

KENYA RURAL ROADS AUTHORITY

KEIYO MARAKWET REGION

SPOT IMPROVEMENT WORKS IN MARAKWET EAST CONSTITUENCY

ROAD NAME; KAPYEGO – TANGUL (G81938) TENDER NUMBER: KeRRA/11/KEMA/39/020-2020|21

FUNDING : 22% RMLF, 2020/21

BID DOCUMENT FOR SPOT IMPROVEMENT

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

(AGPO - YOUTH)

DECEMBER, 2020

The Engineer

THE DEPUTY DIRECTOR,
KEIYO-MARAKWET REGION
KENYA RURAL ROADS AUTHORITY,
P.O. BOX 213-30700
ITEN

The Employer

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

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SECTION I: INVITATION FOR TENDERS

Tender reference No.KeRRA/11/KEMA/39/020-2020|21

Tender Name: Spot Improvement and Upgrading of Road: Kapyego – Tangul

The Kenya Rural Roads Authority – Keiyo-Marakwet Region invites sealed tenders for spot improvement and upgrading of Road **Kapyego – Tangul**

- 1.1 . The works scope of works is as follows:
 - i. Earthworks,
 - ii. Culvert and Drainage Works.
- 1.2 Interested eligible candidates may obtain further information and inspect tender documents at **Kenya Rural Roads Authority**, **P.O Box 213-30700**, **Iten**, located at **Public Works Compound**, **Iten along Eldoret Iten Road** during normal working hours **8.00 am** to **5.00 pm Monday** to **Friday**.
- 1.3 Interested bidders may obtain a complete set of tender documents free of charge by downloading from KeRRA website www.kerra.go.ke or Treasury
- 1.4 Prices quoted should be net inclusive of all taxes, must be in Kenya shillings and shall remain valid for **160** days from the closing date of tender.
- 1.5 Completed and serialized Bid documents are to be enclosed in plain sealed envelopes marked with <u>Tender name</u> and <u>Tender number</u> and deposited in the Tender Box at the **KeRRA Regional offices ITEN** or to be addressed to the **DEPUTY DIRECTOR**, **Kenya Rural Roads Authority**, **P.O Box 213-30700**, **ITEN** so as to be received **on or before the date stated in the Tender notice**.
- 1.6 Tenders will be opened immediately thereafter in the presence of the Bidders or their representatives who choose to attend at Kenya Rural Roads Authority offices, Keiyo-Marakwet Region.

SECTION II: INSTRUCTIONS TO TENDERERS

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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 certified documents with their tenders, unless otherwise stated:

1.3

- (a) A certified Copy of Certificate of Incorporation
- (b) A Copy of PIN Certificate
- (c) A Copy of Valid Tax Compliance certificate
- (d) A Copy of Valid NCA Roadworks certificate and respective Annual Practising License from National Construction Authority (NCA)
- (e) A certified copy of valid AGPO certificate for the specific target group, issued by the National Treasury for AGPO bids.
- (f) Those bidding for AGPO PWD tenders, must submit certified membership IDs from the NCPWD for Directors of the Firm/company who are disabled/physically challenged.
- (g) Certified copies of IDs/Passports of Directors of the Firm.
- (h) Proof of valid principal place of business and valid business permit;
- (i) Total monetary value of construction work performed for each of the last three years;
- (j) Proof of past Experience in construction works of similar nature and size completed for the last 3 years
- (k) Proof of equipment holding/Valid executed lease agreements.
- (l) Audited accounts or financial statements for the last 3 financial years,
- (m) Authority to Seek reference from tenderers bankers addressed to the Employer's representative
- (n) Current litigation information,
- (o) All the tenderers to provide CR 12 for recent 12 months, from date of submission.

NOTE: All certification must by certified by commissioner of oaths

- 1.3 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 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.

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 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 will [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 consider an addendum 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) The Tender:
 - (b) Tender Security;
 - (c) Priced Bill of Quantities for lump-sum Contracts
 - (d) 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 Kenya Shillings.
- 3.6 Tenders shall remain valid for a period of One Hundred and Sixty (**160No.**) 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 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

- 4.4 Any tender received after the deadline for opening tenders will be returned to the tenderer un-opened.
- 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, the Employer will also prepare including the information disclosed to those present.
- 5.3 Information relating to the examination, clarification, evaluation and comparison of 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 that are found to have a discrepancy in figures as a result of miscalculation from generated unit prices, sub-totals and total in bid prices shall be deemed to have resulted into major deviations that affects the substance of the tender and shall be deemed to be non-responsive.
- 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.
- 5.9 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 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.

5.10 The Tenderer shall not influence the Employer on any matter relating to his tender from the time of the tender opening to the time the Contract is awarded. Any effort by the Tenderer to influence the Employer or his 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 8.0: APPENDIX TO INSTRUCTIONS TO TENDERERS

The following information regarding the particulars of the tender shall complement supplement or amend the provisions of the instructions to tenderers. Wherever there is a conflict between the provision of the instructions to tenderers and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the instructions to tenderers.

INSTRUCTIONS TO TENDERERS (ITT) REFERENCE	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
4.3 On Submission of bids	 The Tenderer shall not submit alternative offers. Each Tenderer may submit only one bid for each tender. Tenderers who submit several bids on a particular tender with similar director(s) shall be considered to have submitted alternative offer and shall be disqualified.
1.3 Submission of Unclear attachments/documents	 Submission of unclear or illegible documents/ attachments will lead to automatic disqualification Submission for Multiple Letters/Documents for the purpose of meeting the criteria on Authority to seek Bank reference, Current commitment and Business permit will lead to disqualification The bidder must declare Current commitment which should be dated not earlier than the tender notice date and Should be addressed to the Employer.
3.4 Bid validity	• Tenders shall remain valid for a period of not less than 160 days .However, the Employer may request the Tenderers to extend the period of validity for a specified additional period. Such a request and the Tenderers' responses shall be made in writing
1.3:Current Sworn litigation affidavit, CR12 certificate, Principal place of business and Current Commitment letter	 Sworn litigation affidavit should be Dated not more than Six months from the date of Submission Should attached a valid principal place of business proof, indicating the location, Street/Avenue/Road and Town where the offices are situated. In addition to filling the Ongoing schedule, bidders must also declare the same by addressing the commitment letter to the DD, Keiyo-Marakwet, the letter should be dated not earlier than the date of the tender notice
	• CR12 should for the recent 12 months from submission date

SECTION III: QUALIFICATION CRITERIA

No.	Qualification Criteria	Compliance Requirements	Bidder	Submission Requirements
1.1	Eligibility	Must be Kenya Citizen Contractors and registered contractor/supplier with the National Treasury under AGPO - PWD , under the specific category	Must meet requirement	 i. Certified copies of Directors ID or Passports ii. Must be registered a Contractor with the National Treasury under AGPO - PWD, under specific category. iii. Copies of Recent CR12 Forms issued within the last 12 (Twelve) months from the date of tender submission date
1.2	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 requirement	 Valid NCA 8 (minimum) Certificate and respective practising license Certified copy of incorporation
2.1	History of Non- Performing Contracts	Non-performance of a contract did not occur within the last three (3) years prior to the deadline for application submission based on all information on fully settled disputes or litigation. A fully settled dispute or litigation is one that has been resolved in accordance with the Dispute Resolution Mechanism under the respective contract, and where all appeal instances available to the applicant have been exhausted.	Must meet requirement by itself or as party to past	Completeness and signing of the form on non-completed works

No.	Qualification Criteria	Compliance Requirements	Bidder	Submission Requirements
2.2	Pending Litigation	All pending litigation shall in total not represent more than fifty per cent (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	Sworn affidavit
3.1	Pending Litigation	All pending litigation shall in total not represent more than fifty per cent (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	Sworn affidavit should be dated not less than 6 months from date of the tender notice
3.2	Financial Performance	Submission of audited accounts containing but not limited to balance sheets and profit-loss statements for the last Three [3] years to demonstrate (a) the current soundness of the applicants financial position and its prospective long term profitability, and (b) capacity to have a cash flow amount of min Kshs 1,400,000.00 [One Million, Four Hundred Thousand] equivalent working capital	Must meet requirement (a) Must meet requirement (b) Must meet requirement	Audited Financial statements, which must be certified by a practicing registered Auditor with ICPAK and should indicate their practicing membership number from ICPAK
4.1	Average Annual Construction Turnover	Minimum Average Annual Construction Turnover of Kshs 1,500,000 [One Million, Five Hundred Thousand], calculated as total certified payments received for contracts in progress or completed, within the last three [3]	Must meet requirement	Audited Financial statements
4.2	General Construction Experience Specific Construction Experience	Experience under construction contracts in the role of contractor, subcontractor, or management contractor in the last 5 (five) years.	Must meet requirement	Submit as an attachment a Proof of having undertaken any
		 (a)Participation as contractor, management contractor or subcontractor, in at least two (2) contracts within the last three (3) years, each with a value of at least Kshs. 1.9 Million (One Million, Nine 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	civil works (Dams, Housing etc) Attach award letters /LPO, Commencement orders and their respective completion certificates

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No.	Qualification Criteria	Compliance Requirements	Bidder	Submission Requirements
5.0 Equ	uipment Holding			
5.1 Minimum number of Equipment		The bidder must indicate the minimum core plant and equipment considered by the company to be necessary for undertaking the project together with proof of ownership	Must meet the requirement	Attach logbooks (for owned equipment) or valid lease agreement(s)
6. Curr	ent Commitment			
6.1	On-going contracts	The total value of current works on the on-going contracts must not exceed Kshs. Two (2) Million	Must meet requirements	Complete the form on ongoing contracts /works
6.2	Work Methodology	A brief Work methodology outlining the general understanding of the scope of work to be undertaken	Must meet the requirement	Must attach the Work methodology
7.0 Site	e Staff			
1.	Site Agent	The site staff shall possess minimum levels set below; Qualification = Diploma In Civil Engineering General Experience = 3 Years Specific Experience = 1 - 2 Years	Must meet requirements	Current resume, certified certificates
Ζ.	Dep. Site Agent/ Site Engineer	Qualification = Diploma In Civil Engineering General Experience = 3 Years Specific Experience = 1 - 2 Years	Provide relevant staff to work on the project	Current resume, certified certificates

SECTION IV: 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

<u>Spot improvement and Maintenance of Road</u> G81938 Kapyego – Tangul 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

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.
- 5.3 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.

