

KENYA RURAL ROADS AUTHORITY NAKURU REGION

TENDER NAME: C717:EBURU - NGEMA - GILGIL

ROAD NUMBER: C717

TENDER NUMBER: KeRRA/011/NKU/039/22%/085/20/21

BID DOCUMENT FOR ROUTINE MAINTENANCE

- > INVITATION FOR TENDERS
- > INSTRUCTIONS TO BIDDERS
- > QUALIFICATION CRITERIA
- > CONDITIONS OF CONTRACT
- > APPENDIX TO FORM OF AGREEMENT
- > STANDARD FORMS
- > SPECIFICATIONS, DRAWINGS AND BILLS OF QUANTITIES

OCTOBER, 2020

The Engineer

GENERAL MANAGER (MAINTENANCE), KENYA RURAL ROADS AUTHORITY, P.O. BOX 48151–00100, NAIROBI.

The Employer

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

STANDARD TENDER DOCUMENT FOR PROCUREMENT OF WORKS

> ROUTINE MAINTENANCE WORKS

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SECTION I: INVITATION FOR TENDERS

TENDER NAME: C717:Eburu - Ngema - Gilgil

ROAD NUMBER: C717

The KERRA NAKURU invites sealed tenders for the rehabilitation of the above road.

1.1 Interested eligible candidates may obtain further information and inspect tender documents at NAKURU KeRRA office during normal working hours.

A complete set of tender documents may Tender documents may be downloaded free of charge from our website www.kerra.go.ke Kenya Rural Roads

- Authority from 28th October 2020.
- 1.2 Prices quoted should be net inclusive of all taxes, must be in Kenya shillings and shall remain valid for **120** days from the closing date of tender.
- 1.3 Completed tender documents should be enclosed in plain sealed envelopes marked with Tender name and reference number and addressed to the Regional Manager KeRRA Nakuru. Shall be deposited in the Tender Box at Nakuru Regional Office which is located at the Rift Valley Provincial Works Building 2nd floor, so as to be received on or before **12th November 2020.**
- 1.6 Tenders will be opened immediately thereafter in the presence of the tenders or their representatives who choose to attend.

For Kenya Rural Roads Authority

SECTION II: INSTRUCTIONS TO TENDERERS

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FORM OF TENDER

To: Director General Kenya Rural Roads Authority, P.O Box 48151-00100, NAIROBI. [Date]..... Dear Sir. ROUTINE MAINTENANCE: C717: Eburu - Ngema - Gilgil TENDER NAME: KeRRA/011/NKU/039/22%/085/20/21 In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities/Schedule of Rates for the execution of the above Works, We, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs. [Amount in figures]Kenya Shillings [Amount in words] (Amounts Figures) 1. We undertake, if our Tender is accepted, to commence the Works on the commencement date and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix. We agree to abide by this Tender for one Hundred and Twenty (120) days from the date fixed for 2. receiving the same and it shall remain binding upon us and may be accepted at any time before that date. 3. Unless and until a formal Agreement is prepared and executed this Tender together with your written acceptance thereof, shall constitute a binding Contract between us. 4 We understand that you are not bound to accept the lowest or any Tender you may receive. On the basis of our previous experience we are fully experienced and competent in the type of work 5. included in this Bid and we have adequate financial resources to carry out the works described within the period of 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 Tenders for and on behalf of [Name of Tenderer] of [Address of Tenderer] Witness: Name_____ Address Signature Date

APPENDIX TO FORM OF TENDER (This Appendix forms part of the tender).

PPENDIX TO FORM OF TENDER (This Append	DATA
Bid Security from Reputable bank or Insurance Institution	 For works 3M – 4M =60,000 For works 4M – 6M =80,000 For works 6M – 8M =100,000 For works 8M – 10M =150,000 NONE for Youth PWD & Women Categories
Time for Completion	6 Months
Priority of Documents	The documents forming the Contract shall be interpreted in the following order of priority: i. the Contract Agreement ii. the Letter of Acceptance iii. the Form of Tender and Appendix iv. the Conditions of Contract, Part II - Conditions of Particular Application v. the Conditions of Contract, Part I - General Conditions of Contract vi. the Specifications vii. the Drawings, viii. the Priced Bill of Quantities
Law of Contract	Laws of the Republic of Kenya
Language	English
Provision of Site	On Commencement Date
Name of Employer	The Director General, Kenya Rural Roads Authority, P. O. Box 48151 - 00100 NAIROBI
Name and Address of Employer's Representative	Constituency Roads Officer — Gilgil Kenya Rural Roads Authority, Nakuru Region, P. O. Box 17791– 20100 NAKURU
Name and Address of Engineer	The Deputy Director Kenya Rural Roads Authority, Nakuru Region, P. O. Box17791– 20100 NAKURU
Penalty to the Contractor for Employer paying workers on his behalf	10% of the amount paid to the workers.
Amount of Performance Security	NONE
Period for commencement, from Engineer's order to commence	14 days
Programme Time of Submission	Not later than 14 (fourteen) days after Commencement Date
Liquidated Damages Amount payable due to failure to complete Defects Liability period	0.01% of Contract Price per Day to a limit of 1% of Contract Price. 90 days
Period of notifying defects	90 days calculated from the date stated in the notice under sub clause 8.2

ITEM	DATA
Valuation of Works	Re-measurements with Bills of Quantities
Time within which payments to be made after interim payment certificate has been signed by Engineer	28 days
Maximum amount of Advance Payment	No Advance Payment
Minimum Amount of Interim Payment	Kshs. 500,000 (Five hundred thousand Kenya shillings only)
Percentage of Retention	No Retention
Time within which payments to be made after final payment certificate has been signed by Engineer	45 days
Currency of Payment	Kenya Shillings
Rate of Interest	Simple Interest at a rate of 2% above mean Base Lending Rate as issued by the Central Bank of Kenya.
Insurance	Not Required
Insurance	Amount of Cover
The Works, materials plants & fees- Contractor's all risks	The Contract Price stated in the Agreement +15% + Full replacement cost.
Third party injury to persons and damage to property	Minimum amount of third party insurance is Kshs. 500,000.00
Workers compensation (WIBA Workers Injury benefit Policy)	As per Work Injury Benefits Act 2007 ,Laws of Kenya
Other cover	
Arbitration Rules	CAP 49 of the Laws of Kenya
Appointing Authority	Chairman Chartered Institute of Arbitrators, Kenya Branch. Kenya Rural Roads Authority, Headquarters
Place of Arbitration	

Signature of Bidder	Date

SPECIAL INSTRUCTIONS TO TENDERERS.

1. General

- 1.1 The Employer as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The successful Tenderer will be expected to complete the Works by the Intended Completion Date specified in the said Appendix.
- 1.2 Tenderers shall include the following information and documents with their tenders, unless otherwise stated:
 - (a) Pre-Tender Site visit is MANDATORY
 - (b) Tender Security
 - (c) Power of Attorney
 - (d) Serialisation of all the pages in the bid document.
 - (e) Certified CR12 & ID Copies
 - (f) Properly and dully filled form of tender and tender questionnaire
 - (g) Must be registered as a contractor in a specific work category.
 - (h) Registration with National Construction Authority (NCA 1 to NCA 8) & Valid Licence at the date of tender submission
 - (i) Special groups must be registered with Ministry of Finance (Treasury) under the access to the Government Procurement Opportunities (AGPO) from National Government
 - (j) Certified Certificate of Incorporation
 - (k) Certified PIN/VAT Registration Certificate
 - (I) Certified Valid current Tax compliance certificate
 - (m) Experience in works of a similar nature and size for the last one year, and clients who may be contacted for further information on these contracts;
 - (n) Major items of construction equipment owned or Hired
 - (o) Qualifications and experience of key site management and technical personnel proposed for the Contract;
 - (p) Bank statements for the last two Months.
 - (q) Current litigation information Sworn Affidavit
 - (r) Business Permit/Trade Licence
 - (s) Provide Balanced Priced Bills of Quantities

ELIGIBILITY:

- (i) Those with any Pending works within the Region needs not to apply
- (ii) A company can only be awarded a maximum of one contract in the constituency
- 1.3 Power of attorney (Authorised Company signatory) The Tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible or liable for those costs.
- 1.4 A Mandatory pretender site visit is scheduled on 3rd November 2020 at 9.00am. All to assemble at the deputy Director's Office Nakuru. The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Tenderer's own expense.
- 1.5 The procurement entity's employees, committee members, board members and their relative

(spouse and children) are not eligible to participate in the tender.

- 1.6 The price to be charged for the tender document shall not exceed Kshs.1,000/=
- 1.7 The procuring entity shall allow the tenderer to review the tender document free of charge before purchase.
- 1.8. The allocated budget for these works is Kshs. **4,542,053.55** (Four Million Five Hundred and Forty Two Thousand Fifty Three Shillings Fifty Five Cents Only)

2. Tender Documents

- 2.1 The complete set of tender documents comprises the documents listed here below and any addenda issued in accordance with clause 2.4 here below:-
 - (a) These instructions to Tenderers
 - (b) Form of Tender
 - (c) Conditions of Contract and Appendix to Form of Agreement
 - (d) Specifications
 - (e) Drawings
 - (f) Bills of Quantities
 - (g) Other materials required to be filled and submitted in accordance with these Instructions and Conditions
- 2.2 The Tenderer shall examine all instructions, forms and specifications in the tender documents. Failure to furnish all information required by the tender documents may result in rejection of his tender.
- 2.3 A prospective Tenderer making inquiries of the tendering documents may notify the Employer in writing or by cable, telex or facsimile at the address indicated in the letter of invitation to tender. The Employer will respond to any request for clarification received earlier than seven [7] days prior to the deadline for submission of tenders. Copies of the Employer's response will be forwarded to all persons issued with tendering documents, including a description of the inquiry, but without identifying its source.
- 2.4 Before the deadline for submission of tenders, the Employer may modify the tendering documents by issuing addenda. Any addendum thus issued shall be part of the tendering documents and shall be communicated in writing or by cable, telex or facsimile to all Tenderers. Prospective Tenderers shall acknowledge receipt of each addendum in writing to the Employer.
- 2.5 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend, as necessary, the deadline for submission of tenders in accordance with clause 4.2 here below.

3. Preparation of Tenders

- 3.1 All documents relating to the tender and any correspondence shall be in English Language.
- 3.2 The tender submitted by the Tenderer shall comprise the following:-
 - (a) properly filled form of tender
 - (b) properly filled confidential business questionnaire
 - (c) filled form of written power of attorney
 - (d) schedule of completed civil work
 - (e) schedules of on -going works
 - (f) fraud and corruption forms
 - (g) Declaration forms.
 - (h) Initialed Priced Bill of Quantities for lump-sum Contracts on each page.
 - (i) Any other materials required to be completed and submitted by Tenderers.
- 3.3 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items for which no rate or price is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. All duties, taxes and other levies payable by the Contractor under the Contract, as of 30 days prior to the deadline for submission of tenders, shall be included in the tender price submitted by the Tenderer.

- 3.4 The rates and prices quoted by the Tenderer shall not be subject to any adjustment during the performance of the Contract.
- 3.5 The unit rates and prices shall be in Kenva Shillings.
- 3.6 Tenders shall remain valid for a period of **One Twenty (120)** days from the date of submission. However in exceptional circumstances, the Employer may request that the Tenderers extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing.
- 3.7 The Tenderer shall prepare one original of the documents comprising the tender documents as described in these Instructions to Tenderers.
- 3.8 The original shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Tenderer. All pages of the tender where alterations or additions have been made shall be initialed by the person or persons signing the tender.
- 3.9 Clarification of tenders shall be requested in writing by the tenderer to be received by the procuring entity not later than 7 days prior to the deadline for submission of tenders.
- 3.10 The procuring entity shall reply to any clarifications sought by the tenderer within **7 days** of receiving the request to enable the tenderer to make timely submission of its tender.

4. Submission of Tenders

- 4.1 The tender duly filled and sealed in an envelope shall;-
- (a) be addressed to the Employer at the address provided in the invitation to tender:
- [b] bear the name and identification number of the Contract as defined in the invitation to tender; and
- [c] provide a warning not to open before the specified time and date for tender opening.
- 4.2 Tenders shall be delivered to the Employer at the address specified above not later than the time and date specified in the invitation to tender.
- 4.3 The tenderer shall not submit any alternative offers unless they are specifically required in the tender documents.
 - Only one tender may be submitted by each tenderer. Any tenderer who fails to comply with this requirement will be disqualified.
- 4.4 Any tender received after the deadline for opening tenders will be returned to the tenderer unopened.
- 4.5 The Employer may extend the deadline for submission of tenders by issuing an amendment in accordance with sub-clause 2.5 in which case all rights and obligations of the Employer and the Tenderers previously subject to the original deadline will then be subject to the new deadline.

5. Tender Opening and Evaluation

- 5.1 The tenders will be opened in the presence of the Tenderers' representatives who choose to attend at the time and in the place specified in the invitation to tender.
- 5.2 The Tenderers' names, the total amount of each tender and such other details as may be considered appropriate, will be announced at the opening by the Employer. Minutes of the tender opening, including the information disclosed to those present will also be prepared by the Employer.
- 5.3 Information relating to the examination, clarification, evaluation and of comparison tenders and recommendations for the award of the Contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence the Employer's officials, processing of tenders or award decisions may result in the

rejection of his tender.

