complying with the requirements of this Sub-Clause whether as a result of avoidance of such insurance or otherwise.

SUB-CLAUSE 28.2 – ROYALTIES

Add at the end of this Sub-Clause the following sentence:

“The Contractor shall also be liable for all payments or compensation if any that are levied in connection with the dumping of part or all of any such material.”

SUB-CLAUSE 29.1 – INTERFERENCE WITH TRAFFIC

Supplement Sub-Clause 29.1 by adding the following sentence at the end:

“The Contractor will be permitted to use existing public roads for access to the site. The Contractor shall pay vehicle license tax and road maintenance duty in accordance with relevant regulations and shall obtain any necessary permits or licenses from relevant authorities for transporting his equipment.”

Add the following Sub-Clause 29.2:

SUB-CLAUSE 29.2 – REINSTATEMENT AND COMPENSATION FOR DAMAGES TO PERSONS AND PROPERTY

The Contractor shall reinstate all properties whether public or private which are damaged in consequence of the construction and, maintenance of the works to a condition as specified and at least equal to that prevailing before his first entry on them.

If in the opinion of the Engineer the Contractor shall have failed to take reasonable and prompt action to discharge his obligations in the matter of reinstatement, the Engineer will inform the Contractor in writing of his opinion, in which circumstances the Employer reserves the right to employ others to do the necessary work of reinstatement and to deduct the cost thereof from any money due or which shall become due to the Contractor.

The Contractor shall refer to the Employer without delay all claims which may be considered to fall within the provisions of Clause 22.1.

Add the following Sub-Clause 34.2 to 34.8 after Clause 34.1

SUB-CLAUSE 34.2 – CONDITIONS OF EMPLOYMENT OF LABOUR

The Contractor shall be responsible for making all arrangements for and shall bear all costs relating to recruitment, obtaining of all necessary visas, permits or other official permission for movements of staff and labour.

SUB-CLAUSE 34.3 – FAIR WAGES

The Contractor shall, in respect of all persons employed anywhere by him in the execution of the Contract, and further in respect of all persons employed by him otherwise than in the execution of the Contract in every factory, Workshop or place occupied or used by him for the execution of the Contract, observe and fulfil the following conditions:

(a) The Contractor shall pay rates of wages, observe hours of labor and provide conditions of labor, housing, amenities and facilities not less favorable than those required by the latest Regulation of Wages (Building and Construction Industry) Order as at the time of bid submission, and subsequent amendments thereto, or in any wage scales, hours of work or conditions agreed by the Ministry of Labour or other Government Departments in consultation with the appropriate

wage fixing authority and generally recognized by other employees in the district whose general circumstances in the trade or industry in which the Contractor is engaged are similar.

- (b) In the absence of any rates of wages, hours or conditions of labour so established the Contractor shall pay rates of wages and observe hours and conditions of labour which are not less favourable than the general level of wages, hours and conditions observed by other Employers whose general circumstances in the trade or industry in which the Contractor is engaged are similar.
- (c) Where the absence of established rates of wages, hours and conditions of labour or the dissimilarity of the general circumstances in the trade or industry in which the Contractor is engaged prevent the Contractor from observing rates of wages, hours and conditions of labour ascertained under sub-paragraph (a) and (b) above the Contractor in fixing the rates of wages, hours and conditions of labor of his employees shall be guided by the advice of the Labour Department.
- (d) The Contractor shall recognize the freedom of his employees to be members of trade unions.
- (e) The Contractor shall maintain records in English of the time worked by, and the wages paid to, his employees. The Contractor shall furnish to the Engineer or Employer, if called upon to do so, such particulars of the rates, wages and conditions of labour as the Employer or Engineer may direct.
- (f) The Contractor shall at all times during the continuance of the contract display, for the information of his employees in every factory, workshop or place occupied or used by him for the execution of the Contract, a copy of this clause together with a notice setting out the general rates of wages, hours and conditions of labour of his employees.
- (g) The Contractor shall be responsible for the observance of this clause by sub-Contractors employed in the execution of the works.

SUB-CLAUSE 34.4 – BREACH OF FAIR WAGES CLAUSE

Any Contractor or Sub-Contractor who is found to be in breach of Fair Wages Clause shall cease to be approved as a Contractor or Sub-Contractor for such period as the Employer may determine.

Should a claim be made to the Employer alleging the Contractor's default in payment of Fair Wages of any workman employed on the Contract and if proof thereof satisfactory to the Employer is furnished by the Labour Authority, the Employer may, failing payment by the Contractor, pay the claims out of any monies due or which may become due to the Contractor under the Contract.

SUB-CLAUSE 34.5 – RECRUITMENT OF UNSKILLED LABOUR

Any additional unskilled labour which is required by the Contractor for the works and which is not in his employment at the time of the acceptance of the BID shall be recruited by the Contractor from the Labour Exchange or Exchanges nearest to the site or sites of the work.

SUB-CLAUSE 34.6 – COMPENSATION FOR INJURY

The Contractor shall in accordance with the Workmen's Compensation Act of the Laws of Kenya and any other regulations in force from time to time pay compensation for loss or damage suffered in consequence of any accident or injury or disease resulting from his work to any workman or other person in the employment of the Contractor or any Subcontractor.

SUB-CLAUSE 34.7 – LABOUR STANDARD

- (a) The Contractor shall comply with the existing local labour laws, regulations and labour standards

- (b) The Contractor shall formulate and enforce an adequate safety program with respect to all work under his contract, whether performed by the Contractor or subcontractor. The Contractor has assurance from the Employer of cooperation where the implementation of these safety measures requires joint cooperation.
- (c) Upon written request of the Employer the Contractor shall remove or replace any of his employees employed under this Contract.

SUB-CLAUSE 34.8 – MINORITIES AND PERSONS WITH DISABILITIES

The Contractor shall ensure that no more than Two Thirds of either gender is engaged in the Contract.

Add the following Sub-Clause 35.2 and 35.3.

SUB-CLAUSE 35.2 – RECORDS OF SAFETY AND HEALTH

The Contractor shall maintain such records and make such reports concerning safety, health and welfare of persons and damage to property as the Engineer may from time to time prescribe.

SUB-CLAUSE 35.3 – REPORTING OF ACCIDENTS

The Contractor shall report to the Engineer details of any accident as soon as possible after its occurrence. In the case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means. The Contractor shall also notify the relevant authority whenever the Laws of Kenya require such a report.

SUB-CLAUSE 41.1 – COMMENCEMENT OF WORKS

Amend Sub-Clause 41.1 as follows:

Delete the words “as soon as is reasonably possible” in the first sentence and replace with “within the period stated in the Appendix to Bid”.

SUB-CLAUSE 43.1 – TIME FOR COMPLETION

Amend Sub-Clause 43.1 as follows:

Delete the words “within the time” to “such extended time” and substitute “by the date or dates stated or implied in Clause 14 of these Conditions of Particular Application.

SUB-CLAUSE 44.1 – EXTENSION OF TIME FOR COMPLETION

Add at the end of Sub-Clause 44.1 the following:

“Neither rains falling within the rainy seasons as occurs in Kenya nor floods caused by such rains shall be deemed exceptional weather conditions such as may fairly entitle the Contractor to an extension of time for the completion of the work.”

SUB-CLAUSE 45.1 – RESTRICTION ON WORKING HOURS

Add at the end of Sub-Clause 45.1 the following:

“If the Contractor requests permission to work by night as well as by day, then if the Engineer shall grant such permission the Contractor shall not be entitled to any additional payments for so doing.

All such work at night shall be carried out without unreasonable noise or other disturbance and the Contractor shall indemnify the Employer from and against any liability for damages on account of

noise or other disturbance created while or in carrying out night work and from and against all claims, demands, proceedings, costs, charges and expenses whatsoever in regard or in relation to such liability.

“In addition the Contractor will be required to provide, for any work carried out at night or recognized days of rest, adequate lighting and other facilities so that the work is carried out safely and properly.

“In the event of the Engineer granting permission to the Contractor to work double or rotary shifts or on Sundays, the Contractor shall be required to meet any additional costs to the Employer in the administration and supervision of the Contract arising from the granting of this permission.”

SUB-CLAUSE 47.2 – REDUCTION OF LIQUIDATED DAMAGES

Add the following paragraphs at the end of this Sub-Clause:

“There shall be no reduction in the amount of liquidated damages in the event that a part or a section of the Works within the Contract is certified as completed before the whole of the Works comprising that Contract.

The Employer shall pay no bonus for early completion of the Works to the Contractor.

The sum stated in the Appendix to Bid as liquidated damages shall be increased by a sum equivalent to any additional amount payable by the Employer to the Contractor under clause 70.1 in respect of an increase in costs in such a period that would not have been incurred by the Contractor if the works had been completed by the due date for completion prescribed by Clause 43.”

SUB-CLAUSE 48.2 – TAKING OVER OF PARTS OF WORKS

Add the following paragraphs at the end of this Sub-Clause:

The minimum section for Taking Over shall be as described in the Special Specifications.

SUB-CLAUSE 52.1 – VALUATION AND VARIATIONS

Add new Clause 52.2(c)

No change in the unit rates or prices quoted shall be considered for items included in the schedule of Dayworks rates, or Provisional Sums and items, or for any item in the BOQ.

Modification to Clause 52(3)

SUB-CLAUSE 52.4 – DAYWORKS

Add the following at the end of Sub-Clause 52.4:

The work so ordered shall immediately become part of the works under the contract. The Contractor shall, as soon as practicable after receiving the Dayworks order from the Engineer undertake the necessary steps for due execution such work. Prior to commencement of any work to be done on a Dayworks basis, the Contractor shall give an advance notice to the Engineer stating the exact time of such commencement.

SUB-CLAUSE 54.1 – CONTRACTORS EQUIPMENT, TEMPORARY WORKS AND MATERIALS: EXCLUSIVE USE FOR THE WORKS

Amend Sub-Clause 54.1 as follows: Line 5: add
“written” between “the” and “consent”. Delete
Sub-Clauses 54.2 and 54.5.

SUB-CLAUSE 55.2 – OMISSIONS OF QUANTITIES

Items of Works described in the Bills of Quantities for which no rate or price has been entered in the Contract shall be considered as included in other rates and prices in the Contract and will not be paid for separately by the Employer.

Add the following Sub-Clause 58.4:

SUB-CLAUSE 58.4 – PROVISIONAL ITEMS

Provisional items shall be read as Provisional Sums and shall be operated as such in accordance with Sub-Clauses 58.1 to 58.3.

CLAUSE 60: – CERTIFICATES AND PAYMENTS

Clause 60 of the General Conditions is deleted and substituted with the following:-

SUB-CLAUSE 60.1 – MONTHLY STATEMENT

The Contractor shall submit a statement to the Engineer at the end of each month, in a tabulated form approved by the Engineer, showing the amounts to which the Contractor considers himself to be entitled. The statement shall include the following items, as applicable;

- the value of the Permanent Work executed up to the end of previous month
- such an amount (not exceeding 75 percent of the value) as the Engineer may consider proper on account of materials for permanent work delivered by the Contractor in the site
- such amount as the Engineer may consider fair and reasonable for any Temporary Works for which separate amounts are provided in the Bill of Quantities □ adjustments under Clause 70
- any amount to be withheld under retention provisions of Sub-Clause 60.3
- any other sum to which the Contractor may be entitled under the Contract

If the Engineer disagrees with or cannot verify any part of the statement, the Contractor shall submit such further information as the Engineer may reasonably require and shall make such changes and corrections in the statement as may be directed by the Engineer. In cases where there is difference in opinion as to the value of any item, the Engineer’s view shall prevail.

SUB-CLAUSE 60.2 - INTERIM PAYMENT CERTIFICATE

The Contractor shall forward to the Engineer an Interim Payment Certificate based on the statement as corrected above and, should it be necessary in the Engineers opinion, shall promptly make any further amendments and corrections to the Interim Payment Certificate.

The Engineer shall not unreasonably withhold certifying an Interim Payment Certificate and in case of likely delay in establishing the value of an item, such item may be set aside and the remainder certified for payment.

Within 30 days after receipt of the Interim Payment Certificate and subject to the Contractor having made such further amendments and corrections as the Engineer may require, the Engineer will

forward to the Employer the certified Interim Payment Certificate.

Provided that the Engineer shall not be bound to certify any payment under this Clause if the net amount thereof, after all retentions and deductions, would be less than the minimum amount of Interim Payment Certificate's stated in the Appendix to Form of Bid. However, in such a case, the uncertified amount will be added to the next interim payment, and the cumulative unpaid certified amount will be compared to the minimum amount of interim payment.

SUB-CLAUSE 60.3 – PAYMENT OF RETENTION MONEY

A retention amounting to the percentage stipulated in the Appendix to Bid shall be held by the Employer in the first and following Interim Payment Certificates until the amount retained shall reach the "Limit of Retention Money" named in the Appendix to Form of BID.

Upon the issue of the Taking-Over Certificate, with respect to the whole of the works one half of the retention money shall become due and shall be paid to the Contractor when the Engineer shall certify in writing that the last section of the whole works has been substantially completed.

Upon expiration of the Defects Liability Period for the works, the other half of the Retention Money shall be certified by the Engineer for payment to the Contractor.

Provided that in the event of different Defects Liability Periods being applicable to different Sections of the Permanent Works pursuant to Clause 48, the expression "expiration of the Defects Liability Period" shall, for the purpose of this Sub-Clause, be deemed to mean the expiration of the latest of such periods.

Provided also that if at such time, there remain to be executed by the Contractor any work instructed, pursuant to Clause 49 and 50, in respect of the works, the Engineer shall be entitled to withhold certification until completion of any such work or so much of the balance of the Retention money as shall in the opinion of the Engineer, represents the cost of the remaining work to be executed.

Bank Retention Guarantees shall be accepted in lieu of cash retentions

SUB-CLAUSE 60.4 – CORRECTION OF CERTIFICATES

The Engineer may in any Interim Payment Certificate make any correction or modification to any previous Interim Payment Certificate signed by him and shall have authority, if any work is not being carried out to his satisfaction to omit or reduce the value of such work in any Interim Payment Certificate.

SUB-CLAUSE 60.5 – STATEMENT AT COMPLETION

Not later than 84 days after the issue of the Taking-Over Certificate in respect of the whole of the works, the Contractor shall submit to the Engineer a statement at completion showing in detail, in a form approved by the Engineer;

The final value of all work done in accordance with the Contract up to the date stated in such Taking-Over Certificate.

- (a) Any further sums which the Contractor considers to be due; and
- (b) An estimate of amounts that the Contractor considers will become due to him under the Contract. Estimate amounts shall be shown separately in the Statement at Completion. The Contractor shall amend and correct the Statement as directed by the Engineer and submit a Certificate at Completion to be processed as in Sub-Clause 60.2.

