



## KENYA RURAL ROADS AUTHORITY

### KILIFI REGION

#### SPOT IMPROVEMENT WORKS IN KILIFI REGION

#### KALOLENI CONSTITUENCY

**ROAD NUMBER:** C236

**ROAD NAME:** KWADEMU - KIZURINI

**ROAD SECTION:** NGULUWENI - KWADEMU (5+000 – 9+500)

**TENDER NUMBER:** KeRRA/011/39/21/2017-2018

#### 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

***(Open to Pre-qualified contractors)***

**JANUARY, 2018**

**The Engineer**

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

**The Employer**

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

# STANDARD TENDER DOCUMENT FOR PROCUREMENT OF WORKS

➤ SPOT IMPROVEMENT WORKS

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**SECTION I: INVITATION FOR TENDERS**

Tender reference No. KeRRA/011/39/21/2017-2018

**Tender Name: C236: Kwademu -Kizurini (Nguluweni – Kwademu)**

- 1.1** The Kenya Rural Roads Authority invites sealed tenders for the Tender Name: **C236: Kwademu -Kizurini (Nguluweni – Kwademu)**
- 1.2** Interested eligible candidates may obtain further information and inspect tender documents at Kenya Rural Roads Authority, Kilifi Region along Kibaoni Prison Road or on KeRRA Website during normal working hours.
- 1.3** A complete set of tender documents may be obtained by interested candidates by downloading it Free of Charge by Visiting KeRRA website [www.kerra.go.ke](http://www.kerra.go.ke) or upon payment of a non-refundable fee of Kshs.1,000 deposited in Kenya Rural Roads Authority Account Number 1114343196 KCB Moi Avenue branch.
- 1.4** Prices quoted should be net inclusive of all taxes, must be in Kenya shillings and shall remain valid for **120** days from the closing date of tender.
- 1.5** Completed tender documents are to be enclosed in plain sealed envelopes marked with Tender name and reference number and deposited in the Tender Box at Kenya Rural Roads Authority, Kilifi Region along Kibaoni Prison Road 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 candidates or their representatives who choose to attend at Kenya Rural Roads Authority, Kilifi Region along Kibaoni Prison Road.

## 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 documents with their tenders, unless otherwise stated:
- (a) **Certified** Copy of Certificate of incorporation.
  - (b) **Certified** Copy of Registration with National Construction Authority in Category “8” and above.
  - (c) Copy of valid Tax Compliance Certificate.
  - (d) Copy of VAT and PIN Certificate.
  - (e) Current Six months bank statement.
  - (f) Proof of having undertaken works of similar nature in the past 2 years, completion certificate must be attached.
  - (g) Dully filled and signed anti-fraud and anticorruption form.
  - (h) Dully filled and signed environmental and social commitment form.
  - (i) Current workload.
  - (j) Schedule of the key personnel, minimum of Diploma in Civil Engineering for the persons to be engaged in undertaking the works.
  - (k) Proof of ownership of equipment or a valid and executed lease agreement for the equipments listed in the document.
  - (l) Copy of Certificate of Registration in the special group issued by the National Treasury for those applying for the AGPO tenders.
  - (m) Copy of the recent CR12 form for 12-months(AGPO tenders).
  - (n) Dully signed pre-tender site visit certificate.
  - (o) Sequential serialization of the tender document attachments.
  - (p) **Certified**, signed and properly filled written power of attorney form.
  - (q) Properly filled confidential business questionnaire.
  - (r) Properly filled and signed form of tender.
- 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.
- 1.6 The tender documents can be downloaded free of charge from the KeRRA website [www.kerra.go.ke](http://www.kerra.go.ke)
- 1.7 The procuring entity shall allow the tenderer to review the tender document free of charge before purchase.
- 1.8. The estimated budget for these works is Kenya Shillings .4,900,000.00

## **2. Tender Documents**

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

## **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 Twenty (120)** days from the date of submission. However in exceptional circumstances, the Employer may request that the Tenderers extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing.
- 3.7 The Tenderer shall prepare one original of the documents comprising the tender documents as described in these Instructions to Tenderers.
- 3.8 The original shall be typed or written in indelible ink and shall be signed by a person or persons duly authorised 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 comply with this requirement will be disqualified.
- 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, including the information disclosed to those present will also be prepared by the Employer.
- 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 determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows:
- (a) where there is a discrepancy between the amount in figures and the amount in words, the amount in words will prevail; and
  - (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will prevail, unless in the opinion of the Employer's representative, there is an obvious typographical error, in which case the adjustment will be made to the entry containing that error.
  - (c) In the event of a discrepancy between the tender amount as stated in the Form of Tender and the corrected tender figure in the main summary of the Bill of Quantities/Quotation, the amount as stated in the Form of Tender shall prevail.
  - (d) The Error Correction Factor shall be computed by expressing the difference between the tender amount and the corrected tender sum as a percentage of the Corrected Builder's Work (i.e. corrected tender sum less P.C. and Provisional Sums).
  - (e) The Error Correction Factor shall be applied to all Builder's Work (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuation of variations.
  - (f) The amount stated in the tender will be adjusted in accordance with the above procedure for the correction of errors and with concurrence of the Tenderer, shall be considered as binding upon the Tenderer. If the Tenderer does not accept the corrected amount, the tender may be rejected and the Tender Security forfeited.
- 5.5 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.
- 5.6 Contract price variations shall not be allowed for contracts not exceeding one year (12 months)
- 5.7 Where contract price variation is allowed, the valuation shall not exceed 25% of the original contract price.
- 5.8 Price variation requests shall be processed by the procuring entity within 30 days of receiving the request.

- 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 III: QUALIFICATION CRITERIA

Qualification Criteria			Compliance Requirements	Documentation
No.	Subject	Requirement	Single Entity	Submission Requirements
<b>1. Eligibility</b>				
1.1	Eligibility	Nationality in accordance with confidential business Questionnaire in the standard forms	Must meet requirement	Refer to standard form section 7
1.4	Incorporation & Registration	<p>Pursuant to sub clause 1.2 the following shall be provided;</p> <ul style="list-style-type: none"> <li>- Certified Copy of Certificate of incorporation to show that the applicant is a registered company and legally authorised to do business in Kenya/Certificate of registration of a firm/group.</li> <li>- Proof of registration with the National Construction Authority Category NCA 8 and above for Road Works.</li> <li>- Proof of prequalification with KeRRA in the appropriate Category, with an exception to AGPO Contracts.</li> <li>- Copy of a Valid Tax Compliance Certificate</li> <li>- Copy of PIN/VAT Certificate.</li> <li>- Duly filled Anti-corruption pledge form</li> <li>- Dully Filled, signed and stamped certified Power of</li> </ul>	Must meet requirement	Refer to standard form section 7

Qualification Criteria			Compliance Requirements	Documentation
No.	Subject	Requirement	Single Entity	Submission Requirements
		<p>Attorney (Certified by Commissioner of Oaths)</p> <ul style="list-style-type: none"> <li>- Duly filled and signed environmental and social commitment form.</li> <li>- Sequential serialization of bid attachments.</li> </ul> <p>Additionally the following should be submitted for those bidding for the AGPO contracts.</p> <ul style="list-style-type: none"> <li>- Copy of certificate of Registration of a particular group issued by the National Treasury for (Small works and Engineering)</li> <li>- Copy of recent CR12 for last 12 months.</li> <li>- Copy of IDs/Valid passports of all Directors/Partners.</li> </ul>		
2.1	Pending Litigation	All pending litigation shall in total not represent more than fifty percent (50%)] of the Applicant's net worth and shall be treated as resolved against the Applicant.	Must meet requirement by itself or as party to past (High)	Refer to standard form section 7
3.1	Financial Performance	<p>Submission of:</p> <ul style="list-style-type: none"> <li>(a) The audited accounts for the last two years.</li> <li>(b) Proof of Having opened a Bank Account in firms/groups name</li> </ul>	Must meet requirement (High)	Refer to standard form section 7
4.1	General Construction Experience	Experience under roadworks construction contracts in the role of contractor, subcontractor, or management contractor for at least the last Two (2) years prior to the applications submission deadline (Not	Must meet requirement (High)	Refer to standard form section 7

Qualification Criteria			Compliance Requirements	Documentation
No.	Subject	Requirement	Single Entity	Submission Requirements
		Mandatory for AGPO bids)		
4.2		b) For the above or other contracts executed during the period stipulated in 4.1 above, a minimum construction experience in at least two (2) of: - Routine maintenance and spot improvement	Must meet requirements	Refer to standard form section 7
4.3	Work Methodology	Submission of a brief work methodology	Should demonstrate understanding of the scope of works and other general requirements  (Medium)	Refer to standard form section 7
<b>5. Equipment Holding</b>				
5.1	Minimum number of Equipment	The bidder must indicate the minimum the core plant and equipment considered by the company to be necessary for undertaking the project together with proof of ownership or a valid updated Lease/Hire agreements	Must meet the requirement (High)	Refer to standard form section 7
<b>6. Current Commitment</b>				



Qualification Criteria			Compliance Requirements	Documentation
No.	Subject	Requirement	Single Entity	Submission Requirements
6.1	On-going contracts	The total value of current works on the on-going contracts must not exceed Two (2) in number	Must meet requirements (High)	
<b>7. Site Staff</b>				
1	Site Agent	The site staff shall possess minimum levels set below; Qualification = Under-graduate (Civil Engineering) or equivalent General Experience = At least 5 yrs	Must meet requirements (High)	Refer to guideline notes
2	Dep. Site Agent	Qualification = Diploma or equivalent (Civil Engineering) General Experience = At least 3 yrs		
3	Foreman	Qualification = Certificate (Civil Engineering) General Experience = At least 2 yrs		

## 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 including workshops where the same is being prepared.

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

“Employer’s Representative” is the person appointed by the Employer and notified to the Contractor for the purpose of supervision of the Works.

“Specification” means the Specification of the Works included in the Contract.

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

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

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

“ A Variation” is an instruction given by the Employer’s Representative which varies the Works.

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

## **2. Contract Documents**

2.1 The following documents shall constitute the Contract documents and shall be interpreted in the following order of priority;

- (1) Agreement,
- (2) Letter of Acceptance,
- (3) Contractor’s Tender,
- (4) Conditions of Contract,
- (5) Specifications,
- (6) Drawings,
- (7) Bills of Quantities

### **3. Employer's Representative's Decisions**

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

### **4. Works, Language and Law of Contract**

- 4.1 The Contractor shall construct and install the Works in accordance with the Contract documents. The Works may commence on the Start Date and shall be carried out in accordance with the Program submitted by the Contractor, as updated with the approval of the Employer's Representative, and complete them by the Intended Completion Date.
- 4.2 The ruling language of the Contract shall be English language and the law governing the Contract shall be the law of the Republic of Kenya.

### **5. Safety, Temporary works and Discoveries**

- 5.1 The Contractor shall be responsible for design of temporary works and shall obtain approval of third parties to the design of the temporary works where required.
- 5.2 The Contractor shall be responsible for the safety of all activities on the Site.
- 5.3 Any thing 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 authorised by the Employer's Representative ,access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

## **8 Instructions**

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

## **9 Extension of Completion Date**

9.1 The Employer's Representative shall extend the Completion Date if an occurrence arises which makes it impossible for completion to be achieved by the Intended Completion Date. The Employer's Representative shall decide whether and by how much to extend the Completion Date.

9.2 For the purposes of this clause, the following occurrences shall be valid for consideration;

Delay by:-(a) force majeure, or

(b) reason of any exceptionally adverse weather conditions, or

(c) reason of civil commotion, strike or lockout affecting any of the trades employed upon the Works or any of the trades engaged in the preparation, manufacture or transportation of any of the goods or materials required for the Works, or

(d) reason of the Employer's Representative's instructions issued under these Conditions, or

(e) reason of the contractor not having received in due time necessary instructions, drawings, details or levels from the Employer's Representative for which he specifically applied in writing on a date which having regard to the date for Completion stated in the appendix to these Conditions or to any extension of time then fixed under this clause was neither unreasonably distant from nor unreasonably close to the date on which it was necessary for him to receive the same, or

(f) delay on the part of artists, tradesmen or others engaged by the Employer in executing work not forming part of this Contract, or

- (g) reason of delay by statutory or other services providers or similar bodies engaged directly by the Employer, or
- (h) reason of opening up for inspection of any Work covered up or of the testing or any of the Work, materials or goods in accordance with these conditions unless the inspection or test showed that the Work, materials or goods were not in accordance with this Contract, or
- (i) reason of delay in appointing a replacement Employer's Representative, or
- (j) reason of delay caused by the late supply of goods or materials or in executing Work for which the Employer or his agents are contractually obliged to supply or to execute as the case may be, or
- (k) delay in receiving possession of or access to the Site.

