



# **KENYA RURAL ROADS AUTHORITY**

**(GARISSA REGION)**

**IJARA CONSTITUENCY:**

**22% CONSTITUENCY ROADS FUND (CRF):**

**FINANCIAL YEAR: 2020-2021**

**ROAD NAME & CODE:  
IMPROVEMENT OF DUBADUBEISA –RUQA (C-256)  
ROAD:**

**CONTRACT No: KeRRA/011/GSA/39/30/2020-2021**

**RESERVED: OPEN**

**JANUARY, 2021**

**DEPUTY DIRECTOR (ROADS)  
KENYA RURAL ROADS AUTHORITY,  
P.O. BOX 1391-70100,  
GARISSA**

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

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## SECTION I: INVITATION FOR TENDERS

**TENDER REFERENCE No. KeRRA/011/GSA/39/30/2020-2021**

**TENDER NAME: MAINTENANCE OF DUBADUBEISA -RUQA (C 256) ROAD  
IN IJARA CONSTITUENCY.**

1.1 The Kenya Rural Roads Authority invites sealed tenders for the improvement **Road Works.**

1.2 Interested eligible candidates may obtain further information and inspect tender documents (and additional copies) at **Deputy Director, Kenya Rural Roads Authority, P O Box 1391-70100, Kismayu Road Garissa or KeRRA** website during normal working hours.

1.3 A complete set of tender documents may be obtained by interested candidates by downloading from the KeRRA website: [www.kerra.go.ke](http://www.kerra.go.ke) or Supplier Portal: [supplier.treasury.go.ke](http://supplier.treasury.go.ke) free of charge.

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 **Garissa Deputy Director's Office** or to be addressed to **Deputy Director, Kenya Rural Roads Authority, P O Box 1391-70100 Garissa**, so as to be received on or before **the date and time indicated 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 **Carissa Deputy Director's Boardroom.**

## SECTION II: INSTRUCTIONS TO TENDERERS

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## INSTRUCTIONS TO TENDERERS.

### 1. General

- 1.1 The Employer as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The successful Tenderer will be expected to complete the Works by the Intended Completion Date specified in the said Appendix.
- 1.2 Tenderers shall include the following information and certified documents with their tenders, unless otherwise stated:
  - (a) Prequalification in the region. (For open tender).
  - (b) Certified Certificate of Incorporation.
  - (c) Registration with National Construction Authority for the applicable class valid at the date of tender submission-NCA 7 and above.
  - (d) Certified VAT Registration Certificate.
  - (e) PIN registration certificate.
  - (f) Valid Tax Compliance Certificate.
  - (g) Proof of financial soundness.
  - (h) For AGPO Tenders the following should be provided with the bid; Certificate for small works and engineering, CR12 for twelve months, ID or National Passport of the Directors.
- 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 price to be charged for the tender document shall not exceed Kshs.1,000.00 for bidders who purchase hardcopy of the document from KeRRA Office, alternatively its free to download from KeRRA Website.**
- 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 **as indicated in the advertisement**

### 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 inquiry of the tendering documents may notify the Employer in writing or by cable, telex or facsimile at the address indicated in the letter of invitation to tender. The Employer will respond to any request for clarification received earlier than seven [7] days prior to the deadline for submission of tenders. Copies of the Employer's response will be forwarded to all persons issued with tendering documents, including a description of the inquiry, but without identifying its source.
- 2.4 Before the deadline for submission of tenders, the Employer may modify the tendering documents by issuing addenda. Any addendum thus issued shall be part of the tendering documents and shall be communicated in writing or by cable, telex or facsimile to all Tenderers. Prospective Tenderers shall acknowledge receipt of each addendum in writing to the Employer.
- 2.5 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend, as necessary, the deadline for submission of tenders in accordance with clause 4.2 here below.

### **3. Preparation of Tenders**

- 3.1 All documents relating to the tender and any correspondence shall be in English Language.
- 3.2 The tender submitted by the Tenderer shall comprise the following: -
- (a) The Tender;
  - (b) Bill of Quantities for lump-sum Contracts
  - (c) 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 authorized to sign on behalf of the Tenderer. All pages of the tender where alterations or additions have been made shall be initialed by the person or persons signing the tender.
- 3.9 Clarification of tenders shall be requested by the tenderer to be received by the procuring entity not later than 7 days prior to the deadline for submission of tenders.
- 3.10 The procuring entity shall reply to any clarifications sought by the tenderer within **7 days** of receiving the request to enable the tenderer to make timely submission of its tender.