SUB-CLAUSE 60.6 – FINAL STATEMENT

Not later than 56 days after the issue of the Defects Liability Certificate pursuant to Sub-Clause 62.1, the Contractor shall submit to the Engineer for consideration a draft final statement with supporting documents showing in detail, in the form approved by the Engineer; (a) The final value of all work done in accordance with the Contract (b) Any further sums which the Contractor considers to be due to him.

If the Engineer disagrees with or cannot verify any part of the draft final statement, the Contractor shall submit such further information as the Engineer may reasonable require and shall make such changes in the draft as may be required.

SUB-CLAUSE 60.7 – DISCHARGE

Upon submission of the Final Statement, the Contractor shall give to the Employer, with a copy to the Engineer, a written discharge confirming that the total of the Final statement represents full and final settlement of all monies due to the Contractor arising out of or in respect of the Contract. Provided that such discharge shall become effective only after payment under the Final Payment Certificate issued pursuant to Sub-Clause 60.8 has been made and the Performance Security referred to in Sub-Clause 10.1 has been returned to the Contractor.

SUB-CLAUSE 60.8 – FINAL PAYMENT CERTIFICATE

Upon acceptance of the Final Statement as given in Sub-Clause 60.6, the Engineer shall prepare a Final Payment Certificate which shall be delivered to the Contractor's authorized agent or representative for his signature. The Final Payment Certificate shall state:

- (a) The final value of all work done in accordance with the Contract;
- (b) After giving credit to the Employer for all amounts previously paid by the Employer, the balance, if any, due from the Employer to the Contractor or the Contractor to the Employer.

Final Certificate shall be issued for any sum due to the Contractor even if such is less than the sum named in the Appendix to the Form of BID.

SUB-CLAUSE 60.9 – CESSATION OF EMPLOYERS LIABILITY

Unless the Contractor notifies the Engineer of his objection to the Final Certificate within fourteen days of delivery thereof he shall be deemed to have agreed that he accepts the total Contract Price as set out in the Final Certificate as full settlement for all work done under the Contract including any variations and omissions thereof but excluding any variations and claims previously made in writing.

SUB-CLAUSE 60.10 – TIME FOR PAYMENT

The amount due to the Contractor under any Interim Payment Certificate or Final Payment Certificate issued pursuant to this Clause or to any other term of the Contract, shall, subject to Clause 47, be paid by the Employer to the Contractor as follows:

- (i) In the case of Interim Payment Certificate, within the time stated in the Appendix to Form Of Bid, after the Engineer has signed the Interim Payment Certificate.
- (ii) In the case of the Final Payment Certificate pursuant to Sub-Clause 60.8, within the time

stated in the Appendix to Form Of Bid, after the Engineer has signed the Final Payment Certificate.

(iii) In the event of the failure of the Employer to make payment within the times stated, the Employer shall make payment to the Contractor of simple interest at a rate equal to two percentage points above the average bank lending rates obtained from Central Bank of Kenya. The provisions of this Sub-Clause are without prejudice to the Contractor's entitlements under Clause 69 or otherwise.

SUB-CLAUSE 60.11 – CURRENCY OF PAYMENT

The Contract Price shall be designated in Kenyan Currency.

All work performed by the Contractor under the Contract shall be valued in Kenya Shillings using the rates and prices entered in the Bills of Quantities together with such other increases to the Contract Price, except for variation of price payments in accordance with Clause 70.1.

SUB-CLAUSE 60.12 – ADVANCE PAYMENT

“The Employer **may** make an interest free advance payment to the contractor for the cost of mobilization in respect of the Works, in a lump sum of equivalent to a maximum of ten (10) percent of the Contract Price named in the Letter of Acceptance. Payment of such advance amount will be due under a separate certification by the Engineer after:

- (i) Provision by the Contractor of the Performance Security in accordance with Clause 10 of the Conditions of Contract, and
- (ii) Provision by the Contractor of a Bank Guarantee that shall remain effective until the advance payment has been completely repaid by the Contractor out of current earnings under the Contract and certified accordingly by the Engineer.

A form of Bank guarantee acceptable to the Employer is included in the Tender Documents. The advance payment shall be used by the Contractor exclusively for mobilization expenditures, in connection with the works. The advance payment shall not be subject to retention money.

The advance payment shall be repaid with percentage reductions from the monthly interim payments certified by the Engineer. The reimbursement of the lump sum advance payment shall be made by deductions from the interim payments and where applicable from the balance owing to the contractor. Reimbursement shall begin when the amount of the sums due under the Contract reaches 20% of the original amount of the contract. It shall have been completed by the time 80% of this amount is reached.

The amount to be repaid by way of successive deductions shall be calculated by the means of the formula:

$$RI = \frac{A(X_2 - X_1)}{80-20}$$

Where:

RI = the amount to be reimbursed.

A = the amount of the advance which has been granted.

X_2 = the amount of proposed cumulative payments as a percentage of the original amount of the contract. This figure will exceed 20% but not 80%.

X_1 = the amount of the previous cumulative payments as a percentage of the original amount of the Contract. This figure will be below 80% but not less than 20%.

With each reimbursement the guarantee will be reduced accordingly.

SUB-CLAUSE 60.13 - MATERIALS FOR PERMANENT WORKS

With respect to materials brought by the Contractor to the site for incorporation into the permanent works, the Contractor shall,

-Receive a credit in the month, in which these materials are brought to site,
-Be charged a debit in the month in which these materials are incorporated in the permanent works.
Both such credit and debit to be determined by the Engineer in accordance with the following provisions.

- (a) No credit shall be given unless the following conditions shall have been met to the Engineers satisfaction
 - (i) The materials are in accordance with the specifications for the works;
 - (ii) The materials have been delivered to site and are properly stored and protected against loss, damage or deterioration;
 - (iii) The Contractors record of the requirements, orders receipts and use of materials are kept in a form approved by the Engineer, and such records are available for inspection by the Engineer;
 - (iv) The Contractor has submitted a statement of his cost of acquiring and delivering the materials and plant to the Site, together with such documents as may be required for the purpose of evidencing such cost;
 - (v) The materials are to be used within a reasonable time.
- (b) The amount to be credited to the Contractor shall not be more than 75% of the Contractor's reasonable cost of the materials delivered to site, as determined by the Engineer after review of the documents listed in subparagraphs (a) (iv) above;
- (c) The amount to be debited to the Contractor for any materials incorporated into the works shall be equivalent to the credit previously granted to the Contractor for such materials pursuant to Clause (b) above as determined by the Engineer.

SUB-CLAUSE 67.1 – ENGINEER'S DECISION

Delete the entire Sub-Clause 67.1 and add the following;

“If a dispute of any kind whatsoever arises between the Employer and the Contractor in any connection with, or arising out of, the Contract or the execution of the works, whether during the execution of the works or after their completion and whether before or after repudiation or other termination of the Contract including any dispute as to any opinion, instruction, determination, certificate or valuation of the Engineer, the matter in dispute shall, in the first place, be referred in writing to the Engineer, with a copy to the other party. Such reference shall state it is made pursuant to this clause. No later than 28 (twenty eight) day after the day on which he received such reference the Engineer shall give notice of his decision to the Employer and the Contractor. Such decision

shall state it is made pursuant to this clause.

Unless the Contract has already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the works with all due diligence and the Contractor and the Employer shall give effect forthwith to every such decision of the Engineer unless and until the same shall be revised, as hereinafter provided, in an Amicable Settlement, Adjudicator's or Arbitrator's award.

If either the Employer or the Contractor be dissatisfied with the any decision of the Engineer, or if the Engineer fails to give notice of his decision on or before the 28th (twenty eighth) after the day on which he received the reference, then either the Employer or the Contractor may, on or before the 28th (twenty eighth) day after the day the day on which he received notice of such decision, or on or before the 28th (twenty eighth) day after the day on which the said period of 28 days expired, as the case may be, give notice to the other party, with a copy for information to the Engineer, of his intention to commence Adjudication, as hereinafter provided, as to the matter in dispute. Such notice shall establish the entitlement of the party giving the same to commence Adjudication, as hereinafter provided, as to such dispute; no adjudication in respect thereof may be commenced unless such notice is given.

If the Engineer has given notice of his decision as to a matter in dispute to the Employer and the Contractor and no notice of intention to commence adjudication as to such dispute has been given by either the Employer or the Contractor on or before the twenty eighth day after the day on which the parties received notice as to such decision from the Engineer, the said decision shall become final and binding upon the Employer and the Contractor. “

SUB-CLAUSE 67.2 – AMICABLE SETTLEMENT

Delete the entire sub-clause 67.2 and replace with the following;

67.2 (a) Amicable Settlement

"Where notice to of intention to commence adjudication as to a dispute has been in accordance with sub-clause 67.1, the parties shall attempt to settle such dispute in amicably before the commencement of Adjudication; provided that, unless the parties otherwise agree, Adjudication may be commenced on or after the 14th (fourteenth) day after the day on which notice of intention to commence adjudication of such dispute was given, even if an attempt at amicable settlement thereto has been made."

(b) Adjudication

The adjudication shall commence when it shall be referred in writing to the Dispute Adjudication Board (the "Board") for its decision. Such reference shall state that it is made under this clause.

1. Unless the member or members of the board have been previously mutually agreed upon by the parties and named in the Contract, the parties shall within 28 days of the contract commencement date jointly ensure the appointment of the Board. The Board shall comprise of suitably qualified persons as members, the number of members being either one or three as stated in the Appendix to form of Tender. If the board is to comprise three members each party shall nominate one member and the two members shall mutually agree upon and appoint the third member (who shall act as chairman)
2. The terms of appointment of the Board shall include: -

- a) An hourly rate which if not otherwise agreed shall be the average of the rates set by the Chartered Institute of Arbitrators for the class of membership of the member save that the rates for associate membership shall apply to non-members;
- b) A retainer monthly rate equal to 12 times the hourly rate;
- c) The hourly rate shall apply when the board members are attending site, travelling and/or engaged in actual dispute resolution work. A member of the board throughout his appointment will act independently at all times without bias or favour;
- d) Members of the board to act impartially and in accordance with the Contract;
- e) Undertakings by the parties (to each other and to Board) that the members of the Board shall under no circumstances be liable for anything done or omitted in the discharge of their functions unless the act or omission is shown to have been in bad faith;
- f) The Board shall be free to pay and seek refund from the parties of any expenses paid out by members of the board in connection with their work;
- g) The Employer and the Contractor shall each be responsible for paying one half of the Board's remuneration.

The appointment of any member of the Board may be terminated (other than on a member's own initiative) only by mutual agreement of the Employer and the Contractor. The appointment of each member of the Board shall expire when the discharge referred to in sub-clause 60.7 shall have become effective, or at such other time as the parties may mutually agree.

3. The appointment of any member of the Board may be terminated (other than on a member's own initiative) only by mutual agreement of the Employer and the Contractor. The appointment of each member of the Board shall expire when the discharge referred to in sub-clause 60.7 shall have become effective, or at such other time as the parties may mutually agree.

4. If the parties so agree, they may at any time, appoint a suitably qualified person or persons to replace (or to be available to replace) any or all members of the Board. Unless the parties agree otherwise, the appointment will cease if a member of the Board declines to act or is unable to act as a result of death, disability, resignation or termination of appointment. If any of such circumstances occur and no such member is available, the member shall be replaced in the same manner as he had been nominated or agreed upon.

5. If any of the following conditions apply, namely: -

- a) The parties fail to agree upon the appointment of the sole member of a one-person Board within 28 days of the commencement date;
- b) Either party fails to appoint a member in a Board of three members, within 28 days of the commencement date;
- c) The two members of the Board fail to agree upon the appointment of the third member (to act as chairman) for a Board of three members within 28 days from date of appointment of latest member;

d) The parties or the members fail to appoint a replacement member of the Board within 28 days of the date on which a member of the Board declined to act or is unable to act as a result of death, disability, resignation or termination of appointment; then the appointing body or official named in the Appendix to Form of Tender shall appoint such member of the Board on request of any party and such appointment shall be final and conclusive.

(c) Dispute Adjudication Board's Decision

1. When in accordance with sub-clause 67.2 (b) a dispute is referred by one party to the Board, a copy of such reference shall be sent by that party to the other party and (for information) to the Engineer. The parties shall promptly make available to the Board all such additional information, further access to the site, and appropriate facilities as the Board may require for the purposes of rendering a decision.
2. The rules published by the Chartered Institute of Arbitrators Kenya branch shall apply.
3. The Board shall have full power among other things to open up, review and revise any opinion, instruction, determination, certificate or valuation of the Engineer related to the dispute. No later than the 28th day after the day on which it received such a reference the Board acting as a panel of experts and not as arbitrator(s) shall give notice of its decision to the parties and for information to the Engineer. Such decision, which shall be reasoned, shall state that it is given under this Sub-Clause.
4. Unless the Contract has already been repudiated or terminated, the Contractor shall in every case continue to proceed with the works with all due diligence and the Contractor and the Employer as well as the Engineer shall give effect forthwith to every decision of the Board notwithstanding the fact that there may be a party dissatisfied as shown thereunder.
5. If either party is dissatisfied with the Board's decision, then either party on or before the 28th (twenty eighth) day after the day on which it received notice of such decision, may refer the decision to Arbitration.
6. If the Board has given notice of its decision as to a matter in dispute to the Employer, the Contractor and the Engineer and no notice of dissatisfaction has been given by either party on or before the 28th (twenty eighth) day after the day on which the parties received the Board's decision, then the Board's decision shall become final and binding upon the Employer and the Contractor.

67.2 (d) Failure to Comply with the Board's Decision

Where neither party has given notice of dissatisfaction within the period in Sub-Clause 67.2 (c) and Board's related decision, if any has become final and binding either party may, if the other party fails to comply with such decision and without prejudice to any other rights it may have, refer the failure itself to Arbitration under Sub-Clause 67.3. The provisions of Sub-clause 67.2 shall not apply to any such reference.

(e) Expiry of the Board's Appointment

When the appointment of the members of the Board, including any replacement, has either been

terminated or has expired, any such dispute referred to in Sub-clause 67.2 shall be finally settled by Arbitration pursuant to Sub-clause 67.3. The provisions of Sub-clause 67.2 shall not apply to any such reference.

SUB-CLAUSE 67.3(D) – ARBITRATION

Delete all the words from line 6 onwards beginning with the words "unless otherwise" up to line 8 ending with the words "... under such rules", and substitute with the following:

"by an arbitrator to be agreed upon between the parties or failing agreement to be nominated on the application of either party by the appointee designated in the form of Tender for the purpose and any such referee shall be deemed to be a submission to arbitration within the meaning of the Arbitration Laws of the Republic of Kenya.