- 5.4 Tenders determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows:
 - (a) where there is a discrepancy between the amount in figures and the amount in words, the amount in words will prevail; 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 unit rate as quoted will prevail, unless in the opinion of the Employer's representative, there is an obvious typographical error, in which case the adjustment will be made to the entry containing that error.
 - (c) In the event of a discrepancy between the tender amount as stated in the Form of Tender and the corrected tender figure in the main summary of the Bill of Quantities/Quotation, the amount as stated in the Form of Tender shall prevail.
 - (d) The Error Correction Factor shall be computed by expressing the difference between the tender amount and the corrected tender sum as a percentage of the Corrected Builder's Work (i.e. corrected tender sum less P.C. and Provisional Sums).
 - (e) The Error Correction Factor shall be applied to all Builder's Work (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuation of variations.
 - (f) The amount stated in the tender will be adjusted in accordance with the above procedure for the correction of errors and with concurrence of the Tenderer, shall be considered as binding upon the Tenderer. If the Tenderer does not accept the corrected amount, the tender may be rejected and the Tender Security forfeited.
- 5.5 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.
- 5.6 Contract price variations shall not be allowed for contracts not exceeding one year (12 months)
- 5.7 Where contract price variation is allowed, the valuation shall not exceed 25% of the original contract price.
- 5.8 Price variation requests shall be processed by the procuring entity within 30 days of receiving the request.
- To assist in the examination, evaluation, and comparison of tenders, the Employer at his discretion, may request [in writing] any Tenderer for clarification of the tender, including breakdowns of unit rates. The

request [in writing] any renderer for clarification of the tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, telex or facsimile but no change in the tender price or substance of the tender shall be sought, offered or permitted

6.0 The Tenderer shall not influence the Employer on any matter relating to his tender from the time of the opening to the time the Contract is awarded. Any effort by the Tenderer to influence the Employer or employees in his decision on tender evaluation, tender comparison or Contract award may result in the rejection of the tender.

6. Award of Contract

- 6.1 The award of the Contract will be made to the Tenderer who has offered the lowest evaluated tender price
- 6.2 Notwithstanding the provisions of clause 6.1 above, the Employer reserves the right to accept or reject any tender and to cancel the tendering process and reject all tenders at any time prior to the award of Contract without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds for the action.

- 6.3 The Tenderer whose tender has been accepted will be notified of the award prior to expiration of the tender validity period in writing or by cable, telex or facsimile. This notification (hereinafter and in all Contract documents called the "Letter of Acceptance") will state the sum [hereinafter and in all Contract documents called the "Contract Price" which the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract. The contract shall be formed on the parties signing the contract. At the same time the other tenderers shall be informed that their tenders have not been successful.
- 6.4 The Contract Agreement will incorporate all agreements between the Employer and the successful Tenderer. It will be signed by the Employer and sent to the successful Tenderer, within 30 days following the notification of award. Within 21 days of receipt ,the successful Tenderer will sign the Agreement and return it to the Employer.
- 6.5 Within 21 days after receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Performance Security amount stipulated in the Appendix to Conditions of Contract.
- 6.6 The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.
- 6.7 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 6.8 The procuring entity shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 14 days of receiving the request from any tenderer.

7. Corrupt and fraudulent practices

- 7.1 The procuring entity requires that the tenderer observes the highest standard of ethics during the procurement process and execution of the contract. A tenderer shall sign a declaration that he has not and will not be involved in corrupt and fraudulent practices.
- 7.2 The procuring entity will reject a tender if it determines that the tenderer recommended for award has engaged in corrupt and fraudulent practices in competing for the contract in question.
- 7.3 Further a tenderer who is found to have indulged in corrupt and fraudulent practices risks being debarred from participating in public procurement in Kenya.

SECTION III: QUALIFICATION CRITERIA

Qualifi	cation Criteria		Compliance Requirements	Documentation
No.	Subject	Requirement	Single Entity	Submission Requirements
1. Elig	jibility			
1.1	Eligibility	Nationality in accordance with confidential business Questionnaire in the standard forms	Must meet requirement	Refer to standard form section 7
1.4	Incorporation & Registration	Pursuant to sub clause 1.2 the following shall be provided; - Certified Copy of Certificate of incorporation to show that the applicant is a registered company and legally authorised to do business in Kenya	Must meet	Refer to standard form section 7
		 Certified copy of certificate of registration with the National Construction Authority Category NCA 8 and above. Proof of prequalification with KeRRA Nakuru Region/AGPO 	requirement	Trefer to standard form section 7
2.1	History of Non- Performing Contracts	N/A		

Qualification Criteria		Compliance Requirements	Documentation	
No.	Subject	Requirement	Single Entity	Submission Requirements
2.2	Pending Litigation	All pending litigation shall in total not represent more than fifty percent (50%)] 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	Refer to standard form section 7
3.1	Financial Performance	Bank statement for the last 2 months	Must meet requirement	
3.2	Average Annual Construction Turnover	N/A		
4.1	General Construction Experience	Attach completion certificates to show at least works completed satisfactorily		Refer to standard form section 7
4.2(a)	Specific Construction Experience	Participation as contractor, management contractor or subcontractor, in at least one (1) contracts within the last one (1) year, each with a value of at least KShs. 500,000 (five hundred thousand), 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 Scope of Works	Must meet requirement for works above 3 Million	Refer to standard form section 7

Qualification Criteria		Compliance Requirements	Documentation	
No.	Subject	Requirement	Single Entity	Submission Requirements
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: - Routine maintenance - Spot improvement & rehabilitation works.	Must meet requirements	Refer to standard form section 7
4.3)A/ I	N/A	N/A	N/A
	Work Methodology			
5. Equ	uipment 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 OR Hire		Refer to standard form section 7
6. Cur	rent Commitment			
6.1	On-going contracts	The total value of current works on the on-going contracts must not exceed KShs. 3 million	Must meet requirements	
7. Site	e Staff			
	Foreman	The site staff shall possess minimum level set below	Must meet requirements	
		Qualification= Minimum certificate		

CONDITIONS OF CONTRACT

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CONDITIONS OF CONTRACT

1. Definitions

- 1.1 In this Contract, except where context otherwise requires, the following terms shall be interpreted as indicated:
 - "Bills of Quantities" means the priced and completed Bill of Quantities forming part of the tender [where applicable].
 - "Schedule of Rates" means the priced Schedule of Rates forming part of the tender [where applicable].
 - "The Completion Date" means the date of completion of the Works as certified by the Employer's Representative.
 - "The Contract" means the agreement entered into by the Employer and the Contractor as recorded in the Agreement Form and signed by the parties.
 - "The Contractor" refers to the person or corporate body whose tender to carry out the Works has been accepted by the Employer.
 - "The Contractor's Tender" is the completed tendering document submitted by the Contractor to the Employer.
- "The Contract Price" is the price stated in the Letter of Acceptance.
 - "Days" are calendar days; "Months" are calendar months.
 - "A Defect" is any part of the Works not completed in accordance with the Contract.
 - "The Defects Liability Certificate" is the certificate issued by Employer's Representative upon correction of defects by the Contractor.
 - "The Defects Liability Period" is the period named in the Appendix to Conditions of Contract and calculated from the Completion Date.
 - "**Drawings**" include calculations and other information provided or approved by the Employer's Representative for the execution of the Contract.
 - "Employer" Includes Central or Local Government administration, Universities, Public Institutions and Corporations and is the party who employs the Contractor to carry out the Works.

"**Equipment**" is the Contractor's machinery and vehicles brought temporarily to the Site for the execution of the Works.

"Site" means the place or places where the permanent Works are to be carried out including workshops where the same is being prepared.

"Materials" are all supplies, including consumables, used by the Contractor for incorporation in the Works.

"Employer's Representative" is the person appointed by the Employer and notified to the Contractor for the purpose of supervision of the Works.

"Specification" means the Specification of the Works included in the Contract.

"Start Date" is the date when the Contractor shall commence execution of the Works.

"A Subcontractor" is a person or corporate body who has a Contract with the Contractor to carry out a part of the Work in the Contract, which includes Work on the Site.

"Temporary works" are works designed, constructed, installed, and removed by the Contractor which are needed for construction or installation of the Works.

"A Variation" is an instruction given by the Employer's Representative which varies the Works.

"The Works" are what the Contract requires the Contractor to construct, install, and turnover to the Employer.

2. Contract Documents

- 2.1 The following documents shall constitute the Contract documents and shall be interpreted in the following order of priority;
 - (1) Agreement,
 - (2) Letter of Acceptance,
 - (3) Contractor's Tender.
 - (4) Conditions of Contract,
 - (5) Specifications,
 - (6) Drawings,
 - (7) Bills of Quantities

3. Employer's Representative's Decisions

3.1 Except where otherwise specifically stated, the Employer's Representative will decide contractual matters between the Employer and the Contractor in the role representing the Employer.

4. Works, Language and Law of Contract

4.1 The Contractor shall construct and install the Works in accordance with the Contract documents. The Works may commence on the Start Date and shall be carried out in accordance with the Program submitted by the Contractor, as updated with the approval of the

- Employer's Representative, and complete them by the Intended Completion Date.
- 4.2 The ruling language of the Contract shall be English language and the law governing the Contract shall be the law of the Republic of Kenya.

5. Safety, Temporary works and Discoveries

- 5.1 The Contractor shall be responsible for design of temporary works and shall obtain approval of third parties to the design of the temporary works where required.
- 5.2 The Contractor shall be responsible for the safety of all activities on the Site.
- Anything of historical or other interest or significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Employer's Representative of such discoveries and carry out the Employer's Representative's instructions for dealing with them.

5 Work Program and Sub-contracting

- 6.1 Within seven days after Site possession date, the Contractor shall submit to the Employer's Representative for approval a program showing the general methods, arrangements, order and timing for all the activities in the Works.
- The Contractor may sub-contract the Works (but only to a maximum of 25 percent of the Contract Price) with the approval of the Employer's Representative. However, he shall not assign the Contract without the approval of the Employer in writing. Sub-contracting shall not alter the Contractor's obligations.

7 The site

- 7.1 The Employer shall give possession of all parts of the Site to the Contractor.
- 7.2 The Contractor shall allow the Employer's Representative and any other person authorized by the Employer's Representative, access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out

8.Instructions

8.1 The Contractor shall carry out all instructions of the Employer's Representative which are in accordance with the Contract.

9 Extension of Completion Date

- 9.1 The Employer's Representative shall extend the Completion Date if an occurrence arises which makes it impossible for completion to be achieved by the Intended Completion Date. The Employer's Representative shall decide whether and by how much to extend the Completion Date.
- 9.2 For the purposes of this clause, the following occurrences shall be valid for consideration;

Delay by:-

- (a) force majeure, or
- (b) reason of any exceptionally adverse weather conditions, or
- (c) reason of civil commotion, strike or lockout affecting any of the trades employed upon the Works or any of the trades engaged in the preparation, manufacture or transportation of any of the goods or materials required for the Works, or
- (d) reason of the Employer's Representative's instructions issued under these Conditions, or
- (e) reason of the contractor not having received in due time necessary instructions, drawings, details or levels from the Employer's Representative for which he specifically applied in writing on a date which having regard to the date for Completion stated in the appendix to these Conditions or to any extension of time then fixed under this clause was neither unreasonably distant from nor unreasonably close to the date on which it was necessary for him to receive the same, or
- (f) delay on the part of artists, tradesmen or others engaged by the Employer in executing work not forming part of this Contract, or
- (g) reason of delay by statutory or other services providers or similar bodies engaged directly by the Employer, or
- (h) reason of opening up for inspection of any Work covered up or of the testing or any of the Work, materials or goods in accordance with these conditions unless the inspection or test showed that the Work, materials or goods were not in accordance with this Contract, or
- (i) reason of delay in appointing a replacement Employer's Representative, or
- (j) reason of delay caused by the late supply of goods or materials or in executing Work for which the Employer or his agents are contractually obliged to supply or to execute as the case may be, or
- (k) delay in receiving possession of or access to the Site.

10 Management Meetings

- 10.1 A Contract management meeting shall be held regularly and attended by the Employer's Representative and the Contractor. Its business shall be to review the plans for the remaining Work. The Employer's Representative shall record the business of management meetings and provide copies of the record to those attending the meeting and the Employer. The responsibility of the parties for actions to be taken shall be decided by the Employer's Representative either at the management meeting or after the management meeting and stated in writing to all who attend the meeting.
- 10.2 Communication between parties shall be effective only when in writing.

11 Defects

- 11.1 The Employer's Representative shall inspect the Contractor's work and notify the Contractor of any defects that are found. Such inspection shall not affect the Contractor's responsibilities. The Employer's Representative may instruct the Contractor to search for a defect and to uncover and test any Work that the Employer's Representative considers may have a defect. Should the defect be found, the cost of uncovering and making good shall be borne by the Contractor. However if there is no defect found, the cost of uncovering and making good shall be treated as a variation and added to the Contract Price.
- 11.2 The Employer's Representative shall give notice to the Contractor of any defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the Appendix to Form of Agreement.
- 11.3 Every time notice of a defect is given, the Contractor shall correct the notified defect within the length of time specified by the Employer's Representative's notice. If the Contractor has not corrected a defect within the time specified in the Employer's Representative's notice, the Employer's Representative will assess the cost of having the defect corrected by other parties and such cost shall be treated as a variation and be deducted from the Contract Price.

12 Bills of Quantities

12.1 The Bills of Quantities shall contain items for the construction, installation, testing and commissioning of the Work to be done by the Contractor. The Contractor will be paid for the quantity of the Work done at the rates in the Bills of Quantities for each item. Items against which no rate is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the rates for other items in the Bills of Quantities.

13 Variations

- 13.1 The Contractor shall provide the Employer's Representative with a quotation for carrying out the variations when requested to do so. The Employer's Representative shall assess the quotation and shall obtain the necessary authority from the Employer before the variation is ordered.
- 13.2 If the Work in the variation corresponds with an item description in the Bill of Quantities, the rate in the Bill of Quantities shall be used to calculate the value of the variation. If the nature of the Work in the variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of Work.
- 13.3 If the Contractor's quotation is unreasonable, the Employer's Representative may order the variation and make a change to the Contract Price, which shall be based on the Employer's Representative's own forecast of the effects of the variation on the Contractor's costs.