6 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.
- 6.2 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.

10.3

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.
- 12.2 Where Bills of Quantities do not form part of the Contract, the Contract Price shall be a lump sum (which shall be deemed to have been based on the rates in the Schedule of Rates forming part of the tender) and shall be subject to re-measurement after each stage.

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 stages of Work listed here below (subject to re-measurement by the Employer's Representative of the Work done in each stage before payment is made). In case of lump-sum Contracts, the valuation for each stage shall be based on the quantities so obtained in the re-measurement and the rates in the Bill of Quantities.
 - (i) Minimum Amount of Interim Certificate is 40% of the value of works,
 - (ii) After defects liability period.
- 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; 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.

19. 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

Spot improvement and Maintenance of Road G81938 Kapyego – Tangul

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.

SECTION V: APPENDIX TO FORM OF AGREEMENT

This Appendix to Form of Agreement forms part of the Agreement.

Item	Data
Time for Completion	3 Months,
Bid Security	Kshs. Not applicable
Priority of Documents	The documents forming the Contract shall be interpreted in the following order of priority: • the Contract Agreement and Appendix to form of agreement • the Letter of Acceptance • the Form of Tender • the Conditions of Contract, Part II - Conditions of Particular Application • the Conditions of Contract, Part I - General Conditions of Contract • the Specifications • the Drawings, • the Priced Bill of Quantities
Law of Contract	Laws of the Republic of Kenya
Language	English
Provision of Site	On Commencement Date
Name and Address of Employer	The Director General Kenya Rural Roads Authority P.O. Box 48151-00100 Nairobi
Name and Address of the Engineer	The Director (Road Asset Management) Kenya Rural Roads Authority P.O. Box 48151-00100 Nairobi
Name and Address of Engineer's Representative	The Deputy Director, (Keiyo-Marakwet Region) Kenya Rural Roads Authority P. O. Box 213-30700 Iten
Penalty to the Contractor for Employer paying workers on his behalf	10% of the amount paid to the workers.
Performance Security Amount Form	(Refer to guideline Notes) 5% of sum stated as the Contract Price Bank Guarantee or Insurance Bond issued by PPRA approved insurance companies(Not applicable)

Item	Data
Requirements of Contractors Design	Not applicable
Programme	
⇒ Time of Submission	Within 14 days of Commencement Date
⇒ Form of Programme	Bar Chart
⇒ Interval Updates	As requested by the Deputy Director
Liquidated Damages Amount payable due to failure to complete	0.01% of Contract Price per Day to a limit of 1% of Contract Price.
Defects Liability	Refer to guideline Notes
Period of notifying defects	90 days calculated from the date stated in the
	notice under sub clause 11.2
Percentage of Retention	Refer to guideline Notes
Budgeted Amount For the project	KES 4,179,134.00
Maximum Amount of Advance Payment	10% of the contract sum
Form of Guarantee for Advance Payment	Bank Guarantee
Valuation of Works	Re-measurements with Bills of Quantities
Repayment Schedule for Advance Payment	33 % instalments from 1 st three certificates.
Minimum Amount of Interim	40% of the contracts sum for excluding
Payment	contingencies.
Currency of Payment	Kenya Shilling
Rate of Interest	Simple Interest at a rate of 2% above mean Base Lending Rate as issued by the Central Bank of Kenya.
Insurance	Required
Insurance	Amount of Cover
⇒ The Works, materials	The Contract Price stated in the Agreement +15%
plants & fees- Contractor's All risks	+ replacement cost of equipment on site.
⇒ Third party injury to	As per work injury benefits act 2007 laws of
persons and damage to	Kenya
property ⇒ Workers compensation (WIBA- workers injury benefits policy)	
Arbitration	CAP 49 of the Laws of Kenya
⇒ Rules	Chairman Chartered Institute of Arbitrators,
⇒ Appointing Authority	Kenya Branch.
	Kenya Rural Roads Authority, Headquarters

SECTION VI: STANDARD FORMS

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FORM OF INVITATION FOR TENDERS

	[Date
To:	
Dear Sirs:	
Reference:	[Contract Name]
You are qualified to tender for the above Co	ntract.
We hereby invite you and other qualified Te completion of the Works.	enderers to submit a Tender for the execution and
A complete set of Tender documents may be	e purchased from
[Mailing address, cab]	le/ telex/ facsimile numbers].
Upon payment of a non-refundable fee of Ks	shs
All Tenders shall be accompanied by Security in the form and amount of Kshs	number of copies of the same and a Tender and shall be delivered to:
[Address and location]
at or before(tin thereafter, in the presence of those Tenderers	ne and date). Tenders will be opened immediately s' representatives who choose to attend.
Please confirm receipt of this letter and your	intention to Tender in writing.
Yours faithfully,	
	Authorised Signature
	Name and Title

FORM OF TENDER

	, 2021 [Date]	
	[Name of Contra	ict]
Dea	r Sir,	
1.	In accordance with the Conditions of Contract, Specifications, Drawings and Bills Quantities for the execution of the above Works, We, the undersigned offer to constrainstall and complete such Works and remedy any defects therein for the sum	
	of Kshs[Amount in figures]Ke Shillings	nya
	[Amount in words].	
2.	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 stated in the Appendix.	
3.	We agree to abide by this Tender until [Insert date], and it stremain binding upon us and may be accepted at any time before that date.	hall
4.	Unless and until a formal Agreement is prepared and executed this Tender together v your written acceptance thereof, shall constitute a binding Contract between us.	vith
5.	We understand that you are not bound to accept the lowest or any Tender you receive. Dated this day of 20	nay
	Signaturein the capacity of	
	duly authorized to sign Tenders for and on behalf of	
	[Name of Tenderer] of	
	Witness: Name[Address of Tenderer]	
	Address	
	Signature	
	Date	

LETTER OF AWARD

[Letterhead paper of the Employer]

	[Date]
To: [Name of the Contractor]	<u> </u>
[Address of the Contractor]	
Dear Sir,	
This is to notify you that your Tender dated for the execution of [name of the Contract and identification number, as §	
[name of the Contract and identification number, as § Contract Price of Kshs	given in the Tender documents] for the [amount in figures][Kenya
Shillings (amou Instructions to Tenderers is hereby accepted.	nt in words)] in accordance with the
You are hereby instructed to proceed with the execut the Contract documents.	ion of the said Works in accordance with
Authorized Signature	
Name and Title of Signatory	
Attachment:	

FORM OF TENDER SECURITY

submit	ted a T	ender dated	(hereinafter called "the Tenderer") has for the Rehabilitation/Spot Improvement
		(Name of Contract)	
office Kshs Emplo	at yer, the	(hereinafter calle(hereinafter calle for which page Bank binds itself, its succe	that WE
ГНЕ С	CONDI	TIONS of this obligation are	: :
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)	fails or refuses to execut Instructions to Tenderers, i	e the Form of Agreement in accordance with the frequired; or
	(b)	fails or refuses to furnish Instructions to Tenderers;	the Performance Security, in accordance with the
	written that in him, o	n demand, without the Employer his demand the Employer	oyer up to the above amount upon receipt of his first ployer having to substantiate his demand, provided will note that the amount claimed by him is due to one or both of the two conditions, specifying the
	Period		ce up to and including forty five (45) days after the sy demand in respect thereof should reach the Bank
		[Date	[Signature of the Bank]
		[Witness]	[Seal]

FORM OF AGREEMENT

THIS AGREEMENT is made on theday of20between the
Kenya Rural Roads Authority, Keiyo-Marakwet Region of P. O. Box 213-30700, Iten,
Kenya hereinafter called the "Employer" of the one part and
hereinafter called the "Contractor" of the
other part.
WHEREAS the Employer is desirous that certain works should be executed, viz:
and has accepted a Bid by the Contractor to execute, complete and maintain such works NOW THIS AGREEMENT WITNESSETH as follows:

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

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

The said BID dated -----

- Conditions of Contract; Parts I and II
- The Standard and Special Specifications;
- Priced Bill of Quantities;
- Letter of Acceptance;
- Form of Tender
- Drawings;
- Appendix to the Form of Agreement
- Schedule of Supplementary Information
- Other Documents/Materials/Conditions agreed and documented.

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

In consideration of the payment to be made by the **Employer** to the **Contractor**, the Contractor covenants with the Employer to execute and complete the Works in conformity with the provisions of the Contract.

The Employer hereby covenants to pay the Contractor in consideration of the execution, completion and maintenance of the Works at the Contract Price or such other sum as may become payable under the Contract at the times and in the manner prescribed by the Contract. **IN WITNESS WHEREOF** the parties hereto have caused their respective common seals to be hereto affixed (or have hereunto set their respective hands and seals) on the day and year first above written.

SIGNED AND DELIVERED

By the said Employer:	
	Signature:
	Region:
	(Deputy Director, Kenya Rural Roads Authority) (For and on behalf of the said Employer.)
In the presence of:	
	Signature
By the said Contractor:	
	Signature Designation: (For and on behalf of the said Contractor)
In the presence of :	
Si	gnature:
Address:	

QUALIFICATION INFORMATION

TENDER QUESTIONNAIRE

Please fill in block letters.	
Full name of Tenderer;	
Full address of Tenderer to which Tender corres has been appointed below);	spondence is to be sent (unless an agen
Telephone number (s) of Tenderer;	
Facsimile of Tenderer;	
Name of Tenderer's representative to be contact Tender period;	-
Details of Tenderer's nominated agent (if any) t address, telephone, telefax);	
	Signature of Tenderer
Make copy and deliver to:	- ·
Tenderer shall leave one copy at the time of pur	chase of the Tender documents)

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a) or 2 (b) 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; Country/Town
Plot No Street/Road
Postal Address Tel No
Nature of Business
Current Trade Licensee No Expiring date
Maximum value of business which you can handle at any time: Kshs
Name of your Bankers
Branch
Part 2 (b) – Partnership
Give details of partners as follows:
Name in full 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 d	irectors as follows:		
Name in full	. Nationality.	Citizenship Details*.	Shares
1			• • • • • • • • • • • • • • • • • • • •
2			
3			• • • • • • • • • • • • • • • • • • • •
4			
Part 2(d) – Interes	t in the Firm:		
Is there any person	persons in Kenya I	Rural Roads Authority who	
has interest in this f	irm? Yes/No	(Delete as necess	sary)
I certify that the infe	ormation given abov	ve is correct.	
(Title)	(Signature		

^{*} Attach proof of citizenship

CERTIFICATE OF TENDERER'S VISIT TO SITE

This is to certify that		
[Name/s]		
Being the authorized representative/Ag	ent of [Name of Tender	er]
Participated in the organized inspection Roa d:	n visit of the site of the v	
held on	day of	20
Signed(Employer's Representa	ative)	
	•••••	•••••

NOTE: This form is to be completed when the site visit is made

FORM OF WRITTEN POWER-OF-ATTORNEY

The Tenderer consisting of a joint venture shall state here below the name and address of his representative who is authorised to receive on his behalf correspondence in connection with the Tender.