SUB-CLAUSE 68.2 – NOTICES TO EMPLOYER AND ENGINEER

Delete in Sub-Clause 68.2 the words "nominated for that purpose in Part II of these conditions".

a. The Employer's address is:

Director General
Kenya Rural Roads Authority
P.O. Box 48151 – 00100 **NAIROBI**.

b. The Engineer's address is:

Director (Road asset management)
Kenya Rural Roads Authority
P.O. Box 48151 – 00100 **NAIROBI**.

SUB-CLAUSE 68.4 – CORRESPONDENCES

All letters and notices from the Contractor to the Employer and/Engineer must be signed by the Managing Director or the person given written power of Attorney.

CLAUSE 69 – DEFAULT OF EMPLOYER

Delete in Sub-Clause 69.1 (a) the words ("28 days") and insert the words "ninety (90) days".
Delete Sub-Clause 69.1 (c)

Delete in Sub-Clause 69.4 line 4 the words "(28 days)" and insert the words "sixty (60) days". In Sub-Clause 69.4 add at the end of first paragraph the following "the period of such suspension shall be as agreed upon by both parties and in any case not more than six (6) months".

In Sub-Clause 69.4 of General Conditions of Contract Part I, insert at the end -----"The amounts of such costs which shall be added to the Contract Price shall exclude any cost due to idle time for equipment, plant and labour."

CLAUSE 70 – CHANGES IN COST AND LEGISLATION

SUB-CLAUSE 70.1 - PRICE ADJUSTMENT

The amounts payable to the Contractor, in various currencies pursuant to Sub-Clause 60.1, shall be adjusted in respect of the rise or fall in the cost of labour, Contractor's Equipment, Plant, materials, and other inputs to the Works, by applying to such amounts the formulae prescribed in this clause.

However, price adjustment as provided under this clause shall **NOT** be applicable to this Contract and it shall be assumed that the tender price shall have taken into consideration any rise or fall in the

cost of labour, Equipment, plant, materials and other inputs to the works during this period.

SUB-CLAUSE 70.2 - OTHER CHANGES IN COST

To the extent that full compensation for any rise or fall in costs to the Contractor is not covered by the provisions of this or other clauses in the Contract, the unit rates and prices included in the Contract shall be deemed to include amounts to cover the contingency of such other rise or fall of costs.

SUB-CLAUSE 70.3 - ADJUSTMENT AFTER COMPLETION

If the Contractor fails to complete the Works within the time for completion prescribed under Clause 43, the rates applicable at the time of tender shall be deemed to apply even if the Contractor is awarded any extension of time as provided under clause 44 of the Contract.

SUB-CLAUSE 70.4 - SUBSEQUENT LEGISLATION

If, after the date 28 days prior to the latest date for submission of bids for the Contract, there occur in the country in which the Works are being or are to be executed changes to any National or State Statute, Ordinance, Decree, or other Law or any regulation or by-law of any local or other duly constituted authority, or the introduction of any such State Statute, Ordinance, Decree, Law, regulation, or by-law that causes additional or reduced cost to the Contractor, other than under the preceding sub-clauses of this clause, in the execution of the Contract, such additional or reduced cost shall, after due consultation with the Employer and the Contractor, be determined by the Engineer and shall be added to or deducted from the Contract Price and the Engineer shall notify the Contractor accordingly, with a copy to the Employer.

CLAUSE 72 – RATES OF EXCHANGE COST

Delete clause 72 in its entirety and substitute the following:

The currency of BID and payment is Kenya Shillings and rates of exchange requirements are not applicable.

CLAUSE 73 – BRIBERY AND COLLUSION

Add new Clause 73.1:

“The Contractor shall not:

- (a) Offer or give or agree to give to any person in the service of the Government of Kenya any gift or consideration or any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract to which the Government of Kenya is a party or for showing or forbearing to show favour or disfavour to any person in relation to this or any other contract for the Government of Kenya.
- (b) Enter into this or any other contract with the Government of Kenya in connection with which commission has been paid or agreed to be paid by or on his behalf or to his knowledge, unless before the contract is made particulars of any such commission and of the terms and conditions of any agreement for the payment thereof have been disclosed in writing to the Employer.

Any breach of this condition by the Contractor or by anyone employed by him or acting on his

behalf (whether with or without the knowledge of the Contractor) or the commission of any offence by the Contractor or by anyone employed by him or acting on his behalf in relation to this or any other contract to which the Government of Kenya is a party shall entitle the Employer to determine the Contract (See Condition 63 hereof) and/ or to recover from the Contractor the amount or value of any such gift, consideration or commission.

Any dispute or difference of opinion arising in respect of either the interpretation, effect or application of this condition or of the amount recoverable hereunder by the Employer from the Contractor shall be decided by the Employer, whose decision shall be final and conclusive.

CLAUSE 74 - CONTRACT TO BE CONFIDENTIAL

Add new Clause 74.1:

The Contractor shall treat the details of this Contract as Private and Confidential and shall not publish or disclose the same or any particulars thereof in any trade or technical paper or elsewhere (save in so far as may be necessary for the purpose thereof) without the previous consent in writing of the Government. If any dispute arises as to the necessity of any publication or disclosures for the purposes of this Contract the same shall be referred to the decision of the Engineer mentioned in the said Conditions of Contract whose award shall be final.

SECTION 7: SCHEDULES OF SUPPLEMENTARY INFORMATION

CONTENTS

SCHEDULE 1: CONFIDENTIAL BUSINESS QUESTIONNAIRE	56
SCHEDULE 2: FORM OF WRITTEN POWER OF ATTORNEY	58
SCHEDULE 3: CERTIFICATE OF BIDDER'S VISIT TO SITE	59
SCHEDULE 4: KEY PERSONNEL	60
SCHEDULE 5: SCHEDULE OF THE MAJOR ITEMS OF PLANT TO BE USED ON THE PROPOSED CONTRACT.	62
SCHEDULE 6: SCHEDULE OF ROADWORKS CARRIED OUT BY THE BIDDER IN THE LAST FIVE YEARS	64
SCHEDULE 7: SCHEDULE OF ONGOING PROJECTS	65
SCHEDULE 8: SHEDULE OF BASIC RATES OF MATERIALS	66
SCHEDULE 9: SCHEDULE OF LOCAL LABOUR BASIC RATES	66
SCHEDULE 10: FINANCIAL STANDING	66
SCHEDULE 11: OTHER SUPPLEMENTARY INFORMATION	67
SCHEDULE 12: WORK METHODOLOGY	68

SCHEDULE 1: CONFIDENTIAL BUSINESS QUESTIONNAIRE

This Confidential Business Questionnaire of the Government of Kenya shall be completed by the Bidder.

REPUBLIC OF KENYA

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2(b) or 2(c) whichever applies to your type of business.

You are advised that it is a serious offence to give false information on this Form.

Part 1 - General: Business name

.....
Location of business premises

Plot No.....Street/Road.....

Postal Address.....Tel No.

Nature of business.....
.....

Current Trade Licence No.Expiring date

Maximum value of business which you can handle at any one time:

KShs.....

Name of your bankers.....

Branch.....

Are you an agent of the Kenya National Trading Corporation? YES/NO

Part 2(a) - Sole Proprietor:

Your name in full

.....
Age.....

NationalityCountry of origin.....

*Citizenship details

Part 2(b) - Partnership:

Give details of partners as follows:

Name	Nationality	Citizenship Details*	Shares
1.....	1.....	1.....	1.....
2.....	2.....	2.....	2.....
3.....	3.....	3.....	3.....

Note: Attach proof of citizenship(Compulsory)

Part 2(c) – Registered Company

Give details of partners as follows:

Private or Public..........

State the Nominal and Issued Capital of the Company

Nominal Shares (KShs) *Issued Shares (KShs)*

.....

<i>Name</i>	<i>Nationality</i>	<i>Citizenship Details*</i>	<i>Shares</i>
1.....
2.....
3.....
4.....
5.....

Note: Attach proof of citizenship (Compulsory)

Part 2 (d) Interest in the Firm:

Are there any person / persons in Kenya Rural Roads who has interest in this firm? Mark in the box alongside as necessary.

<i>Yes</i>	<i>No</i>

Date:.....Signature of Tenderer.....

SCHEDULE 2: FORM OF WRITTEN POWER OF ATTORNEY

(Attested by notary public)

The Bidder shall state here below the name(s) and address of his representative(s) who is/are authorized to receive on his behalf correspondence in connection with the Bid.

.....
(Name of Bidder's Representative in block letters)

.....
(Address of Bidder's Representative)

.....
(Signature of Bidder's Representative)

Alternate:

.....
(Name of Bidder's Representative in block letters)

.....
(Address of Bidder's Representative)

.....
(Signature of Bidder's Representative)

***To be filled by all Bidders.**

SCHEDULE 3: CERTIFICATE OF BIDDER'S VISIT TO SITE

This is to certify that

[Name/s].....

Being the authorized representative/Agent of [Name of bidder]

Participated in the organised inspection visit of the site of the works for upgrading to bitumen standards works for C467 Emali -Ukia road project

held on

.....day of..... 20.....

Signed.....
(Employer's Representative)

.....
(Name of Employer's Representative)

.....
(Designation)

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

SCHEDULE 4: KEY PERSONNEL

Note: The Bidder shall list in this schedule the key personnel he will employ from the Contractor's headquarters and from the Contractor's site office to direct and execute the work together with their qualifications, experience, position held and nationality in accordance with Clause 15.2 and 16.3 of the Conditions of Contract Part II. Bidders shall attach signed and certified CVs of all key staff.

Designation	Name	Nationality	SUMMARY OF QUALIFICATIONS AND EXPERIENCE		
			Qualifications	General Experience (Yrs)	Relevant Experience (Yrs)
Headquarters					
Partner/Director or other key staff (give designation)					
Site Office					
Site Agent					
Deputy Site Agent/Site Engineer.					
Senior Foreman					
Construction supervisors					
Site Surveyor					
Other Key Staff					
Foremen					
(i) Earthworks					
(ii) Asphalt Concrete					
(iii) Concrete					
(iv) Pavement					
(v) Drainage					

Note: The Bidder shall list in this schedule the key personnel he will employ from the Contractor's headquarters and from the Contractor's site office to direct and execute the work together with their qualifications, experience, position held and nationality in accordance with Clause 15.2 and 16.3 of the Conditions of Contract Part II (where required, use separate sheets to add extra data for column 4).

Bidders shall attach CVs of key personnel, which should be signed by the staff and certified by a Commissioner of Oaths.

I certify that the above information is correct.

.....
(Signature of Bidder)

.....
(Date)

Format of Resume of Proposed Personnel (use the same)

Bidders shall attach signed and certified CVs of all key staff use the format given below for all other required staff (where required, use separate sheets to add extra data)

Proposed Position		
Personnel information	Name of Personnel	Date of birth
	Professional qualifications	
	Years of Experience	Years with present employer
Present employment	Present Employer's Name:	
	Job Title	
	Name of Contact person (Supervisor)	<i>Telephone No</i> <i>E-mail</i>
From	To	<i>(Summarize professional experience, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project)</i>
		Company: Project Position Role in project

Signature of Proposed Staff.....Date:.....

Note: Please attach Certified Copies of Qualification Certificates

SCHEDULE 5: SCHEDULE OF THE MAJOR ITEMS OF PLANT TO BE USED ON THE PROPOSED CONTRACT.

The Bidder must indicate the core plant and equipment considered by the company to be necessary for undertaking the project together with proof ownership (*Mandatory minimum number of equipment required by the Employer for the execution of the project that the bidder must make available for the Contract.)

Item No.	Equipment Details	Minimum Number Required for the execution of the Contract	No. of owned by the Bidder	No. to be availed for the project	No of equipment to be made available for the Contract by the Bidder
1	<p>A) Compactors</p> <p>1. Vibrating compaction plate 300mm wide</p> <p>2. Vibrating compaction plate 600mm wide</p> <p>Subtotal for C</p>	<p>1</p> <p>Optional</p> <p>1</p>			
2	<p>B) Concrete Equipment</p> <p>1. Mobile concrete mixers</p> <p>2. Truck mounted mixers</p> <p>3. Concrete vibrators</p> <p>Subtotal for E</p>	<p>2</p> <p>Optional</p> <p>2</p> <p>4</p>			

3	C) Transport (Tippers, dumpers, water tankers)				
	1. 4x2 tippers payload 7-12 tonnes	2			
	2. 6x4 tippers payload 16-20 tonnes	3			
	3. Dump trucks	4			
	4. Water tankers (8,000-10,000 lts capacity)	2			
	5. Flat bed lorries	1			
Subtotal F		13			
4	D) Bituminous plants				
	1. Bitumen distributor	1			
	2. Bitumen heater tank (10,000 litres)	1			
	3. Asphalt plant	0			
	4. Paver	Optional			
	5. Chip spreader	1			
Item No.	Equipment Details	Minimum Number Required for the execution of the Contract	No. of owned by the Bidder	No. to be availed for the project	No of equipment to be made available for the Contract by the Bidder
5	D) Earth moving equipment				
	1. Tractor dozers with dozer attachment (D6-D9)	1			
	2. Wheel loaders	2			
	3. Motor graders (93-205KW)	2			
	4. Trench excavators	1			
Subtotal G		6			

6	<p>E) Rollers</p> <p>1. Self-propelled single drum vibrating (various types, 12 tonnes and above)</p> <p>3. Pneumatic rubber tyre(1-2 tonnes)</p> <p>4. Sheepfoot roller</p> <p>F) Stabilization</p> <p>Pulvimer</p>	2			
---	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---	--	--	--

We hereby certify that notwithstanding the list of plant detailed above, we will provide sufficient, suitable and adequate plant in good working order for the successful completion of works

.....
(Signature of Contractor)

.....
(Date)

SCHEDULE 6: SCHEDULE OF ROADWORKS CARRIED OUT BY THE BIDDER IN THE LAST FIVE YEARS

DESCRIPTION OF WORKS	NAME AND ADDRESS OF CLIENT/ EMPLOYER	CONTRACT SUM (KSHS) *	YEAR STARTED	YEAR COMPLETED
-----------------------------	---------------------------------------------	------------------------------	---------------------	-----------------------

<p><u>A) Non-completed Works</u></p> <p><u>B) Completed Works</u></p> <p><u>C) Specific Construction Experience</u></p>				
-------------------------------------------------------------------------------------------------------------------------	--	--	--	--

I certify that the above works were successfully carried out by me (the bidder). ***Attach Completion Certificates /Substantial completion certificate***

.....
(Signature of Bidder)

.....
(Date)

*Value in KShs using Central Bank of Kenya mean exchange rate at a reference date 7 days before date of BID opening.