## **10 Management Meetings**

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

## **11 Defects**

- 11.1 The Employer's Representative shall inspect the Contractor's work and notify the Contractor of any defects that are found. Such inspection shall not affect the Contractor's responsibilities. The Employer's Representative may instruct the Contractor to search for a defect and to uncover and test any Work that the Employer's Representative considers may have a defect. Should the defect be found, the cost of uncovering and making good shall be borne by the Contractor. However if there is no defect found, the cost of uncovering and making good shall be treated as a variation and added to the Contract Price.
- 11.2 The Employer's Representative shall give notice to the Contractor of any defects before the end of the Defects Liability Period, which begins

at Completion, and is defined in the Appendix to Form of Agreement.

- 11.3 Every time notice of a defect is given, the Contractor shall correct the notified defect within the length of time specified by the Employer's Representative's notice. If the Contractor has not corrected a defect within the time specified in the Employer's Representative's notice, the Employer's Representative will assess the cost of having the defect corrected by other parties and such cost shall be treated as a variation and be deducted from the Contract Price.

## **12 Bills of Quantities**

- 12.1 The Bills of Quantities shall contain items for the construction, installation, testing and commissioning of the Work to be done by the Contractor. The Contractor will be paid for the quantity of the Work done at the rates in the Bills of Quantities for each item. Items against which no rate is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the rates for other items in the Bills of Quantities.
- 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) No advance payment \_\_\_\_\_ (percent of Contract Price, [after Contract execution] to be inserted by the Employer).
  - (ii) First stage (define stage) \_\_\_\_\_
  - (iii) Second stage (define stage) \_\_\_\_\_
  - (iv) Third stage (define stage) \_\_\_\_\_
  - (v) 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 clause, remove from the Site as and when required within such reasonable time as the Employer's Representative may in writing specify, any temporary buildings, plant, machinery, appliances, goods or materials belonging to him, and in default thereof, the Employer may (without being responsible for any loss or damage) remove and sell any such property of the Contractor, holding the proceeds less all costs incurred to the credit of the Contractor.

19.3 Until after completion of the Works under this clause, the Employer shall not be bound by any other provision of this Contract to make any payment to the Contractor, but upon such completion as aforesaid and the verification within a reasonable time of the accounts therefor the Employer's Representative shall certify the amount of expenses properly incurred by the Employer and, if such amount added to the money paid to the Contractor before such determination exceeds the total amount which would have been payable on due completion in accordance with this Contract, the difference shall be a debt payable to the Employer by the Contractor; and if the said amount added to the said money be less than the said total amount, the difference shall be a debt payable by the Employer to the Contractor.

## **20. Corrupt Gifts and Payments of Commission**

20.1 The Contractor shall not;

- (a) Offer or give or agree to give to any person in the service of the Employer any gifts or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract with the Employer or for

showing or forbearing to show favour or disfavour to any person in relation to this or any other contract with the Employer.

- (b) Any breach of this Condition by the Contractor or by anyone employed by him or acting on his behalf (whether with or without the knowledge of the Contractor) shall be an offence under the Laws of Kenya.

## **21. Settlement of Disputes**

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

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## FORM OF TENDER

TO: \_\_\_\_\_[Name of Employer] \_\_\_\_\_[Date]

\_\_\_\_\_ [Name of Contract]

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above Works, We, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs. \_\_\_\_\_ [Amount in figures] Kenya Shillings \_\_\_\_\_ [Amount in words]
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 time stated in the Appendix.
3. We agree to abide by this Tender until \_\_\_\_\_ [Insert date], and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this Tender together with your written acceptance thereof, shall constitute a binding Contract between us.
4. We understand that you are not bound to accept the lowest or any Tender you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_

duly authorized to sign Tenders for and on behalf of \_\_\_\_\_ [Name of Tenderer] of

\_\_\_\_\_ [Address of Tenderer]

Witness: Name \_\_\_\_\_

Address \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

**FORM OF INVITATION FOR TENDERS**

\_\_\_\_\_[Date]

To: \_\_\_\_\_ [Name of Contractor]

\_\_\_\_\_[Address]

\_\_\_\_\_

\_\_\_\_\_

Dear Sirs:

Reference: \_\_\_\_\_ [Contract Name]

You are qualified to tender for the above Contract.

We hereby invite you and other qualified Tenderers to submit a Tender for the execution and completion of the Works.

A complete set of Tender documents may be purchased from \_\_\_\_\_

\_\_\_\_\_  
[Mailing address, cable/telex/facsimile numbers].

Upon payment of a non-refundable fee of Kshs \_\_\_\_\_

All Tenders shall be accompanied by .....number of copies of the same and a Tender Security in the form and amount of Kshs..... and shall be delivered to:

\_\_\_\_\_  
[Address and location]

at or before \_\_\_\_\_ (time and date). Tenders will be opened immediately thereafter, in the presence of those Tenderers' 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

## LETTER OF AWARD

[Letterhead paper of the Employer]

\_\_\_\_\_ [Date]

To: \_\_\_\_\_  
[Name of the Contractor]

\_\_\_\_\_  
[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 given in the Tender documents] for the Contract

Price of Kshs. \_\_\_\_\_ [amount in figures][Kenya

Shillings \_\_\_\_\_ (amount in words) ] in accordance with the Instructions  
to Tenderers is hereby accepted.

You are hereby instructed to proceed with the execution of the said Works in accordance with the  
Contract documents.

Authorized Signature .....

Name and Title of Signatory .....

Attachment :



## FORM OF TENDER SECURITY

WHEREAS .....(hereinafter called “the Tenderer”) has submitted a Tender dated ..... for the Rehabilitation/Spot Improvement of .....  
 ..... (Name of Contract)

KNOW ALL PEOPLE by these presents that WE ..... having our registered office at .....(hereinafter called “the Bank”), are bound unto .....(hereinafter called “the Employer”) in the sum of Kshs..... for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors and assigns by these presents sealed with the Common Seal of the said Bank this ..... Day of .....20.....

THE CONDITIONS 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 execute the Form of Agreement in accordance with the Instructions to Tenderers, if required; or
  - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Tenderers;

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

This guarantee will remain in force up to and including thirty (30) days after the Period of Tender validity, and any demand in respect thereof should reach the Bank not later than the said date.

\_\_\_\_\_  
 [Date]

\_\_\_\_\_  
 [Signature of the Bank]

\_\_\_\_\_  
 [Witness]

\_\_\_\_\_  
 [Seal]

## PERFORMANCE BANK GUARANTEE

To: \_\_\_\_\_(Name of Employer) \_\_\_\_\_(Date)

\_\_\_\_\_(Address of Employer)

Dear Sir,

WHEREAS \_\_\_\_\_(hereinafter called “the Contractor”) has undertaken, in pursuance of Contract No. \_\_\_\_\_ dated \_\_\_\_\_ to execute \_\_\_\_\_ (hereinafter called “the Works”);

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognised bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

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

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Kshs. \_\_\_\_\_ (amount of Guarantee in figures) Kenya Shillings \_\_\_\_\_ (amount of Guarantee in words), and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of Kenya Shillings \_\_\_\_\_ (amount of Guarantee in words) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

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

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

This Guarantee shall be valid until the date of issue of the Employer’s notice under Sub-Clause 8.2 (Taking-Over Notice), of the Conditions of Contract.

SIGNATURE AND SEAL OF THE GUARANTOR \_\_\_\_\_

Name of Bank \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

## FORM OF AGREEMENT

**THIS AGREEMENT** is made on the .....day of ..... 2018 between the **Kenya Rural Roads Authority, of P.O. BOX 48151 - 00100, Nairobi, Kenya or his representative** hereinafter called the “**Employer**” on the one part and -----

-----hereinafter called the “**Contractor**” of the other part.

**WHEREAS** the Employer is desirous that certain works should be executed, on -  
**THE ROAD:**.....  
 at a Contract Sum of Kshs.....

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: .....

Date: .....

Region: **KILIFI REGION**

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

In the presence of:.....

Signature.....

Date: .....

By the said Contractor: .....

Signature.....

Designation:.....

(For and on behalf of the said Contractor)

Date: .....

In the presence of : .....

Signature:.....

Address:.....

Date: .....

## SECTION V: APPENDIX TO FORM OF AGREEMENT

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

Item	Data
Time for Completion	Three (3) Months,
Priority of Documents	<p>The documents forming the Contract shall be interpreted in the following order of priority:</p> <ul style="list-style-type: none"> <li>• the Contract Agreement and Appendix to form of agreement</li> <li>• the Letter of Acceptance</li> <li>• the Form of Tender</li> <li>• the Conditions of Contract, Part II - Conditions of Particular Application</li> <li>• the Conditions of Contract, Part I - General Conditions of Contract</li> <li>• the Specifications</li> <li>• the Drawings,</li> <li>• the Priced Bill of Quantities</li> </ul>
Law of Contract	Laws of the Republic of Kenya
Language	English
Provision of Site	On Commencement Date
Name and Address of Employer	<p>The Director General Kenya Rural Roads Authority P.O. Box 48151-00100 <b>Nairobi</b></p>
Authorised Person	<p>The General Manager (Maintenance), Kenya Rural Roads Authority P.O. Box 48151-00100 <b>Nairobi</b></p>
Name and Address of the Engineer	<p>The Regional Manager, Kenya Rural Roads Authority P. O. Box 27-80108 <b>KILIFI</b></p>
Name and Address of Engineer's Representative	<p>The Constituency Roads Officer (..... Constituency) P.O. Box 27-80108 <b>KILIFI</b></p>

Item	Data
Penalty to the Contractor for Employer paying workers on his behalf	10% of the amount paid to the workers.
Performance Security	
Amount	Not Applicable
Form	
Requirements of Contractors Design	Not applicable
Programme	
⇒ Time of Submission	On Commencement Date
⇒ Form of Programme	Bar Chart
⇒ Interval Updates	As requested by the RM
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	Not Applicable
Maximum Amount of Advance Payment	Not Applicable
Form of Guarantee for Advance Payment	Not Applicable
Valuation of Works	Remeasurements with Bills of Quantities
Repayment Schedule for Advance Payment	Not Applicable
Minimum Amount of Interim Payment	Ksh. 2 Million.
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/ Not required

Item	Data
Insurance	Amount of Cover
⇒ The Works, materials plants & fees- Contractor's All risks	The Contract Price stated in the Agreement +15%+replacement cost of equipment on site.
⇒ Third party injury to persons and damage to property	Ksh. ....(RM to insert figure)
⇒ Workers compensation (WIBA- workers injury benefits policy)	As per work injury benefits act 2007 laws of Kenya
Arbitration	
⇒ Rules	CAP 49 of the Laws of Kenya
⇒ Appointing Authority	Chairman Chartered Institute of Arbitrators, Kenya Branch.
⇒ Place of Arbitration	Kenya Rural Roads Authority, Headquarters

## QUALIFICATION INFORMATION

### TENDER QUESTIONNAIRE

Please fill in block letters.

1. Full name of Tenderer;  
.....
2. Full address of Tenderer to which Tender correspondence is to be sent (unless an agent has been appointed below);  
.....
3. Telephone number (s) of Tenderer;  
.....
4. Facsimile of Tenderer;  
.....
5. Name of Tenderer's representative to be contacted on matters of the Tender during the Tender period;  
.....
6. Details of Tenderer's nominated agent (if any) to receive Tender notices (name, address, telephone, telefax);  
.....  
.....

\_\_\_\_\_  
Signature of Tenderer

Make copy and deliver to: \_\_\_\_\_ (Name of Employer) ( The Tenderer shall leave one copy at the time of purchase 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 directors as follows:

Name in full	Nationality.	Citizenship Details*.	Shares.
--------------	--------------	-----------------------	---------

- 1.....
- 2.....
- 3.....
- 4.....

**Part 2(d) – Interest in the Firm:**

Is there any person / persons in ..... (Name of Employer) who  
has interest in this firm? Yes/No..... (Delete as necessary)

I certify that the information given above is correct.

.....  
(Title) (Signature) (Date)

## SCHEDULE OF LABOUR: - BASIC RATES

(Reference: Clause 4 of Conditions of Particular Application)

LABOUR CATEGORY	UNIT (MONTH/SHIFT/HOUR)	RATES

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

I certify that the above information is correct.