(Name of Tenderer's Representative	in block letters)
(Address of Tenderer's Representative	ve)
(Signature of Tenderer's Representate	 tive)

SECTION 1 SCHEDULE 2: FINANCIAL STANDING

- Submit copies of audited profit and loss statements and balance sheet for at least the last three year.
- 2 Give turnover figures of the financial year(s). Quote in millions and decimal thereof.

	Year 1	Year 2	Year 3
	Ksh.		
Roadworks			
Other civil Engineering works			
Other (specify)			
Total			

SUMMARY OF ASSETS AND LIABILTIES OF THE FINANCIAL STATEMENTS OF THE LAST ONE (1) FINANCIAL YEAR.

	Year 1	Year 2	Year 3
	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+3-4)			

(a)	Name/Address of Commercial Bank providing credit line
(b)	Total amount of credit line (where applicable) KShs
	(Attach certified copies of financial bank statements of the Six Months.
	Attach a certified copy of Undertaking of the Bank to providing the credit.)

KEY PERSONNEL (as per qualification criteria)

DESIGNATION	NAME	NATIONALITY	SUMMARY OF QUALIFICATIONS AND
Handquartarge			EXPERIENCE
Headquarters: 1. Managing Director			
1. Managing Director			
2.			
3.			
3.			
etc.			
Site Office:			
1. Site Agent/			
Supervisor**			
2. Foreman			
2. Poleman			
3. Site Surveyor			
4			
4.			
State TAME A TAME A			

**-Must Meet

Note: The Bidder shall list in this schedule the key personnel to be employed from the Contractor's headquarters and from the Contractor's site office to direct and execute the work together with their qualifications (academic & professional), experience, position held.

Bidders shall attach Signed and <u>Certified CVs</u> of all key staff. The CVs must be signed by the owners (The staff)

I certify that the above infor	rmation is correct.		
(Signature of Bidder) I certify that the above inform	ation is correct.	(Date)	
	(Signature)	(Date)	(Title)

SCHEDULE OF THE PROPOSED APPROPRIATE 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

Item No.	Equipment Details	Minimum Number Required	No of Equipment Owned by the Bidder	No. of equipment to be hired
1	Pedestrian Roller – Man walk behind	1		
2	Double drum vibrating pedestrian roller(3Tons)	1		
3	Self-propelled single drum vibrating (10Tons)	1		
4	Mobile concrete mixers	1		
5	Excavator/loader	1*		
6	Concrete vibrators	1		
7	Tippers payload 7 – 10 tonnes	2		
8	Flat bed lorries	1		
9	Water tankers (10,000 litres capacity)	1		
10	Motor Grader **	1		
11	Crawler Tractor	1		

^{**}A must meet equipment

The Bidder must attach certif	ied copies of log books or lease a	agreement of the following
I certify that the above inform	nation is correct.	
(Title)	(Signature)	(Date)

SCHEDULE OF COMPLETED CIVIL WORKS CARRIED OUT IN THE PREVIOUS YEARS

WORKS (KSHS)	PERIOD (YEARS)	
	(YEARS)	
ks were successfully	carried out and comp	leted by ourselves.

I certify that the above Civil V	Vorks were successfully	carried out and comp	leted by ourselves.
(Title)	(Signature)		Date)

SCHEDULE OF ONGOING PROJECTS

DESCRIPTION OF WORK AND CLIENT	CONTRACT PERIOD	DATE OF COMMEN- CEMENT	DATE OF COMPLETIO N	TOTAL VALUE OF WORKS (KSHS.)	% COMPLET ED TODATE

I certify that the above Civinformation is correct.	il Works are being carried ou	at by ourselves and that the above
(Title)	(Signature)	(Date)

OTHER SUPPLEMENTARY INFORMATION

1.	<u>-</u>	the last three years, balance sh List them below and attach copi	neets, profit and loss statements, es.
	-		
2.		o financial resources to meet the lit etc. List below and attach copi	qualification requirements. Cash les of supporting documents
3.	provide reference if	phone, telex, fax numbers of the contacted by the Employer.	
4.	Information on curre	nt litigation in which the Tendere	er is involved.
O	THER PARTY (IES)	CAUSE OF DISPUTE	AMOUNT INVOLVED (KSHS)
	I certify that the above	ve information is correct.	
• • • • •	Title	Signature	Date

FRAUD & CORRUPTION

- If the Employer determines that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving 14 days notice to the Contractor, terminate the Contractor's employment under the Contract and expel him from the Site.
- 2 Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed.
- 3 For the purposes of this Sub-Clause:
 - (i) "corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - (ii) "fraudulent practice" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - (iv) "Coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party.

4 The Contractor declares that:

 They did not engage in any action to influence the Project implementation process to the detriment of the Employer, in particular no collusive practice took place nor will take place, and

The bidding proceedings, contract award, and execution have not and will not be subject to any corrupt practice as defined in the United Nations Convention to combat corruption dated 31 October 2003.

Dated this	day of20
Signature	in the capacity of
duly authorized to sign T	enders for and on behalf of [Name of Tenderer] of
	[Address of Tenderer]
	[Seal or Stamp of Tenderer]

ENVIRONMENTAL AND SOCIAL COMMITMENT

have taken due note of the importance to comply with environmental and social standard and regulations.	S
, the undersigned, [] acting as the duly authorized representative of],	
With respect to the submission of a bid for [] in accordance with the invitation to ender No [], I undertake to comply, and ensure that our subcontractors, if any, comply with international environmental and labour standards consistent with applicable aw and regulations in the country of implementation of the Project, including the fundamental conventions of the International Labour Organisation (ILO) and international environmental treaties In addition, I also undertake to adopt any environmental and social risk mitigation measures defined in the environmental and social management plan or the notice of environmental and social impact issued by the Employer.	es
Dated this day of20	
Signaturein the capacity of	
duly authorized to sign Tenders for and on behalf of[Name of Tenderer] of	
[Address of Tenderer]	

_[Seal or Stamp of Tenderer]

FORM RB 1

DECLARATION FORM

		Date	
То			
Th	e tenderer i.e. (Nar	ne and address)	
			<u>declare the following:</u>
ŕ	Has not been invo	arred from participating in olved in and will not be inverse public procurement.	public procurement. volved in corrupt and fraudulent
	Title	Signature	Date
(To	be signed by auth	orized representative and	officially stamped)

Spot improvement	and Maintenance	of D 1	C01020 Vanuaga	Tanau
Spot improvement	ana mainienance	oj koaa	Go 1930 Napyego –	rangu

SECTION VII: CONTRACTOR'S EVALUATION CHECKLIST

SECTION VIII: SPECIFICATIONS, DRAWINGS AND BILLS OF QUANTITIES STANDARD SPECIFICATIONS

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

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

I. SPECIFICATIONS

BILL 01: I	PRELIMINARY AND GENERAL ITEMS	50
01-50- 001	MOBILIZATION AND ESTABLISHMENT OF THE SITE	50
01-60-001	CONTRACT SUPERVISION	
01-60-002	CLEARANCE ON COMPLETION	50
01-60-003	Insurance	
01-60-004	QUALITY CONTROL TESTS	
01-60-005	PUBLICITY SIGN BOARDS	
01-60-006	DRINKING WATER	
01-60-007	PROVISION OF SITE SANITATION FACILITIES	
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BILL 01: PRELIMINARY AND GENERAL ITEMS

Scope:

This bill comprises those items that are required at the Commencement and Completion of the Works or that are Provisional Items applicable for the duration of the Works.

01-50-001 Mobilization and Establishment of the Site

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

The Contractor shall ensure that all possible means of protection are given to the labour force at all times. Such protection shall include provision of high visibility clothing or vests, goggles and masks for workers in potentially dangerous locations or dealing with potentially harmful materials. The Contractor shall also maintain first aid kits with a minimum of the following items:-

- Non Stick wound dressing
- Selection of plaster/band aids
- Crepe bandages
- Gauze and cotton wool
- Antiseptic solution (washing wounds)
- Antiseptic cream Betadine, Burnol
- Pain killers Panadol, Disprin
- Anti diarrhoea Immodium, Diadis, Charcoal
- Anti histamine Piriton, Triludan
- Anti nausea Stemetil
- Eye ointment
- Oral re-hydration sachets
- Surgical gloves

Measurement and Payment: NA

01-60-001 Contract Supervision

Provisional sum available for the Engineer for expenses incurred for supervising the contract such as allowances, casual wages and transportation within the project area.

Measurement and Payment:

Provisional Sum: Payable by the Contractor to the Engineer through certification as directed by the Engineer. No mark up is included in this item.

Work Method: NA

01-60-002 Clearance on Completion

On Completion of the Works, all temporary housing, 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 will be made upon approval by the Engineer that the Clearance has been satisfactorily carried out.

Work Method: NA

01-60-003 Insurance

The Contractor shall provide Insurance in accordance with the Conditions of Contract as indicated in the Appendix to form of tender for Rehabilitation and Improvement Contracts and Clause 14.1 for small works conditions of contract.

Measurement and Payment

Lump Sum payment for this item will be made upon the production of satisfactory evidence by the Contractor that Insurances have been affected.

Work Method: NA

01-60-004 Quality Control Tests

The Engineer may instruct the Contractor during the progress of the Works to carry out quality control tests to check materials and standards of workmanship, against the Specifications.

Where such tests indicate defective standards the Engineer shall instruct the Contractor to rectify the defects to the Engineer's satisfaction and at the Contractor's expense.

The Engineer shall include a Provisional Sum for this item to be expended only as and when the Contractor is instructed to carry out tests at approved material testing laboratories.

Measurement and Payment

Reimbursable item based on actual costs incurred by the contractor including sampling, transportation and testing.