UPGRADING TO BITUMEN WORKS OF C467 EMALI -UKIA ROAD PROJECT

SCHEDULE 7: SCHEDULE OF ONGOING PROJECTS

DESCRIPTION OF WORKS	NAME AND ADDRESS OF CLIENT	DATE OF COMMENCE MENT	DATE OF COMPLETION	VALUE OF CONTRACT SUM (KSHS)	VALUE COMPLETED UP TO DATE %	PHYSICALLY COMPLETED UP TO DATE %

I certify that the above works are being carried out by me and that the above information is correct.

.....

(Signature of Bidder)

Schedule of Supplementary Information

.....

(Date)

65

UPGRADING TO BITUMEN WORKS OF C467 EMALI -UKIA ROAD PROJECT

SCHEDULE 8: SHEDULE OF BASIC RATES OF MATERIALS

This schedule has been omitted in view of the provisions of Clause 70, Conditions of Contract Part II (Conditions of Particular Application) given in Section 6B of this document.

SCHEDULE 9: SCHEDULE OF LOCAL LABOUR BASIC RATES

(Ref: Conditions of Contract Part II, Clause 70)

This schedule has been omitted in view of the provisions of clause 70 of Condition of Contract part II (Condition of Particular Application) given in section 8 B of this document.

NOTE: Categories to be generally in accordance with those used by the Kenya Building Construction Engineering and Allied Trade Workers Union.

SCHEDULE 10: FINANCIAL STANDING

- 1 Submit copies of audited profit and loss statements and balance sheet for the last five calendar years and estimated projection for the next two years with certified English translation where appropriate.
- 2 Give turnover figures for each of the last three (3) financial years. Quote in millions and decimal thereof.

	Year 2016	Year 2017	Year 2018
	KShs.	KShs.	KShs.
Road works			
Other civil Engineering works			
Other (specify)			
Total			

SUMMARY OF ASSETS AND LIABILITIES OF THE AUDITED FINANCIAL STATEMENTS OF THE LAST THREE (3) FINANCIAL YEARS

	Year 2016	Year 2017	Year 2018
	KShs.	KShs.	KShs.
1. Total Assets			
2. Current Assets			
3. Bank Credit Line Value			
4. Total Liabilities			
5. Current Liabilities			
6. Net Worth (1-4)			
7. Working capital (2+3-5)			

(a) Name/Address of Commercial Bank providing credit line

.....
.....

(b) Total amount of credit line KShs.....

Schedule of Supplementary Information

66

Attach certified copies of financial bank statements of the last three years.

Attach a certified copy of Undertaking of the Bank to providing the credit.

SCHEDULE 11: OTHER SUPPLEMENTARY INFORMATION

1. Financial reports for the last three years, balance sheets, profit and loss statements, auditors' reports etc. List them below and attach copies.

.....
.....
.....
.....
.....

2. Evidence of access to financial resources to meet the qualification requirements. Cash in hand, lines of credit etc. List below and attach copies of supporting documents

.....
.....
.....
.....
.....

3. Name, address, telephone, telex, fax numbers of the Bidders Bankers who may provide reference if contacted by the Contracting Authority.

.....
.....
.....

4. Information on current litigation in which the Bidder is involved.

OTHER PARTY (IES)	CAUSE OF DISPUTE	AMOUNT INVOLVED (KSHS)

I certify that the above information is correct.

.....

Date

.....

Signature of Bidder

SCHEDULE 12: WORK METHODOLOGY

Give a brief description of how you plan to carry out the works including traffic management, quality assurance of works and any designs to be carried out by the Bidder within the contract period, in not less than five (5) pages and not more than fifteen (15) pages.

The Works execution programme should include all relevant information to the project. The information given should be clear, not flawed description and compliance to standard and special specification.

Note Works Execution programme is different from form “programme of works referred in FIDIC and Standard Specification for Roads and Bridge Construction. The said “programme of works” is but part of Works Execution Programme (WEP).

The Content s of Works Execution Programme shall include: **i.**

General information

a) Project data

- Project name,
- financier,
- employer,
- implementing agency
- contract period,
- date of completion,
- defects liability period,
- date of submission of works execution programme,

b) **Scopes of works** A brief description of the project which includes major work items.

ii. Mobilization Management Plan

- The Plan should show, the location of site office and site organization chart,
- Personnel management plan (Head Office and Site Office staff)
- Deployment plan and schedule of key personnel together with their qualification, and

experience statements are shown in WEP. The information in this part includes; name, address, ID, phone number, assigned work types, Subcontractor's information and wage payment plan are also to be included if necessary. ▪ Equipment management plan

List of the equipment's: Name, type, manufacturer, usage, number, schedule. The bidder shall prepare the maintenance and repair plan for all the equipments.

iii. Work execution schedule

- a) Signed Programme of works
- b) Signed cash flow plan during the contract period

It is desirable that work execution schedule includes time frame of each activity such as in bar chart format.

iv. Quality and Quantity Management

- Method statement

This includes Work procedures, order and methods for execution.

- Proposal on material testing.

Material and structural test methods, test laboratory, test frequency, standard values. The relevant clause on quality in SSRBC should also be incorporated.

- Proposal on measurements

- Photograph plan

The bidder shall provide a photograph plan to record the progress and proof of quality control, measurement and any event that may arise. Type of works, filming item description, filming frequency and filming location mapping should be incorporated in the plan.

v. Safety management plan

This includes but not limited compliance with safety rules and regulation, traffic control and detour plans, emergency contact list

For quick actions during emergency, emergency contact list should be in WEP and shared with staff in the Authority.

vi. Environmental and social management plan

When the negative impacts on third parties during the execution are predicted, the management and mitigation plans should be included in WEP. For example, if earthwork likely cause dust problem around the working site, the contractor needs to make a plan for water spraying; how often and what time water is sprayed, how many water-spraying vehicles are mobilized, and how many workers are assigned. The following issues are also necessary to be considered in the plan.

- ✓ Soil erosion on slopes and sedimentation deposition on the drainage works.
- ✓ Preservation of trees and shrubbery
- ✓ Entrance and accidental spillage of solid matters, debris, pollutants and waste into water sources.
- ✓ Disposal of waste material ✓ HIV prevention.

Note:

Works Execution Programme to be submitted by the bidder shall not be less than five (5) pages covering all the above stated items.

SECTION 8: FORM OF AGREEMENT

SECTION 8: FORM OF AGREEMENT

THIS AGREEMENT is made on the day of..... 20
..... between the Kenya Rural Roads Authority of P. O. Box 48151 - 00100, Nairobi,
Kenya hereinafter called "the Employer" of the one part and

..... hereinafter called "the
Contractor" of the other part.

WHEREAS the Employer is desirous that certain works should be executed, viz.

Upgrading to bitumen works of C467 Emali -Ukia road project

and has accepted a Bid by the

Contractor for the execution completion and maintenance of such works NOW THIS
AGREEMENT WITNESSETH as follows:

In this agreement words and expressions shall have the same meanings as are respectively
assigned to them in the Conditions of Contract hereinafter referred to.

The following document shall be deemed to form and be read and construed as part of this
Agreement, viz.:

- The said BID dated
- The Conditions of Contract Part II
- The Conditions of Contract Part I
- The Standard and Special Specifications
- The Priced Bill of Quantities
- The Letter of Acceptance
- Schedules of Supplementary Information
- The Drawings
- Schedules of Supplementary Information
- The Priced Bill of Quantities
- Other documents as may be agreed and listed

All aforesaid documents are hereinafter referred to as "The Contract".

In consideration of the payment to be made by the Employer to the Contractor, the Contractor
hereby covenants with the Employer to execute, complete and maintain the works in conformity in
all respects with the provisions of the Contract.

The Employer hereby covenants to pay the Contractor in consideration of the execution,
completion and maintenance of the works the Contract Price at the times and in the manner
prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused their respective common seals to be hereto affixed (or have hereunto set their respective hands and seals) on the day and year first above written.

SIGNED AND DELIVERED

By the said Employer:

(Director General, Kenya Rural Roads Authority)
For and on behalf of the said Employer.

In the presence of:

(Name and Designation of Witness)

.....
(Signature of Witness)

.....
(Address of witness)

By the said Contractor:

In the presence of:

(Name and Designation of Witness)

.....
(Signature of Witness)

.....
(Address of witness)

SECTION 9: FORMS OF PERFORMANCE BID SECURITY AND ADVANCE PAYMENT GUARANTEE (UNCONDITIONAL)

PERFORMANCE BANK GUARANTEE

To
Director General,
Kenya Rural Roads Authority,
P.O. Box 48151 - 00100, NAIROBI.

WHEREAS(hereinafter called "the Contractor")

**has undertaken in pursuance of Contract NoDatedto
upgrading to bitumen works of C467 Emali -Ukia road project**

(hereinafter called the "Contract")

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bid Security by a recognized bank for the sum specified in the Appendix to Form of Bid as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of

KShs.....(amount in figures)

KShs.....
.....(amount in words)

and we undertake to payment to you, upon your first written demand and without cavil or argument, any sum or sums within and up to the limits as aforesaid without your needing to prove or show grounds or reasons for the sum specified therein.

We hereby waive the necessity of you demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract Documents which may be made between you and the Contractor shall in any way release us from any liability under this Guarantee and we hereby waive notice of any such change, addition or modification

This Guarantee shall be valid until 28 days after issuing of the Taking Over Certificate.

SIGNATURE AND SEAL OF BANK.....

Name of Signatory.....

Name of bank.....

Address.....Date

SECTION 10: STANDARD SPECIFICATIONS

SECTION 10: STANDARD SPECIFICATIONS

The Standard Specifications referred to in this document is the *Standard Specifications for Road and Bridge Construction, 1986 Edition* published by the Ministry of Transport and Communications. This document shall form part of the Contract

Work shall be carried out in accordance with the Standard Specification except as supplemented or revised in the Special Specification.

SECTION 11: SPECIAL SPECIFICATIONS

Special Specification

SECTION 11: SPECIAL SPECIFICATIONS

TABLE OF CONTENTS

SECTION 1 – GENERAL	81
101 LOCATION AND EXTENT OF CONTRACT	81
104 PROGRAMME OF EXECUTION OF THE WORKS	81
105 ORDER OF EXECUTION OF WORKS	82
107 TAKING OVER CERTIFICATE	82
108 METHOD OF CONSTRUCTION AND HOURS OF ATTENDANCE BY THE ENGINEER'S REPRESENTATIVE ON SITE	82
109 NOTICE OF OPERATIONS	82
117 HEALTH, SAFETY AND ACCIDENTS	82
119 USE OF EXPLOSIVES	83
120 PROTECTION OF EXISTING WORKS	83
121 DIVERSION OF SERVICES	83
123 LIAISON WITH GOVERNMENT AND POLICE OFFICIALS	84
124 LAND FOR ALL CAMPS SITES AND FOR THE CONTRACTOR'S OWN PURPOSES, INCLUDING TEMPORARY WORKS	84
126 MATERIAL AND MANUFACTURED ARTICLES	84
128 STORAGE OF MATERIALS	84
129 TEST CERTIFICATES	85
131 SIGNBOARDS	85
132 HOUSING ACCOMMODATION FOR THE RESIDENT ENGINEER AND HIS STAFF, OFFICE AND LABORATORY INCLUDING FURNITURE.... Error! Bookmark not defined.	
132.1 HOUSING AND ACCOMMODATION FOR THE ENGINEER'S SENIOR STAFF..... Error! Bookmark not defined.	
132.4 HOUSING ACCOMMODATION FOR ENGINEER'S JUNIOR STAFF Error! Bookmark not defined.	
ENGINEER'S OFFICE, FURNITURE AND EQUIPMENT..... Error! Bookmark not defined.	
ENGINEER'S LABORATORY AND SURVEY EQUIPMENT Error! Bookmark not defined.	137
ATTENDANCE UPON THE ENGINEER AND HIS STAFF.... Error! Bookmark not defined.	
138 VEHICLES AND DRIVERS FOR THE ENGINEER AND HIS STAFF AND METHOD OF PAYMENT..... Error! Bookmark not defined.	
139 RECEIPTED ACCOUNTS	85
140 PAYMENT OF OVERTIME FOR ENGINEER'S JUNIOR STAFF	85
141 MEASUREMENT AND PAYMENT	86
142 LIQUIDATED DAMAGES	86
143 ENVIRONMENTAL PROTECTION	86
SECTION 2 - MATERIALS AND TESTING OF MATERIALS	87
SECTION 3 - SETTING OUT & TOLERANCES	88
301 SETTING OUT	88
SECTION 4- SITE CLEARANCE AND TOP SOIL STRIPPING	89
401 SITE CLEARANCE	89
402 REMOVAL OF TOPSOIL	89
SECTION 5 - EARTHWORKS	90
504 PREPARATION PRIOR TO FORMING EMBANKMENT	90
505 CONSTRUCTION OF EMBANKMENTS	90
508 COMPACTION OF EARTHWORKS	90
511 BORROW PITS	91
517 MEASUREMENT AND PAYMENT	91
SECTION 6 - QUARRIES, BORROW PITS, STOCKPILES AND SPOIL AREAS	92

601	GENERAL	92
SECTION 7 - EXCAVATION AND FILLING FOR STRUCTURES 93		
703	EXCAVATION OF FOUNDATIONS FOR STRUCTURES	Error! Bookmark not defined. 707
	BACKFILLING FOR STRUCTURES	Error! Bookmark not defined. 709
	EXCAVATIONS FOR RIVER TRAINING AND NEW WATER COURSES	Error! Bookmark not defined.
710	STONE PITCHING	Error! Bookmark not defined.
711	GABIONS	93
712	RIP-RAP PROTECTION WORK.....	Error! Bookmark not defined.
714	BACKFILL BELOW STRUCTURES	93
SECTION 8 - CULVERTS AND DRAINAGE WORKS 94		
801	SCOPE OF SECTION	94
804	EXCAVATION FOR CULVERTS AND DRAINAGE WORKS	94
805	EXCAVATION IN HARD MATERIAL	94
809	BEDDING AND LAYING OF PIPE CULVERTS	95
810	JOINTING CONCRETE PIPES	95
812	BACKFILLING OVER PIPE CULVERTS	95
	SUBSOIL DRAINS.....	95
	FILTER FABRIC TO SUBSOIL DRAINS	96
815	INVERT BLOCK DRAINS AND HALF ROUND CHANNELS	96
817	REPAIRS TO DRAINS	96
818	SCOUR CHECKS	97
819	CLEANING AND MAINTENANCE	97
SECTION 9 - PASSAGE OF TRAFFIC..... 98		
901	SCOPE OF THE SECTION	98
903	MAINTENANCE OF EXISTING ROADS.....	Error! Bookmark not defined. 904
	CONSTRUCTION OF DEVIATIONS	Error! Bookmark not defined.
906	PASSAGE OF TRAFFIC THROUGH THE WORKS	98
907	SIGNS, BARRIERS AND LIGHTS	98
909	ASSISTANCE TO PUBLIC	99
912	MEASUREMENT AND PAYMENT	99
SECTION 11 – SHOULDERS TO PAVEMENT 100		
1101	GENERAL	100
1102	MATERIAL FOR CONSTRUCTION OF SHOULDERS	Error! Bookmark not defined.
1105	SURFACE TREATMENT OF SHOULDERS	Error! Bookmark not defined.
1106	MEASUREMENT AND PAYMENT	100
SECTION 12 - NATURAL MATERIAL SUBBASE AND BASE 101		
1201	GENERAL	101
1203	MATERIAL REQUIREMENTS	101 1209
	MEASUREMENT AND PAYMENT	101 1211
	REPROCESSING EXISTING PAVEMENT LAYERS.....	Error! Bookmark not defined.
SECTION 13 – GRADED CRUSHED STONES..... Error! Bookmark not defined.		
1301	MATERIAL REQUIREMENTS.....	Error! Bookmark not defined.
1302	LAYING AND COMPACTION.....	Error! Bookmark not defined.
SECTION 14- CEMENT TREATED MATERIALS..... Error! Bookmark not defined.		
1401	CEMENT TREATMENT	Error! Bookmark not defined. 1403
	LIME TREATMENT	Error! Bookmark not defined. 1409
	PROTECTION AND CURING	Error! Bookmark not defined.
1412	MEASUREMENT AND PAYMENT.....	Error! Bookmark not defined.
SECTION 15 - BITUMINOUS SURFACE TREATMENTS Error! Bookmark not defined.		
	PART A - GENERAL	Error! Bookmark not defined.