.....  
(Title)

.....  
(Signature)

.....  
(Date)

## CERTIFICATE OF TENDERER'S VISIT TO SITE

This is to certify that

[Name/s].....

.....

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

.....

.....

participated in the organized inspection visit of the site of the works for the (participated in the organised inspection visit of the site of the work.....

.....(.....KM )

held on ..... day of.....20.....

Signed.....

(Employer's Representative)

.....

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)

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

### ALTERNATIVE

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

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

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

## KEY PERSONNEL

DESIGNATION	NAME	NATIONALITY	SUMMARY OF QUALIFICATIONS AND EXPERIENCE
Headquarters: 1. Managing Director  2.  3.  4.  5.  etc.			
Site Office:  1. Site Agent          2. Deputy Site Agent          3. Foreman			

I certify that the above information is correct.

.....  
(Title)

.....  
(Signature)

.....  
(Date)

## 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	Motor grader	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		

The Bidder must attach certified copies of log books or valid updated lease agreements of the following

I certify that the above information is correct.

.....  
(Title)

.....  
(Signature)

.....  
(Date)

## SCHEDULE OF COMPLETED CIVIL WORKS CARRIED OUT IN THE PREVIOUS YEARS

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

I certify that the above Civil Works were successfully carried out and completed by ourselves.

.....  
(Title)

.....  
(Signature)

.....  
(Date)



## SCHEDULE OF ONGOING PROJECTS

DESCRIPTION OF WORK AND CLIENT	CONTRACT PERIOD	DATE OF COMMEN- CEMENT	DATE OF COMPLETION	TOTAL VALUE OF WORKS (KSHS.)	% COMPLETED TODATE

I certify that the above Civil Works are being carried out by ourselves and that the above information is correct.

.....  
(Title)

.....  
(Signature)

.....  
(Date)

## OTHER SUPPLEMENTARY INFORMATION

1. Auditors' reports etc. List them below and attach copies.

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

2. Evidence of access to financial resources to meet the qualification requirements. line of credit etc. List below and attach copies of supporting documents

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

3. Name, address , telephone, telex, fax numbers of the Tenderer's Bankers who may provide reference if contacted by the Employer.

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

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

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

I certify that the above information is correct.

.....  
 Title

.....  
 Signature

.....  
 Date

## ADJUDICATOR’S AGREEMENT

Identification of Project:

.....  
(the “Project”)

Name and address of the Employer:

.....  
(the “Employer”)

Name and address of the Contractor:

.....  
(the “Contractor”)

Name and address of the Adjudicator:

.....  
(the “Adjudicator”)

**Whereas** the Employer and the Contractor have entered into a Contract (“the Contract”) for the execution of the Project and wish to appoint the Adjudicator to act as adjudicator in accordance with the Rules for Adjudication [“the Rules”].

### The Employer, Contractor and Adjudicator agree as follows:

1. The Rules and dispute provisions of the Contract shall form part of this Agreement.
2. The Adjudicator shall be paid:

A retainer fee of ..... per calendar month(where applicable)

A daily fee of .....

Expenses (including the cost of telephone calls, courier charges, faxes and telexes incurred in connection with his duties; all reasonable and necessary travel expenses, hotel accommodation and subsistence and other direct travel expenses).

Receipts will be required for all expenses.

3. The Adjudicator agrees to act as Adjudicator in accordance with the Rules and has disclosed to the Parties any previous or existing relationship with the Parties or others concerned with the Project.
4. This Agreement shall be governed by the laws of.....
5. The Language of this Agreement shall be .....

SIGNED BY .....

For and on behalf of the Employer in the presence of

Witness .....  
Name .....  
Address .....  
Date .....

SIGNED BY .....

For and on behalf of the Contractor in the presence of

Witness .....  
Name .....  
Address .....  
Date .....

SIGNED BY .....

For and on behalf of the Adjudicator in the presence of

Witness .....  
Name .....  
Address .....  
Date .....

## FRAUD & CORRUPTION

- 1 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:

- a) 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 of \_\_\_\_\_ 20\_\_\_\_\_

Signature \_\_\_\_\_ in 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]

## ENVIRONMENTAL AND SOCIAL COMMITMENT

I have taken due note of the importance to comply with environmental and social standards and regulations.

I, the undersigned, [.....]  
acting as the duly authorized representative of  
[.....],

With respect to the submission of a bid for  
[.....] in accordance  
with the invitation to tender No [.....],  
I undertake to comply, and ensure that our subcontractors, if any, comply with international environmental and labour standards consistent with applicable law 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 as defined in the environmental and social management plan or the notice of environmental and social impact issued by the Employer.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_

duly authorized to sign Tenders for and on behalf of

\_\_\_\_\_ [Name of Tenderer] of

\_\_\_\_\_ [Address of Tenderer]

\_\_\_\_\_ [Seal or Stamp of Tenderer]

FORM RB 1

REPUBLIC OF KENYA

## PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

APPLICATION NO.....OF.....20.....

BETWEEN

.....APPLICANT

AND

.....RESPONDENT (Procuring Entity)

Request for review of the decision of the..... (Name of the Procuring Entity) of  
.....dated the...day of .....20.....in the matter of Tender No.....of  
.....20...

### REQUEST FOR REVIEW

I/We.....,the above named Applicant(s), of address: Physical  
address.....Fax No.....Tel. No.....Email ....., hereby request the Public  
Procurement Administrative Review Board to review the whole/part of the above mentioned decision  
on the following grounds , namely:-

- 1.
- 2.
- etc.

By this memorandum, the Applicant requests the Board for an order/orders that: -

- 1.
- 2.
- etc

SIGNED .....(Applicant)

Dated on.....day of ...../...20...

---

### FOR OFFICIAL USE ONLY

Lodged with the Secretary Public Procurement Administrative Review Board on ..... day of  
.....20.....

SIGNED

Board Secretary

DECLARATION FORM

Date \_\_\_\_\_

To \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The tenderer i.e. (Name and address) \_\_\_\_\_  
\_\_\_\_\_ declare the following:

- a) Has not been debarred from participating in public procurement.
- b) Has not been involved in and will not be involved in corrupt and fraudulent practices regarding public procurement.

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

(To be signed by authorized representative and officially stamped)



## **SECTION VII: CONTRACTOR'S EVALUATION CHECKLIST**

### Supervision Check List (1/2)

Project Title:	
Contractor:	

1. This check list is for Resident Engineer to check contractor's work execution process.  
 2. Fill in date of checking as (day/month), mark as indicated in Filling Example, and state remarks.  
 3. Put this check list in the Monthly Progress Report.

	Date	Name	Signature
The Engineer's Representative (Project Engineer)			
Resident Engineer			

Item	Check Point		before	During execution										after	Remarks
			Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	
			/	/	/	/	/	/	/	/	/	/	/	/	Reason for unsatisfactory performance (Site diary No.) Corrective order by authority (Date) Excellent point to be specified
1	Execution system in general	1-1	Works Execution Programme (including its revised version if any) is submitted before the date specified in contract document	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		1-2	Works Execution Programme properly reflects the given specifications and site conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		1-3	Execution procedures are in accordance with Works Execution Programme	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Equipment holding	2-1	All equipment used are properly mobilized in accordance with Works Execution Programme	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		2-2	All equipment used is well maintained during the execution of works	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Contractor's in-house staff	3-1	Qualified technical staff of contractor are properly assigned as specified in Works Execution Programme	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		3-2	Contractor's in-house key staff understand work process and schedule properly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		3-3	Contractor's in-house staff give technical guidance and direction to workers and operators properly and timely	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		3-4	Communications with authority in writing is properly and timely	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Personnel employment	4-1	Workers and operators are deployed in accordance with Works Execution Programme	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		4-2	Wage payment is properly made on time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Site base facilities	5-1	Office and stockyard are prepared in accordance with Works Execution Programme	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		5-2	Site is well maintained during the work execution and cleared on completion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		5-3	Material stored on site is properly managed during the work execution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	Quality and quantity management	6-1	Material testing, structural examination, and measurements are properly and routinely conducted based on specifications and Works Execution Programme	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Filling Example : ✓ Check point is satisfactory ■ Check point is unsatisfactory N/A Not applicable

Supervision Check List (2/2)

Project Title:	
Contractor:	

1. This check list is for Resident Engineer to check contractor's work execution process.
2. Fill in date of checking as (day/month), mark as indicated in Filling Example, and state remarks.
3. Put this check list in the Monthly Progress Report.

The Engineer's Representative (Project Engineer)	Signature
Resident Engineer	

Item	Check Point	before	During execution										after	Remarks
		Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	
		/	/	/	/	/	/	/	/	/	/	/		Reason for unsatisfactory performance (Site diary No.) Corrective order by authority (Date) Excellent point to be specified
6	Quality and quantity management	6-2	Results of material testing, structural examination and measurements are within the specifications.											
		6-3	Results of material testing, structural examination, and measurements are properly compiled as reports for confirmation											
7	Work scheduling	7-1	Understanding of critical path and its reflection on scheduling are proper											
		7-2	Actual proceedings are periodically compared to the planned schedule described in Works Execution Programme											
		7-3	Changes caused by site conditions are properly handled to keep Works on schedule											
		7-4	All works are completed within the contract term or within the extended term as allowed											
8	Work safety management	8-1	No accident occurs to workers, operators, or third-parties.											
		8-2	Safety of workers and operators is considered											
		8-3	Accident prevention efforts for third-parties are proper											
		8-4	Traffic and site safety devices are properly installed and managed											
		8-5	Temporary facilities (e.g. scaffolding) are constantly checked											
9	Environmental and social management	9-1	Environmental and social mitigation efforts (e.g. against noise, vibration, emission, and dust ) are conducted											
		9-2	Waste material from site is properly disposed											
		9-3	Damage to existing roads, works and services is avoided or are repaired when it occurs											
		9-4	Transportation by vehicles is properly done with no overloading, and neither material falling, leakage, nor spillage.											

Filling Example : ✓ Check point is satisfactory ■ Check point is unsatisfactory N/A Not applicable

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

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**SECTION 01 : PRELIMINARY AND GENERAL ITEMS**

Scope:

This section 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.

**01-40-005    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 section 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.

**SECTION 04 : SITE CLEARANCE****Scope**

This section 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

<i>Road Category</i>	<i>Running Surface</i>	<i>Stripping and Grubbing</i>	<i>Trees, Stumps, Boulders</i>	<i>Bush Clearing</i>
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- 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.

**Work Method**

The Contractor shall use **Labour** methods for this item

**Quality Control**

The Engineer shall check the cleared widths at 50 metre intervals

Measurement Unit: m<sup>2</sup>

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- 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.

Work Method

The Contractor shall use **Labour** methods for this item

Quality Control

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

Measurement Unit: m<sup>2</sup>

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.



**SECTION 07: EXCAVATION AND FILLING FOR STRUCTURES***Scope*

This section covers all Works in connection with the excavation for concrete pipe culverts; inlet and outlet structures; drifts and drainage protection Works;

**07-50- 002 Excavation for Drainage Structures**

The Contractor shall excavate trenches for culverts; foundations for head walls, wing walls; inlet and outlet aprons and other drainage structures to the dimensions and levels shown on the Drawings or as directed by the Engineer. The excavations shall be kept free of water and shall be compacted with hand rammers of not less than 5kg.

The Engineer shall approve all excavations before the Contractor shall be permitted to proceed with the construction.

The Contractor shall take all necessary precautions to safeguard the stability and safety of the excavations.

*Work Method*

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

*Quality Control*

- The dimensions of the excavations shall have a tolerance of + / - 50mm
- The invert levels shall have a tolerance of + / - 50mm
- The trench bottom gradients shall have a tolerance of + / - 20mm over the length of the trench

Measurement Unit                      m<sup>3</sup>

The measurement shall be volume of material excavated measured net according to the Drawings.

*Payment*

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

**SECTION 08: CULVERT AND DRAINAGE WORKS****Scope**

This section 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 (Manual)****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 catchwater drains shall be cleaned before the onset of the rains or as directed by the Engineer.

**Work Method**

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

**Quality Control**

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

Measurement Unit: m

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

**Payment**

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

**ii. Fully silted**

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

All deposited material, debris, and vegetation shall be removed and the drain shaped to the

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

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

#### *Work Method*

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

#### *Quality Control*

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

Measurement Unit: 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 labour, tools, and any incidental costs required to carry 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.