14 Payment Certificates and Final Account

14.1 The Contractor shall be paid after each of the following Work stages of listed (subject re-measurement the Employer's here below to by Work Representative of the done in each stage before payment lump-sum Contracts. valuation made). ln case of the for each stage

- shall be based on the quantities so obtained in the re-measurement and the rates in the Bill of Quantities. As per the site instructions issued
- 14.2 Upon deciding that Works included in a particular stage are complete, the Contractor shall submit to the Employer's Representative his application for payment. The Employer's Representative shall check, adjust if necessary and certify the amount to be paid to the Contractor within 21 days of receipt of the Contractor's application .The Employer shall pay the Contractor the amounts so certified within 30 days of the date of issue of each Interim Certificate.
- 14.3 The Contractor shall supply the Employer's Representative with a detailed final account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Employer's Representative shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 30 days of receiving the Contractor's account if it is correct and complete. If it is not, the Employer's Representative shall issue within 21 days a schedule that states the scope of the corrections or additions that are necessary. If the final account is still unsatisfactory after it has been resubmitted, the Employer's Representative shall decide on the amount payable to the Contractor and issue a Final Payment Certificate. The Employer shall pay the Contractor the amount so certified within 60 days of the issue of the Final Payment Certificate.
- 14.4 If the period laid down for payment to the Contractor upon each of the Employer's Representative's Certificate by the Employer has been exceeded, the Contractor shall be entitled to claim simple interest calculated pro-rata on the basis of the number of days delayed at the Central Bank of Kenya's average base lending rate prevailing on the first day the payment becomes overdue. The Contractor will be required to notify the Employer within 15 days of receipt of delayed payments of his intentions to claim interest.

15. Insurance

15.1 The Contractor shall be responsible for and shall take out appropriate cover against, among other risks, personal injury for his employees; loss of or damage to the Works, materials and plant; and loss of or damage to property.

16. Liquidated Damages

16.1 The Contractor shall pay liquidated damages to the Employer at the rate 0.001 per cent of the Contract price per day for each day that the actual Completion Date is later than the Intended Completion Date except in the case of any of the occurrences listed under clause 9.2. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

17. Completion and Taking Over

17.1 Upon deciding that the Work is complete the Contractor shall request the Employer's Representative to issue a Certificate of Completion of the Works, upon deciding that the Work is completed.

The Employer shall take over the Site and the Works within seven days of the Employer's Representative issuing a Certificate of Completion.

18. Termination

- 18.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract. These fundamental breaches of Contract shall include, but shall not be limited to, the following;
 - (a) the Contractor stops Work for 30 days continuously without reasonable cause or authority from the Employer's Representative;
 - (b) the Contractor is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
 - (c) a payment certified by the Employer's Representative is not paid by the Employer to the Contractor within 30 days after the expiry of the payment periods stated in sub clauses 14.2 and 14.3 hereinabove.
 - (d) the Employer's Representative gives notice that failure to correct a particular defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time.
- 18.2 If the Contract is terminated, the Contractor shall stop Work immediately, and leave the Site as soon as reasonably possible. The Employer's Representative shall immediately thereafter arrange for a meeting for the purpose of taking record of the Works executed and materials, goods, equipment and temporary buildings on Site.

Payment Upon Termination

- 19.1 The Employer may employ and pay other persons to carry out and complete the Works and to rectify any defects and may enter upon the Works and use all materials on Site, plant, equipment and temporary works.
- 19.2 The Contractor shall, during the execution or after the completion of the Works under this clause, remove from the Site as and when required within such reasonable time as the Employer's Representative may in writing specify, any temporary buildings, plant, machinery, appliances, goods or materials belonging to him, and in default thereof, the Employer may (without being responsible for any loss or damage) remove and sell any such property of the Contractor, holding the proceeds less all costs incurred to the credit of the Contractor.
- 19.3 Until after completion of the Works under this clause, the Employer shall not be bound by any other provision of this Contract to make any payment to the Contractor, but upon such completion as aforesaid and the verification within a reasonable time of the accounts therefor the Employer's Representative shall certify the amount of expenses properly incurred by the Employer and, if such amount added to the money paid to the Contractor before such determination exceeds the total amount which would have been payable on due completion in accordance with this Contract, the difference shall be a debt payable to the Employer by the Contractor; and if the said amount added to the said money be less than the said total amount, the difference shall be a debt payable by the Employer to the Contractor.

20. Corrupt Gifts and Payments of Commission

20.1 The Contractor **shall not**;

- (a) Offer or give or agree to give to any person in the service of the Employer any gifts or consideration of 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 with the Employer or for showing or forbearing to show favour or disfavour to any person in relation to this or any other contract with the Employer.
- (b) 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) shall be an offence under the Laws of Kenya.

21. Settlement of Disputes

21.1 Any dispute arising out of the Contract which cannot be amicably settled between the parties shall be referred by either party to the arbitration and final decision of a person to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be appointed by the chairman of the Chartered Institute of Arbitrators, Kenya branch, on the request of the applying party.

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SCHEDULE 1: CONFIDENTIAL BUSINESS QUESTIONAIRE

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 registered as a contractor with National Construction Authority ? Yes/No**			
Part 2(a) - Sole Proprietor:			
Your name in full			
•	Country of origin		
*Citizonahin dataila			

Part 2(b) - Partnership:

Give details of partners as follows: Name Nationality Citizenship Details* Shares 1..... 2..... 3...... Part 2(c) - Registered Company: Private or public State the nominal and issued capital of the company-Nominal Kshs. Issued Kshs. Give details of all directors as follows: Name Nationality Citizenship Details* **Shares** 1..... 2..... 3......

Part 2(d)- Interest in the Firm:

Is there any person / persons in the Kenya Rural Roads Authority who has interest in this firm? Yes /No**

..... Signature of Bidder Date

*Attach proof of citizenship,(National ID or Passport) -(Compulsory)

SCHEDULE 2: FORM OF WRITTEN POWER OF ATTORNEY

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

NOTE: 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 [Na	·
participated in the organised inspection visit of the	ne site of the works for Routine Maintenance
of	
held onday of	20
Signed(Contractor's Representative)	
(Name of Employer's Representative)	
(Signature of Employer's Representative)	(Designation)

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

SCHEDULE 4: KEY PERSONNEL

DESIGNATION	NAME	NATIONALITY	SUMMARY OF QUALIFICATIONS AND EXPERIENCE		
			Education	General Experie nce (Yrs)	Relevant Experien ce (Yrs)
Headquarters Partner/Director or other key staff (give designation)				,	
SITE OFFICE					
SITE AGENT/SITE ENGINEER					
SENIOR FOREMAN					

I certify that the above information is correct.		
(Signature of Bidder)	(Date)	

SCHEDULE 5: SCHEDULE OF COMPLETED ROADWORKS CARRIED OUT BY THE BIDDER IN THE LAST FIVE YEARS

DESCRIPTION OF WORKS AND CLIENT	TOTAL VALUE OF WORKS (KSHS)	CONTRACT PERIOD (YEARS/MONTHS)	YEAR COMPLETED

I certify that the above works were successfully carried out by me (the bidder), and that the above information is correct. (Attach Completion Certificates)				
(Title)	(Signature)	(Date)		

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

SCHEDULE 6: SCHEDULE OF ONGOING PROJECTS

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

I certify that the above works are being ca	rried out by me and that the above information is correct.
(Signature of Bidder)	(Date)

SCHEDULE 7: FINANCIAL STANDING

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

Table 1: Turnover in the last two Financial Years

	Year 2017/2018	Year 2018/2019
	Kshs.	Kshs.
Road works		
Other Civil Engineering Works		
Other (specify)		
Total		

SUMMARY OF ASSETS AND LIABILITIES OF THE AUDITED FINANCIAL STATEMENTS OF THE LAST TWO (2) FINANCIAL YEARS

Table 2: Audited Financial Statements

	Year 2017/2018	Year 2018/2019
	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
/ L \	Total amount of avadit line Kaha
(b)	Total amount of credit line Kshs
	Attach certified copies of financial bank statements of the last three years.
	Attach a certified copy of Undertaking of the Bank to provide the credit.

SCHEDULE 8: 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 or lease or evidence of access to equipment. (* Mandatory minimum number of equipment required by the Employer for the execution of the project that the bidder must make available for the Contract).

	for the execution of the project that the				
lte	Equipment Details	Minimum	No of	No. of	No. of
m		Number	Equipment	equipment to	equipment to
No.		Required for	Owned by	be	be made
		the Contract	the Bidder	hired/purchas	available for
		Execution		e d by the	the Contract
				Bidder	by the Bidder
1	A) Concrete Equipment				
		1			
	Mobile concrete mixers Concrete vibrators	I			
	2. Concrete vibrators	1			
	B) Transport (Tippers,				
2	dumpers, water				
	tankers)				
	1. 4 x 2 tippers payload 7 –	3			
	12 tonnes				
	12 torrites				
	2. Water tankers	1			
	-8,000lts capacity				
3	e, evente capacity				
	c) Earth – Moving Equipment				
	, 3 1 1	1			
	 Tracked dozers with 	I			
	dozer attachment (D6-D9				
	equivalent)	1			
		1			
	Wheeled loaders	·			
4					
	3. Motor graders (120 -				
	205kW)	1			
	_	'			
	D) Excavators				
5	4				
	1. Hydraulic crawler mounted (7 –	1			
	10 tonnes) – 0.25 – 0.4 m ³				
	SAE bucket.				
	E) Rollers				
	Self propelled single				
	drum vibrating (various				
	types)				

, ,	he list of plant detailed above, we will provide good working order for the successful completion of
(Signature of Contractor)	(Date)

SCHEDULE 9: OTHER SUPPLEMENTARY INFORMATION

1.	Financial reports for the last two years for works within Kshs.2 Million & above (balance sheets, profit and loss statements, auditors' reports etc.) Authenticated Bank Statements for the last three months for works below Two (2) Million List them below and attach copies.					
2.		ancial resources to meet the quow and attach copies of suppo	ualification requirements. Cash in hand, orting documents			
3.	contacted by the Contrac		dders Bankers who may provide reference if			
4.	Information on current litig	gation in which the Bidder is in	volved.			
0	THER PARTY (-IES)	CAUSE OF DISPUTE	AMOUNT INVOLVED (KSHS)			
l ce	ertify that the above informa	ation is correct.				
Sig	nature of Bidder		Date			

FORM OF TENDER SECURING DECLARATION

(To be filled only by Disadvantaged Groups; Youth)

	The Bidder shall complete this Form in accordance with the instructions indicated) omission
Tender No	
	(Employer)
1.	we understand that, according to your conditions, Tenders must be supported by a Tender-Securing Declaration. We accept that we will automatically be suspended from being eligible for tendering in any contract with the Procuring Entity for the period of time of Two (2) Years starting on Tender Opening Date if we are in breach of our obligation(s) under the tender conditions, because we:
	 (a) Have withdrawn our Tender during the period of Tender validity specified in the Form of Tender; (b) Do not accept the Procuring Entity's corrections of arithmetic errors in accordance with the Instructions to Tenderers; or (c) Having been notified of the acceptance of our bid by the Procuring Entity during the period of bid validity; (i) Fail or refuse to sign Contract Agreement, if required, or (ii) Fail or refuse to furnish the Performance Security, in accordance with the ITT.
3.	We understand that this Bid Securing Declaration shall expire if we are not the successful Tenderer, upon the earlier of (i) our receipt of your notification to us of the name of the successful Tenderer; or
4.	(ii) Twenty-eight (28) days after the expiration of our bid validity period. We understand that if we are a joint venture, the Tender Securing Declaration must be in the name of the Joint venture that submits the bid and if the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as partners as partners as partners.
Signed:	future partners as named in the letter of intentin the capacity
Of	
Name: person signing	this form) (complete name of
Duly authorized	d to sign the Tender for and on behalf of:
	ne of Tenderer)
Dated on	day of,

FORM OF TENDER SECURITY

a Ten	nder da	ated(Name of Contract)		the			
KNOW at Kshs Bank b	ALL PE	OPLE by these presents(hereinafter called "the(hereinafter cafor which pa elf, its successors and as his	e Bank"), are alled "the Emp yment well are ssigns by the	bound ployer" nd truly se pre	unto ') in the sum of y to be made to the	said Employer, the	
THE C	ONDITIO	ONS of this obligation are	e:				
1.	If after Tender opening the Tenderer withdraws his Tender during the period of Tender validity specified in the Instructions to Tenderers Or						
2.	If the Tenderer, having been notified of the acceptance of his Tender by the Employer during the Period of Tender validity:						
	(a)	(a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Tenderers, if required; or					
	written his der the oc conditi This gr Tende	fails or refuses to furnish Instructions to Tendered dertake to pay to the Edemand, without the Ermand the Employer will recurrence of one or both ons. Luarantee will remain in for validity, and any demand date.	ers; Employer up mployer havin note that the of the two c	to the ng to s amour ondition	above amount upo ubstantiate his demant claimed by him is ons, specifying the o uding thirty (30) day	on receipt of his first and, provided that in due to him, owing to occurred condition or as after the Period of	
	[Date [Signature of the Bank]						
		[Witness] [Seal]					

AGREEMENT

BETWEEN

THE GOVERNMENT OF THE REPUBLIC OF KENYA

AND

This Co	ontract is made this	day of	20		
020 – 8 Box 1 7	en Kenya Rural Roads Authority, ro 801346 (Hereinafter called the Em 7791-20100 Nakuru of the one nafter referred to as "the Contracto	nployer) acting thro part and also of .	ugh his represent	ative Deputy Direc	tor Roads of P.O.
Wherea	eas the Employer is desirous of ma	intaining the road n	etwork as describe	ed,	
Name o	of the road: C717:Eburu - Ngen	na - Gilgil			
•	n: Nakuru Region tuency: Gilgil				
From K	Km 0.00 to Km. 23.96				
and ha	as accepted the Offer of the Contra	ctor to execute road	d maintenance Wo	orks as defined here	einafter, AND
to exe Kshs	eas the Contractor represented to the coute the Works on the Terms	and Conditions	set forth in this	Contract, for the	Tender Sum of
NOW T	THEREFORE the Parties hereto a	gree as follows:			
Article	e 1: GENERAL PROVISIO	NS			
1.1.	The documents forming the Coi is found in the documents the E				
1.2	The language of the Contract sh	nall be English. The	law of the Contra	ct is the Republic o	f Kenya.
Article	e 2: OBLIGATIONS OF TH	IE EMPLOYER			
2.1	The Employer shall provide the	Site and right of acc	cess thereto at the	date of Commence	ement.