1501A GENERAL	Error! Bookmark not defined.
PART B - PRIME COAT AND TACK COAT	Error! Bookmark not defined.
1502B MATERIALS FOR PRIME COAT AND TACK COAT.	Error! Bookmark not defined.
1503B PREPARATION OF SURFACE	Error! Bookmark not defined.
PART C – SURFACE DRESSING	Error! Bookmark not defined.
1502C MATERIALS FOR SURFACE DRESSING	Error! Bookmark not defined.
MATERIALS FOR SURFACE DRESSING.	Error! Bookmark not defined.
1503C SPRAY AND SPREAD RATES OF BITUMEN AND CHIPPINGS.	Error! Bookmark not defined.
1505C PRE-COATED CHIPPINGS.....	Error! Bookmark not defined.
1511C MEASUREMENT AND PAYMENT.....	Error! Bookmark not defined.

SECTION 16 - BITUMINOUS MIX BASES, BINDER COURSES AND WEARING COURSES

.....	Error! Bookmark not defined.
PART A – GENERAL.....	Error! Bookmark not defined.
1601A SCOPE OF PART A	Error! Bookmark not defined.
1602A REQUIREMENTS FROM OTHER SECTIONS	Error! Bookmark not defined.
1603A CONSTRUCTION PLANT	Error! Bookmark not defined.
1604A PREPARATION OF SURFACE	Error! Bookmark not defined.
1605A DESIGN AND WORKING MIXES	Error! Bookmark not defined.
1606A SITE TRIALS.....	Error! Bookmark not defined.
1607A MIXING OF AGGREGATES AND BITUMEN.....	Error! Bookmark not defined.
1608A TRANSPORTING THE MIXTURE.....	Error! Bookmark not defined.
1609A LAYING THE MIXTURE.....	Error! Bookmark not defined.
1610A COMPACTION.....	Error! Bookmark not defined.
1611A FINISHING, JOINTS AND EDGES	Error! Bookmark not defined.
1612A SAMPLING AND TESTING OF BITUMINOUS MIXTURES. Error! Bookmark not defined.	Error! Bookmark not defined.
1613A QUALITY CONTROL TESTING.....	Error! Bookmark not defined.
1614A TOLERANCES	Error! Bookmark not defined.
1615A MEASUREMENT AND PAYMENT.....	Error! Bookmark not defined.
PART B - ASPHALT CONCRETE FOR SURFACING	Error! Bookmark not defined.
1601B DEFINITION	Error! Bookmark not defined.
1602B MATERIALS FOR ASPHALT CONCRETE TYPE 1	Error! Bookmark not defined.
1607B MEASUREMENT AND PAYMENT.....	Error! Bookmark not defined.
(a) Materials.....	Error! Bookmark not defined.

1703(A) LEVELLING CONCRETE (CLASS 15/20) FOR BOTTOM SLAB INCLUSIVE OF COST OF FORM WORKS	Error! Bookmark not defined.
1703(B) REINFORCING BARS OF WALLS AND SLABS.....	Error! Bookmark not defined.
1703 (C) FORMWORK FOR CULVERT WALLS AND SLABS.....	Error! Bookmark not defined.
1703(D) CONCRETE WORKS (CLASS 25/20)	Error! Bookmark not defined.

SECTION 20 - ROAD FURNITURE.....

2001 ROAD RESERVE BOUNDARY POSTS	Error! Bookmark not defined.
2003 EDGE MARKER POSTS	Error! Bookmark not defined.
2004 PERMANENT ROAD SIGNS.....	Error! Bookmark not defined.
2004B EXISTING ROAD SIGNS.....	Error! Bookmark not defined.
2005A ROAD MARKING.....	Error! Bookmark not defined.
2005B RAISED PAVEMENT MARKERS – ROAD STUDS.....	Error! Bookmark not defined.
2006 GUARDRAILS	Error! Bookmark not defined.
2007 KERBS	Error! Bookmark not defined.
2008 KILOMETRE MARKER POSTS.....	Error! Bookmark not defined.
2009 RUMBLE STRIPS	Error! Bookmark not defined.
2010 BOLLARDS.....	Error! Bookmark not defined.

2011 MEASUREMENT AND PAYMENT.....	Error! Bookmark not defined.
SECTION 22-DAYWORKS	102
2202 MEASUREMENTS AND PAYMENT	102
SECTION 25- HIV/AIDS, GENDER ISSUES, SOCIAL ISSUES AND LOCAL PARTICIPATION	103
2501 SCOPE.....	103
2502 GENERAL REQUIREMENTS	103

SECTION 1 – GENERAL

SPECIAL SPECIFICATIONS.

100 Special specification is supplementary to the Standard Specifications 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.

101 LOCATION AND EXTENT OF CONTRACT

The road is located in Makueni County. The road starts at Emali town, along Nairobi – Mombasa highway (A8) and traverses Nduundune, welfare, matiliku, kalamba and Nziu shopping centres before termination at Ukia junction (B60) a total of 41.5km.

The works shall be contracted in Phases.

The first phase which comprises this contract will start at Emali town (along Nairobi – Mombasa highway) and terminate at Nduundune shopping centre.

The project road shall be 6.0 Km in length.

The site of the works shall be the area within the road reserve and any other places as may be designated by the Engineer. The major works under the contract shall involve: Site clearance, drainage works, heavy grading and graveling.

102 EXTENT OF CONTRACT.

The major works to be executed under the Contract comprise mainly of but are not limited to the following:

1. Provision of facilities to the supervising Engineers
2. site clearance and top soil removal
3. Earthworks
4. Construction of 275mm improved subgrade of minimum CBR of 14% as shown on drawings or as instructed by the Engineer.
5. Construction of gravel subbase of minimum CBR of 25% (G25) to a finished thickness of 175mm or as instructed by the Engineer.
6. Construction of cement improved gravel base of minimum CBR of 100% (CIGI100) of a finished thickness of 125mm or as instructed by the Engineer
7. Application of surface dressing using 14/20 and 6/10 double surface dressing to the shoulders and carriageway
8. The carriageway shall be 6.0m wide with shoulders (0.5m wide on both sides) constructed with the material and thickness for sub base and base as above.

9. Construction of standard pipe culverts, box culverts, bridges and the improvement of other drainage and soil erosion protection works.
10. Relocation of services as necessary
11. Installation of road furniture
12. Maintenance of passage of traffic through and around the works.
13. maintenance of works during construction and the defects liability period shall be 6 months.

104 PROGRAMME OF EXECUTION OF THE WORKS

The contractor shall provide the works programme, required under clause 14 of the Conditions of Contract, within 21 days of receipt of the Engineer's Order to commence work.

The programme shall be co-ordinated 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 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 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 review his progress and make such amendments to his rate of execution of the works as may be necessary to fulfil his obligations.

105 ORDER OF EXECUTION OF WORKS

In addition to Clause 105 of the Standard Specification the Contractor shall carry out the Works such that a continuous and consecutive output of fully completed work is achieved.

107 TAKING OVER CERTIFICATE

The minimum length of the road for which a certificate will be issued is the whole length of the project road when substantially completed.

108 METHOD OF CONSTRUCTION AND HOURS OF ATTENDANCE BY THE ENGINEER'S REPRESENTATIVE ON SITE

- a) At the commencement of the contract the Contractor will submit in writing to the Engineer, the hours which shall be considered normal working hours, together with the day of the week to be set aside for rest. When approved these shall be maintained throughout the continuance of the Contract.
- b) Notwithstanding the provision of the last paragraph of clause 108 of the Standard Specification, the Engineer's Representative normal working hours shall be 8 hours from Monday to Friday and 5 hours on Saturday with Sunday set aside for rest. If the Contractor wishes to execute permanent works outside these hours, he shall meet any extra costs arising thereof in addition to giving a day's notice in writing.

109 NOTICE OF OPERATIONS

Add the following sub- Clause.

Notification Terms

It shall be the Contractor's responsibility to notify the Engineer when any item of works scheduled are completed and ready for approval, and the contractor shall give sufficient notice to allow control test to be performed.

Explosive and Blasting

- a) The requirements of the Laws of Kenya governing explosives and other requirements and regulations of Government of Kenya and other authorities shall be complied with.
- b) No explosives of any kind shall be used without prior written consent of the Engineer.
- c) The Contractor shall be solely responsible for the provision, handling, storage and transporting of all explosives, ancillary materials and all other items of related kind whatsoever required for blasting.

117 HEALTH, SAFETY AND ACCIDENTS

Add the following:

In addition to providing, equipping and maintaining adequate first aid stations throughout the works in accordance with the laws of Kenya, the contractor shall provide and maintain on site during the duration of the Contract, a fully equipped dispensary. This shall be with a qualified Clinical Officer / Nurse who shall offer the necessary medical advice on HIV and related diseases to the Engineer's and Contractor's Site staff. The Contractor shall allow for this in the rates and be responsible for all site welfare arrangements at his own cost.

119 USE OF EXPLOSIVES

The Contractor shall ensure that he complies with the current Government regulations with regard to explosives. No explosives of any kind shall be used without prior consent of the Supervisor. The Contractor shall be solely responsible for the provision, handling, storage and transporting of all explosives ancillary materials and all other items of related kind whatsoever required for blasting.

120 PROTECTION OF EXISTING WORKS

The appropriate provisions of Section 1 of the Standard Specifications in regards to protection of existing works and services shall be adhered to in all respects.

The Contractor's attention is drawn to the fact that it is essential to maintain existing power, telephone, water, sewage and other services throughout the Contract Period.

The Contractor shall give all assistance to Engineers of the Telkom Kenya, the Kenya Power and Lighting Co. Ltd., the Ministry of Water and other relevant authorities to maintain the serviceability of their installations.

121 DIVERSION OF SERVICES

The Contractor shall acquaint himself with the location of all existing services such as telephone lines, electricity cables, water pipes, sewers etc., before execution of any works that may affect the services. The cost of determining the location of the existing services together with making good or repairing of any damage caused all to the satisfaction of the Engineer shall be included in the BID rates.

If it should become necessary, for the proper execution of the work, temporary, to remove or divert any existing pipe, cable, drain or other service, the Contractor shall obtain permission from the competent authority or owner for removal or diversion to be effected. The Contractor shall carry out all necessary work in such a manner and at such times as may be approved by such authority or owner. The cost of all removal, diversion and reinstatement and all things connected therewith shall be paid for by the Contracting Authority through the Construction Contract.

If in the opinion of the Supervisor or of the competent authority or owner, it should become necessary permanently to remove or realign any existing pipe, cable or other service, the Contractor shall obtain permission from the competent authority or owner for the removal or realignment to be effected. The Contractor shall carry out all necessary work in such a manner and at such times as may be approved by such authority or owner and the completed work shall be to the satisfaction of such authority or owner. The cost of all permanent removal and realignment and all things connected therewith shall be paid for by the Contracting Authority through the Construction Contract.

Any of the work involving repair, replacement of existing pipes, cables or other services shall be carried out by the competent authority or owners if they so desire, in which case the Contractor shall allow them the facilities and assistance they may require and shall pay the full expense of such work and all things connected therewith in the first instance, but the cost shall be paid for by the Contracting Authority through the Construction Contract.

The Contractor shall allow in his rates for the programming of his work to allow for the necessary diversion of any services.

Subject to the agreement with the Engineer, the Contractor shall be responsible for removal of alteration and relocation of existing services.

The Contractor shall indemnify the Employer against claims originating from damage to existing services or works.

123 LIAISON WITH GOVERNMENT AND POLICE OFFICIALS

The Contractor shall keep in close touch with the Police and the other Government officials of the area regarding their requirements in the control of traffic, or other matters, and shall provide all assistance or facilities, which may be required by such officials in the execution of their duties.

124 LAND FOR ALL CAMPS SITES AND FOR THE CONTRACTOR'S OWN PURPOSES, INCLUDING TEMPORARY WORKS.

Notwithstanding Clause 124 of the Standard Specification all requirements of land for temporary works and construction purposes shall be to the approval of the Engineer but the Contractor will make all necessary arrangements with the property owners concerned and pay all charges arising there from. On or before completion of the Contract, the Contractor shall remove all temporary works and shall restore all such land to the condition in which it was immediately prior to the occupation thereof as far as is reasonable and practicable. No separate payment will be made to the Contractor on account of these items and the Contractor must make due allowance for them in his rates.

Notwithstanding Clause 120 of the Standard Specifications, the Contractor shall be required to appoint competent surveyors who will liaise with the Engineer on matters related to the demarcation of the existing road reserve, site measurements, removal and reinstatement of existing services.

126 MATERIAL AND MANUFACTURED ARTICLES

Notwithstanding the provision of clause 126 of the Standard Specification, the Contractor's attention is drawn to his obligation with regard to quality and delivery schedule of materials and goods obtained from suppliers. Should the Engineer at any time be dissatisfied with any goods and materials intended for use or used by the contractor upon the works, he shall be empowered to reject goods and materials and shall order that they be replaced by others of acceptable quality. Any more work that may consequently have to be redone and the cost thereof of the new suppliers shall all be borne by the Contractor.