#### **4. Submission of Tenders**

- 4.1 The tender duly filled and sealed in an envelope shall; -
  - a) be addressed to the Employer at the address provided in the invitation to tender;
  - b) bear the name and identification number of the Contract as defined in the invitation to tender; and
  - c) provide a warning not to open before the specified time and date for tender opening.
- 4.2 Tenders shall be delivered to the Employer at the address specified above not later than the time and date specified in the invitation to tender.
- 4.3 The tenderer shall not submit any alternative offers unless they are specifically required in the tender documents.

Only one tender may be submitted by each tenderer. Any tenderer who fails to 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 Builders' 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</li> <li>- Proof of registration with the National Construction Authority Category <b>NCA 7 and above</b> for Road Works.</li> </ul> | Must meet requirement   | Refer to standard form section 7 |

|     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                         |                                  |
|-----|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|
| 2.1 | History of Non-Performing Contracts | Non-performance of a contract did not occur within the last <b>three (3)</b> years prior to the deadline for application submission based on all information on fully settled disputes or litigation. A fully settled dispute or litigation is one that has been resolved in accordance with the Dispute Resolution Mechanism under the respective contract, and where all appeal instances available to the applicant have been exhausted. | Must meet requirement by itself or as party to past                                     |                                  |
| 2.2 | Pending Litigation                  | All pending litigation shall in total not represent more than fifty percent (50%)] of the Applicant's net worth and shall be treated as resolved against the Applicant.                                                                                                                                                                                                                                                                     | Must meet requirement by itself or as party to past                                     | Refer to standard form section 7 |
| 3.1 | Financial Performance               | Submission of audited balance sheets for the last three [3] years to demonstrate:<br>(a) the current soundness of the applicant's financial position and<br><br>its prospective long term profitability, and<br>(b) capacity to have a cash flow amount of minimum <b>KShs 1(one) Million</b> equivalent working capital                                                                                                                    | Must meet requirement<br><br><br>(a) Must meet requirement<br>(b) Must meet requirement | Refer to standard form section 7 |

|        |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                                  |
|--------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------|
| 3.2    | Average Annual Construction Turnover | Minimum average annual construction turnover of <b>KShs 1 [one]</b> Million, calculated as total certified payments received for contracts in progress or completed, within the last <b>three(3)</b> years                                                                                                                                                                                                                                                            | Must meet requirement | Refer to standard form section 7 |
| 4.1    | General Construction Experience      | Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last <b>five years</b> prior to the applications submission deadline                                                                                                                                                                                                                                                                      | Must meet requirement | Refer to standard form section 7 |
| 4.2(a) | Specific Construction Experience     | Participation as contractor, management contractor or subcontractor, in At Least <b>Two (2) No. Contracts Within The Last Five (5) Years</b> , Each With A Value Of At Least <b>Kshs; 1,000,000.00 (One Million)</b> , that have been successfully and substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Scope of Works | Must meet requirement | Refer to standard form section 7 |

|                              |                             |                                                                                                                                                                                                                                                                                                                                   |                           |                                  |
|------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------|
| 4.2(b)                       |                             | b) For the above or other contracts executed during the period stipulated in 4.2(a) above, a minimum construction experience in at least one (1) of: <ul style="list-style-type: none"> <li>- Routine maintenance</li> <li>- Spot improvement &amp; rehabilitation works</li> <li>- Any other works of similar nature.</li> </ul> | Must meet requirements    | Refer to standard form section 7 |
| 4.3                          | Work Methodology            | Submission of a brief work methodology                                                                                                                                                                                                                                                                                            | Not Applicable            | Refer to standard form section 7 |
| <b>5. Equipment Holding</b>  |                             |                                                                                                                                                                                                                                                                                                                                   |                           |                                  |
| 5.1                          | Minimum number of Equipment | The bidder must indicate and provide proof ownership or leasing of at least two (2) different core plant and equipment for undertaking the project to completion within the completion time.                                                                                                                                      | Must meet the requirement | Refer to standard form section 7 |
| <b>6. Current Commitment</b> |                             |                                                                                                                                                                                                                                                                                                                                   |                           |                                  |
| 6.1                          | On-going contracts          | The total value of current works on the on-going contracts must not exceed <b>KShs.10 (Ten)Million</b>                                                                                                                                                                                                                            | Must meet requirements    |                                  |
| <b>7. Site Staff</b>         |                             |                                                                                                                                                                                                                                                                                                                                   |                           |                                  |

## 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 Anything of historical or other interest or significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Employer's Representative of such discoveries and carry out the Employer's Representative's instructions for dealing with them.