No approval or consent or absence of comment by the Employer shall affect the Contractor's obligations.

The Employer shall ensure that the Contractor's claims for payment are settled timeously.

The Employer shall inspect the Contractor's work regularly.

2.2

2.3

2.4

Article 3: EMPLOYER'S REPRESENTATIVE

- 3.1 The Director General of KeRRA will have overall responsibility for the Contract, and will be represented by the **Eng. Joseph Irungu**, the Regional Manager, Nakuru region for the day-to-day management of the Contract.
- 3.2 The Regional Manager has appointed **Mr. Edward Kihara** the Supervisor who hall from time to time assign work to the Contractor. The Regional Manager shall notify the Contractor in writing of any change in the Road Supervisor.
- 3.3. The Regional Manager shall provide the Contractor with an initial Work plan against which the Contractor shall carry out the Works. The Regional Manager shall be entitled to vary the Work plan according to circumstances and to issue instructions to the Contractor accordingly.

Article 4: CONTRACTOR'S OBLIGATIONS

- 4.1 The Contractor shall carry out the Works described in Annex 1 and the Work Plan Annex 3 properly and in accordance with the Contract. The Contractor shall provide all supervision, labour and tools which may be required.
- 4.2 The Contractor shall submit to the Employer for consent the name and particulars of the person authorized to receive instructions on behalf of the Contractor.
- 4.3 The Contractor shall comply with all instructions given by the Employer in respect of the Works.
- 4.4 The Contractor shall not subcontract any part of the Works without the consent of the Employer.
- 4.5 The Contractor shall, in the implementation of this contract, use labour based methods whenever possible.
- 4.6 The Contractor shall recruit labour for the Works from the local communities and shall take particular note of the Government policy on the recruitment of women and youth. The target for each group shall be 30% of the labour force, which the Contractor shall take all possible measures to attain.
- 4.7 The Contractor shall comply with the Kenya Labour Laws in respect of the rights working conditions and wages for the labour force. The task rates set for labour shall be approved by the Engineer.
- In the event of the failure of the Contractor to pay the labour the Employer shall be entitled to pay directly and to deduct the appropriate amount, plus a 10% administrative charge, from any monies due to the Contractor under the Contract.
- 4.9 The Contractor shall maintain records of time worked and remuneration paid to his/her employees and shall avail these records to the Employer for inspection when so requested.
- 4.10 The Contractor shall set fair and manageable task rates to each labourer, in consultations with the Employer.

Article 5: DESIGN BY CONTRACTOR

5.1 The Contractor shall not be responsible for any Works design.

Article 6: EMPLOYER'S RISKS

Any failure by the Employer and any delay or disruption caused by any Variation are the relevant Employer's Risks.

Article 7: TIME FOR COMPLETION

- 7.1 The Contractor shall commence the Works within 1 week upon order to commence and shall proceed expeditiously and without delay and shall complete the Works within the Time for Completion, given as 3 weeks.
- 7.2 The Contractor shall be entitled to an extension of the Time for Completion where delay is caused by an action, or failure of action of the Employer and/or any other unforeseen circumstance. All such extension of time must be requested by the contractor timeously and approved by the Employer

Article 8: TAKING OVER

- 8.1 The Contractor may notify the Employer when the Works are considered to be complete.
- 8.2 The Employer shall notify the Contractor when he considers that the Contractor has completed the Works and stating the date accordingly. Alternatively the Employer may notify the Contractor that the Works, although not fully complete, are ready for taking over, stating the date accordingly. The Contractor shall promptly complete any outstanding work.

Article 9: REMEDYING DEFECTS

9.1.1 The Employer may, within one month after the Completion date in 8.2, notify the Contractor of any defects. The Contractor shall remedy at no cost to the Employer any defects due to the Contractor's workmanship not being in accordance with the Contract.

Article 10 VARIATIONS AND CLAIMS

- 10.1 The Employer may instruct Variations
- The Employer shall value the Variations using appropriate rates within the Contract or by a lump sum price agreed between the Parties, or by new rates which the Engineer considers appropriate.

Article 11: CONTRACT PRICE AND PAYMENT

- At not less than monthly intervals, the Contractor shall measure the Works in accordance with the Bill of Quantities and shall submit a statement to the Road Supervisor. No Payment shall be made for Mobilisation and Establishment of the Site. The Road Supervisor shall certify on the statement to the Engineer that the Works have been completed satisfactorily.
- The Employer shall pay the Contractor, upon the Engineer's approval of the Contractor's statement, within 30 days of the date of the certification of the statement. If the Employer disagrees with any part of the Contractor's statement, he shall specify his reasons for disagreement when making payment. The Employer shall not be bound by any sum previously considered by him to be due to the Contractor.

Article 12: DEFAULT

- 12.1 The Employer shall give notice to the Contractor where he considers the Contractor to be in default of the Contract. If the Contractor fails to remedy the default within a stated period the Employer may give notice of the termination of the Contract.
- **12.2.** After termination the Contractor shall be entitled to payment of any unpaid balance of the value of the Works executed.

Article 13: RISK AND RESPONSIBILITY

13.1 The Contractor shall take responsibility for the care of the Works from the Commencement Date to the date of Take Over.

Article 14: INSURANCES

The Contractor, prior to commencing the Works, shall effect Third Party and Workers Compensation Insurances and provide evidence to the Employer that the required policies are in force.

Article 15: RESOLUTION OF DISPUTES

- 15.1 The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with the Contract.
- Any dispute not resolved under 15.1 shall be referred to a single Arbitrator nominated by **the Deputy Director** in whose Area the Contract is located in accordance with, and subject to the provision of the Arbitration Act of Kenya or any Statutory Modification thereof.

Article 16 CONDITIONS OF CONTRACT

- 16.1 It is understood that these Conditions of Contract follow the FIDIC Short Form of Contract which shall be referred to for any necessary clarification
- 16.2 It is hereby understood that the Annexes to the Contract shall be read together with the Contract and shall form an integral part of it.

In witness whereof of the duly authorised representatives of the Parties hereto have signed this Contract the day and the year first written at **Nakuru** Kenya.

For and on behalf of the Kenya Rural Roads Authority (KeRRA)	Contractor
Name: Eng. Joseph Irungu	Name
Designation: Deputy Director	Designation:
Sign	Sign
Witness	Witness
Name:	Name
Designation:	Designation:
Sign	Sign

ANNEX 1 THE WORKS

The Contractor shall in carrying out the maintenance Works undertake the specific tasks set out by the Engineer in this Annex. The Work shall be carried out in accordance with the Specification which are attached and form part of the Contract.

(The Engineer will list the tasks specific to each Contract which may include, among others, the following;

- Site Clearances
- Earthworks
- Culvert and Drainage Works
- Grading and Gravelling Works



Supervision Check List (1/2)

													Date	Name	Signature
Project Title:									The Engineer's Representative						
Contractor:									(Project Engineer)						
	(day/mo	neer to check contractor's work execution process. hth), mark as indicated in Filling Example, and state remarks. rogress Report.							R	esident	Engine	eer			
			before			Dur	ing e	execu	ıtion			after		Remarks	
Item		Check Point	Date /	Date	Date /	Date /	Date /	Date	Date /	Date /	Date /	Date /		Reason for unsatisfactory performar Corrective order by author Excellent point to be sp	ity (Date)
1 Execution system in general	1-1	Works Execution Programme (including its revised version if any) is submitted before the date specified in contract document													
	1-2	Works Execution Programme properly reflects the given specifications and site conditions										100			
	1-3	Execution procedures are in accordance with Works Execution Programme													
2 Equipment holding	2-1	All equipment used are properly mobilized in accordance with Works Execution Programme													
	2-2	All equipment used is well maintained during the execution of works													
3 Contractor's in- house staff	3-1	Qualified technical staff of contractor are properly assigned as specified in Works Execution Programme										170			
	3-2	Contractor's in-house key staff understand work process and schedule properly													
	3-3	Contractor's in-house staff give technical guidance and direction to workers and operators properly and timely	S												
	3-4	Communications with authority in writing is properly and timely													
4 Personnel employment	4-1	Workers and operators are deployed in accordance with Works Execution Programme													
	4-2	Wage payment is properly made on time													
5 Site base facilities	5-1	Office and stockyard are prepared in accordance with Works Execution Programme												_	
	5-2	Site is well maintained during the work execution and cleared on completion	h							П					
	5-3	Material stored on site is properly managed during the work execution													
6 Quality and quantity	6-1	Material testing, structural examination, and measurements are properly and routinely conducted based on specifications and Works Execution Programme	d				П								

Filling Example: ✓ Check point is satisfactory

☐ Check point is unsatisfactory

N/A Not applicable

Supervision Check List (2/2)

Signature

Project Title:															The Engir		
Contractor:															(Project En	gineer)	
	s (day/mo	neer to check contractor's work execution process. nth), mark as indicated in Filling Example, and state remarks. rogress Report.													Resident Er	ngineer	
			befor	e	0	Du	ring	execu	ition			afte	r		F	Remarks	
Item		Check Point	Date	Date	Date	Date	Date /	Dat	i.	Reason f	Corrective or	ory performa rder by autho point to be sp	y No.)				
6 Quality and quantity	6-2	Results of material testing, structural examination and measurements are within the specifications.	10.							П							
management	6-3	Results of material testing, structural examination, and measurements are properly compiled as reports for confirmation	•														
Work scheduling	7-1	Understanding of critical path and its reflection on scheduling are proper								П							
	7-2	Actual proceedings are periodically compared to the planned schedule described in Works Execution Programme															
	7-3	Changes caused by site conditions are properly handled to keep Works of schedule	on							П							
	7-4	All works are completed within the contract term or within the extended term as allowed										E					
Work safety management	8-1	No accident occurs to workers, operators, or third-parties.	F1					П		П							
	8-2	Safety of workers and operators is considered															
	8-3	Accident prevention efforts for third-parties are proper								П							
	8-4	Traffic and site safety devices are properly installed and managed	-11														
	8-5	Temporary facilities (e.g. scaffolding) are constantly checked															
Environmental and social	9-1	Environmental and social mitigation efforts (e.g. against noise, vibration emission, and dust) are conducted	,														
management	9-2	Waste material from site is properly disposed						П		П							
	9-3	Damage to existing roads, works and services is avoided or are repaired when it occurs															
	9-4	Transportation by vehicles is properly done with no overloading, and neither material falling, leakage, nor spillage.								П							

■ Check point is unsatisfactory

N/A Not applicable

Filling Example: ✓ Check point is satisfactory

SECTION VIII: SPECIFICATIONS, DRAWINGS AND BILLS OF QUANTITIES

ROUTINE MAINTENANCE - SPECIFICATIONS

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SPECIFICATIONS FOR ROUTINE MAINTENANCE WORKS

Standard Specification

Whenever reference is made to "The Engineer" in the specification, it shall be construed to be synonymous with "Employer's duly authorised Representative" as referred to in the Conditions of Contract.

SECTION 01 : PRELIMINARY AND GENERAL ITEMS

Scope:

This section refers to those items that are needed at the start and end of the Works or are provisional items applicable for the duration of the Works.

01-40- 001: Mobilisation and Establishment of Site

The Contractor shall provide all equipment, tools, material and temporary stores required to carry out the required Works.

The Contractor shall ensure that all possible means of protection are given to the staff at all times. Such protection shall include provision of high visibility clothing or vests for the workforce, in potentially dangerous locations. The Contractor shall also maintain first aid kits with items included on the advice of the local Medical Officer, or as directed by the Engineer.

Measurement and Payment

No separate payment shall be made for this item. The Contractor shall include the costs in the other rates for other measured items.

01-40-002 Clearance on Completion

On Completion of the Works, all temporary stores, equipment, signs and tools shall be removed from the site, and the Site left in good order to the satisfaction of the Engineer.

Measurement and Payment

The Lump Sum payment shall be made upon the approval of the Engineer that the Clearance has been satisfactorily carried out.

01-40-006 Traffic Control

The Contractor shall provide warning signs, fences, barriers, detours, which shall be properly positioned well in advance so that all traffic is well and safely accommodated for the duration of the Works.

Traffic signs and other traffic control facilities shall be kept in good condition and located in positions where they are visible to road users.

Work Method

The Contractor shall use **Labour** to carry out this item of work

Quality Control

The Engineer shall check regularly that traffic control measures are satisfactory.

Measurement and Payment

A Lump Sum shall be paid on a Monthly basis upon the approval of the Engineer that adequate Traffic Control is in place

01-40-007 Drinking Water

The Contractor shall provide safe drinking water on site for workers at a reasonable distance from all work locations, for the duration of the Works.

Quality Control

The Engineer shall check regularly that adequate supplies of water are available throughout the Site.

Measurement and Payment

A Lump Sum shall be paid on a Monthly basis upon the approval of the Engineer that adequate supplies have been provided.

SECTION 04: ROADSIDE CLEARANCE

Scope

This section covers all routine maintenance works within the road reserve and includes items such as bush clearing, pruning of tree branches, grass cutting, and removal of litter and any other debris.

04–50–002: Grass Cutting (Manual)

Grass shall be defined as any form of plant growth including small shrubs having a girth of not more than 100mm measured at height of 200mm above ground level.

The grass shall be cut to height of not more than 50 mm above the ground. The width limits shall be as instructed by the Engineer. All cut grass shall be removed from the carriageway, side drains, mitre drains and inlets and outlet drains of structures/culverts and deposited in approved spoil dumps

EA Burning of the grass shall not be allowed and care shall be taken not to damage roadside fixtures such as signs and marker posts.

This activity shall be carried out twice, each time before the rainy season or as shall be instructed by the Engineer.