Work Method: NA

01-60-005 Publicity Sign Boards

The Contractor shall provide Sign Boards as specified on the Drawings or as directed by the Engineer. The Sign Boards shall be placed at the beginning and end of the road or road bill covered by this Contract.

Sign Boards shall be maintained for the duration of the Works, and removed on completion.

Quality Control

The Engineer shall check that Sign Boards have been erected in accordance with Drawings and Specifications.

Measurement: Number

The unit of measurement shall be number of Sign Boards erected

Payment

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

Work Method: NA

01-60-006 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.

Work Method: LB

01-60-007 Provision of site sanitation facilities

The Contractor shall provide sanitation facilities on site for workers at a reasonable distance from all work locations, for the duration of the Works. This can be in the form of shallow pit latrines that are appropriately covered. All shallow pit latrines shall be filled in after the end of use.

Quality Control

The Engineer shall check regularly that adequate sanitation facilities 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 sanitation facilities have been provided.

Work Method: LB

BILL 04: SITE CLEARANCE

Scope

This bill covers the clearance of bushes, shrubs, grasses, trees, stumps, boulders, stripping and grubbing of the topsoil, removal of anthills and other unsuitable materials for the specified widths of the road, quarry and borrow areas. The distinction between light and heavy bush shall be decided by the Engineer.

The minimum site clearing widths for each of the activities shall be as shown in Table 4.1

Table 4.1: Site Clearing Widths

Road Category	Running Surface	Stripping and Grubbing	Trees, Stumps, Boulders	Bush Clearing
A/B/C + Secondary Roads	6.0 m	10.6 m	10.6 m	14.0 m
D/E + Minor Roads	5.4 m	10.0 m	10.0 m	13.0 m
RAR Roads	4.5 m	7.9 m	8.0 m	11.0 m
Minor / RAR roads with insufficient widths or Temporary sections	3.5 m	6.9 m	7.0 m	9.0 m

04-50-002 Grass Cutting

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

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 as either Machine Based (Mechanical Mowing) or as Labour Based as defined in the Bills of Quantity or as instructed by the Engineer.

Grass cutting shall be done off-carriageway and shall not include areas designated for grubbing.

Work Method:

LB or MB

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:

 m^2

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 equipment, labour, materials, tools, and incidental costs required to carry out the work.

04-50-003 Bush Clearing (Heavy)

Where the Engineer designates an area as Heavy Bush (based on the undergrowth density) the Contractor shall clear all vegetation including small trees, shrubs and undergrowth, **and their root systems**, and shall salvage any re-useable timber or other material by cutting into logs and stacking. Other cleared material shall be collected and disposed of off-site as directed by the Engineer.

This activity shall be carried out as either Machine Based or as Labour Based as defined in the Bills of Quantity or as instructed by the Engineer.

Work Method:

LB or MB

Quality Control

The Engineer shall check the cleared widths at 50 metre intervals

Measurement Unit:

 m^2

The measurement shall be the area cleared to the specified width over the length as instructed by the Engineer.

Payment:

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

04-50-004 Bush Clearing (Light)

The Contractor shall clear all vegetation including small trees, and shrubs with **their root systems**. Grasses and any undergrowth shall be cut to a height of not more than 100mm. The cleared material shall be collected and disposed of away from the side drains and in a manner that causes no visibility obstruction to traffic.

This activity shall be carried out as either Machine Based or as Labour Based as defined in the Bills of Quantity or as instructed by the Engineer.

Work Method: LB or MB

Quality Control

The Engineer shall check the cleared widths at 50 metre intervals.

Measurement Unit: m²

The measurement shall be the area cleared to the specified width over the length as instructed by the Engineer.

Payment:

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

04-50-005 Pruning Tree Branches

Where instructed by the Engineer, the Contractor shall trim tree branches to improve visibility. Cut material shall be collected and disposed of as directed by the Engineer and burning of waste material shall not be permitted.

Work Method: LB

Quality Control

The Engineer shall check for visibility improvement.

Measurement and Payment

A Provisional Sum shall be allowed for this item, which shall be paid under Day works.

04-50-006 Trees and Stumps Removal (200-450mm girth)

Trees and Stumps outside the construction width but within the road reserve having a trunk girth of between 200-450mm at a point 600mm above the ground shall only be removed on the instruction of the Engineer.

The Contractor shall excavate around any trees to be removed to a depth not less than 0.5 m before cutting the roots. Existing stumps shall be uprooted in the same manner. All holes left by the removal of trees and stumps shall be back-filled with approved material and compacted to existing ground level. Cut material and stumps shall be collected and disposed of as directed by the Engineer. Burning of waste material shall not be permitted.

Work Method: LB

Quality Control

The Engineer shall approve the removal, backfilling and satisfactory disposal of all waste material.

Measurement Unit: No

The measurement shall be the number of trees and stumps removed.

Payment

The unit rate shall be the full compensation for all labour, tools and incidental costs required to complete this item.

04-50-007 Trees and Stump Removal (>450mm girth)

All the requirements of item 04-50-003 shall apply for trees and stumps greater than 450mm girth. In addition any re-useable timber from trees removed shall be cut into logs not more than 1.5 metres long and stacked as directed by the Engineer.

Work Method: LB

Quality Control

The Engineer shall approve the removal, backfilling and satisfactory disposal of all waste material.

Measurement Unit: No.

Measurement shall be the number of trees and stumps removed

Payment:

The unit rate shall be the full compensation for all labour, tools, equipment and incidental costs required to complete this item.

04-50-008 Clearing Obstructions – Boulders and debris removal

The Contractor shall remove in a manner agreed by the Engineer, rocks and boulders greater than 1.5 m girth using labour, appropriate equipment and blasting as necessary. Boulders shall be disposed off outside the road area.

Blasting should only be done on instruction by the Engineer and only carried out by licensed individuals/firms.

Debris removal shall include:

- 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.

This activity shall be carried out as Machine Based, Labour Based or a mixture of the two as defined in the Bills of Quantity or as instructed by the Engineer.

Work Method: LB, MB, LB-MB

Quality Control

The Engineer shall approve the removal and satisfactory disposal of the boulders / debris.

The road section shall be free of any obstruction.

Measurement Unit: Provisional Sum

A Provisional Sum shall be included for this item

Payment:

Payment shall be made on a Day works basis.

04-50-009 Stripping and Grubbing

The Contractor shall remove, over the widths shown in Table 4.1, topsoil including grass, anthills, loose boulders up to 1.5m girth and other unsuitable material and deposit the debris outside the cleared area as directed by the Engineer.

Work Method: LB

Quality Control

The Engineer shall approve the stripped and grubbed area and the satisfactory disposal of waste material.

Measurement Unit m²

The measurement shall be the area grubbed as directed by the Engineer

Payment

The unit rate shall be the full compensation for all labour, tools and incidental expenses required to complete this item.

04-50-010 Excavate, remove and disposal of concrete structures

The Contractor shall excavate, remove and dispose of concrete structures as directed by the Engineer.

This activity shall be carried out either as Machine Based, Labour Based or a mixture of the two as defined in the Bills of Quantity or as instructed by the Engineer.

Work Method: LB, MB, LB-MB

Quality Control

The Engineer shall approve the area where the structure was removed from and the satisfactory disposal of the concrete structures.

A Provisional Sum shall be included for this item

Payment: Provisional Sum

Payment shall be made on a Day works basis.

Measurement Unit: Provisional Sum

BILL 08: CULVERT AND DRAINAGE WORKS

This bill covers all Works in connection with the installation of concrete pipe culverts; inlet and outlet structures; drifts and drainage protection Works; and the construction of Scour Checks

08-50-002: Ditch Cleaning

i 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 catch water drains shall be cleaned before the onset of the rains or as directed by the Engineer.

This activity shall be carried out either as Machine Based, Labour Based or a mixture of the two as defined in the Bills of Quantity or as instructed by the Engineer.

Work Method: LB, MB, LB-MB

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.

This activity shall be carried out either as Machine Based, Labour Based or a mixture of the two as defined in the Bills of Quantity or as instructed by the Engineer.

Work Method: **LB, MB, LB-MB**

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 re-excavated or re-shaped to the specified cross-section.

Payment

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

08-50-005: Ditch/Mitre Drains/Catch water Drains

The Contractor shall excavate side drains, mitre drains and catch water drains to the dimensions shown on the Drawings and at locations as directed by the Engineer. They shall be excavated in a manner to minimise erosion at the discharge point. The material excavated from the drains shall be used to form the side drain bund directing water to the mitre-drain, and a bund on the lower side of the cut-off drain, or used for forming camber or disposed of as directed by the Engineer.

This activity shall be carried out either as Machine Based, Labour Based or a mixture of the two as defined in the Bills of Quantity or as instructed by the Engineer.

Work Method: LB, MB, LB-MB

Quality Control

- The longitudinal profile shall have a gradient of maximum 4%.
- The dimensions of the drains shall have maximum tolerances of +20mm
- The location of the drains shall be approved by the Engineer.

Measurement Unit: m³

The measurement shall be the volume of material excavated as measured on site in approved drains.

Payment

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

08-60-001/005: Culvert 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	1200 mm	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.

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

Work Method: LB

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.

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

Work Method: LB

Quality Control

The culverts shall be checked as free from 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.

08-60-021/029 Supply and Installation of Concrete Pipe Culverts

08-60-016	300	mm	unhaunched
08-60-021	300	mm	surrounds
08-60-022	450	mm	unhaunched
08-60-023	450	mm	surrounds
08-60-024	600	mm	unhaunched
08-60-025	600	mm	surrounds
08-60-026	900	mm	unhaunched
08-60-027	900	mm	surrounds
08-60-028	1200	mm	unhaunched
08-60-029	1200	mm	surrounds

The Contractor shall supply, lay and join concrete pipes to form culverts, including the concrete bedding; haunching or surrounds; and backfilling, in accordance with the Drawings for the Type and diameter specified in the Contract or directed by the Engineer.

The pipes shall be of Class 20/20 concrete, at least 28 days cured, and manufactured on site or procured from a supplier approved by the Engineer and preferably ogee jointed. The pipes shall be laid on a bedding of Class 15/20 concrete of dimensions as shown on the Drawings and jointed with cement mortar 1:4.

The culvert gradient including the outlet shall be a minimum 2%.

The pipes shall be surrounded with Class 15/20 concrete to the dimensions shown on the Drawings or as directed by the Engineer.