#### Work Method

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

#### Quality Control

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

Measurement Unit: **m**

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

#### Payment

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

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

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

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

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

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

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

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

#### Work Method

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

#### Quality Control

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

#### Measurement Unit: 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.

#### 08-60-016/035

#### Concrete Pipe Culverts

08-60-016	300	mm	haunched	(Type II)
08-60-017	300	mm	unhaunched	(Type I)
08-60-018	450	mm	haunched	(Type II)
08-60-019	450	mm	unhaunched	(Type I)
08-60-020	600	mm	haunched	(Type II)
08-60-021	600	mm	unhaunched	(Type I)
08-60-022	900	mm	haunched	(Type II)
08-60-023	900	mm	unhaunched	(Type I)
08-60-024	1200	mm	haunched	(Type II)
08-60-025	1200	mm	unhaunched	(Type I)
08-60-026	300	mm	semi-surround	(Type III)
08-60-027	300	mm	surround	(Type IV)
08-60-028	450	mm	semi-surround	(Type III)
08-60-029	450	mm	surround	(Type IV)
08-60-030	600	mm	semi-surround	(Type III)
08-60-031	600	mm	surround	(Type IV)
08-60-032	900	mm	semi-surround	(Type III)
08-60-033	900	mm	surround	(Type IV)
08-60-034	1200	mm	semi-surround	(Type III)
08-60-035	1200	mm	surround	(Type IV)

The Contractor shall supply, lay and joint 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. 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 haunched or surrounded, according to the Type specified, 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 in-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.

#### Work Method

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

#### 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.

**SECTION 10: GRADING AND GRAVELLING****Scope:**

Grading covers the work of the reinstating of 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. Graveling consists of the excavation, loading, hauling, dumping and spreading 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

Table 10.1: Requirement for Gravel Wearing Course

GRADING REQUIREMENTS	
Sieve (mm)	% by Weight 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 of maximum dimension 80mm may be permitted

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

BEARING STRENGTH		
Traffic VPD	CBR	DCP Equivale mm/Blow
>15	20	11
<15	15	14
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 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 and at no extra cost to the Employer. The Contractor is deemed to have included in his rates for the provision of the gravel material.

### **10-50-002 Carriageway Grading – Heavy Grading**

The Contractor shall scarify the existing carriageway surface, cutting high spots and moving materials to fill potholes, corrugations and wheel ruts and reshape the surface to the specified camber, using a Motor grader unless otherwise directed by the Engineer. All loose rocks, roots and grasses shall be removed and disposed of well clear of the drains.

Pegs 300 to 400mm 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 until the specified camber is achieved. Suitable material from the side drains may be used as additional material. Any further material needed to achieve the correct camber shall be from an approved source. Compaction shall be carried out using appropriate equipment approved by the Engineer, from the carriageway edges to the centerline in overlapping passes.

No grading shall be carried out in dry conditions. Where additional moisture is required to achieve compaction it shall be added in an even manner without transverse or longitudinal flow.

#### **Work Method**

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

#### **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 +/- 1%

Measurement Unit: m<sup>2</sup>

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 : Carriageway Grading - Light Grading**

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.

#### **Work Method**

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

#### **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 +/- 1%

Measurement Unit: m<sup>2</sup>

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.

#### **Excavation, Free haul, Spreading and Compaction of Gravel**

- 10-80-007 - Labour**
- 10-80-008 - Equipment**

**Excavation of Gravel - Labour**  
**- Equipment**

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

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.

#### Work Method

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

#### 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

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.

#### Work Method:

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

#### 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

Measurement Unit: m<sup>3</sup>

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.

**SECTION 25: HIV/AIDS AWARENESS AND PREVENTION CAMPAIGN****Scope:**

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

**25-50-002 AIDS Prevention Campaign**

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

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

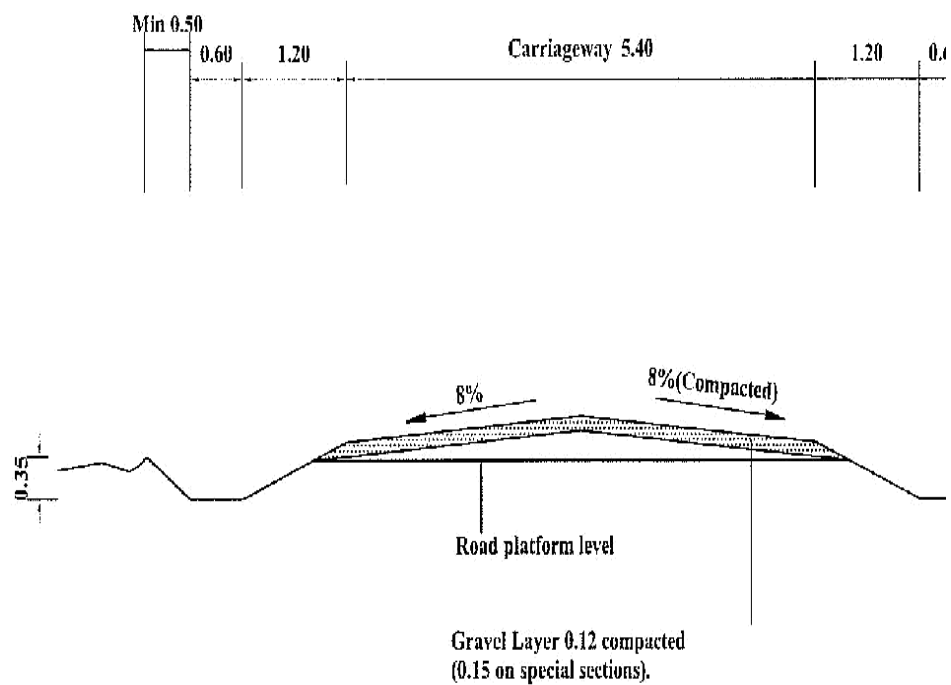
Measurement Unit: month

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

**Payment**

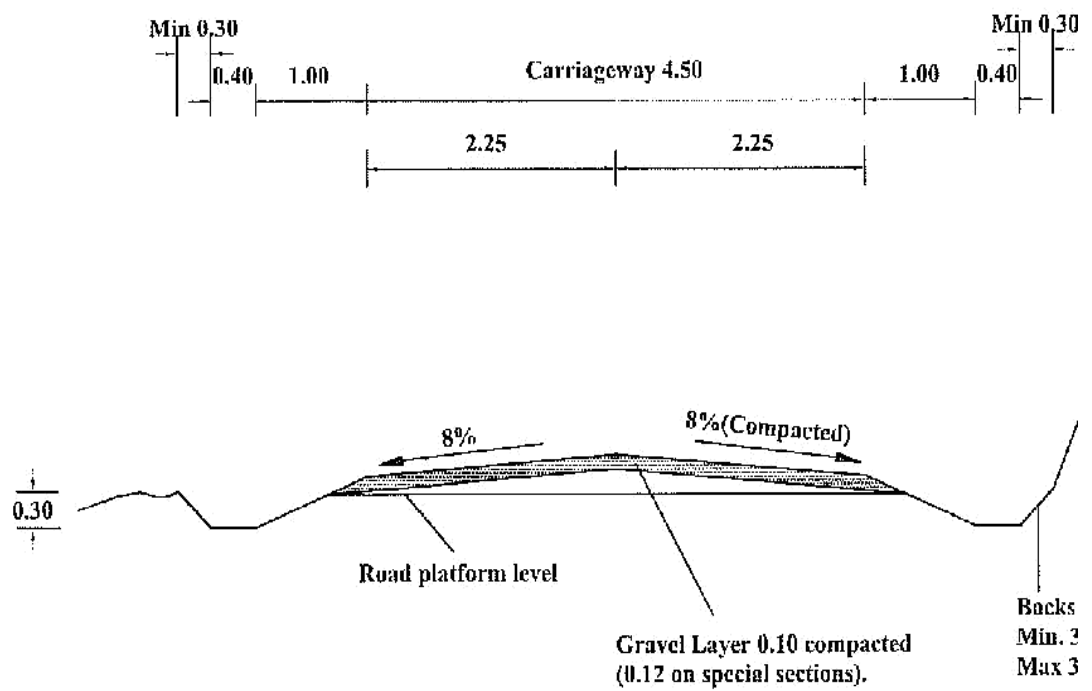
The rate shall include full compensation for equipment, labour and material, including the distribution of condoms, required for the provision of the item.

## **DRAWINGS**

**Notes:**

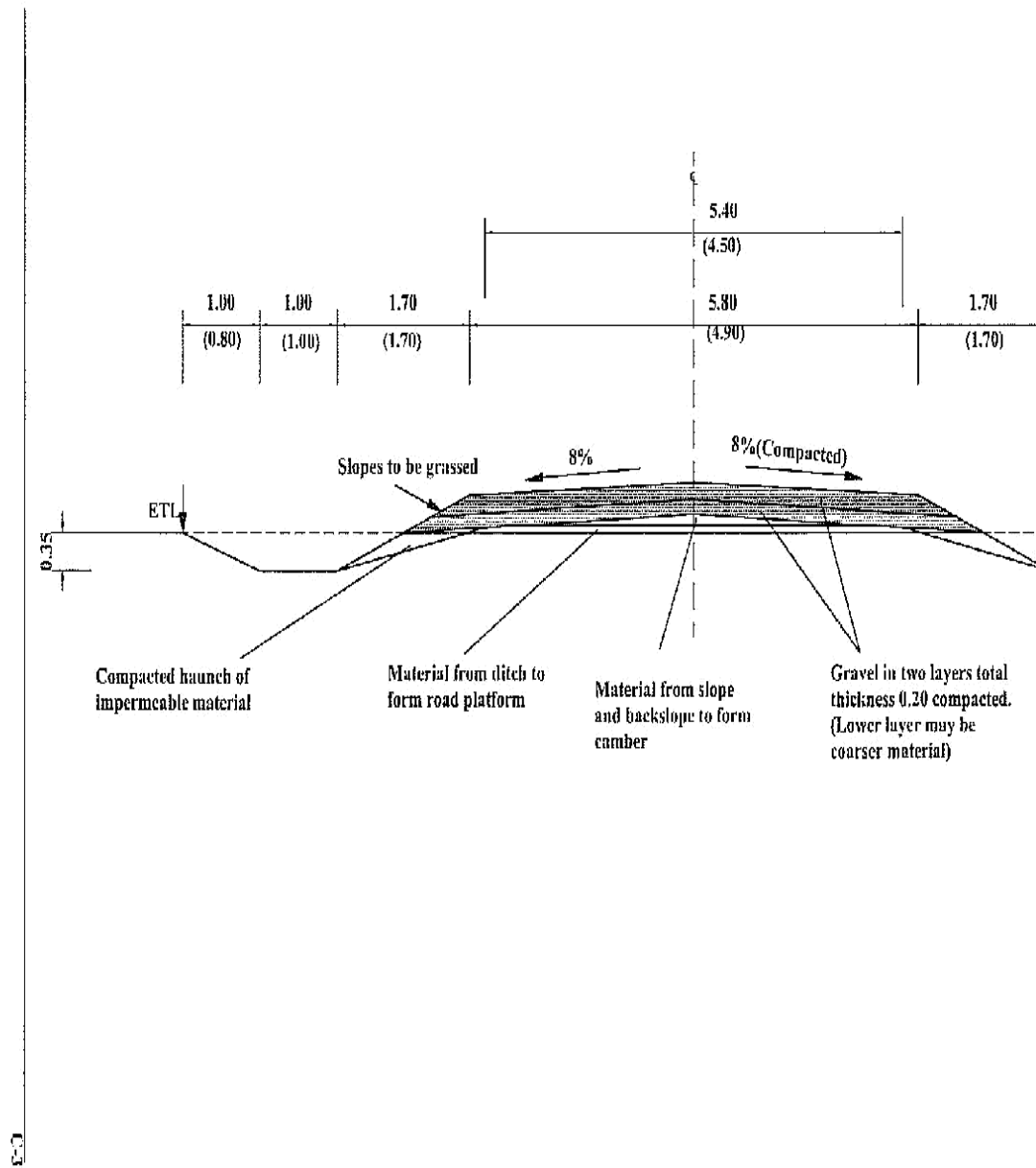
1. All dimensions in metres
2. Traffic levels of > 200vpd may justify a carriageway width of 6.0m
3. Gravel thickness may be increased as directed by the Engineer