Work Method

The Contractor shall use **Labour** to carry out this item of work.

Quality Control

The road width for grass cutting shall be measured at 50-m intervals and shall be free of grass after the operation.

Measurement: m²

The measurement shall be area of grass cut, based on the standard width and measured length of clearing.

Payment

The unit rate shall be full compensation, for labour, materials, tools, and incidental costs required to carry out the work.

04-50-003 Bush Clearing - heavy 04-50-004 Bush Clearing - light 04-50-005 Pruning Tree Branches

This activity involves the removal of small trees, shrubs and bushes all including their root systems, In addition, the Engineer may order the trimming of branches of large trees to improve visibility. The width limits shall be as instructed by the Engineer.

The cut material shall be collected into heaps away from the side drains and where it shall not block or interfere with visibility.

The burning of cut bush and removed trees or branches shall not be allowed.

Work Method

The Contractor shall use **Labour** to carry out this item of work

Quality Control

The width for bush clearing shall be measured at 50-m intervals and shall be free of trees or bushes.

Measurement Unit: m²

The measurement shall be the area cleared according to the specified widths and measured length of clearance.

Payment

The unit rate shall be the full compensation, for labour, materials, tools, and incidental costs required to carry out the work.

04-50-008: Clearing of Obstructions

This activity shall involve the following tasks:-

- Inspection of the road section(s) regularly
- Removal of all obstructions such as fallen trees/ branches, rock fall, landslides and broken signs away
 from the road, side drains, mitre drains and other drains, inlets and outlets of drifts, culverts and other
 structures and the safe disposal thereof outside the road formation width.
- Removal of dead animals' carcasses away for the carriageway and disposing of them as directed by the Engineer. Liaison with the Police may be necessary.

Work Method

The Contractor shall use Labour to carry out this item of work

Quality Control

The road section shall be free of any obstruction.

Measurement Unit: Provisional Sum

The measurement for this item shall be a Provisional Sum paid as necessary on a Dayworks basis.

Payment

The unit rate shall be the full compensation for the provision of labour, tools and incidental costs necessary to carry out the tasks.

SECTION 05: EARTHWORKS

05-70- 001: Grassing

This activity involves the protection / repair of erosion on embankment slopes, cut faces, shoulders, and side slopes by filling with suitable soils and compacting using appropriate tamping tools as instructed by the Engineer.

The Contractor shall plant sprigs of approved indigenous 'runner' type grass. The Contractor shall care for and water the grass until it is firmly established.

Work Method

The Contractor shall use **Labour** to carry out this item of work.

 m^2

Quality Control

- The width of the slope shall be measured at 50m intervals and shall have maximum tolerances of + / -100mm.
- The quality of grass and spacing of the sprigs shall be as directed by the Engineer

Measurement Unit

The unit of measurement shall be area calculated as the net area, measured on the slope.

Payment

The unit rate shall be full compensation, for labour, materials, tools, and incidental costs required to carry out the work.

SECTION 08: CULVERT AND DRAINAGE WORKS Scope:

This section covers all routine maintenance of the drainage system including the cleaning or desilting of the side drains, mitre drains, catch water drains, culverts, inlets and outlets, and scour checks.

08-50-002 Ditch Cleaning (Manual) - Partially Silted 08-50-003 - Fully Silted

Partially silted

Partially silted drains are those that are less than half silted and require only cleaning.

All deposited material, debris, and vegetation shall be removed and the drain shaped to the original cross-section and left in a free-draining condition. Suitable material may be used to fill depressions and potholes on the carriageway. All debris and other unsuitable material removed from the side drains shall be disposed of well clear of the drainage system in approved spoil dumps where it will not cause any obstruction or be washed back.

The side drains, mitre drains and catchwater drains shall be cleaned before the onset of the rains or as directed by the Engineer.

Work Method

The Contractor shall use **Labour** to carry out this item of work

Quality Control

- Appropriate drain templates shall be used to check and control the dimensions of the drains.
- The longitudinal profile of the drains shall be checked using boning rods, to ensure free flow.

Measurement Unit: m

The measurement shall be the length of drain desilted or cleaned to the specified cross-section.

Payment

The unit rate shall be full compensation, for labour, tools, and incidental costs required to carry out the work.

ii. Fully silted

Fully silted drains shall be those that are greater than half-silted and require re-excavation or reshaping.

All deposited material, debris, and vegetation shall be removed and the drain shaped to the original cross-section and left in a free-draining condition. Suitable material may be used to fill depressions and potholes on the carriageway. All debris and other unsuitable material removed from the side drains shall be disposed of well clear of the drainage system in approved spoil dumps where it will not cause any obstruction or be washed back.

The side drains shall be desilted or re-excavated before the onset of the rains, or as directed by the Engineer.

Work Method

The Contractor shall use Labour to carry out this item of work

Quality Control

- Appropriate drain templates shall be used to check and control the dimensions of the drains.
- The longitudinal profile of the drains shall be checked using boning rods, to ensure free flow.

Measurement Unit: m³

The measurement shall be the volume of drain re-excavated or re-shaped to the specified cross-section.

Payment

The unit rate shall be full compensation for labour, tools, and incidental costs required to carry out the work.

08- 60 - 001/2/3/4/5: Culverts Cleaning (Partially blocked)

```
08 - 60 - 001 300mm dia;
08 - 60 - 002 450mm dia;
08 - 60 - 003 600mm dia;
08 - 60 - 004 900mm dia;
08 - 60 - 005 1200mm dia
```

This activity involves the cleaning of culverts of specified sizes including pipe barrels, the outlet/inlet structures, and the outlet drains, keeping them free of all debris, weed, silt and any obstruction to ensure free passage of water at all times. The debris shall be deposited in approved spoil dumps as directed by the Engineer

Partially blocked culverts shall be those with less than half of the barrel blocked.

Correct widths and slopes of the outlet drains shall be maintained. The gradient of the outlet drain shall be not less than 2 %.

All broken culvert barrels discovered in the course carrying out this activity shall be reported to the Engineer.

This activity shall be carried out before the rains, or as directed by the Engineer.

Work Method

The Contractor shall use **Labour** to carry out this item of work

Quality Control

The culverts shall be checked as free of debris to the satisfaction of the Engineer.

Measurement Unit: m

The measurement shall be the length of culvert, including the outlet drain, cleaned

Payment

The unit rate shall be full compensation for labour, tools and incidental costs required to carry out the work.

08- 60 - 006/7/8/9/10 : Culvert Cleaning (Fully blocked):

```
08 - 60 - 006 300mm dia;
08 - 60 - 007 450mm dia;
08 - 60 - 008 600mm dia;
08 - 60 - 009 900mm dia;
08 - 60 - 010 1200mm dia
```

This activity involves the cleaning of culverts of specified sizes including pipe barrels, the outlet/inlet structures, and the outlet drains, keeping them free of all debris, weed, silt and any obstruction to ensure free passage of water at all times. The debris shall be deposited in approved spoil dumps as directed by the Engineer

Fully blocked culvert shall be those with greater than half of the barrel blocked.

Correct widths and slopes of the outlet drains shall be maintained. The gradient of the outlet drain shall be not less than 2 %.

All broken culvert barrels discovered in the course of carrying out this activity shall be reported to the Engineer.

This activity should be carried out before the onset of the rains, or as directed by the Engineer.

Work Method

The Contractor shall use **Labour** to carry out this item of work.

Quality Control

The culverts shall be checked as free from debris, to the satisfaction of the Engineer.

Measurement Unit: n

The measurement shall be the length of culvert, including the outlet drain cleaned.

Payment

The unit rate shall be full compensation for labour, tools and incidental costs required to carry out the work.

08- 70- 001: Head Wall Repair - Masonry

This activity involves the repairs to damaged head walls and wing walls built in masonry.

Where directed by the Engineer, the masonry walls shall be inspected and loose or missing stone resecured or replaced. Damaged pointing shall be repaired with cement mortar 1:4 and finished flush with the stonework.

Work Method

The Contractor shall use **Labour** to carry out this item of work

Quality Control

• The stability of the walls and the pointing shall be to the satisfaction of the Engineer.

Measurement Unit: No

The measurement shall be the number of walls repaired as directed by the Engineer.

Payment

The unit rate shall be full compensation for labour, materials, tools, and incidental costs required to carry out the work.

08-70-002 Headwall Repair - Concrete

The activity involves the repairs to damaged concrete headwalls and wing walls, and to inlet/outlet concrete aprons. Concrete walls shall be inspected and repair works carried out as instructed by the

Engineer to include breaking out and replacement of damaged concrete with similar material, and the rendering of open texture areas with cement mortar 1:4. Broken wall sections shall be re-built in 20/20 (1:2:4) concrete within formwork erected on the correct lines and levels in accordance with the Standard Drawings. Areas of new concrete and mortar shall be protected from direct sunlight and kept moist for 3 days.

Quality Control

The work shall be carried out to the satisfaction of the Engineer.

Measurement Unit: No.

The measurement shall be the number of walls/aprons repaired.

Payment

The unit shall be full compensation for labour, materials, tools, and incidental costs required to carry out the work.

08 - 70 - 008: Scour Check Repair - masonry 08 - 70 - 009: Scour Check Repair - wooden 08 - 70 - 010: Scour Check Repair - concrete

This activity involves the repair of Scour Checks using stones or wooden stakes or concrete. The construction details shall be shown in the Drawings or as instructed by the Engineer.

Scour checks shall be inspected and the repairs carried out as directed by the Engineer, which shall include replacement of missing or broken stonework and stakes; and the repair of damaged concrete, to the original lines, levels, and Specifications.

Work Method

The Contractor shall use **Labour** to carry out this item work.

Quality Control

EB

The sizes of the stakes and stones used shall be as the original construction.

The shape of the scour check shall be checked using the scour check template.

Measurement: No.

The unit rate of measurement shall be the number of scour checks repaired.

Payment

The unit rate shall be full compensation, for labour, tools, materials, and incidental costs required for carrying out the work.

08- 70- 011 Stone Pitching Repair

This activity involves the repair of stone pitching on slopes, in inlet/outlet aprons and access drifts. The

stone pitching shall be inspected and repairs carried out as directed by the Engineer, including the replacement and re-bedding of missing or loose stones; the repair of mortar jointing: and the cleaning out of weepholes, as required. All work shall be to the lines and levels of the original construction with new stonework and mortar being flush with the adjacent materials.

Work Method

The Contractor shall use **Labour** to carry out this work

Quality Control

The work shall be carried out to the satisfaction of the Engineer.

Measurement Unit:

 m^2

The measurement shall be the net surface area of the repairs.

Payment

The unit rate shall be full compensation, for labour, tools, materials, and incidental costs required to carry out the work.

08- 80- 004 Drift Maintenance – desilting

This activity involves the removal of debris, silt and any vegetation from drifts and causeways. The debris shall be deposited away from the drift in approved spoil dumps.

This activity shall be carried before the rains, or as directed by the Engineer.

Work Method

The Contractor shall use **Labour** to carry out this item of work

Quality Control

The work shall be carried out to the satisfaction of the Engineer.

 m^3

Measurement Unit:

The measurement shall be the volume of debris or silt removed calculated as the product of length , width and measured depth of the affected section of drift.

Payment

The unit rate shall be full compensation for labour, tools, and incidental costs required to carry out the work.

08-80-005 Drift Repairs – Concrete

This activity involves the repair of concrete drifts, including the removal of loose or broken concrete, cutting back damaged areas to sound surfaces and repairing with concrete of similar Class to the original.

The drift shall be inspected and necessary repairs shall be instructed by the Engineer. Holes and voids

shall be cleared of debris, loose material and dust, and shall be well watered before the new concrete is placed. The new concrete shall be firmly rammed against the existing surfaces and finished flush with the surrounding materials. The surface of the repair shall be protected from direct sunlight and kept moist for 3 days. Concrete shall be Class 20/20 unless otherwise directed by the Engineer.

Quality Control

The work shall be carried out to the satisfaction of the Engineer.

Measurement Unit: m³

The measurement shall be the volume of concrete used for the repair.

Payment:

The unit rate shall be the full compensation for labour, tools, materials and incidental costs required to carry out the work.

SECTION 10: CARRIAGEWAY REPAIR WORKS (GRAVEL)

Scope:

This section covers all routine maintenance works on the gravel carriageway and includes items such as pothole patching, and reshaping of the carriageway, using labour.

10- 50- 006 Light Manual Reshaping (Potholes, Ruts and Gullies)

Description:

This activity involves the removal of all unsuitable/degraded material from the pothole, rut or gully until firm ground is reached, and filling with approved material and ensuring that the area is free draining.

For earth roads material from the side drains may be used.

For gravel roads the gravel shall be obtained from the stacks placed at intervals along the road for this purpose.

The fill material shall be watered, mixed and compacted using suitable tampers to a finished level 25mm above the surrounding road surface.

This activity shall be carried out before and after the rains, or as directed by the Engineer.

Work Method

The Contractor shall use **Labour** to carry out this work

Quality Control

- The quality of fill material shall be approved by the Engineer
- The minimum compaction to be applied shall be such that no rammer imprint on the surface shall be seen.

Measurement Unit: m³

The measurement shall be total volume of materials used for the repairs.

Payment

The unit rate shall include full compensation for labour, tools, materials, and incidental costs necessary to carry out the work.

10- 50- 009: Light Manual Reshaping (Grub edge and Reshape Carriageway)

Description:

This activity involves trimming the edge of the carriageway, grubbing grass from the carriageway and reshaping of the camber of the road to the original standard and shape. No grass shall be grubbed from the shoulders, but it shall be cut to a maximum height of 50mm.

For earth roads materials from the side drains may be used to reshape the carriageway. Where additional suitable material is required to reinstate the camber to the required shape, this material shall be obtained from approved sources nearest to the final deposition area.

Work Method

The Contractor shall apply **Labour** methods to carry out this item.