Backfilling shall be carried with approved material and compacted in layers not exceeding 150 mm loose depth and placed evenly on each side of the pipe. Ramps shall be shaped to achieve a minimum overfill of 75% of the pipe diameter, and shall be tapered back on the carriageway to provide a gradual approach, as directed by the Engineer.

If the Contractor wishes to construct culverts on site, using inflatable or collapsible forms the Engineer's approval shall first be sought for the proposed working method.

On completion the inside of the culvert shall be smooth, without displaced joints or other obstructions and true to line and level.

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

Work Method: LM-MB

Quality Control

- Concrete quality shall be checked for cracks, honey combing, and other defects.
- Before the pipes are laid, the gradient of the concrete bedding shall be checked and shall not be less than 2%
- The joints shall be checked to see that they have been properly made.

Measurement Unit: m

The measurement shall be in linear metres of the installed Type and size of culvert specified, measured net according to the Drawings.

Payment

The unit rate shall be the full compensation for labour, tools, materials, equipment and any other incidentals that may be required in carrying out the work.

08-60-019 Headwall Construction - Masonry

The Contractor shall construct inlet and outlet structures for culverts including headwalls, wingwalls in stone masonry or concrete block, and aprons in concrete to the dimensions and levels shown on the Drawings (Types 1 to 4) as directed by the Engineer. The walls shall be built on foundations of class 15/20 concrete and jointed with cement mortar 1:4. The aprons shall be in Class 20/20 concrete and after laying the surface shall be kept moist for 3 days.

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

Work Method: LB-MB

Quality Control

• The dimensions of the structures shall have a tolerance of +10mm

- The levels shall have a tolerance of +10mm
- The mortar joints shall be finished flush with the face of the walls.

Measurement Unit: m³

The measurement shall be the volume of the structures constructed, in whichever material, measured net according to the Drawings.

Payment

The unit rate shall be the full compensation for labour, tools, materials and any other incidentals that may be required in carrying out the work.

08-60-020 Headwall Construction – Concrete

The Contractor shall construct inlet and outlet structures for culverts in concrete to the dimensions and levels shown on the Drawings (Type 1 to 4) as directed by the Engineer.

Concrete shall be Class 20/20 unless otherwise specified. The formwork for the walls shall be erected on the concrete foundations, to the correct dimensions, and shall be approved by the Engineer before concrete is poured. Concrete shall be poured in a single lift and the top surface shall be kept moist for 3 days. Formwork may be struck after 2 days or as directed by the Engineer.

The Contractor shall use a concrete vibrator or other means approved by the Engineer to ensure full compaction of the concrete.

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

Work Method: LM-MB

Quality Control

- The dimensions of the structures shall have a maximum tolerance of + 20mm / 10mm
- The workability and mix of concrete shall be checked using the slump test and shall have a slump limit as directed by the Engineer. The frequency of testing shall be determined by the Engineer
- The concrete shall be checked for cracks, honey combing and other defects at the time of striking the formwork.

Measurement Unit: m³

The measurement shall be the volume of concrete in the completed structure, measured net in accordance with the Drawings.

Payment

The unit rate shall be the full compensation for labour, tools, materials, formwork, equipment and other incidentals that may be required in carrying out the work.

08-60-030	Excavate in soft material for culverts
08-60-031	Excavate in hard, material for culverts
08-60-032	Provide, lay and join 450mm inner dia. Concrete pipes
08-60-033	Provide, lay and join 600mm inner dia. Concrete pipes
08-60-034	Provide, lay and join 900mm inner dia. Concrete pipes
08-60-035	Provide, compact class 15/20 concrete
08-60-036	Provide, compact class 20/25 concrete
08-60-037	Provide and place A142 fabric mesh reinforcement
08-60-038	Selected backfill materials

These activities should be done in accordance with Bill 8, sub clauses 8.01 to 8.20 in the Standard Specifications for Roads and Bridges 1986.

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

Work Method: LM-MB

Quality Control

- The workability and mix of concrete for the classes 15/20 and 20/25 shall be checked using the slump test and shall have a slump limit as directed by the Engineer.
- The laying and joining of the culverts shall be subject to the approval of the engineer.

Measurement Unit: m

The measurement shall be the length of culvert laid.

Payment

The unit rate shall be the full compensation for labour, tools, materials, formwork, equipment and other incidentals that may be required in carrying out the work.

08-70-006: Construction of Scour Checks (Concrete)
08-70-007: Construction of Scour Checks (Masonry)
08-70-008: Construction of Scour Checks (Wesden Stell

08-70-008: Construction of Scour Checks (Wooden Stakes)

The Contractor shall construct scour checks using either stones, wooden stakes, or concrete as instructed by the Engineer.

Construction of concrete scour checks shall be in class 20/20 concrete, unless otherwise specified, and to the details shown in the Drawings.

Spacing for scour checks shall be as shown in Table 8.1, or as directed by the Engineer.

Table 8.1: Scour checks spacing

Gradient of Drain	Scour Check Spacing	Gradient of Drain	Scour Check
			Spacing
4% or less	not required	8%	7.5m
5%	20m	9%	6m
6%	15m	10%	5m
7%	10m	>10%	4m

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

Work method: LB

Quality Control

The spacing of the scour checks shall have a tolerance of ± 0.5 m The sizes of the wooden stakes and stones used shall be in accordance with the Drawings The shape of the scour check shall be checked using the scour check template.

Measurement Unit: No.

The measurement shall be the **number** of scour checks constructed.

Payment

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

BILL 10: GRADING AND GRAVELLING

Scope:

Grading covers the work of reinstating the road carriageway to the correct camber by removing the high points and filling gullies, corrugations, and wheel ruts to restore a smooth running surface.

Grading can either be done by labour (Manual Reshaping) or by Machine (Motorized grading or towed grading).

Manual reshaping is preferable where there is sufficient labour. For existing roads with side drains light manual reshaping should be used as defined in 10-50-004. Heavy manual reshaping should be used for roads that have deteriorated to such an extent that the drains and carriageway need to be reinstated. Heavy Manual Reshaping is defined under Bill 5 – Earth Works.

Light grading is carried out on good and fair roads as a maintenance activity while heavy grading is for re-establishing a road in poor or very poor condition.

Gravelling consists of the excavation; loading, hauling, dumping, spreading and compacting using approved equipment of gravel wearing course material on the formation of the road carriageway. Gravel shall include lateritic gravel, quartzitic gravel, calcareous gravel, decomposed rock, soft stone coral rag, clayey sand and crushed rock.

The material may be obtained from quarries, borrow pits or excavation in cuttings as directed by the Engineer. Gravel material shall conform to the requirement given in

Table 10.1: Requirement for Gravel Wearing Course

GRADING REQUIREMENTS				
Sieve	% by Weight			
(mm)	Passing			
40	100			
28	95 – 100			
20	85 – 100			
14	65 – 100			
10	55 – 100			
5	35 – 92			
2	23 – 77			
1	18 – 62			
0.425	14 - 50			
0.075	10 - 40			

For "Quarry Waste" gravel stones maximum dimension 80mm may permitted

PLASTICITY INDEX REQUIREMENTS PI				
Zone WET: Mean annual rainfall > 500mm	Min 5	Max 20		
DRY: Mean annual Rainfall < 500mm	10	30		

	BEARING STRENGTH REQUIREMENTS				
	Traffic		DCP		
	VPD	CBR	Equivalent		
			mm/Blow		
	>15	20	11		
of	<15	15	14		
be	CBR at 95 % MDD, Modified AASHTO and 4				
	days soaking				
	Lower quality material (CBR 15) may be				
	accepted if no better material can be found				

The Engineer shall approve quarries and the extent of their exploitation. The possible quarries shall be shown to the Contractor prior to commencement of the Works. The Contractor shall be responsible for the acquisition of the quarry rights and shall conduct respective negotiations with landowners and affected communities.

Alternative sources of gravel material whose quality can be shown to be in compliance with the specification requirements may be used, with the approval of the Engineer. The Contractor is deemed to have included in his rates for the provision of the gravel material.

10-50-004: Carriageway Grading - Light Grading

Light grading shall only be done when there is sufficient moisture in the material. The Contractor shall grade the carriageway to control roughness and corrugations using either a Towed or a Motor grader. The width of the carriageway shall be as specified for the Road Class.

Pegs 200 to 300mm long shall be placed at 20 m intervals to mark edge of the carriageway

The material shall be bladed toward the centre of the road, starting from both edges, to the specified camber. Where instructed by the Engineer, suitable materials from the side drains may be used to fill potholes and gullies in the carriageway. Any further material needed to re-form the camber shall be from an approved source. Compaction shall be achieved using the wheels of the equipment, tracked evenly over the full surface, or by other approved means.

No grading shall be carried out in dry conditions.

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

Work Method: MB

Quality Control

- The width of the carriageway shall be checked at every 50m intervals and have a tolerance of +50mm or -20mm
- The camber shall be checked with a camber board at 25m intervals and shall have a tolerance of \pm 1%
- Longitudinal levels shall be checked with a straight edge of minimum 2.7 m length. Maximum tolerance of ± 10 mm.

Measurement Unit: m²

The measurement shall be the area of carriageway graded, measured net according to the specified width and measured length graded.

Payment

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

10-50-004: Light Manual Reshaping (Grub edge, fill gullies and Reshape carriageway)

This activity involves trimming the edge of the carriageway, grubbing grass from the carriageway filling gullies and ruts on 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 and fill gullies. 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.

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

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.

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

Work Method: LB

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 \pm 1%
- The quality of fill material shall be approved by the Engineer
- The minimum compaction to be applied to fill areas shall be such that no rammer imprint on the surface shall be seen.

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.

10-60-001: Provide Gravel Wearing Course (Excavation, Free haul, spreading and Compaction of Gravel)

Excavation of Gravel

Gravel shall be excavated from quarries approved by the Engineer, and the Contractor shall inform the Engineer if the quality/availability of the gravel changes during the course of excavation.

Stones and boulders with one dimension greater than 80mm shall be removed from the excavated gravel and deposited outside the quarry at locations approved by the Engineer. Such stones and boulders may be reused in other parts of Works with the approval of the Engineer.

Excavation and loading shall normally be by labour unless, at the request of the Contractor, the Engineer allows the use of equipment.

The Contractor shall use **Labour** and/or **Equipment** to carry out this work, as directed by the Engineer.

Work Method: LB or MB

Quality Control:

• Oversize stones and boulders shall not be loaded for haulage to the road.