128 STORAGE OF MATERIALS

All materials shall be stored on Site in a manner approved by the Engineer and the Contractor shall carefully protect from the weather all work and materials which may be affected thereby.

129 TEST CERTIFICATES

When instructed by the Engineer the Contractor shall submit certificates of test from the suppliers of materials and goods required in connection with the works as the Engineer may require.

Such certificates shall certify that the materials or goods concerned have been tested in accordance with the requirements of the specifications and shall give the results of all the tests carried out. The Contractor shall provide adequate means of identifying the materials and goods delivered to the site with the corresponding certificates.

131 SIGNBOARDS

The Contractor shall provide and erect two (2) publicity signboards on the site as directed. The Engineer shall, as shown in the Drawings, direct the minimum dimensions of the boards. The boards shall be prepared, primed and painted cream and lettered in black. The boards shall be of stout construction, resistant to the effects of weather.

138 VEHICLES AND DRIVERS FOR THE ENGINEER AND HIS STAFF AND METHOD OF PAYMENT

The Contractor shall when instructed to do so provide and maintain in good working condition for the exclusive use of the Engineer and his staff throughout the contract;

- **Type 1 – 2 No.**—new 4WD Standard double cabin pickups of <2500cc engine capacity Turbo charged diesel propelled;

The Contractor shall insure comprehensively the vehicles for any licensed drivers and shall provide competent drivers during normal working hours and whenever required by the Engineer.

Should any vehicle supplied not be in road worthy condition, the Contractor shall provide an acceptable equivalent replacement vehicle until such time as the original vehicle is repaired to the satisfaction of the Engineer and returned for use.

Payment for the vehicles (up to 5,000Km.), shall be by vehicle months. Payment for mileage above 5,000Km shall be made at a rate per Kilometre. These payments shall be inclusive of all fuels, lubricants, servicing, insurance, maintenance, drivers and repairs. The rate shall include any overtime the drivers might be due or any other allowances in addition to the normal working hours. Payment shall be made under appropriate items in the Bills of Quantities.

The vehicles shall revert to the Employer at the end of the contract.

139 RECEIPTED ACCOUNTS

The Contractor may be instructed by the Engineer to make payments of general miscellaneous accounts for such items as stationary, stores and equipment and miscellaneous supervision personnel and claims or the Engineer may direct the Contractor to purchase or pay for the above. The Contractor will be paid on a prime cost basis plus a percentage for overheads and profits under appropriate items in the Bills of Quantities.

140 PAYMENT OF OVERTIME FOR ENGINEER'S JUNIOR STAFF

Delete this clause entirely and substitute with:

“If the Contractor wishes to execute permanent work outside the Supervisor’s normal working hours, as stated in Clause 108 of the Special Specification, then the payment for the overtime for the Supervisor’s Junior Staff shall be reimbursed in full by the Contractor to the Supervisor’s Representative including 20% for Administrative overheads

If the Contractor wishes to execute works on the regular basis outside the Supervisor’s normal working hours (Clause 108) over a prolonged period, the Supervisor may, if he deems necessary, employ additional supervisory staff for which the required salaries including the percentage for administrative overheads shall be in full by the Contractor to the Supervisor’s Representative and the Contractor shall provide the required adequate accommodation facilities for such staff at his own costs.

The Contractor shall not be reimbursed any of these costs.”

141 MEASUREMENT AND PAYMENT

Contrary to provisions of Standard Specifications, payment for Item (b) & (c) shall be per month for the contract period and any approved extensions. Any period beyond the contract period shall be borne by the contractor.

142 LIQUIDATED DAMAGES

Liquidated Damages at the rate of KShs. 100,000/- per day shall apply in the event of the work not being completed within the time for completion plus any extension of time which may be determined by the Engineer.

143 ENVIRONMENTAL PROTECTION

The Contractor shall ensure so far as is reasonably practicable and to the satisfaction of the Engineer; that the impact of the construction on the environment shall be kept to a minimum and that appropriate measures are taken to mitigate any adverse effects during the construction.

- (a) After extraction of materials, all borrows pits shall be backfilled to the satisfaction of the Engineer. In particular borrow pits near the project road shall be backfilled in such a way that no water collects in them.
- (b) Spilling of bitumen fuels Oils and other pollutants shall be cleared up.

The contractor shall as instructed by the Engineer carry out off – road mitigation measures to the approval and satisfaction of the Engineer and to the required STANDARD. The contractor shall obtain Environmental mitigation licence for the same and also comply with Environmental Management Coordination Act (EMCA) 1999, Environmental Impact Assessment (EIA) and Environmental Audit (EA) Regulations 2003.

Payment will be under appropriate items in the BOQ.

SECTION 2 - MATERIALS AND TESTING OF MATERIALS

All materials testing shall be in accordance with Section 2 of the Standard Specifications.

SECTION 3 SETTING OUT & TOLERANCES

301 SETTING OUT

- a) In addition to the provisions of clause 3.01(a) if the traverse points to be used for the setting out are close to the existing carriageway and interfere with construction works then the Contractor will have to relocate them to a location where they will not be disturbed. The co-ordinates and heights of all traverse points so located shall be listed and provided to the Engineer for checking and/or approval. Contractor shall also monument the new centreline every 200m along straight and all salient points along curves by a pin in the concrete beacon before commencement of any works.

The road reserve boundary posts shall have 12mm diameter steel pins embedded in concrete, 200mm long with 25mm exposed to the air, sticking out from its top surface. This pin shall be co-ordinated and heighted and result of the same shall be provided to the Engineer for approval. Cost of these works shall be included in the rates as no separate item has been provided.

Commencement of the works shall not be permitted until this basic survey data has been provided and approved by the Engineer for at least 5 KMs of the road.

- b) Detailed Setting Out

Reference pegs shall be 50mm by 50mm in section 600mm long driven 400mm firmly into ground and painted white above the ground. The offset from centre line shall be indicated by small nail 20mm to 25mm long with its head driven flush with the top of the peg.

Chainages, offset and reference elevation shall be clearly indicated to the sides of the peg to the satisfaction of the Engineer.

After cutting of benches and prior to commencement of earthworks or subgrade works, Contractor shall take cross-sections again and submit the copy of the same to Engineer for agreement. These cross-sections shall then be used as basis of measurement for all subsequent layers, unless otherwise stated.

SECTION 4- SITE CLEARANCE AND TOP SOIL STRIPPING

401 SITE CLEARANCE

Site Clearance shall be carried out as directed by the Engineer.

402 REMOVAL OF TOPSOIL

Topsoil shall include up to 200mm depth of any unsuitable material encountered in existing or newly constructed drains, drainage channels, and accesses.

SECTION 5 EARTHWORKS

504 PREPARATION PRIOR TO FORMING EMBANKMENT

Where benching is required for existing pavement to accommodate earthworks, subgrade or subbase for widening the road, the rate for compaction of existing ground shall be deemed to cover this activity.

Excavation in the pavement of the existing road shall be kept dry. In the event of water penetrating the underlying layer, construction of the subsequent layers shall be postponed until the underlying layers are dry enough to accommodate the construction plant without deforming or otherwise showing distress.

Step construction shall be carried out per layer at the joint where excavating both vertically and perpendicular to the direction of the travel. The step shall be 500mm perpendicular to the direction of the travel and 150mm vertical unless otherwise instructed by the Engineer.

Special care shall be taken when compacting the new material at the joint ensuring that specified density is achieved.

505 CONSTRUCTION OF EMBANKMENTS

Only material approved by the Engineer shall be used for fill in embankments.

Material with high swelling characteristics or high organic matter content and any other undesirable material shall not be used, unless specifically directed by the Engineer. Unsuitable material shall include:

- (i) All material containing more than 5% by weight of organic matter (such as topsoil, material from swamps, mud, logs, stumps and other perishable material)
- (ii) All material with a swell of more than 3% (such as black cotton soil)
- (iii) All clay of plasticity index exceeding 50.
- (iv) All material having moisture content greater than 105% of optimum moisture content (Standard Compaction)

Subgrade repair: Where directed by the Engineer, any localized failure in the subgrade shall be repaired by filling in selected soft, hard or natural of minimum CBR 30% and compacted in accordance with clauses in the specifications applying to normal subgrade.

Embankment repair:

Where directed by the Engineer, any localized filling in soft, hard or natural; selected material requirements shall be executed in accordance with Clause 505.

508 COMPACTION OF EARTHWORKS

At pipe culverts, all fill above ground level around the culverts shall be compacted to density of 100% MDD (AASHTO T.99) up to the level of the top of the pipes or top of the surround(s), if any and for a width equal to the internal diameter of the pipe on either side of the pipe(s) or surround(s) as applicable.

At locations adjacent to structures, all fill above ground level upto the underside of the subgrade shall be compacted to density of 105% MDD (AASHTO T.99). In case of fill around box culverts this should be carried out for the full width of the fill and for a length bounded by the vertical plane passing through the ends of the wingwalls.

Notwithstanding the provision of clause 503 of the standard Specification, Compaction of subgrade material (i.e. material immediately below formation) in cut areas shall not be carried out by the contractor in areas where the formation is formed in hard material, unless specific instructions to the contrary are issued by the Engineer.

Where improved sub-grade material shall be required, this shall be compacted and finished to the same STANDARD and tolerances as those required for normal subgrade and clauses in the specifications applying to normal subgrade shall also apply.

511 BORROW PITS

The first part of the Standard Specification is amended as follows:-

Fill material which is required in addition to that provided by excavation shall be obtained from borrow pits to be located and provided by the Contractor but to the approval of the Engineer contrary to what has been stated.

517 MEASUREMENT AND PAYMENT

Notwithstanding the provisions of clause 517 of the standard specifications, the rate for compaction of fill in soft material shall allow for the requirements of clause 508 of the

special specification and no extra payment shall be made for compaction around pipe culverts (100% MDD AASHTO T.99).

SECTION 6 QUARRIES, BORROW PITS, STOCKPILES AND SPOIL AREAS

601 GENERAL

Notwithstanding any indications to the contrary in the Standard specification the Engineer will not make available to the Contractor any land for quarries, borrow pits, stockpiles and spoil areas, except for those areas in road reserves specifically approved by him.

The contractor will be entirely responsible for locating suitable sources of materials complying with the Standard and Special Specifications, and for the procurement, Wining, haulage to site of these materials and all costs involved therein. Similarly the contractor will be responsible for the provision and costs involved in providing suitable areas for stockpiling materials and spoil dumps. Should there be suitable sites for spoil dumps or stockpiles within the road reserve forming the site of the works the Contractor may utilise these subject to the approval of the Engineer.

No additional payment will be made to the Contractor to cover costs arising from the requirements for this Clause and the Contractor must include these costs in the rates inserted into the Bills of Quantities.

SECTION 7 - EXCAVATION AND FILLING FOR STRUCTURES

711 GABIONS

Where instructed by the Engineer the Contractor will install gabions as protection works to washout areas or bridge Piers and or Abutments. Gabions shall be constructed in accordance with Clause 711 of the Standard Specification.

In cases where existing gabions have been damaged, the Contractor shall identify them and notify the Engineer for his agreement of the extent of the Work required and his approval and instructions to proceed with the Works.

The Works shall involve removal of the damaged gabions / rocks, excavation to the correct levels and grades as directed by the Engineer, and in accordance with Clause 711 of the Standard Specifications and reconstruction with new gabions and other necessary materials as necessary. The damaged gabions shall be recovered and transported to the nearest KeRRA Regional Manager's Yard or MoR Department depot.

714 BACKFILL BELOW STRUCTURES

Where instructed this shall be carried out in compliance with the requirements of Clause 507 and 804 of the Standard Specification.

SECTION 8 - CULVERTS AND DRAINAGE WORKS

801 SCOPE OF SECTION

The operations specified in this section apply to the installation of drainage works and reinstatement and improvement of the same.

In addition, this Section covers: -

- Installation of 600mm, 900mm and 1200mm diameter pipe culverts
- Construction of associated inlet and outlet structures to specifications and/or instructions

804 EXCAVATION FOR CULVERTS AND DRAINAGE WORKS

In the Standard Specifications, make the following amendments: -

- (a) In paragraph 6, line 3, and in paragraph 7, line 5 and in paragraph 11, line 6, delete "95%" and insert "100%".
- (b) Removal of Existing Pipe Culverts

Where instructed by the Engineer, the Contractor shall excavate and remove all existing blocked or collapsed culvert pipes of 450mm, 600mm and 900mm diameter including concrete surround, bedding, inlet and outlet structure.

The void left after removal of culvert pipes shall be widened as necessary to accommodate new concrete bedding, pipe and haunching.

The payment of this work shall be per linear metre of pipes removed. The void left by removal of these pipes shall be carefully preserved in order to accommodate replacement 600mm, 900mm or 1200mm diameter pipe culverts as shall be directed by the Engineer.

- (c) Removal of Other Existing Drainage Structures

When instructed by the Engineer, the Contractor shall demolish or remove any other structure and payment for this shall be made on day work basis.

- (d) Excavation for Culverts and Drainage Works

The Contractor shall carry out all excavations for new culverts and drainage works to the lines, levels, inclinations, and dimensions shown on the drawings or as instructed by the Engineer.

805 EXCAVATION IN HARD MATERIAL

In the Standard Specifications, Sub-clauses 805(a) and 805 (b) delete "95%" and insert "100%".

In sub-clause 809(a), paragraph 1, line 1, substitute "95%" with "100%".

In sub-clause 809(c), paragraph 2, line 4, between the words "compacted" and "and shaped" insert the words "to 100% MDD (AASHTO T.99)".

Hard material is material that can be excavated only after blasting with explosives or barring and wedging or the use of a mechanical breaker fitted with a rock point in good condition and operated correctly. Boulders of more than 0.2m³ occurring in soft material shall be classified as hard material.

809 BEDDING AND LAYING OF PIPE CULVERTS

Concrete pipes shall be laid on a 150mm thick concrete bed of class 15/40 and the pipes shall be bedded on 1:3 cement: sand mortar at least 50mm thick, 150mm wide and extending the full length of the barrel.

The rates inserted shall allow for compaction of the bottom of excavation to 100% MDD (AASHTO T.99).

810 JOINTING CONCRETE PIPES

The concrete pipes for the culverts shall have ogee joints and will be jointed by 1:2 cement: sand mortar and provided with fillets on the outside as described in clause 810 of the Standard Specification.

812 BACKFILLING OVER PIPE CULVERTS

In the Standard Specifications, clause 812

- 1). Delete paragraph 6 "for pipe culverts depth of 150mm", entirely.
- 2). Wherever the expression "dry density of 95% MDD (AASHTO T. 99)" occurs delete and replace with "dry density of 100% MDD (AASHTO T.99)".