Quality Control

- The width of the carriageway including the shoulders shall be checked at 100m intervals with tolerance of +50mm or -20mm
- The camber shall be checked using camber board at 50m intervals and shall have a tolerance of +/ 1%

Measurement Unit: m²

The measurement shall be the area of carriageway shaped.

Payment

The unit rate shall be the full compensation for labour, tools and incidental costs required for carrying out the work.

SECTION 11: SHOULDER MAINTENANCE AND REPAIR

11-50-001: Shoulder Grading

Where directed by the Engineer the Contractor shall reinstate or re-form the shoulders of the road using either a Towed or Motor grader.

Pegs 400 to 500mm long shall be placed at 10 to 20 m intervals on the edge of the carriageway. Suitable material from the front slope of the side drain shall be bladed and spread on the shoulders (and, if appropriate the carriageway), unless otherwise directed by the Engineer, and the shoulders re-formed to the cross-section dimensions, as shown in Table 10.2. Compaction shall be achieved with the wheels of the equipment used, or by other approved means.

Table 10.2: Overall width ditch

Road Category	Carriageway width	Overall width to front of Ditches				
A/B/C + Secondary Roads	6.0 m	8.4 m				
D/E + Minor Roads	5.4 m	7.8 m				
RAR Roads	4.5 m	6.5 m				
Minor/RAR roads with insufficient widths or Temporary	3.5 m	5.5 m				

Work Method

The Contractor shall use Equipment to carry out this item.

Measurement Unit: km

The measurement shall be the length of shoulder reformed.

Payment

The unit rate shall be the full compensation for labour, tools, equipment and incidental costs required for carrying out the work.

SECTION 15: PAVED CARRIAGEWAY MAINTENANCE

15 – 50 – 001: Pothole Patching - hot mix 15 – 50 – 002: Pothole Patching - cold mix

This activity involves the repair of potholes, which have developed on the surface of paved roads where there is no evidence of base failure. Potholes shall be defined as local failures usually round or oval in shape covering less than 4.0 sq. m and less than 100mm in depth. Repair of larger areas shall be defined as surface repairs.

The areas to be repaired shall be marked out into rectangular shapes. All failed areas shall be cut back to sound road material. The hole shall extend to the bottom of the base layer, and the sides shall be cut to form a vertical face. All unsuitable material shall be removed and deposited away from the road to the approval of the Engineer.

A prime coat of 60% cationic spray grade emulsion, shall be applied on all the sides and on the bottom of the prepared hole

Premixed bituminous material, similar to the existing surfacing shall be placed in the hole and compacted in two or more layers of regular thickness depending on the depth involved.

The final layer, prior to compaction, shall be overfilled by 20% of its depth. Compaction shall be carried out using a pedestrian vibrating roller, plate compactor or hand rammer as appropriate until the surface is level, with the surrounding material.

A minimum depth of 50mm shall be provided for the cationic premix bituminous backfill.

Premix proportions shall be as follows:

- Sand 38% - 6.7mm aggregate 57%

- Bitumen emulsion 5% (bitumen content 60-65%)

Work Method

The Contractor shall use **Labour** and **Equipment** to carry out this item.

Quality Control

- The quality of the repair material shall be to the approval of the Engineer.
- The patch shall be checked using a straight edge and shall be flush with other parts of the carriageway
- Compaction of the patch shall be checked such that no imprint of the compaction equipment is visible.

Measurement Unit: m³

The unit of measurement shall be the volume of material used in the repair.

Payment

The unit rate for this item shall include the full compensation, labour, tools, materials, equipment and incidental costs required to carry out the work.

15 - 50 - 004: Road Edge Repairs

This activity involves the repair to the edges of paved carriageways, including the rebuilding of pavement layers and the shoulders.

All soft material along the surface edge shall first be removed. The pavement layers shall be rebuilt and thoroughly compacted, in similar materials to the existing pavement. The pavement shall be similarly rebuilt against sound material of the existing pavement, and thoroughly compacted. The top of the compacted fill shall be between 30mm to 50mm below the estimated new surface level.

A trench (100 mm wide x 100mm deep) shall be dug along the surface edge in order to reinforce the new edge. The trench shall be swept clean of all loose material and primed with bitumen emulsion.

A trench shall be filled with cold premix and compacted in layers of a 50mm maximum thickness, finishing flush with the existing surface and maintaining the cross fall. The repaired edge shall be finished off by sheet patching with a light sand layer to absorb surplus bitumen.

Work Method

The Contractor shall use **Labour** and **Equipment** to carry out this item.

Quality Control

- The edge repair shall be checked using straight edge to be flush with other parts of the carriageway
- Compaction of the edge repair shall be such that no imprint of the compaction equipment is visible.

Measurement Unit: m²

The measurement shall be the area of the repair including the bituminous edge and shoulder.

Payment

The unit rate shall be full compensation for labour, tools, materials, equipment, and incidental costs required to carry out the work.

15-60-001 Spot Sealing - (Fine cracks)

This activity involves the repair of alligator cracking (maximum width 3mm) on the carriageway. The area to be sealed shall be marked in chalk and be clean and dry. The bituminous binder shall be as specified by the Engineer and shall be applied with a spray lance or other approved method. Distribution rates shall be 1.5kg/m² for bitumen emulsion.

Coarse sand, up to 5mm, shall then be spread over the whole surface.

Crack sealing shall be carried out during the warm and dry weather.

Work Method

The Contractor shall use **Labour** and **Equipment** to carry out this item.

Quality Control

- The quality of the repair work shall be to the approval of the Engineer.
- The area of spot sealing shall be checked to be free of cracks.

Measurement Unit: m2

The measurement for this item will be the area of fine cracks repaired.

Payment

The unit rate shall include full compensation for materials, labour, tools, equipment, and incidental costs required to carry out the work.

15-60-002 Crack Sealing

This activity covers the repair of transverse or longitudinal cracks wider than 3mm on the surface of a surface dressed or bituminous carriageway or shoulder.

The cracks and the surrounding road surface shall be clean and dry. The cracks shall be filled with hot cut back bitumen.

The bitumen shall be distributed using a watering can and shall follow the line of the crack, with the nozzle or spout held close to the road surface, keeping the width of the spread as narrow as possible. Coarse sand, up to 5mm, or crusher dust shall be spread over the strip of the binder.

All crack sealing shall be carried out during the warm and dry weather.

Work Method

The Contractor shall use **Labour** and **Equipment** to carry out this item.

Quality Control

- The sealing shall be carried out to the satisfaction of the Engineer.
- The area of sealing shall be checked to be free of cracks.

Measurement Unit: m

The measurement shall be the length of cracks sealed.

Payment

The unit rate shall include full compensation for materials, labour, tools and incidental costs required to carry out the work.

15 - 80 - 001 to 005 Base repairs

This activity involves the repair of localised failures of the pavement layers, including the removal of the deformed areas and reconstructing the pavement and surfacing layers including treatment of the bottom of the excavation prior to backfilling.

The areas to be repaired shall be marked and cut out into rectangular shapes. All failed area shall be cut back to sound road material. The sides shall be dressed so that they are at 60° to the horizontal, and the bottom of the hole shall be compacted to a density of 93 % AASHTO T180. All unsuitable material shall

be removed and deposited away from the road as directed by the Engineer.

For a bituminous base a prime coat of 60% cationic spray grade emulsion shall be applied to all vertical surfaces and on the bottom of the prepared hole.

The material for the base repair shall be graded crushed stone, dense bitumen macadam or neat gravel, according to the original base material, and shall be compacted in layers as directed by the Engineer.

15-80-001: Graded Crushed Stone

"Graded crushed stone" shall be crushed stone with a smooth grading curve, which is within the specified envelope. The stone class shall be given in the special Specifications or as directed by the Engineer.

Work Method

The Contractor shall use **Labour** and **Equipment** to carry out this item of work.

Quality Control

• The repair shall be carried out to the approval of the Engineer.

 m^3

- The repair shall be checked with a straight edge and shall be flush with other parts of the carriageway laterally and longitudinally.
- Compaction of the patch shall be checked such that no imprint of the compaction equipment is visible

Measurement Unit

The measurement shall be the volume of graded crushed stone compacted in the repair measured in-site.

Payment

The unit rate for this item shall include the full compensation for the materials, tools, labour, equipment and incidental costs, required to carry out the work.

15-80-002: Dense Bitumen Macadam

Dense bitumen macadam shall be a hot-mixed, hot-laid plant mixture of well-graded aggregate and penetration grade bitumen, as specified for road-base material.

Work method

The Contractor shall use **Labour** and **Equipment** to carry out this item.

Quality Control

- The repair shall be carried out to the approval of the Engineer
- The repair shall be checked with a straight edge and shall be flush with other parts of the carriageway laterally and longitudinally.
- Compaction of the patch shall be checked such that no imprint of the compaction equipment is visible.

Measurement Unit: m³

The measurement shall be the volume of dense bitumen macadam compacted on the road measured insitu.

Payment

The unit rate for this item shall include the full compensation for the materials, tools, labour, equipment, and incidental costs required to carry out the work.

15-80-005: Neat Gravel

"Gravel " includes lateritic gravel, quartzitic gravel, calcareous gravel, soft stone, coral rag, clayey sands, decomposed rock, crushed rock or a combination of any of these materials.

Work method

The Contractor shall use **Labour** and **Equipment** to carry out this item of work

Quality Control

- The repair shall be carried out to the approval of the Engineer.
- The repair shall be checked with a straight edge and shall be flush with other parts of the carriageway laterally and longitudinally.
- Compaction of the patch shall be checked such that no imprint of the compaction equipment shall be visible

Measurement Unit: m³

The measurement shall be the volume of gravel compacted on the road measured in-situ.

Payment

The unit rate for this item shall include the full compensation for the materials, labour, tools, equipment, and incidental costs required to carry out the work.

SECTION 17: BRIDGE MAINTENANCE

17 - 50 - 001: Cleaning and Clearing - Deck

17 - 50 - 002: Cleaning and Clearing - Riverbed

Description

This activity involves the following tasks,

- Brooming of the deck and sidewalks to clear all loose soil, dirt, aggregate, debris, and removal of the same from site
- Removal of all dirt and stones lodged between deck planking
- Clearance of weep holes of dirt and debris
- Removal of all dirt and debris in joints between beams and abutments or any point under bridge
- Removal of debris lodged at pier and abutments or any point under the bridge
- Removal of trees and bushes growing under the bridge and directly upstream and downstream and disposing the material away from the bridge and stream
- Cleaning of any signs or reflectors on or at the bridge.
- Removal of termites tunnels in the vicinity of timber bridges and soaking the ground with chemical solutions against wood destroying insects.

Work Method

The Contractor shall use **Labour** to carry out this item.

Quality Control

- The bridge deck shall be checked to be clean and free of dirt and debris
- The passage below the deck shall be checked to be free of obstructions

Measurement Unit: Provisional Sum

The measurement of work shall be on a Dayworks basis.

Payment

Payment shall be made for the labour and material instructed by the Engineer to be used on the work.

SECTION 20: ROAD FURNITURE REPAIR AND MAINTENANCE

20-50- 001: Traffic Sign Maintenance

This activity involves all the tasks required to ensure that the road signs and signposts are in a clean, properly aligned, vertical and secure condition; the replacement of missing or broken bolts, nuts or other fixings and the tightening of the same. The maintenance shall also extend to securing any loose posts by the re-compacting or removal of any unsuitable material surrounding the posts, importing and compacting of suitable material to render the post secure.

Work Method

The Contractor shall use **Labour** to carry out this item.

Quality Control

- The signs shall be clean and in vertical position
- The fixings shall be hand checked to be tight

Measurement Unit: No.

The measurement shall be number of signs maintained. Payment

The unit rate shall be the full compensation for labour, tools, material and incidental costs required to carry out the work.

20-50-003: Guardrail Repair

This activity involves the repair of Guardrails (including rails, posts and fixings) to a properly aligned, vertical and secure condition. The repair shall include securing any loose posts by re-compaction or removal of any unsuitable material surrounding the post, importing and compaction of suitable materials to render the posts secure, and the re-fixing of the rails.

Work Method

The Contractor shall use **Labour** to carry out this item.

Quality Control

- The guardrails shall be checked as being properly aligned secure and in a vertical position
- The fixings shall be hand checked to be firmly fixed

Measurement Unit: m

The measurement shall be the length of Guardrail repaired Payment

The unit rate shall be the full compensation for labour, material, tools, and incidental costs required to

carry out the work.

20- 50- 004: Marker Posts Replacement

This activity involves the replacement of kilometre stones and culvert marker posts

The Engineer shall determine the location of the marker stones and posts. They shall be set in a simple excavation and backfilled with soil. The depth of the excavation shall be determined on the site, depending on the size and shape of the marker stone or post.

Work Method

The Contractor shall use Labour to carry out this item.

Quality Control

 The posts shall be vertical and firmly bedded to the approval of the Engineer Measurement Unit:

The measurement shall be in number of marker posts.

Payment

The unit rate shall be the full compensation for labour, tools, posts, materials and incidental costs required to carry out the work.

20-50-006: Sign cleaning and repainting

This activity involves the cleaning of road signs, reflectors and guideposts and repainting of sign supporting structures, rear panels of signs, kilometre posts and culvert markers. Surfaces to be painted shall be clean, dry and free from loose material.

Work Method

The Contractor shall use **Labour** to carry out this item of work

Quality Control

The cleaning and painting shall be carried out to the approval of the Engineer

Measurement Unit: No

The measurement shall be in number of signs, reflectors, or guideposts cleaned or painted.

Payment

The unit rate shall be the full compensation for labour, materials, tools and incidental costs required to carry out the work.

SECTION 25: HIV/AIDS AWARENESS AND PREVENTION CAMPAIGN

Scope:

This section covers the Contractors obligations with regard to on-site HIV / AIDS awareness campaign and preventive measures that are to be instituted.