Areas containing deleterious material shall not be excavated.

Free haul, spreading and Compaction of Gravel

Free haul involves the transportation of gravel material for the first 1.5 km from the quarry. The Contractor shall spread and compact gravel material, in a manner to ensure a uniform thickness of the layer across the full width of the carriageway and shaped to the specified camber. Spreading also includes the removal of any oversized stones or boulders, which cannot be broken down to the required size, to spoil dumps. Gravel shall be spread within 24 hours of off-loading.

Compaction of the gravel material shall be carried out from the carriageway edges to the centerline by overlapping passes of the compaction equipment. The number of passes shall be as directed by the Engineer dependent upon the equipment used and the material being compacted. Unless otherwise instructed the moisture content of the material shall be within $\pm 2\%$ of optimum

Where additional moisture is required water shall be applied in an even manner and the rate of application shall be such that no transverse or longitudinal flows occur.

The Engineer may instruct the Contractor to carry out density tests on the compacted material to ensure that an acceptable standard has been achieved.

The Contractor shall use Equipment for haulage and **Labour** for spreading unless the Engineer instructs otherwise.

Work Method: LB-MB

Quality Control:

- The gravel surface width shall be checked at 100m intervals and shall have a tolerance of +50mm
- Trial holes shall be dug as directed by the Engineer to check the gravel thickness and shall have a tolerance of + 5mm / 0mm
- The camber shall be checked at 50m intervals and the maximum tolerance shall be +1 %
- The longitudinal profile shall be checked after the compaction of each load to ensure a smooth surface with no corrugations or depressions, tolerance of + 10mm.
- Compaction shall show no movement of material under the roller, minimum of 6 passes.
- Compaction test standard shall be 95% MDD (AASHTO T180)

Measurement Unit: m³

The measurement shall be the volume of compacted gravel surfacing measured net according to the Drawings and shall include the excavation and the 1.5km 'free' haul distance

Payment

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

10–60- 002: Haulage (Overhaul beyond **1.5km**)

The Contractor shall haul by appropriate equipment and off-load on the road as directed by the Engineer. Where the quantity delivered in any load falls short of the equipment capacity, off-loading shall only be permitted after the agreed spacing is adjusted accordingly.

No vehicle with a capacity of greater than 10 tonnes shall be permitted to off-load gravel directly on the prepared formation unless approved by the Engineer. Any greater loads shall be dumped in stockpiles off-road and transported to the formation areas by appropriate means.

Where loads supplied are found to contain material other than from the approved quarry and are of unacceptable quality, the Contractor shall remove them from site at the Contractor's expense.

The Contractor shall use **Equipment** to carry out this Item.

Work Method: MB

Quality Control:

- No haulage equipment shall be used until its capacity has been ascertained by the Engineer
- The quality of gravel dumped on the road shall be according to the Specifications
- The quantity of material delivered in each load shall be checked before dumping is allowed
- The distance between the stacks shall be checked to ensure the required compacted thickness will be achieved.

Measurement Unit: m³km (Overhaul)

The Contractor shall allow in the rates for item 10-60-001 for a 'free' haul distance of 1.5km. The 'overhaul' shall be the distance, greater than 1.5km, to the centre point of the section where the gravel is being dumped and processed, measured along the shortest route as determined by the Engineer.

The measurement of overhaul shall be the product of the volume of the gravel hauled and the distance to the centre point as indicated above.

Payment

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

10-60-004 Gravel Patching (Excavation, Free haul, Spreading and Compaction of Gravel)

Excavation of Gravel

Gravel shall be excavated from quarries approved by the Engineer, and the Contractor shall inform the Engineer if the quality/availability of the gravel changes during the course of excavation.

Stones and boulders with one dimension greater than 80mm shall be removed from the excavated gravel and deposited outside the quarry at locations approved by the Engineer. Such stones and boulders may be reused in other parts of Works with the approval of the Engineer.

Excavation and loading shall normally be by labour unless, at the request of the Contractor, the Engineer allows the use of equipment.

The Contractor shall use **Labour** and/or **Equipment** to carry out this work, as directed by the Engineer.

Work Method: LB or MB

Quality Control:

- Oversize stones and boulders shall not be loaded for haulage to the road.
- Areas containing deleterious material shall not be excavated.

Free haul, preparation, spreading and Compaction of Gravel

Free haul involves the transportation of gravel material for the first 1.5 km from the quarry. The Contractor shall prepare the area to be patched by removing excessive water and loose material. The contractor shall then dump, spread and compact gravel material, in a manner to ensure a uniform thickness of the layer across the full width of the carriageway and shaped to the specified camber. Spreading also includes the removal of any oversized stones or boulders, which cannot be broken down to the required size, to spoil dumps. Gravel shall be spread within 24 hours of off-loading.

Compaction of the gravel material shall be carried by overlapping passes of the compaction equipment. The number of passes shall be as directed by the Engineer dependent upon the equipment used and the material being compacted. Unless otherwise instructed the moisture content of the material shall be within +2% of optimum

Where additional moisture is required water shall be applied in an even manner and the rate of application shall be such that no transverse or longitudinal flows occur.

The Engineer may instruct the Contractor to carry out density tests on the compacted material to ensure that an acceptable standard has been achieved.

The Contractor shall use Equipment for haulage and **Labour** for spreading unless the Engineer instructs otherwise.

Work Method: LB-MB

Quality Control:

- The gravel surface width shall be checked at 100m intervals and shall have a tolerance of ± 50mm
- Trial holes shall be dug as directed by the Engineer to check the gravel thickness and shall have a tolerance of + 5mm / 20mm
- The camber shall be checked at 50m intervals and the maximum tolerance shall be +1 %
- The longitudinal profile shall be checked after the compaction of each load to ensure a smooth surface with no corrugations or depressions, tolerance of \pm 10mm.
- Compaction shall show no movement of material under the roller, minimum of 6 passes.
- Compaction test standard shall be 95% MDD (AASHTO T180)

Measurement Unit: m³

The measurement shall be the volume of compacted gravel surfacing measured net according to the Drawings and shall include the excavation and the 1.5km 'free' haul distance

Payment

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

25-50-002 Soil Erosion Mitigation Measures

Soil Erosion problems must be identified and appropriate mitigation measures included during the preparation of the contract document. However the Engineer shall provide a Provisional Sum for Soil Erosion Mitigation Measures that were foreseen during the preparation of the document.

Measurement

A Provisional Sum shall be included in the Bill of Quantities for this item.

DRAWINGS

FIGURE C.1 - CROSS SECTION A (MINOR STANDARD CROSS-SECTION)

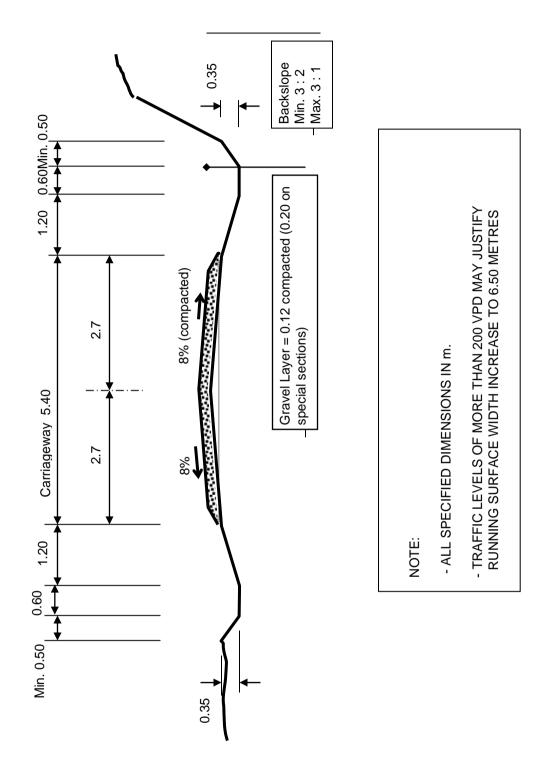


FIGURE C.3 - MITRE DRAINS

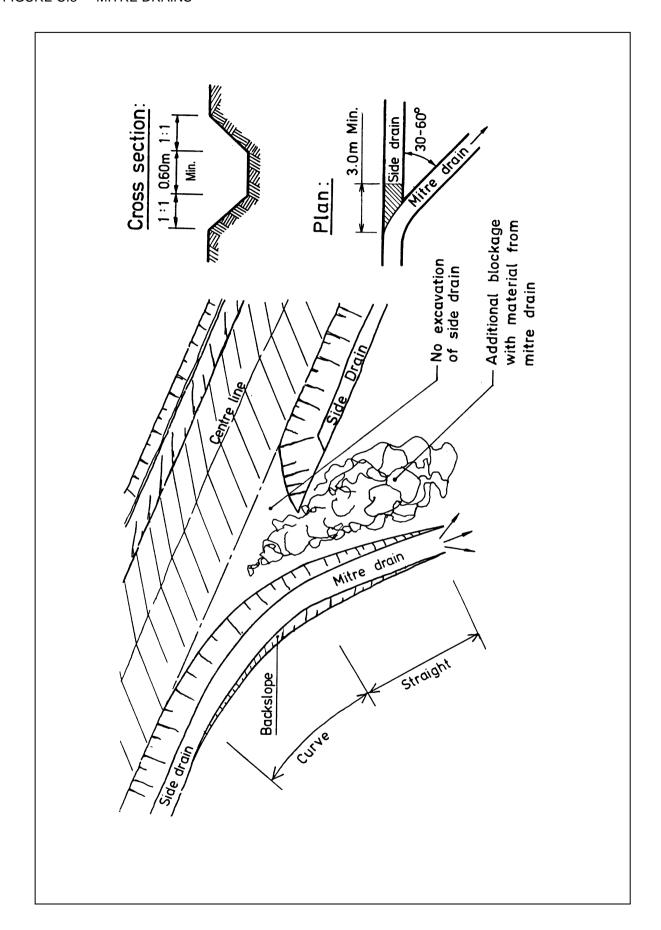
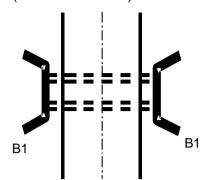
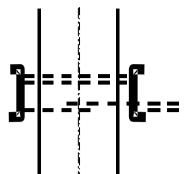


FIGURE C.7 - CULVERT ENTRY / EXIT STRUCTURE TYPES

TYPE 1 (ENTRY AND EXIT)

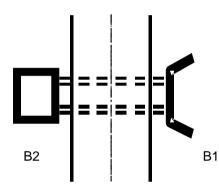


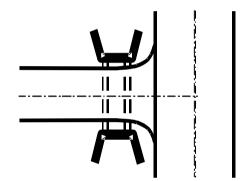




TYPE 2 (ENTRY ONLY!)