L-3

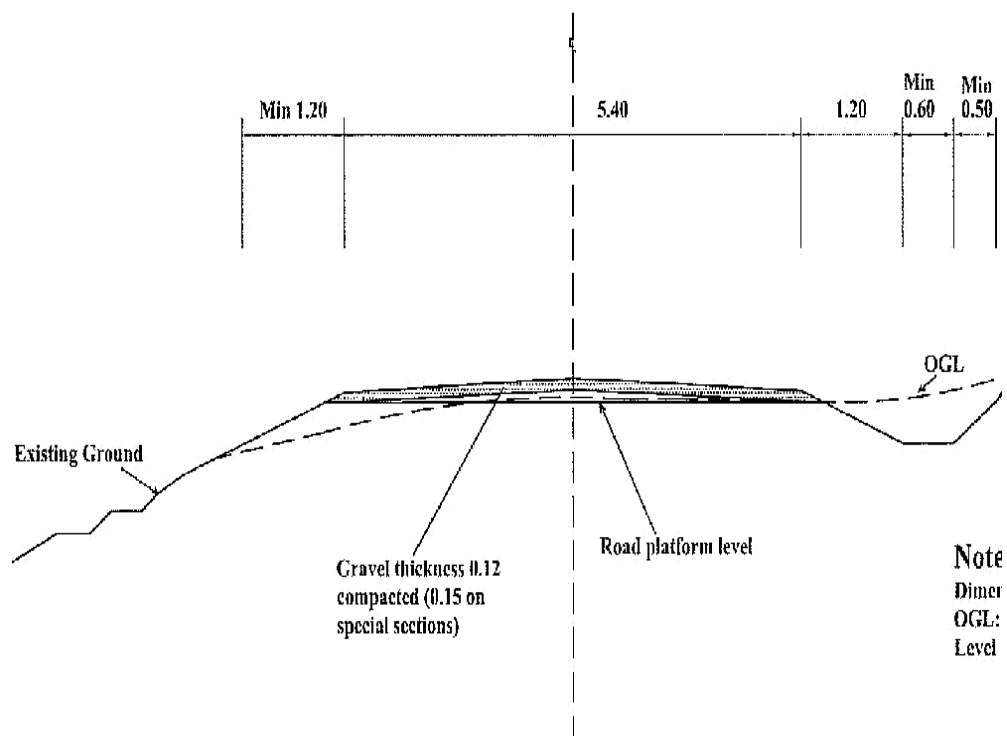


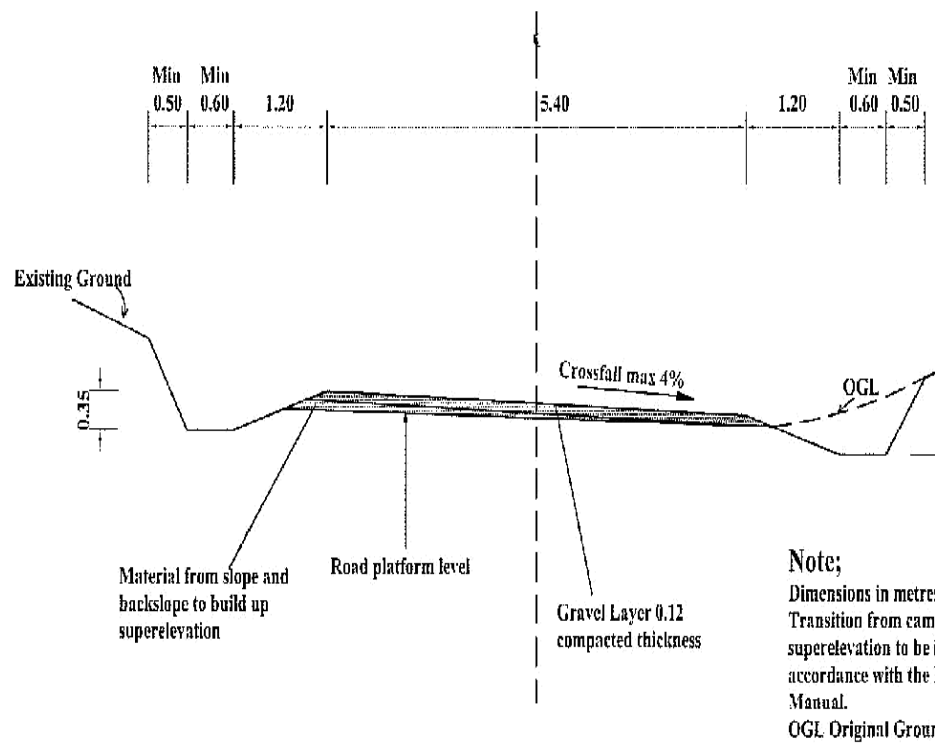
**Notes:**

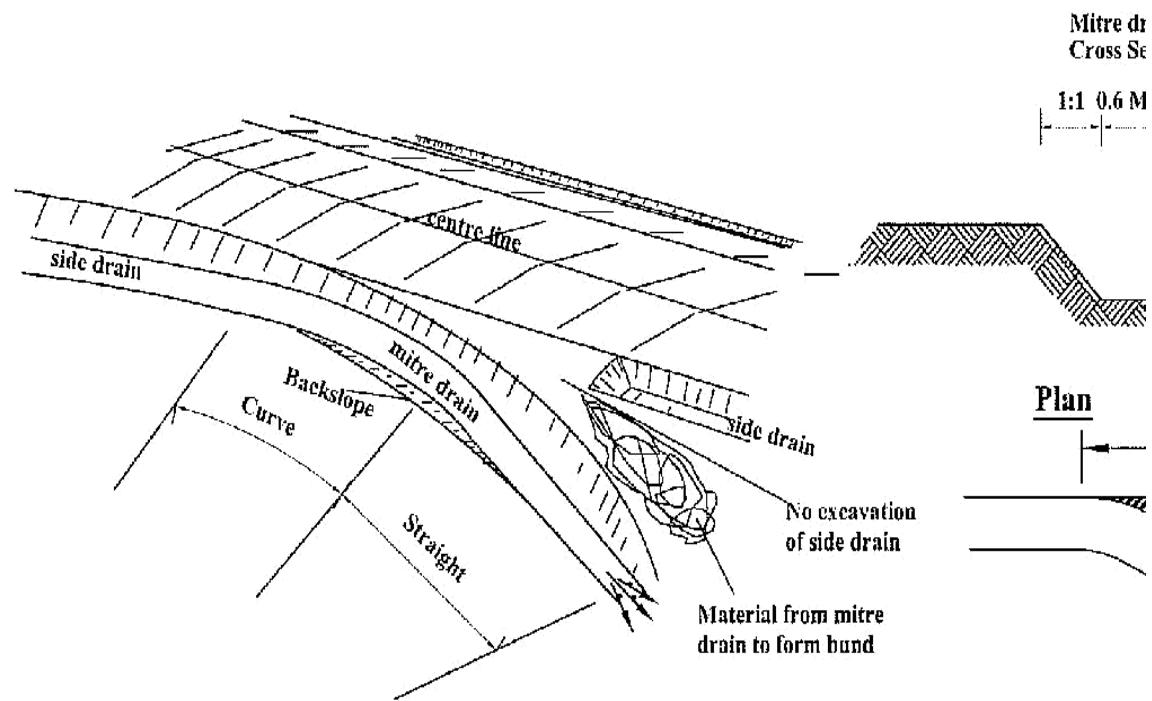
1. All dimensions in metres
2. Gravel thickness may be increased as directed by the Engineer







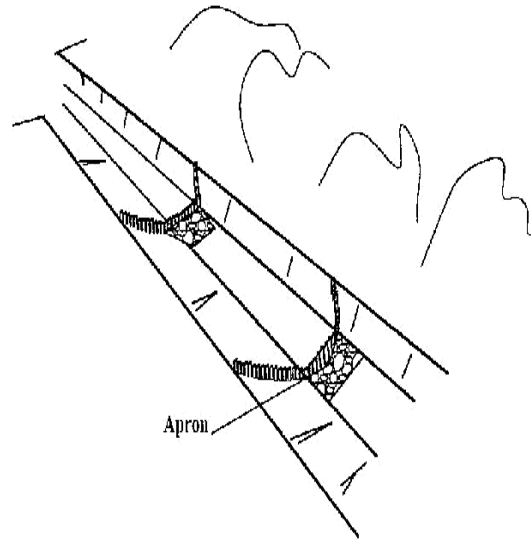




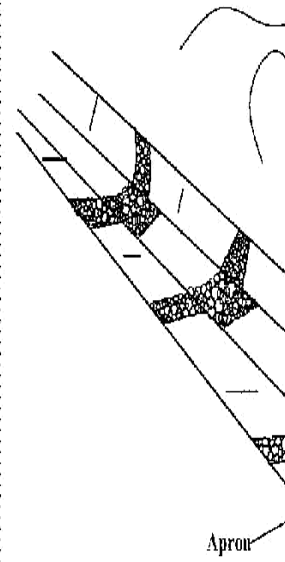
### Notes

Location, direction and length of the  
by the Engineer

Scour checks made of wooden stakes

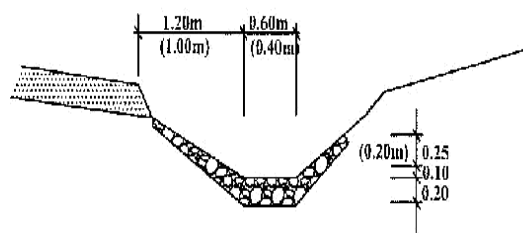


Scour checks made of stones

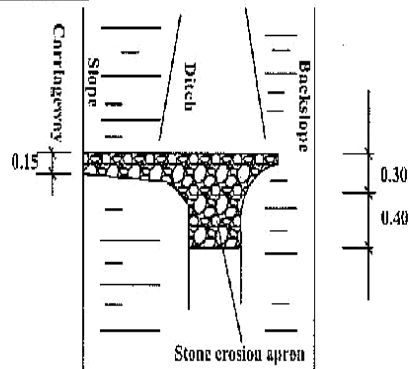


### Scour checks made of stones

#### Cross section



#### Ground plan

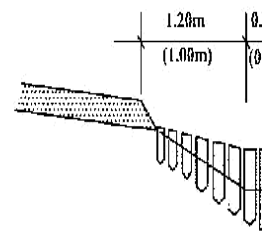


#### NOTE

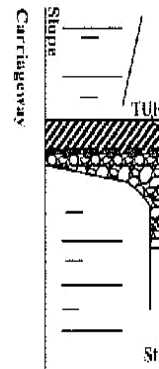
1. Dimensions in metres

### Scour checks made of stones

#### Cross section



#### Ground plan

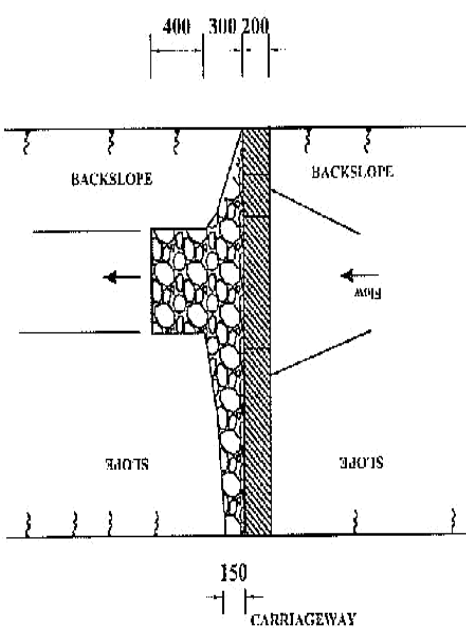


STONE WEIGHT: MIN 10KG  
STAKE DIAMETER: MIN. 0.10



# SECTION OF MASONRY SCOUR CHECK

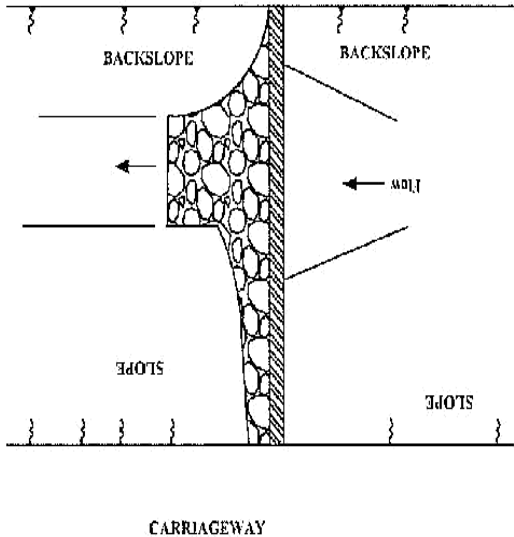
Note  
[Dimensions in mm]