25-50-001 HIV / AIDS Awareness Campaign

The Contractor shall institute an HIV / AIDS awareness campaign amongst the workers for the duration of the Contract

As part of the campaign the Contractor shall 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 two of the Contractors vehicles regularly used on site shall display HIV / AIDS awareness posters. The posters shall be printed on gloss paper and shall be at least A1 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 Engineer.

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

Measurement Unit: month

The measurement shall be the calendar month or part thereof, measured over the duration of the campaign.

Payment

The unit rate shall include full compensation for labour and material required for the provision of the item.

25-50-002 AIDS Prevention Campaign

The Contractor shall institute an HIV / AIDS prevention campaign amongst the workers for the duration of the Contract.

As part of the campaign the Contractor shall make condoms available to the workers. The condoms shall be supplied by the Employer through the Engineer.

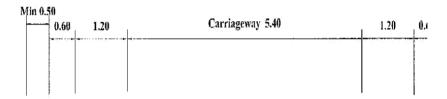
Measurement Unit: month

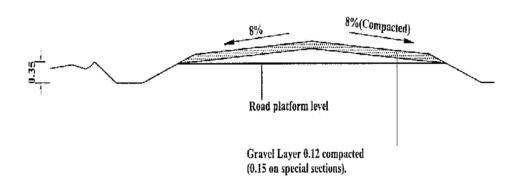
The measurement shall be the calendar month measured over the duration of the campaign.

Payment

The unit rate shall include full compensation for labour and material including the distribution of condoms, required for the provision of the item.

76 DRAWINGS



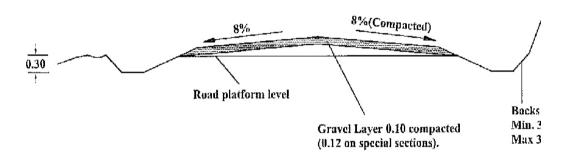


Notes:

1.All dimensions in metres

2.Traffic levels of > 200vpd may justify a carriageway width of 6.0m 3.Gravel thickness may be increased as directed by the Engineer

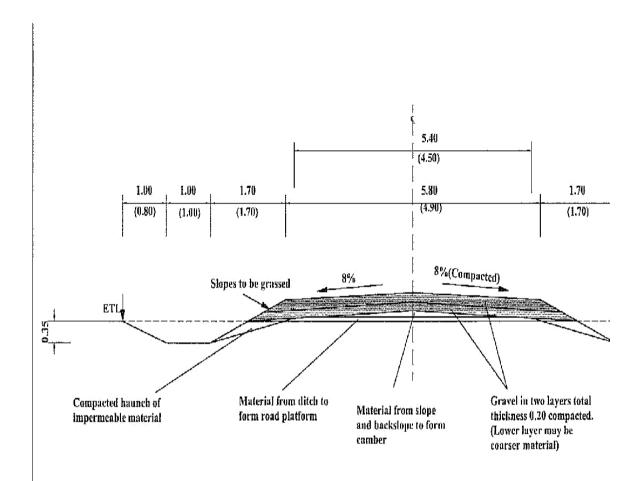


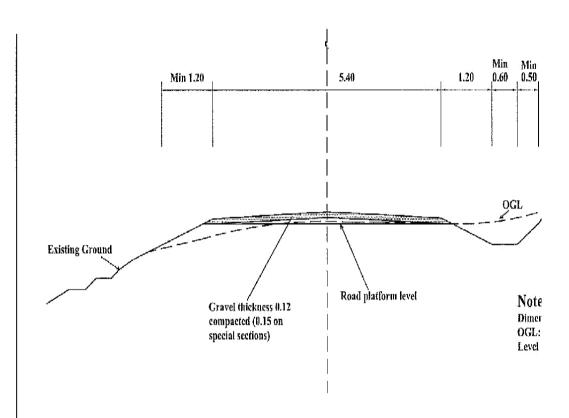


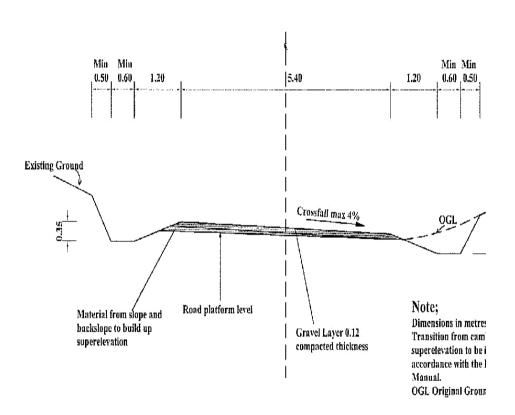
Notes:

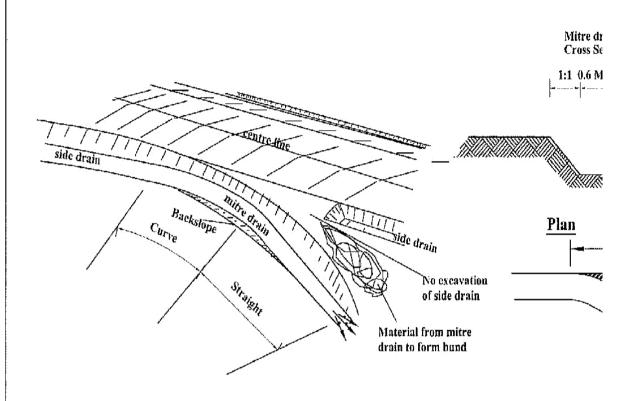
1.All dimensions in metres

2.Gravel thickness may be increased as directed by the Engineer

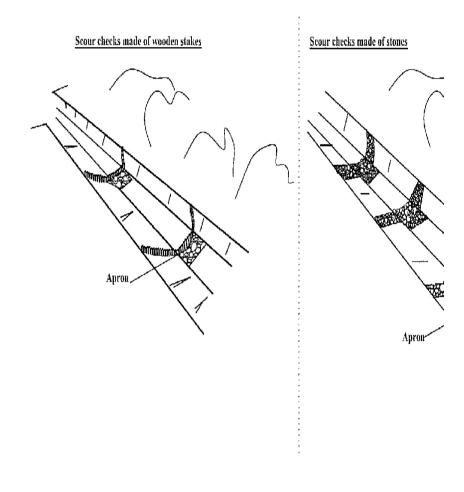






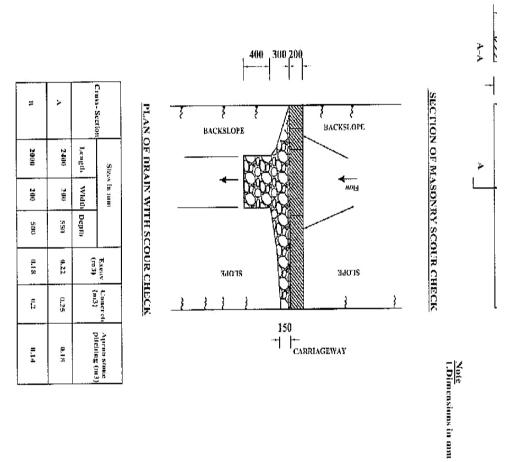


Notes
Location, direction and length of th
by the Engineer



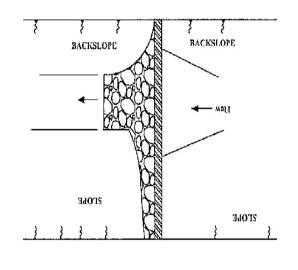
STONE WEIGHT:MIN 10KG STAKE DIAMETER: MIN. 0.10

0



	Ž.	Sizes in mm		Excav	Excav Concrete Apron	Apron
Cross- Section	312	Ses III II	DIE	(m3) (m3)	(m3)	stone pitching
	Length Width Depth	Width	Depth			(m3)
`	2400	100	550	0.13	0.15	0.18
8	2000	100	500	01.0	60.0	0.14

PLAN OF DRAIN WITH SCOUR CHECK



CARRIAGEWAY

NOTE

1.Dimensions in mm

SECTION OF CONCRETE SCOUR CHECK

Ç

TYPE 2(ENTRY ONLY)

TYPE 4(ENTRY AND EXIT ON ACCESS)

ACCESS)

NOTE

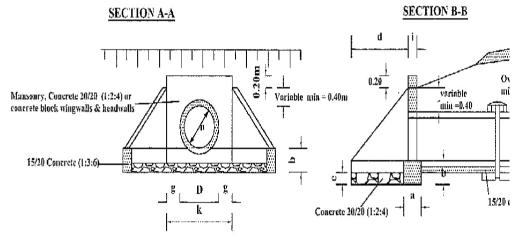
1. The code letter denotes the material:

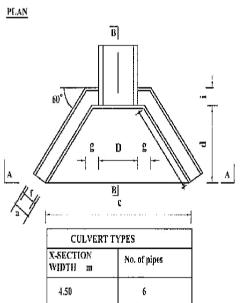
A =Concrete block

B =Stone masonry

C =Concrete

C-10

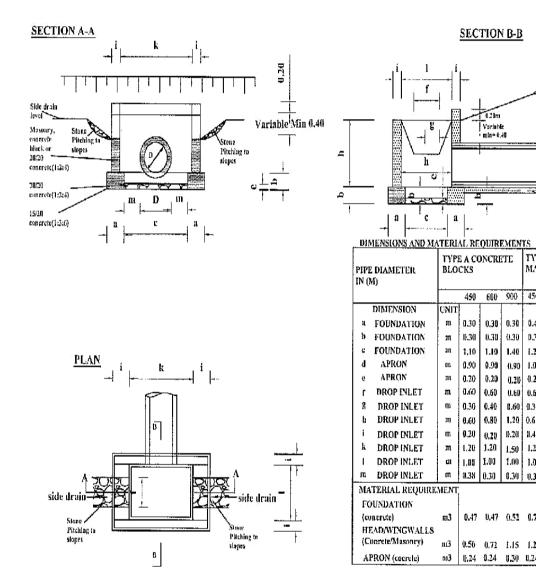


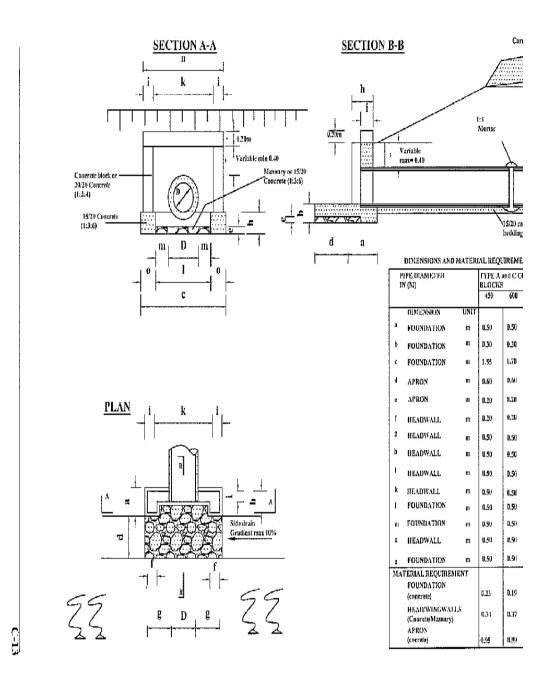


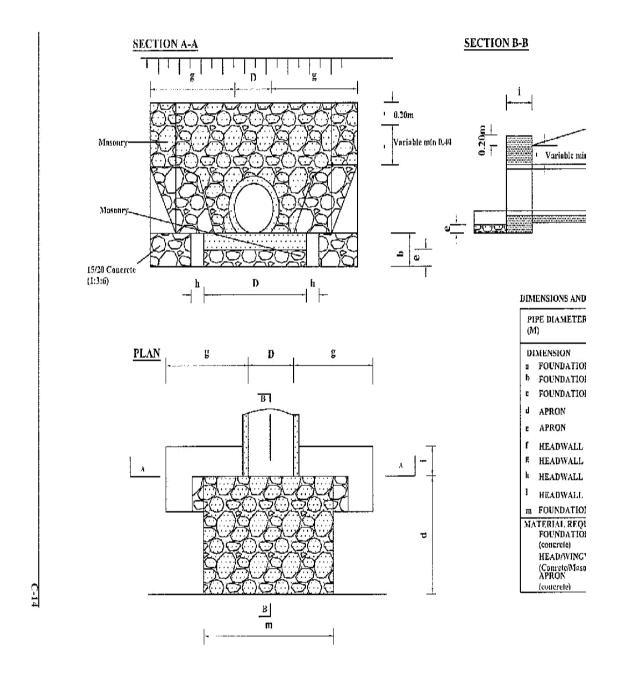
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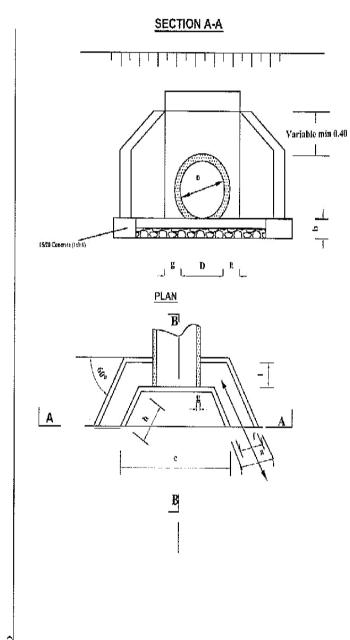
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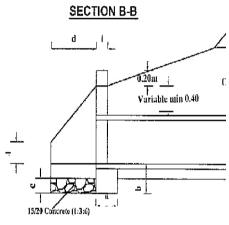
PIPE DIAMETEI IN M	Į.	TYPE /	A and C RETE B	L(
		450	600	_
DIMENSION n FOUNDATION	UNIT m	0.30	0.30	
b FOUNDATION	m	0.30	0.30	
c FOUNDATION	m	2.20	2.35	
d APRON	m	1.00	1.00	
e APRON	ļm	0.20	0.20	
f WALL	m	0.20	0.20	
g WALL	m	0.30	0.30	,
h WALL	m	1.15	1.15	
i WALL	m	0,20	0.20	
k APRON	m	1.05	1.20	
MATERIAL REQUI	KEM	ENT		
FOUNDATION				
(concrete)	m3	0.30	0.32	
HEAD/WINGWALI (Conrete/Masonry) APRON	.S m3	0.42	0.49	
(cocrete)	m3	0.33	0.36	