The rates entered for laying of pipe culverts shall allow for backfilling to pipe culverts and compacting to 100% MDD (AASHTO T.99) and these works shall not be measured and paid for separately.

SUBSOIL DRAINS

In the event of excavation for repairs exposing local seepage, springs or unacceptably high water table, the Engineer may instruct the provision of counter fort or French drains.

These drains shall consist of a trench excavated to the alignment, width, depth and gradient instructed by the Engineer, and backfilled with approved compacted clean hard crushed rock material as specified in clause 815 of the standard specification. Where these drains lie within the carriageway the carriageway shall be reinstated with compacted stabilised gravel and surfaced with hot asphalt or a surface dressing as instructed by the Engineer.

FILTER FABRIC TO SUBSOIL DRAINS

A filter fabric shall be placed under, around and over rock fill of the subsoil drains. The provisions and placing of the fabric shall be in accordance with manufacturer's instructions and complying with Clause 804 and 814 of the Standard Specification. Payment shall be in metre square of the fabric used.

815 INVERT BLOCK DRAINS AND HALF ROUND CHANNELS

Invert Block Drains and Half Round Channels shall be constructed as shown in the drawings provided in accordance with the Standard Specifications where directed by the Engineer.

817 REPAIRS TO DRAINS

Cleaning and Repair of Existing Drains

In areas of existing side drains, mitre or outfall drains where such are blocked, the Engineer shall instruct the Contractor to clean and clear the drains to free flowing condition.

The work shall consist of:

- (a) Stripping and removal of any extraneous material to spoil including vegetation and roots in the drains to the satisfaction of the engineer.
- (b) Spreading of any spoil to the satisfaction of the Engineer.
- (c) Shaping the drains to free flowing condition as directed by the Engineer.

Measurement and Payment for cleaning drains shall be by cubic metre of drain cleaned measured as the product of plan area and vertical depth of extraneous material instructed to be removed. No extra payment will be made for removal of vegetation and roots.

Channels

The Engineer may instruct that the Contractor provides open channels in place of existing subdrains where the latter may be damaged or in any other place. The rates entered by the Contractor in the bills of quantities must include for removal and disposal of any subdrain material, excavation to line and level, backfilling and compaction as directed by the engineer. The channels shall be constructed of precast class 20/20 concrete of minimum 80mm thickness and lengths or widths not exceeding 1000mm. Joints shall be at least 15mm wide filled with 1:2 cement sand mortar.

Spoil Material

The contractor shall be responsible for removal from site of all materials excavated in the course of undertaking works in this section of the specification, unless suitable for re-use, and deposit of the material in a spoil dump to be approved by the Engineer.

818 SCOUR CHECKS

Scour checks are to be constructed in mass concrete in accordance with clause 818 of the Standard Specifications and the drawings as shall be provided.

819 CLEANING AND MAINTENANCE

Desilting of Pipe Culverts

Where instructed, the Contractor shall desilt the existing pipe culverts by removing all the material from the pipe to make them clean and free flowing.

Measurement and payment shall be by the linear metres of pipes de-silted, regardless of diameter

SECTION 9 - PASSAGE OF TRAFFIC

901 SCOPE OF THE SECTION

The Contractor shall so arrange his work to ensure the safe passage of the Traffic at all times and if necessary construct and maintain an adequate diversion for traffic complete with all the necessary road traffic signs.

The contractor shall provide to the satisfaction of the Engineer adequate warning signs, temporary restriction signs, advance warning signs, barriers, temporary bumps and any other device and personnel equipped with two way radios to ensure the safe passage of traffic through the works.

When carrying out the Works the Contractor shall have full regard for the safety of all road users.

The Contractor shall also provide sign posts and maintain to the satisfaction of the Engineer all deviations necessary to complete the works. The contractor should allow for the costs of complying with the requirements of this clause in his rates.

The contractor will be deemed to have inspected the site and satisfied himself as to the adequacy of his bid for these works and no additional payments will be made to the contractor for any expenditure on traffic control or the provision of deviations. The employer shall not be liable for inadequate prior investigations of this nature by the contractor.

906 PASSAGE OF TRAFFIC THROUGH THE WORKS

The Contractor shall arrange for passage of traffic through the works during construction whenever it is not practicable to make deviations.

Any damage caused by passing traffic through the works shall be made good at the contractor's own cost.

907 SIGNS, BARRIERS AND LIGHTS

Contractor shall provide signs, barriers and lights as shown in the drawing in Book of Drawings at the locations where the traffic is being carried off the existing road to the deviation and back again to existing road. The Contractor shall provide ramps and carry out any other measures as instructed by the Engineer to safely carry traffic from the road to deviation.

Contrary to what has been specified in this clause the road signs provided shall be fully reflectorised and in conformity with clause 9.1 of the "Manual for Traffic Signs in Kenya Part II".

909 ASSISTANCE TO PUBLIC

In addition to provision of clause 909, Contractor shall maintain close liaison with the relevant authorities to clear any broken down or accident vehicles from the deviations and the main road, in order to maintain smooth and safe flow of the traffic.

912 MEASUREMENT AND PAYMENT

(a) Assistance to Public

The Contractor will be deemed to have included cost of this item in other items and no separate payment shall be made.

SECTION 10 – GRADING WORKS

1001 GENERAL

Grading shall be carried out from the drain towards the centre of the carriageway such that corrugations, ruts and minor gullies are smoothened out. The minimum carriageway and shoulder width shall be maintained during this grading.

Once the camber of the carriageway is achieved, the outer back slope should then be shaped out to achieve a uniform stable slope.

Any material on the side drain should then be removed to ensure free flow of water. Mitre drains should be dug-out at least every 30m along the side drain to ensure storm water does not erode the side drain.

1002 MEASUREMENT AND PAYMENT

Payment for grading shall be made in m² of the area graded.

SECTION 12 - NATURAL MATERIAL GRAVELLING

1201 GENERAL

Where instructed by the Engineer, the Contractor shall undertake spot gravelling on the existing carriageway and shoulders in accordance with sections 12 of the Special Specifications.

1203 MATERIAL REQUIREMENTS

Natural materials for Gravelling shall conform to the specifications given in Section 12 of the Standard Specifications for Road and Bridge Construction. The Material shall be Gravel of Base Quality with a minimum CBR of 30% (G30)

1209 MEASUREMENT AND PAYMENT

Natural material gravelling shall be measured by the cubic metre placed and compacted upon the road calculated as the product of the compacted sectional area laid and the length.

SECTION 22-DAYWORKS

2202 MEASUREMENTS AND PAYMENT

(a) Plant

Where items of major plant listed in the schedule of Dayworks are specified by type (e.g. Concrete mixer etc.) the power rating if such items of plant are provided by the Contractor shall not be lower than the power ratings of such plant manufactured within the last two years prior to the date of BID. Any item of major plant employed upon Dayworks that has a power rating lower than specified above shall be paid for at rates lower than those in the schedule of Dayworks. The reduction in the rate payable shall be in proportion to the reduction in power rating below that specified above.

SECTION 25- HIV/AIDS, GENDER ISSUES, SOCIAL ISSUES AND LOCAL PARTICIPATION

2501 SCOPE

This specification sets out the Contractor's obligations with regard to on-site HIV/AIDS awareness campaign and preventive measures, which are to be instituted.

2502 GENERAL REQUIREMENTS

a) AIDS Prevention Campaign

The contractor shall institute an HIV/AIDS awareness campaign amongst his workers for the duration of the contract. As part of the campaign the Contractor will be required to display AIDS awareness posters in all buildings frequented by workers employed on the contract, where such buildings fall under the control of the Contractor. In addition, at least ten (10) of the Contractor's vehicles, regularly used on site shall display HIV/AIDS awareness posters. The posters shall be printed on gloss paper and shall be at least A 1 size on buildings and A3 size, or other approved size on vehicles. The message on the posters shall be supplied by the Employer through the Supervising Consultant before the posters are printed.

Aids awareness shall also be included in the orientation process of all workers employed on the contract.

The Contractor shall institute an HIV/AIDS prevention campaign amongst his workers for the duration of the contract. As part of the campaign the Contractor will be required to make condoms available to workers. The condoms shall be from an approved manufacturer and comply with the current ISO STANDARD or WHO/UNAIDS Specifications and Guidelines for Condoms, 1988, or any more recent publication. The Contractor shall make available at least 4,000 condoms every month, through dispensing machines or other approved method of distribution. The Contractor shall at all times keep the site adequately supplied with condoms.

b) HIV/AIDS Training

- Introduction

HIV/AIDS is having a Significant and increasing impact in Kenya. Statistics show a prevalence of 10-15% in the country. Interventions that stimulate the movement of people increase both the exposure to the HIV virus and the spread of the virus. Road construction has been identified as one such intervention.

KeRRA policy is to integrate HIV/AIDS awareness and prevention into all road construction and rehabilitation programmes. This is in accordance with the Third National Strategic Plan (2000-5) for HIV/AIDS prevention and control as approved by the Government of Kenya. International Bank for Reconstruction and Development (IBRD) and other organizations.

The Rehabilitation of the project roads will involve both local labour and other contractor's labour. It is a contractual requirement for the Contractor to carry out HIV/AIDS awareness and prevention activities during the construction period as stipulated in this specification.

Objective

The Objective of the HIV/AIDS training programme is to reduce the risk of exposure to and spread of the HIV virus in the area influenced by the construction. The target group will be local labourers and their supervisors employed by the works contractors. The wider community will benefit indirectly through their normal day-to- day interaction with the target group.

Scope of activities

Activities for HIV/AIDS awareness and prevention will be broad-based, targeting both individuals and groups. They may consist of:-

- (i) Information posters in public places, both on and offsite (eating houses, bars, guest houses, etc.) and on contractor's vehicles.
- (ii) Availability of socially marketed condoms
- (iii) Peer educators (reference people) drawn from the local labour and educated in HIV/AIDS issues for discussions with colleagues (estimate 1 per 100 employees).
- (iv) Small focus group discussions to disseminate information covering key issues.
- (v) Theatre groups and video presentations.
- (vi) Promotional events (such as football matches) to encourage openness and discussion of HIV/AIDS issues.
- (vii) Promotional billboards to raise awareness of the integration of construction and HIV/AIDS activities.
- (viii) Inclusion of HIV/AIDS activities at site meetings with District Aids Committee and other approved representatives.
- (ix) Availability of promotional materials such as T-shirts, caps, bumper stickers, key rings etc.

The Scope of activities may be tailored as required to meet the perceived needs and priorities of the labourers, and should involve participatory approaches to ensure that they are appropriate and have a public health impact. The scale and frequency of activities may also be adjusted to suit requirements of the target group. Education will cover.

Preventive behaviours including partner reduction, condom use, awareness and appreciation of the importance of treatment of sexually transmitted incidences (STIs); Skills including negotiating safer sex, correct condom use, purchase of condoms without embarrassment; and referral to local health centres and available services.

Tasks to be undertaken to support the above activities include:

- 1 Establishing the status and focus of all current and planned HIV/AIDS activities in the area to ensure complementarity and determining potential involvement in project activities.
- 2 Carrying out a brief review of regional activities combining road construction with HIV/AIDS campaigns to determine options, best practice key issues, constraints etc.

- 3 Reviewing of Information, Education and Communication (IEC) materials available and their relevance to road construction, making recommendations for future development of IEC materials.
- 4 Providing education and training for site personnel, supervisors and peer educators for the scope of activities as above.
- 5 Providing supervision for peer educators to ensure sustained quality of education. incentives for their continual work may be small promotional items such as T - shirts, Caps etc.
- 6 Providing mechanism for the social marketing of condoms and distribution of materials.
- 7 Monitoring activities regularly to assess effectiveness and impact. This should include an initial, interim and final assessment of basic knowledge, attitude and practices (KAP) taking account of existing data sources and recognizing the limitations due to the short time frame to show behaviour change. The KAP will be supported by qualitative information from focus group discussions.

Collaboration

HIV/AIDS activities are co-ordinated nationally by the National Aids Control Council (NACC). KeRRA, in consultation with NACC and the Ministry of Health (MOH), will co- ordinate with the provincial, district and local representatives. Representatives of local health authorities will be invited to attend training and communication activities. Activities on the construction site will be linked as far as possible with on-going HIV/AIDS awareness and prevention in the area. This will ensure complementarity of approaches, reinforcing education and minimizing duplication. In addition, these links will ensure that the target group will have access to continued information after the end of the construction period.

- Contractor Responsibilities

The Contractor will employ and designate a HIV/AIDS expert, to be approved by the Supervising Consultant, who will work closely with the Client, MOH and other implementing agencies to support the HIV/AIDS awareness and prevention activities. This will ensure maximum effectiveness and integration with construction activities. Specific, but not exclusive issues to be addressed by the Contractor are:

- Scheduling appropriate timing and durations of the implementations of HIV/AIDS activities as part of work plan for labourers and supervisors. Designated rest times such as lunch breaks and pay days should be excluded.
- Identification of suitable individuals from recruitment records of education with the implementation organization.
- Provision of suitable sites for communication activities and for condom distribution.
- Monitoring of the implementation of peer educator activities.
- Provision of support as necessary to the implementation organization.

- **Inputs**

An organization experienced in the provision of HIV/AIDS awareness and prevention activities will be selected as a subcontractor to provide the above scope of activities on behalf of the main Contractor.

- **Reporting**

The Implementation organisation will produce the following reports to be submitted to the Contractor, Consultants, KeRRA and NACC:

- Monthly progress briefs for inclusion in site meetings.
- Quarterly reports detailing activities carried out, issues, follow up, etc.

- A review report of activities in the road construction sector,
- A review report of existing I EC materials with recommendations for development of materials specifically for the road sector.
- A final report detailing the methodology and activities carried out under this project including lessons learnt, impact, liaison, with the Contractor and other parties, etc.

In addition, a report with the recommended approach for integration of HIV/AIDS awareness and prevention activities in the road construction sector will be produced. This will be a synthesis of project activities including contractual approaches, communication activities, availability of materials, liaison with existing organizations, etc. It will be developed with all parties involved in the construction activities to ensure the wide range of views and experiences gained.

• **Timing**

Activities shall commence at the start of the construction period and continue throughout the 24 months to ensure a sustained impact. Reporting and dissemination activities shall continue for three months after the project is completed to ensure integration into current practice.