## PLAN OF DRAIN WITH SCOUR CHECK

Cross-Section	Size in mm			Excess (m³)	Length of (m³)	Average stone pitching (m³)
	Length	Width	Depth			
A	2400	300	550	0.22	0.28	0.18
B	2000	200	500	0.18	0.2	0.14

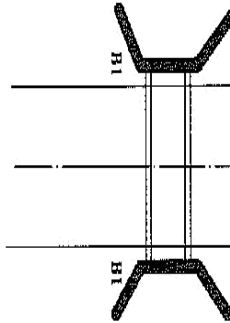
**SECTION OF CONCRETE SCOUR CHECK**



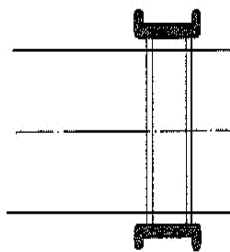
**NOTE**  
1. Dimensions in mm

**PLAN OF DRAIN WITH SCOUR CHECK**

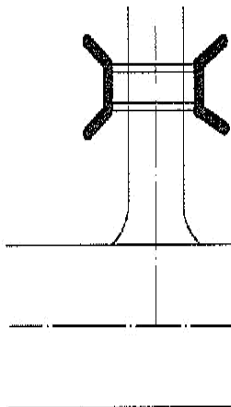
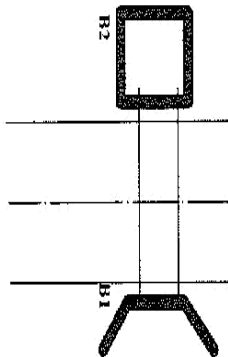
Cross- Section	Sizes in mm			Excav (m <sup>3</sup> )	Concrete (m <sup>3</sup> )	Apron stone pitching (m <sup>3</sup> )
	Length	Width	Depth			
A	2400	100	550	0.13	0.15	0.18
B	2000	100	500	0.10	0.09	0.14



TYPE 2(ENTRY ONLY)



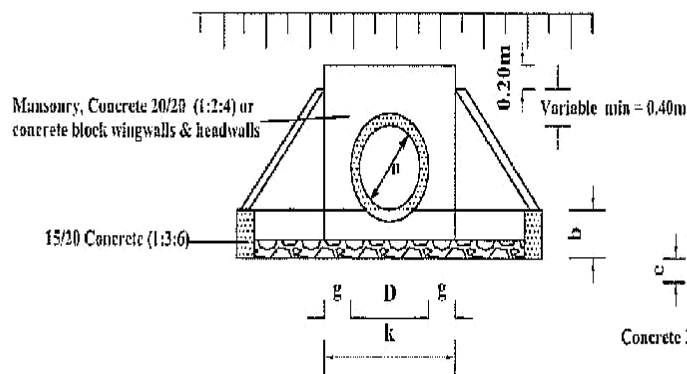
TYPE 4(ENTRY AND EXIT ON ACCESS)



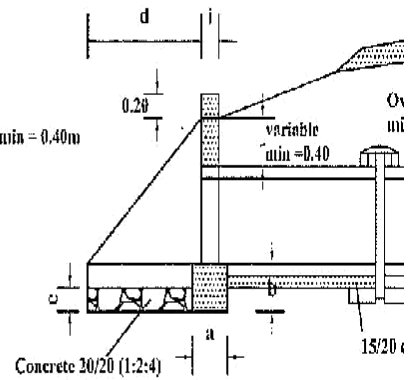
NOTE  
1. The code numbers specify the shape and function and the code letter denotes the material:  
A =Concrete block  
B =Stone masonry  
C =Concrete



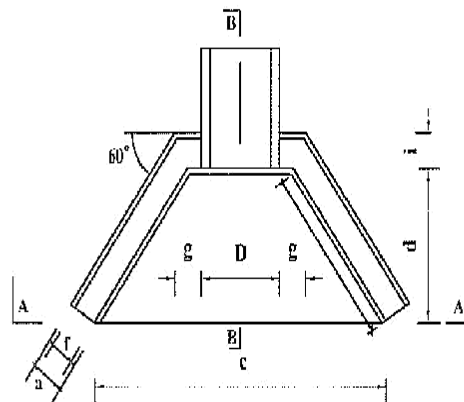
**SECTION A-A**



**SECTION B-B**



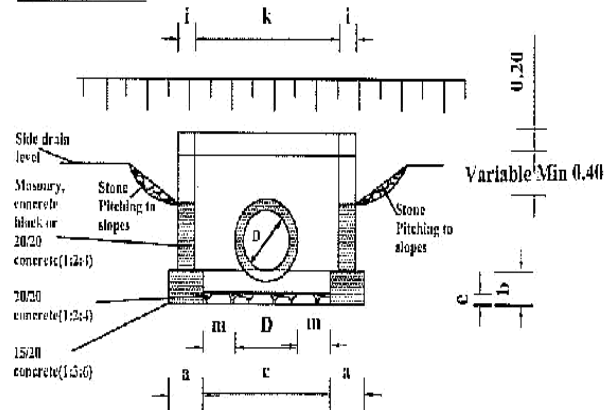
**PLAN**



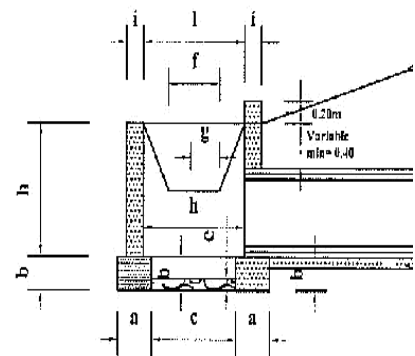
CULVERT TYPES	
X-SECTION WIDTH m	No. of pipes
4.50	6
5.50	7
6.50	8

PIPE DIAMETER IN M		TYPE A and C CONCRETE BLA	
		450	600
DIMENSION	UNIT		
a FOUNDATION	m	0.30	0.30
b FOUNDATION	m	0.30	0.30
c FOUNDATION	m	2.20	2.35
d APRON	m	1.00	1.00
e APRON	m	0.20	0.20
f WALL	m	0.20	0.20
g WALL	m	0.30	0.30
h WALL	m	1.15	1.15
i WALL	m	0.20	0.20
k APRON	m	1.05	1.20
MATERIAL REQUIREMENT			
FOUNDATION			
(concrete)	m <sup>3</sup>	0.30	0.32
HEAD/WINGWALLS			
(Concrete/Masonry)	m <sup>3</sup>	0.42	0.49
APRON			
(concrete)	m <sup>3</sup>	0.33	0.36

SECTION A-A



SECTION B-B



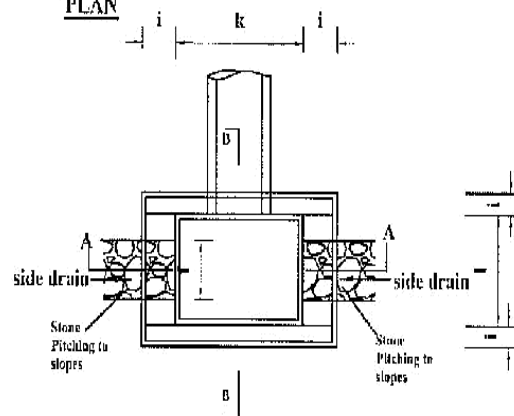
DIMENSIONS AND MATERIAL REQUIREMENTS

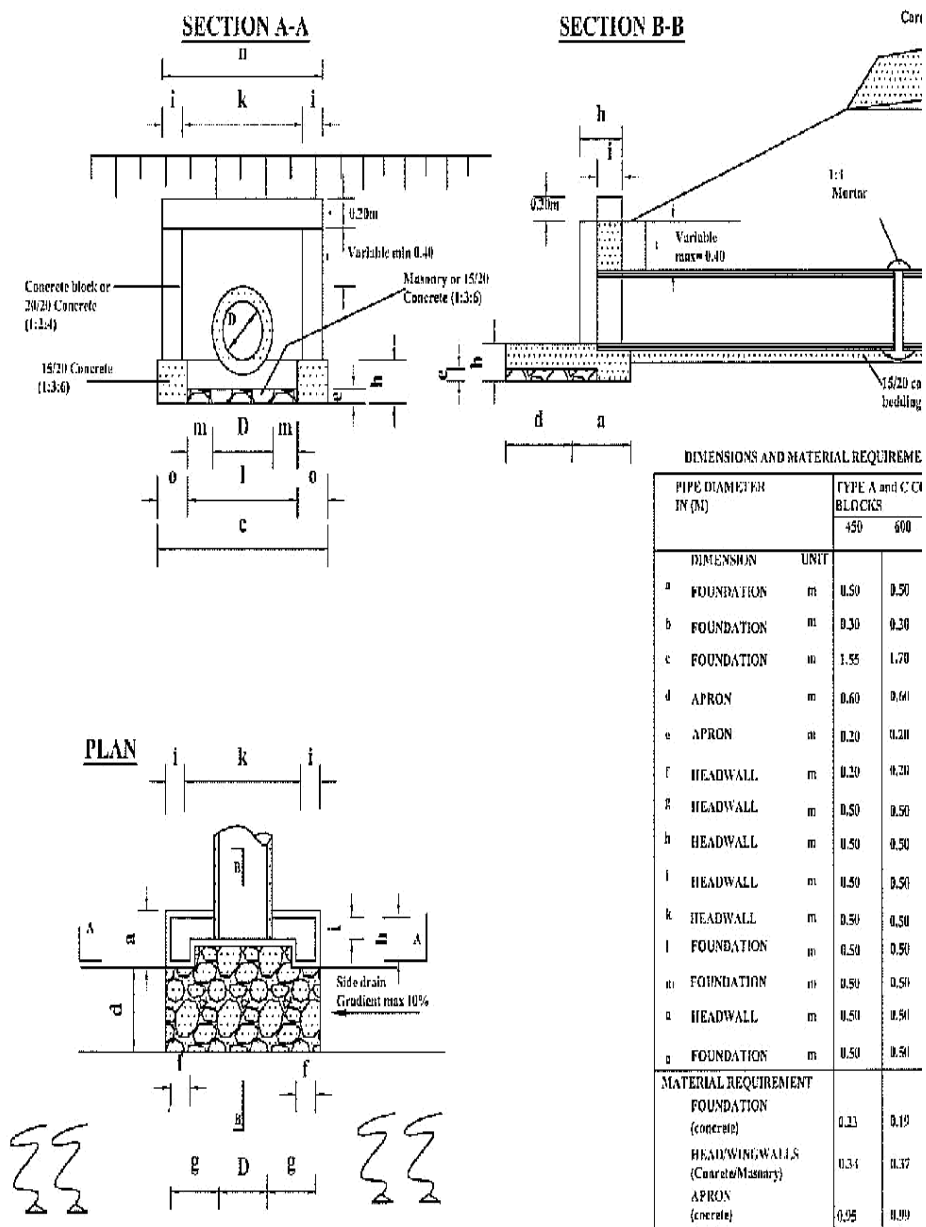
PIPE DIAMETER IN (M)	TYPE A CONCRETE BLOCKS				TY M <sup>3</sup>
		450	600	900	
DIMENSION	UNIT				
a FOUNDATION	m	0.30	0.30	0.30	0.4
b FOUNDATION	m	0.30	0.30	0.30	0.3
c FOUNDATION	m	1.10	1.10	1.40	1.2
d APRON	m	0.90	0.90	0.90	1.0
e APRON	m	0.20	0.20	0.20	0.2
f DROP INLET	m	0.60	0.60	0.60	0.6
g DROP INLET	m	0.30	0.40	0.60	0.3
h DROP INLET	m	0.60	0.80	1.20	0.6
i DROP INLET	m	0.20	0.20	0.20	0.4
k DROP INLET	m	1.20	1.20	1.50	1.2
l DROP INLET	m	1.00	1.00	1.00	1.0
m DROP INLET	m	0.38	0.30	0.30	0.3