TYPE 4 (ENTRY AND EXIT ON ACCESS)





NOTE:

Coding system has been used in describing the standardised designs of the various culvert entry and exit structures. The code names consist of a number to specify shape and function as elaborated in above while the used construction materials are identified through an alphabetic symbol as follows:

A = Concrete block

B = Stone masonry

C = Dressed stones

An example code of "B2" would therefore stand for a drop inlet type structure to be built in stone masonry.

FIGURE C.8 - HEADWALL TYPE 1

		TYPF A					
PIPE DIAMETER IN (M)		CONCR	(CONCRETE BLOCKS	SXS			
	7	450	009	006	450	009	
DIMENSION							
a FOUNDATION m		0:30	0:30	0:30	0.40	0.40	
b FOUNDATION m		0:30	0:30	0.40	0:30	0:30	
c FOUNDATION		2.20	2.35	5.89	2.20	2.35	
d APRON m		1.00	1.00	1.20	1.00	1.00	
Φ		0.20	0.20	0.20	0.20	0.20	
f WALL m		0.20	0.20	0.20	0.40	0.40	
9 WALL m		0.30	0.30	0.30	0:30	0.30	: S
h WALL m		1.15	1.15	1.39	1.15	1.15	B.
l WALL m		0.20	0.20	0.20	0.40	0.40	ΔM
k APRON m		1.05	1.20	1.50	1.05	1.20	006
							9.0
MATERIAL REQUIREMENT	_						. O C
FOUNDATION							9 6
(Concrete) m	E E	0.3	0.32	0.51	0.4	0.42	00 0.2
HEAD/WINGWALLS							0 4.0
(Concrete/Masonry) m	"E	9.4	0.47	29.0	0.8	0.93	0.3
APRON							0 7.3
(Concrete) m	m³ (0.33	98.0	0.53	0.33	0.36	9 0
							1.5
							0
							5.
							ო
							5. 5.
)
							က

(HEAD AND WINGWALLS)

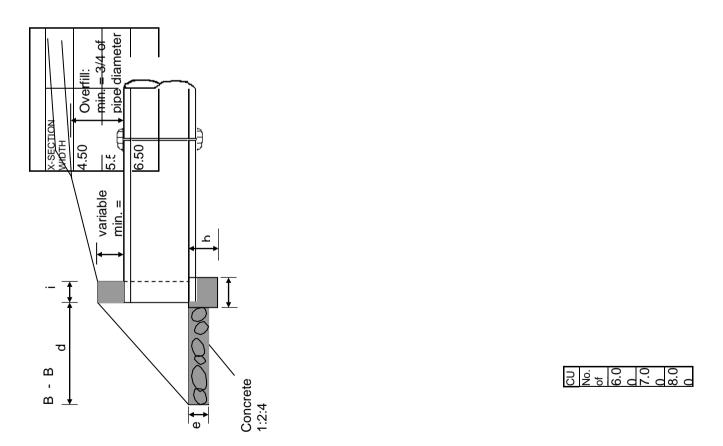
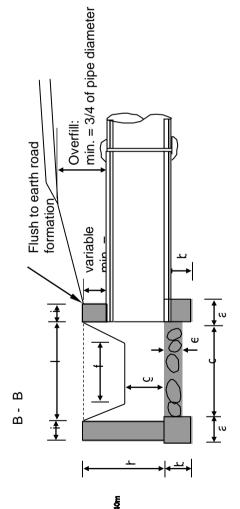
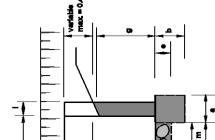


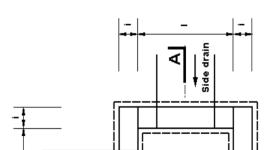
FIGURE C.9 - HEADWALL TYPE 2 (DROP INLET)

TS	MA MA 900	0.40	0:30	1.50	1.00	0.20	09.0	09.0	1.20	0.40	1.50	1.00	0.30	0.7	7.0 1	} 0

							IF
		TYPE A					
PIPE DIAMETER IN (M)		(CONCR	(CONCRETE BLOCKS	S)			
		450	009	006	450	009	`
DIMENSION	⊢						
a FOUNDATION	٤	0:30	0:30	0:30	0.40	0.40	
o FOUNDATION	٤	0:30	0:30	0:30	0:30	0:30	
5 FOUNDATION	٤	1.10	1.10	1.40	1.20	1.20	
d APRON	٤	06.0	06:0	06.0	1.00	1.00	<u> </u>
e APRON	٤	0.20	0.20	0.20	0.20	0.20	
DROP INLET	٤	09:0	09:0	09:0	09:0	09:0	
9 DROP INLET	٤	0:30	0.40	09:0	0:30	0.40	
h DROP INLET	٤	09:0	0.80	1.20	09:0	08.0	
DROP INLET	٤	0.20	0.20	0.20	0.40	0.40	
V DROP INLET	٤	1.20	1.20	1.50	1.20	1.20	
DROP INLET	٤	1.00	1.00	1.00	1.00	1.00	
m DROP INLET	٤	0.38	0:30	0:30	0.38	0:30	-
MATERIAL REQUIREMENT	ΙΝ	_					
FOUNDATION							
(Concrete)	E B	0.47	0.47	0.52	0.72	0.72	
HEAD/WINGWALLS							
(Concrete/Masonry)	E .	0.53	69.0	1.11	1.24	1.63	
APRON							
(Concrete)	m ₃	0.24	0.24	0.30	0.24	0.24	
							ı







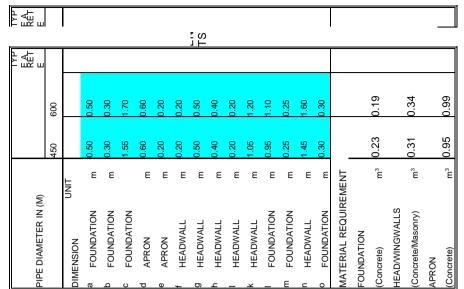
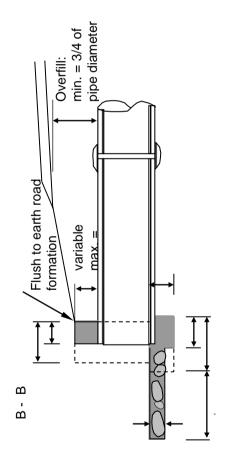
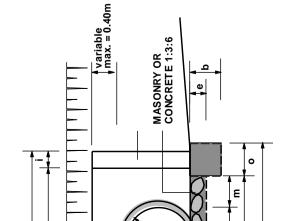
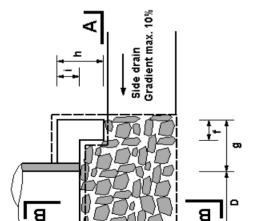


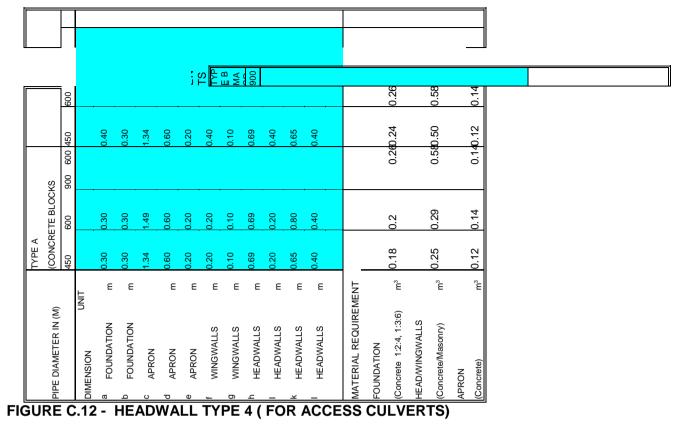
FIGURE C.10 - HEADWALL TYPE 3A (CONCRETE BLOCK HEADWALLS)

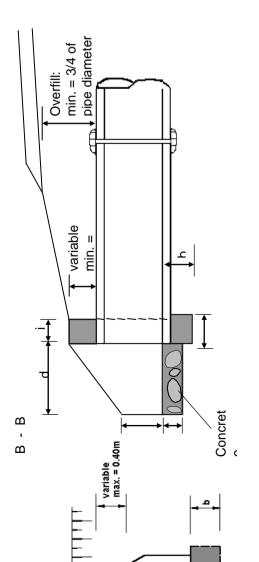






Specifications Spot improvement







Overfill > 3/4 Diameter;
Seasonal waterflow only.

FIGURE C.13- BEDDING AND HAUNCH PROFILES TYPES I & II

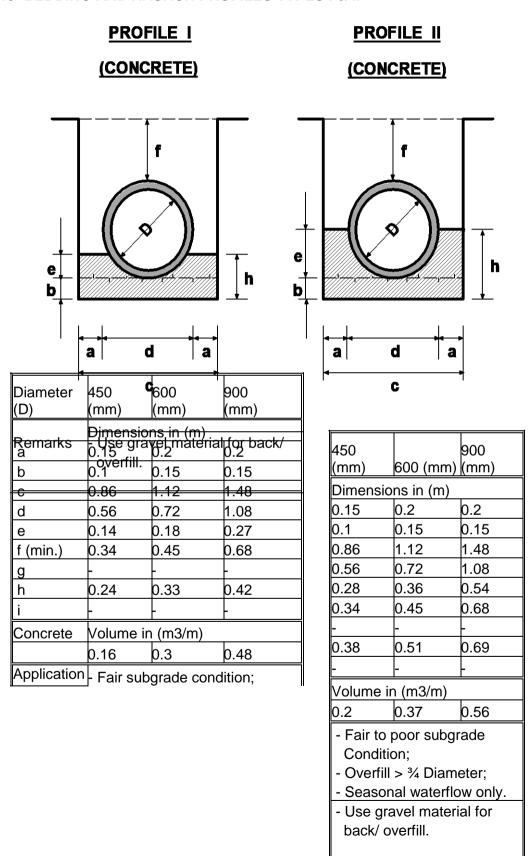


FIGURE C.14 - BEDDING AND HAUNCH PROFILES TYPES III & IV

Overfill > 3/4 Diameter;

Seasonal waterflow only.