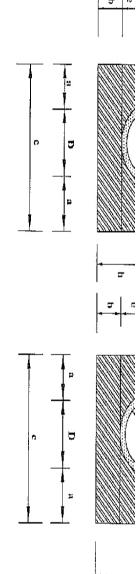




DIMENSIONS AND MATERIAL REQUIREMENTS

, ,	PIPE		TYPE A (CONC	TETE BLOC	KS)
	DIAMETER IN (M)		45U	600	900
	DIMENSION	UNIT			
а	FOUNDATION	ш	0.30	0.30	
b	FOUNDATION	HI,	0.30	0.30	
c	APRON	П	1.34	1.49	
ď	APRON	m	0.60	0.60	
e	APRON	ın	0.20	0.20	
f	WINGWALLS	m	D.20	0.20	
g	WINGWALLS	m	D.10	ÓLÓ	
Ь	HEADWALLS	ın	0.69	6.69	
1	HEADWALLS	m	0.20	0.20	
k	HEADWALLS	m	0.65	0.80	
1	HEADWALLS	D 3	0.40	0.40	
MA	TERIAL REQUIRE	MENT			
	(concrete tarquae)		0.18	0.20	
	HEAD/WINGWALLS (Conrete/Masonry)		0.29	U.32	
	APRON (cocrete)		0.12	0.14	

2													
Remarks	Application	Class 15/20	Concrete	æ.	Ē	σq	f(min)	te	<u>e</u>	n	ъ	2	Diameter (D)
Material for back/overfill be approved by the Engineer	-Fair subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only	0,24	Volume	Ļ	0.24	ţ	0.34	0.14	0.56	0.86	0.10	0.15	450 (mm)
or back/o by the En	grade con > 75% of water flo	0.24	Volume in (m3/m)	,	0.33	1	0.45	0.18	0.72	1.12	0.15	0.20	(mm) 000
Material for back/overfill shall be approved by the Engineer	dition the pipe w only	0.24	٤	ţ	0.42	Ţ	0.68	0.27	1.08	1.48	0.15	0.20	900 (mm)
M. ap	& B A B			-		na Sar				11,150 11,150		, In	
daterial e ppruved	-Fair to po -Overfill > diameter -Seasonal	0.20	Volume	_	0.38	1 0	0.34	0.28	0.56	0.86	0.10	0.15	450 (mm)
Material for back/overfill be approved by the Engineer	-Fair to poor subgrade con- Overfill > 75% of the pipe diameter -Scasonal water flow only	0.37	Volume in (m3/m)	į i	0.51	1	0.45	0.36	0.72	1.12	0.15	0.20	600 (mm)
Material for back/overfill shall be appruved by the Engineer	-Fair to poor subgrade condition -Overfill > 75% of the pipe diameter -Scasonal water flow only	0.56	1)	ļ	0.69	<u>.</u> 1	0.68	0.54	1.08	1.48	0.15	0.20	900 (mm)

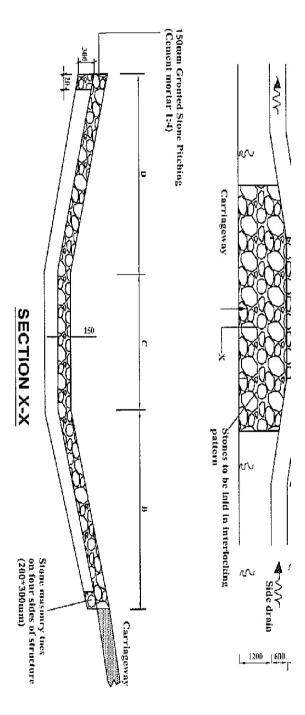


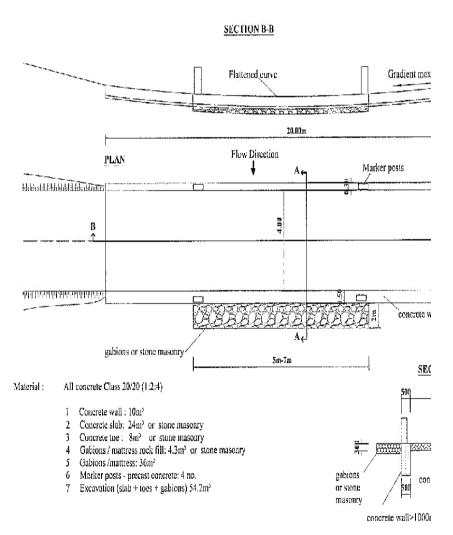
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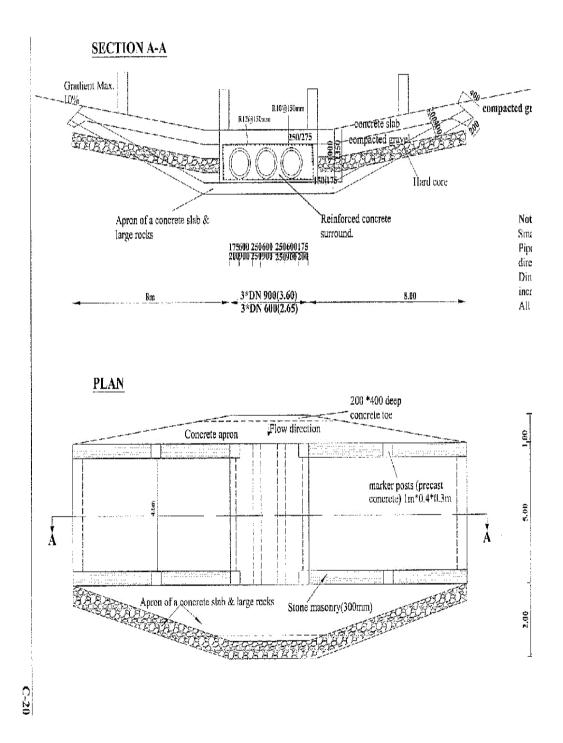
																<u></u> в
Remarks	Application	Class 15/20	Concrete	ĺ		jq	f(min)	P.	ů.	ō	ъ	Þ	Diameter (D)		<u>n</u>	
Material for back/overfill shall be approved by the Engineer	-Fair subgrade condition -Overfill > 75% of the pip diameter -Seasonal water flow only	0.26	Volume	1	0.52	. 1	0.23	0.42	0.56	0.86	0.10	0.15	450 (mm)	i c	-	
fur back/o	-Fair subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only	0.47	Volume in (m3/m)		0.69	1	0.3	11.54	0.72	1.12	0.15	0.20	(mm) 000			
overfill shi Igineer	dition the pipe w only	0.71	D)	ł,	0.96	ŀ	0.45	0.81	1.08	1.48	0.15	0.20	900 (mm)			= =
=								o what				·				- n
Material for back/overfill be approved by the Engineer	-Fair to poor subgrade co -Overfill > 75% of the pip diameter -Seasonal water flow only	0.37	Volume	0.28	0.81	0.15	0.15	0.46	0.56	0.86	0.10	0.15	45() (nrm)		2	
for back/ by the E	or subgrade con 75% of the pipe water flow only	0.61	Volume in (m3/m)	0.35	1.02	0.15	0.15	0.52	0.72	1,12	0.15	0.20	600 (mm)	- c -	۵	
Material for back/overfill shall be approved by the Engineer	-Fair to poor subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only	0.92	-	II,45	1.38	0.15	0.15	0.78	1.08	1.48	0.15	0.20	(mm) 000		, ca	
	1				,					,			1	i		=

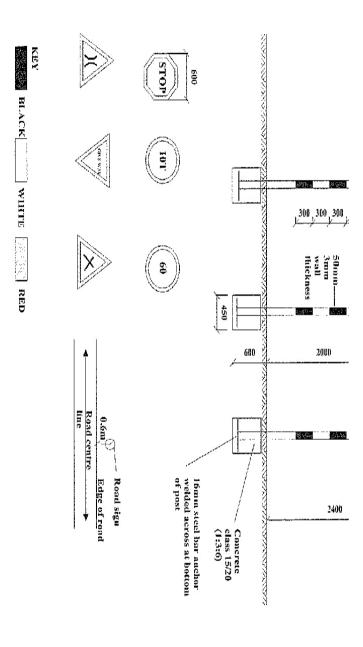
Cross section × W. > 1000 1800 6000 1800 6au 6000 1400 400 4000 1400 400 DIMENSONS B 600 O 1800 4200 1800 4200 1800 3600 1800 3600 ø Ħ QUANTITIES TABLE 10,00 7.00 9.00 7.5 Stone masonry (m3) 1.30 1.60 1.20 1,50 Grouted stone pitching(m3) 21.75 30.15 18.30 25.50

C-18

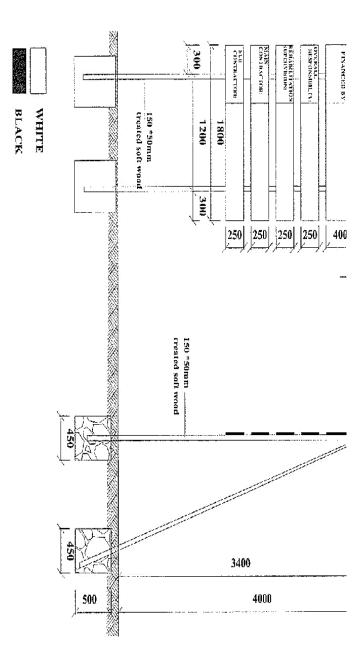








1. The type of sign required and fileir location shall be as shown on the Road Plan or as directed by the Engineer.
2. Sign plate to be 2mm thick mild steel plate
3. Sign plate to be 30mm fixing clamps/brackets.
4. Sign plate to be fixed to steel tube by \$ Nos M10 bolts and 50mm fixing clamps/brackets.
5. Sign plate to be fixed to steel tube by \$ Nos M10 bolts and 50mm fixing clamps/brackets.
5. Sign plate and post shall be treated by applying two coats of lead red oxide paint before applying a priming and two finish coats of approved paints. Paints used shall have a hard, durable and glussy finish.



NOTES

- The wording of the project sign board and the location to be as directed by the Engineer.
 Materials to be used for fabrication of signboard shall be pressure impregnated treated softwood timber.
 Wording board posts to be attached to the posts with galvanised nails.
 Project board posts and struts to be embedded in concrete class 20/20(1:2:4).

PREAMBLE TO BILLS OF QUANTITIES

- 1. The Bills of Quantities form part of the Contract Documents and are to be read in conjunction with the Instructions to Tenderers and these Documents.
- 2. The prices and rates to be inserted in the Bills of Quantities are to be the full, inclusive value of the work described under the several items including all costs and expenses which may be required in and for the execution of the work described and for the Contractor's overheads and profits. The rates shall be VAT exclusive but include all other taxes, levies and fees applicable. The rates shall be based on the Works being carried out in accordance with the R2000 Strategy of using optimum labour resources.
- 3. Each item in the Bills of Quantities contains only a brief description of the required work. Fuller details and descriptions of the work to be done, the materials to be used, the standards of workmanship, methods of measurement and payment are to be found in the various sections of the Specifications and on the Drawings.
- 4. The Quantities set out in the Bills of Quantities are estimated and represent substantially the work to be carried out. There is no guarantee that the Contractor will be required to carry out all the quantity of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of measured work done in fulfilment of the obligations under the Contract.
- 5. Work shall be carried out under Dayworks items only at the direction, and with the approval, of the Engineer. The Contractor shall enter rates in the Dayworks Schedule of Rates, which shall reflect the realistic costs, including overheads and profit, of each item. If, in the opinion of the Engineer, a rate is unreasonably high or low, the Contractor may be required to amend the rate to the satisfaction of the Engineer.

BILLS OF QUANTITIES

(AS GENERATED FROM RMS)

Road Code C717

Section Name

C717:Eburu - Ngema - Gilgil

Package: KeRRA/011/NKU/039/22%/085/20/21

Bill of Quar	ntities				Page: 1	
Bill No.1	General: Office administration and overheads/Preliminaries				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
01-60-005	Publicity Sign Boards	KS	1			LB-MB
01-80-026	Allow a prime cost sum for the REs miscellaneuos account	PC SUM	110000	1.00	110,000.00	LB-MB
01-80-027	Extra over 01-80-026 for profits and overheads	%	110000			LB-MB
	Total Carried Forward to Summary:					

Road

Code C717 Section Name Eburu - Ngema - Gilgil

Package: KeRRA/011/NKU/039/22%/085/20/21

Bill of Qua	ntities				Page: 2	
Bill No.8	CULVERT AND DRAINAGE WORKS				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
08-50-034	Desilt and clean existing culverts to free flowing condition	M	81.02			LB
08-70-052	Provide,place and compact class 25/20 concrete to beds,surrounds and haunches	M³	122			LB-MB
08-60-037	Provide and place A142 fabric mesh reinforcement	M²	648.5			LB
	Total Carried Forward to Summary:					

Road Code C717 Section Name Eburu - Ngema - Gilgil

Package: KeRRA/011/NKU/039/22%/085/20/21

Bill of Quar	tities				Page: 3	
Bill No.10	GRADING AND GRAVELLING WORKS				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
10-50-001	Heavy grading without watering or compaction instructed by the Engineer	M²	149610			MB
	Total Carried Forward to Summary:					

RoadCode C717

Structure:

Package: KeRRA/011/NKU/039/22%/085/20/21

Contractor	0	
Bill of Quar	Aiding	Dogg: 1
Dill of Quar	nutes	Page: 1
	Summary	Project:
Item No.	Description	Amount (KShs)
1	General: Office administration and overheads/Preliminaries	
8	CULVERT AND DRAINAGE WORKS	
10	GRADING AND GRAVELLING WORKS	
	Sub Total	
	VAT @ 14 %	
	Total	
	Carried to page on the form of Tender	