MATERIAL REQUIREMENT

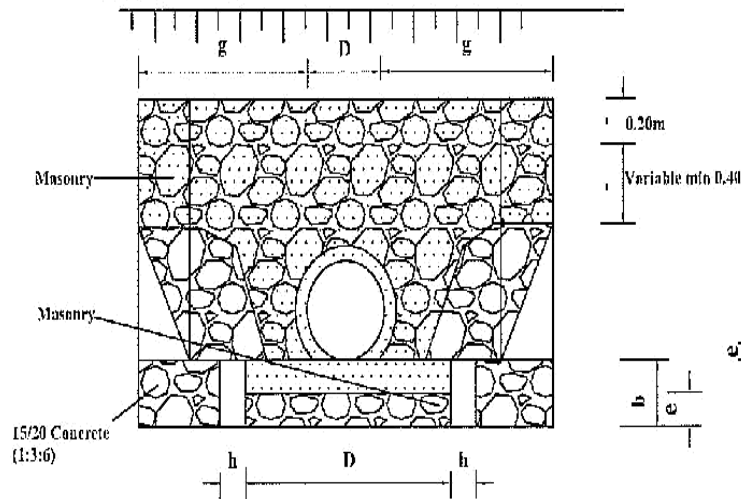
FOUNDATION (concrete)	m <sup>3</sup>	0.47	0.47	0.52	0.7
HEAD/WINGWALLS (Concrete/Masonry)	m <sup>3</sup>	0.56	0.72	1.15	1.2
APRON (concrete)	m <sup>3</sup>	0.24	0.24	0.30	0.2

PLAN

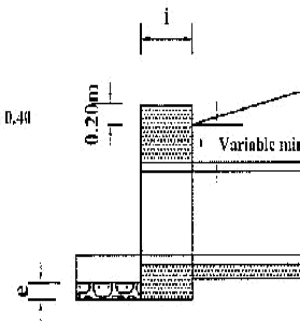




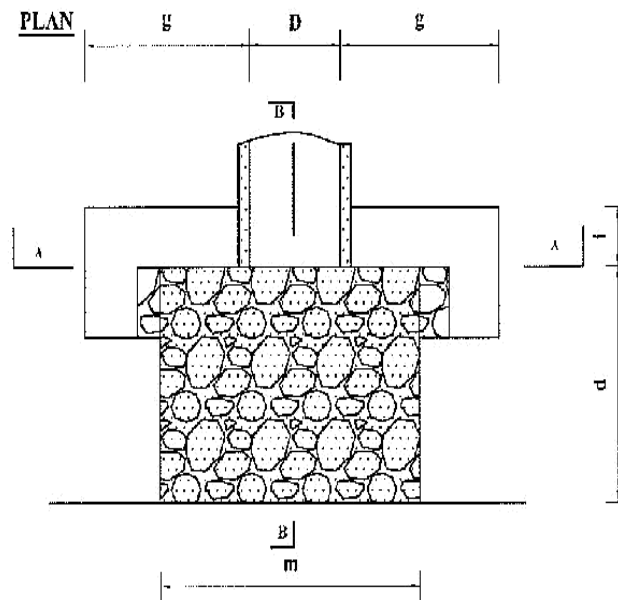
**SECTION A-A**



**SECTION B-B**

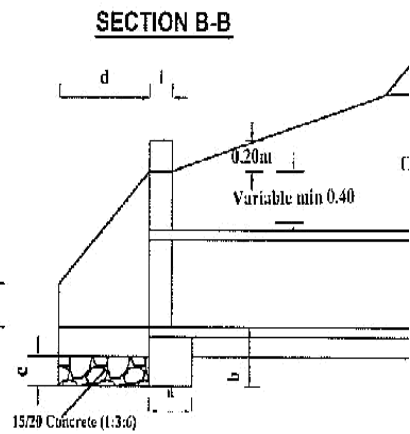
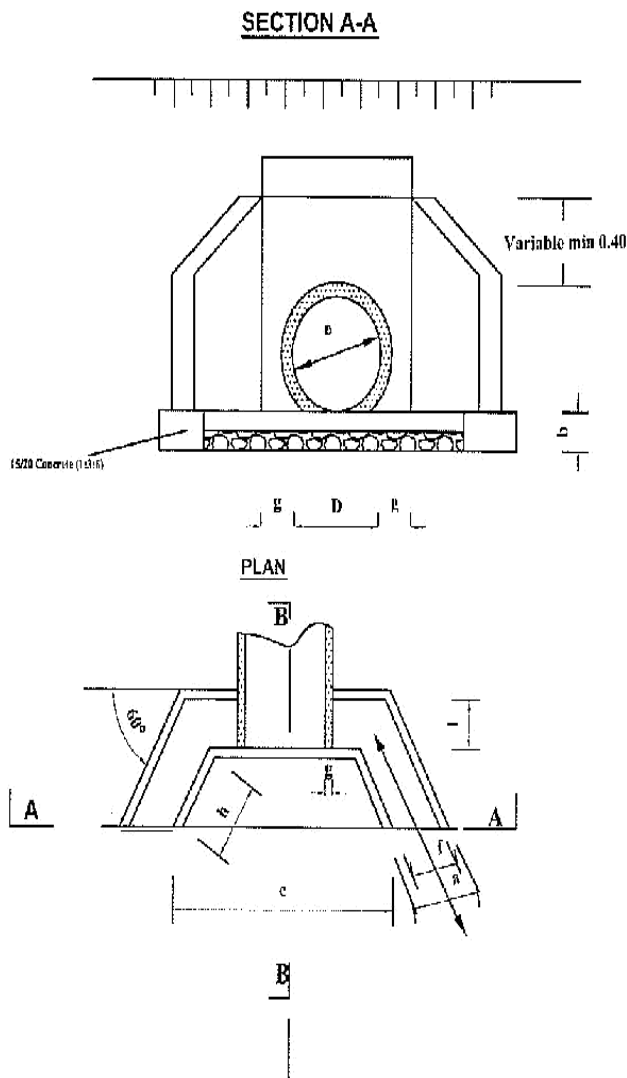


**PLAN**



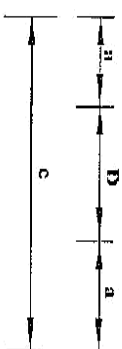
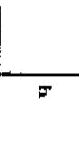
**DIMENSIONS AND**

PIPE DIAMETER (M)	
DIMENSION	
a	FOUNDATION
b	FOUNDATION
c	FOUNDATION
d	APRON
e	APRON
f	HEADWALL
g	HEADWALL
h	HEADWALL
i	HEADWALL
m	FOUNDATION
MATERIAL REQ'D	
FOUNDATION	(concrete)
HEAD/WING	(Concrete/Masonry)
APRON	(concrete)



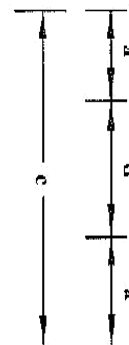
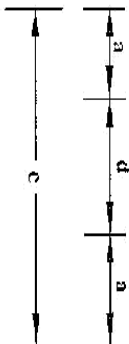
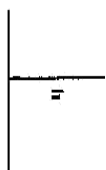
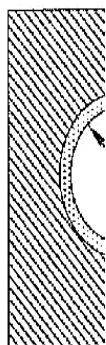
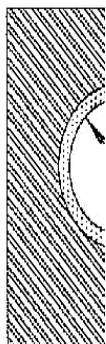
**DIMENSIONS AND MATERIAL REQUIREMENTS**

PIPE DIAMETER IN (M)	TYPE A (CONCRETE BLOCKS)		
		450	600
DIMENSION	UNIT		
a FOUNDATION	m	0.20	0.30
b FOUNDATION	m	0.30	0.30
c APRON	m	1.34	1.49
d APRON	m	0.80	0.60
e APRON	m	0.20	0.20
f WINGWALLS	m	0.20	0.20
g WINGWALLS	m	0.10	0.10
h HEADWALLS	m	0.69	0.69
i HEADWALLS	m	0.20	0.20
k HEADWALLS	m	0.65	0.80
l HEADWALLS	m	0.40	0.40
<b>MATERIAL REQUIREMENT</b>			
FOUNDATION (concrete (1:3:6))		0.18	0.20
HEAD/WINGWALLS (Concrete/Masonry)		0.28	0.32
APRON (concrete)		0.12	0.14



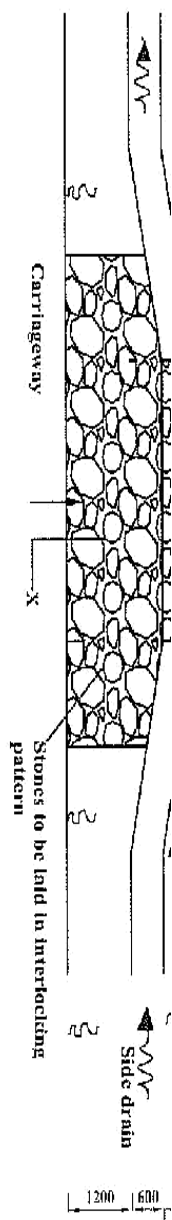
Diameter (D)	450 (mm)	600 (mm)	900 (mm)
a	0.15	0.20	0.20
b	0.10	0.15	0.15
c	0.86	1.12	1.48
d	0.56	0.72	1.08
e	0.14	0.18	0.27
f (mm)	0.34	0.45	0.68
g	-	-	-
h	0.24	0.33	0.42
i	-	-	-
Concrete Class 15/20	Volume in (m <sup>3</sup> /m)	0.24	0.24
Application	-Fair subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only		
Remarks	Material for back/overfill shall be approved by the Engineer		

450 (mm)	600 (mm)	900 (mm)
0.15	0.20	0.20
0.10	0.15	0.15
0.86	1.12	1.48
0.56	0.72	1.08
0.28	0.36	0.54
0.34	0.45	0.68
-	-	-
0.38	0.51	0.69
Volume in (m <sup>3</sup> /m)		
0.20	0.37	0.56
-Fair to poor subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only		
Material for back/overfill shall be approved by the Engineer		

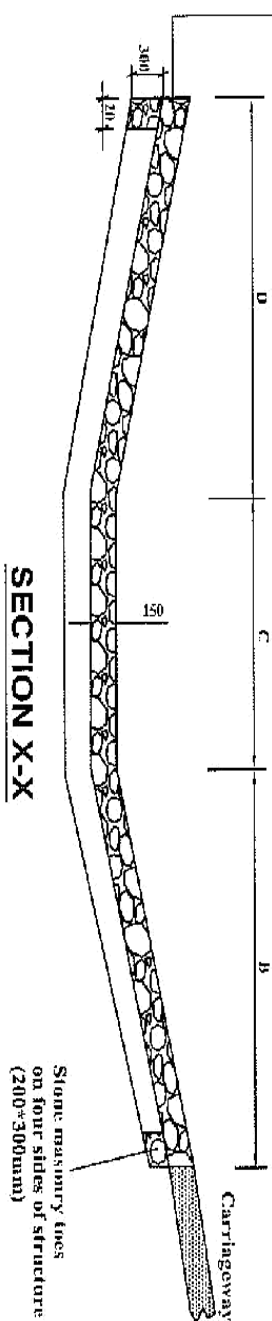


Diameter (D)	450 (mm)	600 (mm)	900 (mm)
a	0.15	0.20	0.20
b	0.10	0.15	0.15
c	0.86	1.12	1.48
d	0.56	0.72	1.08
e	0.42	0.54	0.81
f(min)	0.23	0.3	0.45
g	-	-	-
h	0.52	0.69	0.96
i	-	-	-
Concrete Class 15/20	0.26	0.47	0.71
Application	-Fair subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only		
Remarks	Material for back/overfill shall be approved by the Engineer		

450 (mm)	600 (mm)	900 (mm)
0.15	0.20	0.20
0.10	0.15	0.15
0.86	1.12	1.48
0.56	0.72	1.08
0.46	0.52	0.78
0.15	0.15	0.15
0.15	0.15	0.15
0.81	1.02	1.38
0.28	0.35	0.45
Volume in (m <sup>3</sup> /m)		
0.37	0.61	0.92
-Fair to poor subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only		
Material for back/overfill shall be approved by the Engineer		