SECTION 12: BILLS OF QUANTITIES

PREAMBLE TO BILL OF QUANTITIES

1. The Bills of Quantities forms part of the Contract Documents and are to be read in conjunction with the Instructions to Bidders, Conditions of Contract Parts I and II, Specifications and Drawings.
2. The brief description of the items in the Bills of Quantities is purely for the purpose of identification, and in no way modifies or supersedes the detailed descriptions given in the conditions of Contract and Specifications for the full direction and description of work and materials.
3. The Quantities set forth in the Bills of Quantities are estimated, representing substantially the work to be carried out, and are given to provide a common basis for bidding and comparing of Bids. There is no guarantee to the Contractor that he will be required to carry out all the quantities of work indicated under any one particular item or group of items in the Bill of Quantities. The basis of payment shall be the Contractor's rates and the quantities of work actually done in fulfilment of his obligation under the Contract.
4. The prices and rates inserted in the Bills of Quantities will be used for valuing the work executed, and the Engineer will only measure the whole of the works executed in accordance with this Contract.
5. A price or rate shall be entered in ink against every item in the Bills of Quantities with the exception of items that already have Provisional sums affixed thereto. The bidders are reminded that no "nil" or "included" rates or "lump-sum" discounts will be accepted. The rates for various items should include discounts if any. Bidders who fail to comply will be disqualified.
6. Provisional sums (including Day works) in the Bills of Quantities shall be expended in whole or in part at the discretion of the Engineer.
7. The price and rates entered in the Bills of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional plant to be used, labour, insurance, supervision, compliance testing, materials, erection, maintenance of works, overheads and profits, taxes and duties together with all general risks, liabilities and obligations set out or implied in the Contract, transport, electricity and telephones, water, use and replenishment of all consumables, including those required under the contract by the Engineer and his staff.
8. Errors in the pricing of the Bills of Quantities will be corrected in accordance with Clause (28) of instructions to bidders.

SECTION 13: DRAWINGS
(See the Book of Drawings)

Bill of Quantities						Page: 1
Bill No.1	General: Office administration and overheads/Preliminaries			Project:		
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
01-80-016	Provide and erect publicity signs as directed by the Engineer	NO.	2		-	LB-MB
01-80-009	Provide or rent, furnish and maintain Engineers Site Laboratory for the duration of Contract, ownership to revert to the contractor at the end of the contract	LUMP SUM		1.00	-	LB-MB
01-80-118	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	Lump sum		1.00	-	LB-MB
01-80-083	Provide laboratory furniture, equipment and reagents for use by the Engineer's representative for the entire duration of the contract as per the attached Appendix. See attached Appendix to Bill no. 1.05	item		1.00	-	LB-MB
01-80-060	Provide, fuel & maintain 2 new 4WD D/C pickups diesel engine cap. of 2,500 cc for exclusive use by RE inclusive of the first 4000km per vehicle month.	V. Month	24		-	LB
01-80-061	E.O Item 01-80-060 for mileage over 4000km per V.month (rate incl of driver, insurance, fuels, maintenance)	km	96000		-	LB
01-80-026	Allow a prime cost sum for the REs miscellaneous account	PC SUM	1,000,000.00	1.00	1,000,000.00	LB-MB
01-80-027	Extra over 01-80-026 for profits and overheads	%	1,000,000.00		-	LB-MB
01-80-030	Allow a prime cost for attendance to the RE's supervisory staff including overtime	PC SUM	5,400,000.00	1.00	5,400,000.00	LB-MB
01-80-031	Include percentage of PC sum in item 01-80-030 for contractors overhead and profit	%	5,400,000.00		-	LB-MB
01-80-006	Provide or rent, furnish and maintain Engineers Representatives office for the duration of the contract, ownership to revert to the Contractor at the end of the contract	LUMP SUM		1.00	-	LB-MB
		Total Carried Forward to Summary:				

Bill of Quantities						Page: 4
Bill No.7	EXCAVATION AND FILLING FOR STRUCTURES			Project:		
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
07-60-034	Excavate for protection works in soft material	M ³	200		-	LB-MB
07-60-036	Excavate for protection works in hard material	M ²	20		-	LB-MB
07-60-005	Provide and place 200mm thick stone pitching including grouting to aprons upstream and down stream of bridges and culverts as detailed in the drawing or as directed by the Engineer	M ²	450		-	LB-MB
07-60-091	Excavate in soft material for gabions	M ³	120		-	LB-MB
07-60-002	Provide and place gabion boxes and mattresses as specified or as directed by the Engineer	M ²	525		-	LB-MB
07-60-094	Provide and place rock fill to gabion boxes	M ³	100		-	LB-MB
07-60-013	Provide place and compact rockfill to specifications below structure	M ³	25		-	LB
Total Carried Forward to Summary:						-

Bill of Quantities					Page: 5	
Bill No.8	CULVERT AND DRAINAGE WORKS	Units	Quantity	Unit Bid Rate(Ksh)	Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
08-90-001	Excavate for inlet, out fall, catch water drains, mitre and cut-off drains in soft material	M ³	500		-	LB-MB
08-90-002	Excavate for inlet, out fall, catch water drains, mire and cut-off drains in hard material	M ³	50		-	LB-MB
08-90-003	Excavation in soft material for pipe culverts, headwalls, wingwalls, apron, toe walls and drop inlets and compact as specified or as directed by the Engineer	M ³	200		-	LB-MB
08-90-004	Excavation in hard material for pipe culverts, headwalls, wingwalls, apron, toe walls and drop inlets and compact as specified or as directed by the Engineer	M ³	20		-	LB-MB
08-90-006	Provide, lay and join 600mm I.D precast concrete pipes	M ³	60		-	LB-MB
08-90-007	Provide, lay and join 900mm I.D precast concrete pipes for cross culverts	M ³	50		-	LB-MB
08-70-020	Provide and place invert block drains with two course side slabs.	M	150		-	LB-MB
08-90-008	Provide and place class 15/20 concrete to beds	M ³	100		-	LB-MB
08-90-009	Provide and place class 25/20 concrete to headwalls, wing walls, aprons, sorrounds to walls, inlets and outlets to ipe culverts including formwork	M ³	65		-	LB-MB
08-70-056	Provide and place precast concrete slabs 600mm x 600mm x 50mm and place over open lined drains in trade centres and markets	No	90		-	LB-MB
08-70-055	Construct in concrete class 15(20) side drains scour checks as instructed	M ³	75		-	LB-MB
Total Carried Forward to Summary:					-	

Road Code C467

Section Name Ukia - Emali

Package: KeRRA/011/MKN/39/01/2019-2020

Contractor

0

Bill of Quantities					Page: 7
Bill No.12	NATURAL MATERIAL BASES AND SUBBASE			Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh
12-50-005	Provide, lay and compact to 95% AASHTO 150mm thick gravel in subbase and shoulders	M ³	10000	-	LB-MB
12-50-006	Provide, lay and compact to 95% AASHTO 150mm thick gravel in base and shoulders	M ³	9000	-	LB-MB
Total Carried Forward to Summary:					-

Bill of Quantities						Page: 9
Bill No.15 BITUMINOUS SURFACE TREATMENT AND SURFACE DRESSING		Project:				
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
15-92-001	Provide and Spray MC 30 cut-back bitumen as prime coat to carriageway, shoulders, busbays and junctions at rate 0.8-1.2 lts/m ² as prime coat	L	45000		-	LB-MB
15-92-002	Provide, heat and spray 80/100 pen grade bitumen for 1st seal on carriageway, on shoulders, busbays and junction at rate of 0.9-1.2 lts/m ²	L	50000		-	LB-MB
15-92-003	Provide, heat and spray 80/100 pen grade bitumen for 2nd seal on carriageway, on shoulders, busbays and junction at rate of 0.8-1.0 lts/m ²	L	35500		-	LB-MB
15-80-010	Provide, transport, lay and roll 10/14 mm precoated chipping with MC 30 as a single seal on AC type 1 on carriageway at a rate of 80 - 120 M2/M3 or as directed by the Engineer.	M ³	600		-	LB-MB
15-60-003	Provide, spread and roll 6/10 mm precoated chipping	M ³	450		-	MB
Total Carried Forward to Summary:						-

Bill of Quantities						Page: 10
Bill No.20	ROAD FURNITURE REPAIR AND MAINTENANCE			Project:		
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
20-50-001	Road reserve boundary posts	No.	20		-	LB
20-50-044	provide, lay and joint kerbs as directed by the Engineer(a) Straight	m	100		-	LB-MB
20-50-063	(a) Warning Sign	No.	5		-	LB-MB
20-50-064	(b) Priority,Prohibitory and mandatory signs	No.	5		-	LB-MB
20-50-065	(c) Standard Informatory signs area	No.	2		-	LB-MB
20-70-006	Provide and erect Non-Standard informative signs: (a) Less than 1m2	NO.	5		-	LB-MB
20-70-008	Provide and erect Non-Standard informative signs: (c) 2-5m2 area	NO.	5		-	LB-MB
20-70-020	Provide and erect edge marker posts as directed by the Engineer	MT	10		-	LB-MB
20-70-026	Provide and erect edge kilometre marker posts as directed by the Engineer	NO.	5		-	LB-MB
Total Carried Forward to Summary:						-

Bill of Quantities

Page: 11

Bill No.22	DAYWORKS	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
22-80-001	Crawler dozers with dozers and hydraulic attachment (a) 100 - 135kw rated flywheeled power	Hr	5		-	LB-MB
22-80-002	Crawler dozers with dozers and hydraulic attachment (a) 136 - 185kw rated flywheeled power	Hr	5		-	LB-MB
22-80-005	Motor Graders (a) 80 - 110kw rated flywheeled power	Hr	5		-	LB-MB
22-80-006	Motor Graders (b) 111 - 150kw rated flywheeled power	Hr	5		-	LB-MB
22-50-216	Vibratory Roller of 6.5 - 8.81 tonne un-ballasted weight	hr	5		-	LB-MB
22-50-217	Vibratory Roller of Over 8.91 tonne un-ballasted weight	hr	5		-	LB-MB
22-50-119	Hand propelled vibrating roller (850kg)	Hr	5		-	LB-MB
22-63-022	Wheel loader CAT 955 or Equivalent	Hr	5		-	LB-MB
22-50-022	10 tonne tipper lorry	hr	5		-	LB-MB
22-80-012	Small dumpers, 750 - 1000kg rated payload	Hr	5		-	LB-MB
22-50-108	Excavators;hydraulic wheeled dual purpose (backhoe/loader) 0.81 - 1.0m3 rated bucket capacity	Hr	5		-	LB-MB
22-80-014	Wheel loader 4WD, articulated: (a) 1.5 - 2.0m3 SAE rated bucket capacity	Hr	5		-	LB-MB
22-50-028	50mm delivery water pump and motor	hr	5		-	LB-MB
22-50-195	Self propelled water or fuel tanker 4500L min. capacity	hr	5		-	LB-MB
22-90-023	Concrete mixer (wet capacity) a) Up to 100 litres	Hrs	5		-	LB
22-67-007	Concrete P/vibrator	EH	5		-	LB-MB
22-50-242	Artisan	Hr	24		-	LB-MB
22-50-241	Unskilled labour	Hr	24		-	LB-MB
22-50-157	Office Attendants and Chainmen	Hr	24		-	LB-MB
22-50-243	Watchman(all round surveillance)	Hr	24		-	LB
22-70-005	Cement (ordinary portland)	KG	10,000		-	LB-MB
22-74-004	Kerosene	LT	10		-	LB-MB
22-70-010	Timber (wrot/ planed)	M ²	10		-	LB-MB
22-70-011	Timber (unwrot/ unplanned)	M ³	10		-	LB-MB
22-50-069	Coarse aggregates for concrete maximum 20mm	M ³	10		-	LB-MB
22-70-002	Fine aggregates(stone dust)	M ³	10		-	LB-MB
22-72-018	Coarse aggregates(chippings) - 6/10mm	M ³	10		-	LB-MB
22-72-020	Coarse aggregates(chippings) - 14/20mm	M ³	10		-	LB-MB
22-73-010	Bitumen K160	LT	10		-	LB-MB
22-73-014	80/100 Pen grade bitumen	LT	10		-	LB-MB
	Total Carried Forward to Summary:				-	

Bill of Quantities					Page: 12	
Bill No.25	CROSS CUTTING ISSUES				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
25-50-013	Allow for Video shows on HIV/AIDS related awareness and prevention matters every	Quar t ery	4		-	LB-MB
25-50-008	Allow for preparation and submission of monthly reports on HIV/AIDS awareness and prevention activities. Reports to be tabled at site meetings.	Mont hs	12		-	LB-MB
25-50-018	Allow for production and distribution of 200X150mm stickers with HIV/AIDS awareness/prevention slogan	no	200		-	LB-MB
25-50-020	Allow for production and distribution of Ball point pens with HIV/AIDS awareness / prevention slogan	no	500		-	LB-MB
25-50-012	Provide, install and maintain HIV/AIDS awareness bill boards with approved message and graphics with maximum area 4m ² fabricated as per specifications of permanent	no	2		-	LB-MB
25-50-016	Allow for production and distribution of HIV/AIDS awareness A1 size weather proved Posters printed with approved message and graphics	no	20		-	LB-MB
25-50-019	Allow for production and distribution of Key rings with HIV/AIDS awareness / prevention slogan	no	200		-	LB-MB
25-50-017	Allow for production and distribution of HIV/AIDS awareness A3 size weather proved posters printed with approved message and graphics	no	200		-	LB-MB
25-50-005	Allow for the availability of condoms to workers and staff for the duration of the contract	Mont hs	12		-	LB-MB
25-50-014	Allow for production and distribution of HIV/AIDS awareness T-Shirts printed with approved message and graphics	no	200		-	LB-MB
25-50-015	Allow for production and distribution of HIV/AIDS awareness Caps printed with approved message and graphics	no	200		-	LB-MB
25-50-007	Allow for the Engagement of specialist HIV/AIDS subcontractor to deal with prevention and awareness activities as per program to be approved by the resident	Mont hs	12		-	LB-MB
Total Carried Forward to Summary:					-	

RoadCode C467

Structure:

Package: KeRRA/011/MKN/39/01/2019-2020

Contractor

0

Bill of Quantities

Page: 1

	Summary	Project:
Item No.	Description	Amount (KShs)
1	General: Office administration and overheads/Preliminaries	-
4	SITE CLEARANCE	-
5	EARTHWORKS	-
7	EXCAVATION AND FILLING FOR STRUCTURES	-
8	CULVERT AND DRAINAGE WORKS	-
9	PASSAGE OF TRAFFIC	-
12	NATURAL MATERIAL BASES AND SUBBASE	-
14	CEMENT AND LIME TREATED SUBGRADE, SUBBASE AND BASE	-
15	BITUMINOUS SURFACE TREATMENT AND SURFACE DRESSING	-
20	ROAD FURNITURE REPAIR AND MAINTENANCE	-
22	DAYWORKS	-
25	CROSS CUTTING ISSUES	-
	<i>Sub Total</i>	-
	Contingencies (@ 10 %)	-
	VAT @ 16 %	-
	Carried to page on the form of Tender	-