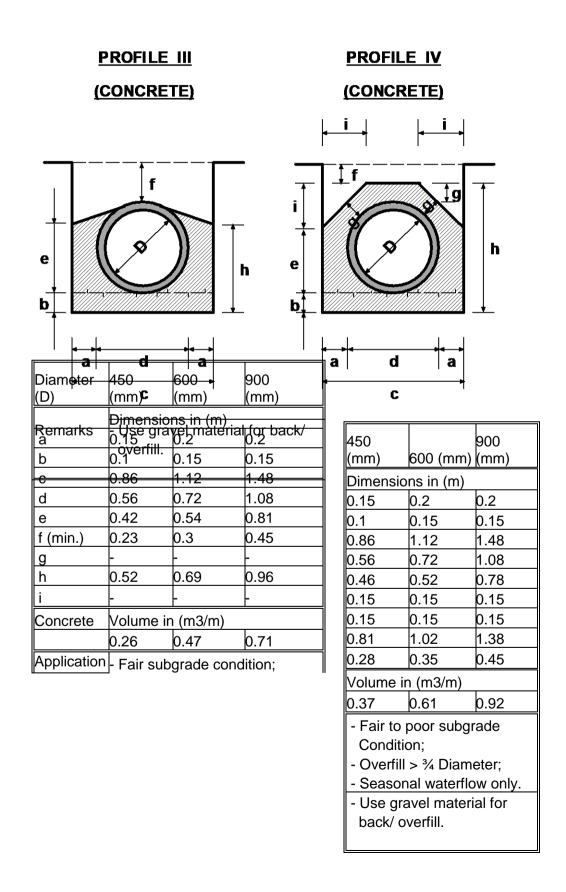
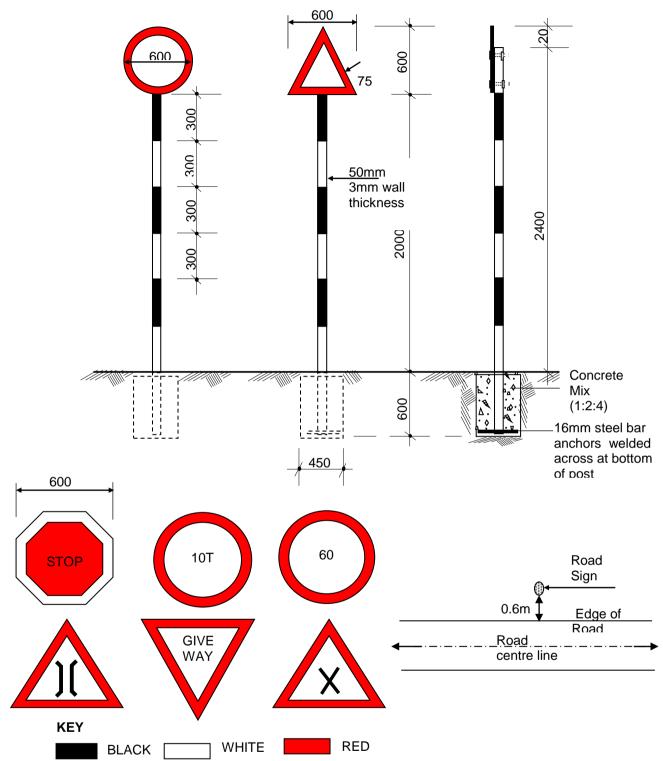
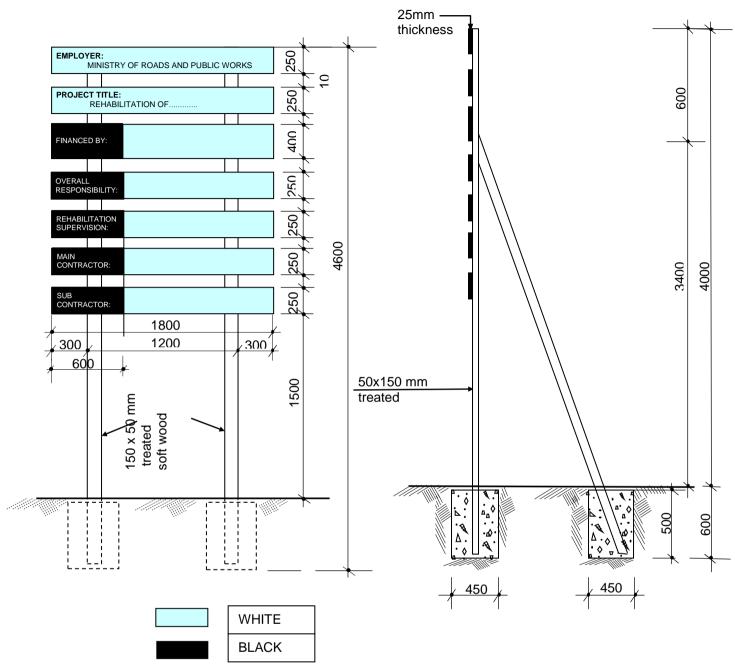


FIGURE C.16 - TRAFFIC SIGNS



- 1. The type of sign required and their location shall be as shown on the improvement plan and as directed by the Engineer
- 2. Sign plate to be 2 mm thick mild steel plate
- 3. Sign post to be 50 mm internal diameter steel pipe with wall thickness of 3 mm.
- 4. Sign plate to fixed to steel tube by 4 Nos M10 bolts and 2 Nos 50 mm f fixing clamps/brackets.
- 5. Sign paints shall be reflective.
- 6. The sign plate and post shall be treated by applying two coats of lead red oxide paint before applying priming and two finish coats of approved paints. Paints used shall have a hard, durable and glossy finish.

FIGURE C.17 - PUBLICITY SIGNBOARD



- **NOTES**
 - 1. The wording of the project signboard and the location to be installed to be as directed by the Engineer
 - 2. Materials to be used for fabrication of signboard shall be pressure impregnated treated softwood timber sizes as indicated in the drawing
 - 3. Wording boards to be nailed to the posts using nails.
 - 4. Project board posts and struts to be embedded in concrete ratio 1:2:4

PREAMBLE TO BILLS OF QUANTITIES

1. The Bills of Quantities forms part of the Contract Documents and are to be read in conjunction with the instructions to Tenderers and these documents. Bidders should initial each page of the bill of quantities page.

- 2. The prices and rates to be inserted in the Bill 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 and shall be within the prescribed limits. The item rates shall be compared to the engineer's rates and checked for reasonableness, failure to justify the rates will lead to Automatic disqualification.
- 3. Each item in the B/Q contains only a brief description of the proposed work. Fuller details and directions 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.
- 4. The Quantities set forth in the Bill of Quantities are estimated and representing substantially the work to be carried out. There is no guarantee to the Contractor that he will be required to carry out all the quantities of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of work actually done in fulfilment of his obligation under the Contract.
- 5. Day work items shall be expended in whole or in part at the discretion of the Employer.
- 6. The prices and rates inserted in the Bills of Quantities will be used for valuing the work executed, and the Engineer will only measure the whole of the works executed in accordance with this Contract.

BILLS OF QUANTITIES

(AS GENERATED FROM RMS)

Road

Code G81938 Section Name TANGUL-KAPCHOGE

Package: KeRRA/011/KEMA/039/021/20|21

Contractor Bill of	Quantities	0			Dago: 1	
Bill No.1	General: Office administration and overheads/Preliminaries			Unit Bid	Project:	
Item No.	Description	Units	Quantity	Rate(Ksh)	Amount KSh	Technology
01-60-005	Publicity Sign Boards	KS	2			LB-MB
01-50-014	Field supervision	KS	200,000.00		200,000.00	LB-MB
	Total Carried Forward to Summary:					

Road Code G81938 Section Name TANGUL-KAPCHOGE

Package: KeRRA/011/KEMA/039/021/20|21

Contractor 0

Contractor	0					1
Bill of	Quantities				Page: 2	
Bill No.4	SITE CLEARANCE				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
04-50-003	Heavy Bush Clearing	M²	4000			LB
	Total Carried Forward to Summary:					

Road

Code G81938 Section Name TANGUL-KAPCHOGE

Package: KeRRA/011/KEMA/039/021/20|21

Contractor	0					-
Bill of	Quantities				Page: 3	
Bill No.5	EARTHWORKS				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
05-50-008	Cut to spoil in Soft	M³	1200			LB
	Total Carried Forward to Summary:					

Road Code G81938 Section Name TANGUL-KAPCHOGE

Package: KeRRA/011/KEMA/039/021/20|21

Contractor

Contractor	0					_
Bill of	Quantities				Page: 4	
Bill No.8	CULVERT AND DRAINAGE WORKS			Unit Bid	Project:	
Item No.	Description	Units	Quantity	Rate(Ksh)	Amount KSh	Technology
08-60-027	Culvert Installation 900 mm with surround	METERS	16			LB
08-50-005	Ditch/Mitre drain /catch water drain excavation	M³	250			LB
08-60-003	Culvert Cleaning- Partially blocked - 600mm	MT	200			LB
	Total Carried Forward to Summary:					

Specifications Spot improvement

Road Code G81938 Section Name TANGUL-KAPCHOGE

Package: KeRRA/011/KEMA/039/021/20|21

Contractor	0				•	-
Bill of	Quantities				Page: 5	
Bill No.10	GRADING AND GRAVELLING WORKS				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
10-60-003	Gravel Patching	M³	1813			MB
10-50-001	Heavy grading without watering or compaction instructed by the Engineer	M²	42000			MB
	Total Carried Forward to Summary:					

RoadCode G81938

Structure:

Package: KeRRA/011/KEMA/039/021/20|21

Contractor

0	
antities	Page: 1
Summary	Project:
Description	Amount (KShs)
General: Office administration and overheads/Preliminaries	
SITE CLEARANCE	
EARTHWORKS	
CULVERT AND DRAINAGE WORKS	
GRADING AND GRAVELLING WORKS	
Sub Total	
VAT @ 14 %	
Total	
Contingencies (@ 0 %)	
Carried to page on the form of Tender	
	Summary Description General: Office administration and overheads/Preliminaries SITE CLEARANCE EARTHWORKS CULVERT AND DRAINAGE WORKS GRADING AND GRAVELLING WORKS Sub Total VAT @ 14 % Total Contingencies (@ 0 %)