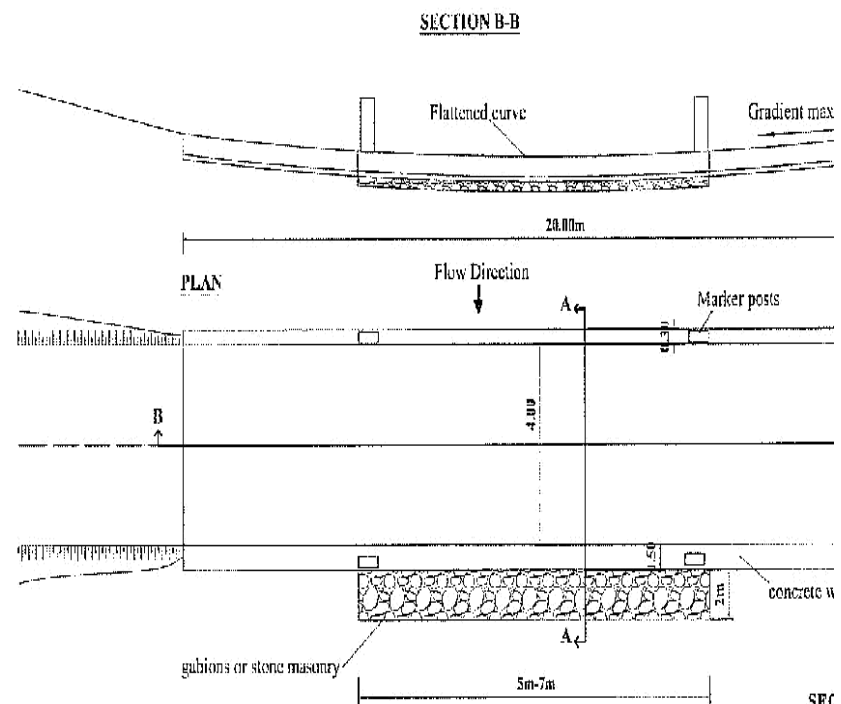
150mm Grouted Stone Pitching  
(Cement mortar 1:4)



SECTION X-X

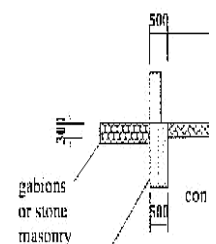
QUANTITIES TABLE						
Cross section	DIMENSIONS					Excavation(m <sup>3</sup> )
	A	B	C	D	E	
A	4000	1800	600	1800	4200	7.5
	6000	1800	600	1800	4200	10.00
B	4000	1400	400	1800	3600	7.00
	6000	1400	400	1800	3600	9.00
						1.30
						1.60
						1.20
						1.50
						21.75
						30.15
						18.30
						25.50





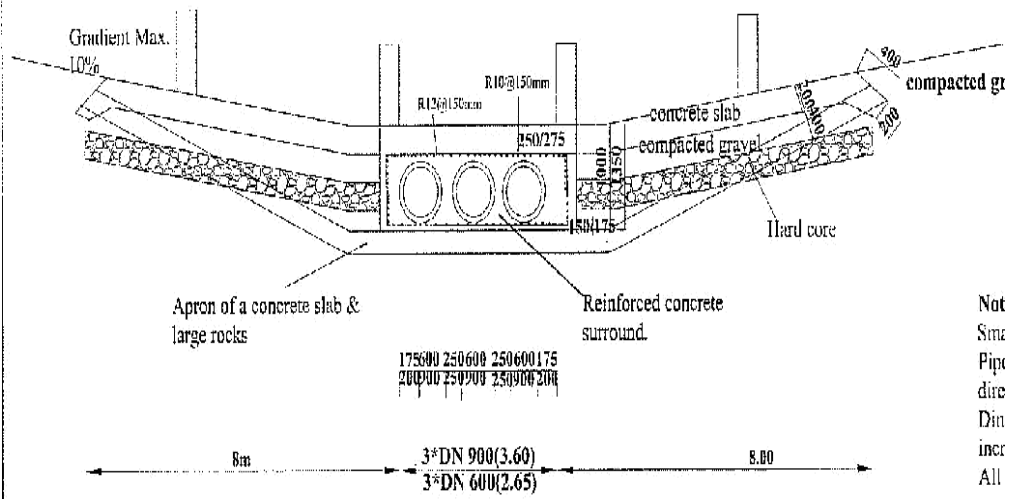
Material : All concrete Class 20/20 (1:2:4)

- 1 Concrete wall : 16m<sup>3</sup>
- 2 Concrete slab: 24m<sup>3</sup> or stone masonry
- 3 Concrete toe : 8m<sup>3</sup> or stone masonry
- 4 Gabions / mattress rock fill: 4.3m<sup>3</sup> or stone masonry
- 5 Gabions / mattress: 36m<sup>3</sup>
- 6 Marker posts - precast concrete: 4 no.
- 7 Excavation (slab + toes + gabions) 54.2m<sup>3</sup>

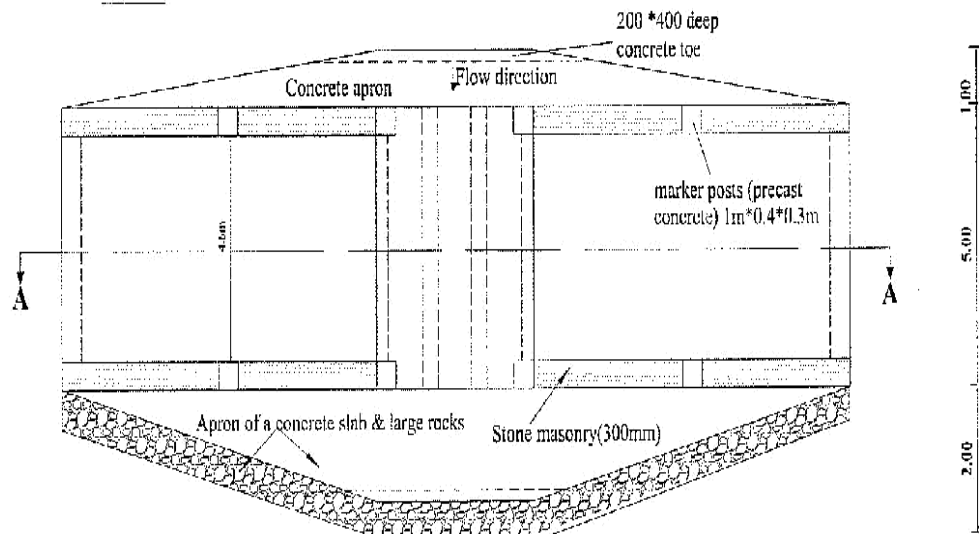


concrete wall > 1000mm

## SECTION A-A

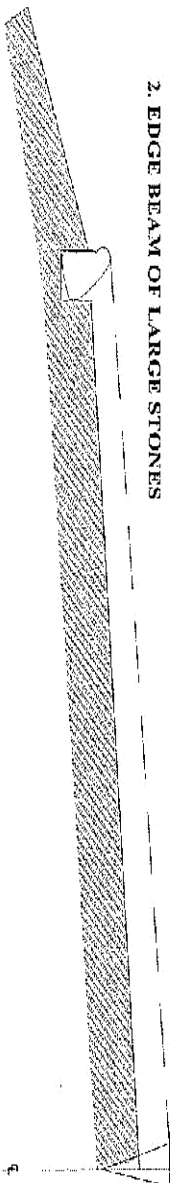


## PLAN

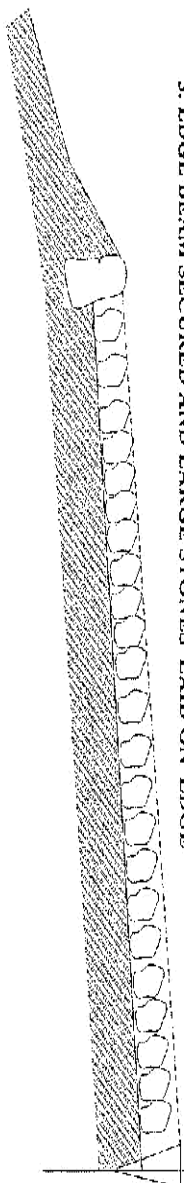




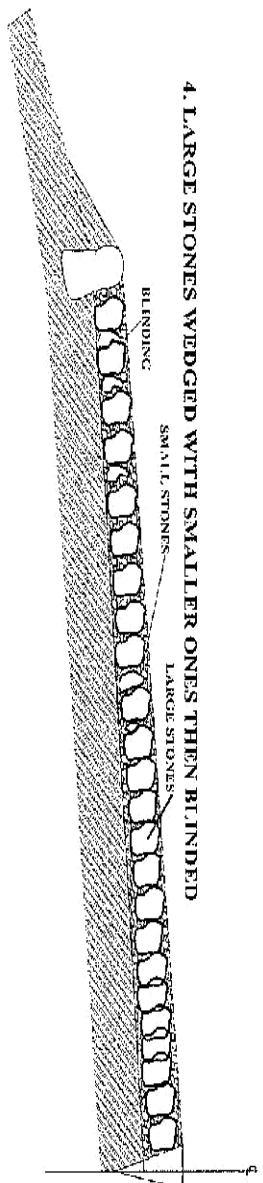
2. EDGE BEAM OF LARGE STONES



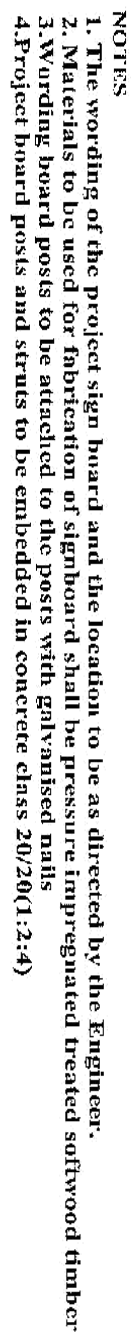
3. EDGE BEAM SECURED AND LARGE STONES LAID ON EDGE



4. LARGE STONES WEDGED WITH SMALLER ONES THEN BLINDED







## PREAMBLE TO BILLS OF QUANTITIES

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

Project Description: The project is in **Kaloleni Constituency, Nguluweni - Kwademu (5+000 – 9+500) Road section** and the scope of works to be executed under the contract comprises mainly of but not limited to the following:

- Publicity Signboards
- Fill in soft material
- Bush clearing
- Heavy Grading as instructed by the Engineer
- Provide gravel wearing course-excavation, free, haul, spread, water and compact gravel to specifications
- Soil erosion mitigation measures

## **BILLS OF QUANTITIES**

Bill No.1	General: Office administration and overheads/Preliminaries				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
01-50-002	CRC Training	KS	1	125,000.00	125,000.00	LB-MB
01-50-009	CRC committee meetings	KS	1	62,500.00	62,500.00	LB-MB
01-50-016	Materials Investigation &Testing	KS	1	30,000.00	30,000.00	LB-MB
01-60-005	Publicity Sign Boards	KS	1			LB-MB
01-80-028	Allow a prime cost sum for off road Enviromental Mitigation	PC SUM	1	50,000.00	50,000.00	LB-MB
01-80-074	E.O for provision of RE_s office for Contractors overheads and profits	%	15	267,500.00	40,125.00	LB-MB
	<b>Total Carried Forward to Summary:</b>					

Bill No.4	SITE CLEARANCE				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
04-50-003	Heavy Bush Clearing	M <sup>2</sup>	20000			LB
	<b>Total Carried Forward to Summary:</b>					

Bill No.5	EARTHWORKS				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
05-50-006	Fill in soft material and compact	M <sup>3</sup>	1050			LB
	<b>Total Carried Forward to Summary:</b>					



Bill No.8	CULVERT AND DRAINAGE WORKS				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
08-50-005	Ditch/Mitre drain /catch water drain excavation	M³	100			LB
08-60-003	Culvert Cleaning- Partially blocked - 600mm	MT	24			LB
08-60-025	Culvert Installation 600 mm with surround	MET ERS	8			LB
08-60-030	Excavate in soft material for culverts	M³	60			LB
08-60-038	Selected backfill material	M³	100			LB
08-70-006	Construction Of scour checks (concrete)	NO	20			LB
	<b>Total Carried Forward to Summary:</b>					

Bill No.10	GRADING AND GRAVELLING WORKS				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
10-50-002	Heavy grading with watering and compaction instructed by the Engineer	M³	40000			MB
10-60-001	Provide gravel wearing course-excavation,free haul, spread, water and compact gravel to specifications	M³	1314			MB
	<b>Total Carried Forward to Summary:</b>					

Bill of Quantities		
	Summary	Project:
Item No.	Description	Amount (KShs)
1	General: Office administration and overheads/Preliminaries	
4	SITE CLEARANCE	
5	EARTHWORKS	
8	CULVERT AND DRAINAGE WORKS	
10	GRADING AND GRAVELLING WORKS	
	<b>Sub Total</b>	
	VAT @ 16 %	
	<b>Total</b>	
	Carried to page on the form of Tender	