## **6 Work Program and Sub-contracting**

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

## **7 The site**

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

## **8 Instructions**

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

## **9 Extension of Completion Date**

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

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

## **10 Management Meetings**

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

## SECTION V: APPENDIX TO FORM OF AGREEMENT

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

| Item                                                                | Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time for Completion                                                 | 1/2/3 Months-As applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Bid Security                                                        | Not applicable-N/A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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                                        | Director General<br>Kenya Rural Roads Authority<br>P.O. Box 48151-00100<br>Nairobi                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Authorised Person                                                   | Roads Asset Manager-RAM (Maintenance),<br>Kenya Rural Roads Authority<br>P.O. Box 48151-00100<br>Nairobi                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Name and Address of Engineer's Representative                       | Deputy Director,<br>Kenya Rural Roads Authority<br>P. O. Box 1391-70100<br>Garissa                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Penalty to the Contractor for Employer paying workers on his behalf | 10% of the amount paid to the workers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Performance Security                                                | (Refer to guideline Notes)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| <b>Item</b>                                                                                 | <b>Data</b>                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Amount</b>                                                                               | <b>0% of sum stated as the Contract Price.</b>                                                                                                                                                |
| <b>Form</b>                                                                                 | <b>Bank Guarantee or Insurance Bond issued by PPOA approved insurance companies.</b>                                                                                                          |
| <b>Requirements of Contractors Design</b>                                                   | <b>Not applicable.</b>                                                                                                                                                                        |
| <b>Programme</b><br>⇒ <b>Time of Submission</b>                                             | <b>Within 7 days of Commencement Date.</b>                                                                                                                                                    |
| ⇒ <b>Form of Programme</b>                                                                  | <b>Bar Chart.</b>                                                                                                                                                                             |
| ⇒ <b>Interval Updates</b>                                                                   | <b>As requested by the Regional Manager</b>                                                                                                                                                   |
| <b>Liquidated Damages</b><br><b>Amount payable due to failure to complete</b>               | <b>0.01% of Contract Price per Day to a limit of 1% of Contract Price.</b>                                                                                                                    |
| <b>Defects Liability</b>                                                                    | <b>Refer to guideline Notes.</b>                                                                                                                                                              |
| <b>Period of notifying defects</b>                                                          | <b>90 days calculated from the date stated in the notice under sub clause 11.2</b>                                                                                                            |
| <b>Percentage of Retention</b>                                                              | <b>Refer to guideline Notes.</b>                                                                                                                                                              |
| <b>Maximum Amount of Advance Payment</b>                                                    | <b>10% of contract price.</b>                                                                                                                                                                 |
| <b>Form of Guarantee for Advance Payment</b>                                                | <b>Bank Guarantee.</b>                                                                                                                                                                        |
| <b>Valuation of Works</b>                                                                   | <b>Re-measurements with Bills of Quantities</b>                                                                                                                                               |
| <b>Repayment Schedule for Advance Payment</b>                                               | <b>0 % instalments from 1<sup>st</sup> three certificates.</b>                                                                                                                                |
| <b>Currency of Payment</b>                                                                  | <b>Kenya Shilling</b>                                                                                                                                                                         |
| <b>Rate of Interest</b>                                                                     | <b>Simple Interest at a rate of 0% above means Base Lending Rate as issued by the Central Bank of Kenya.</b>                                                                                  |
| <b>Insurance</b>                                                                            | <b>Required.</b>                                                                                                                                                                              |
| <b>Insurance</b><br>⇒ <b>The Works, materials plants &amp; fees- Contractor's All risks</b> | <b>Amount of Cover.</b><br><br><b>The Contract Price stated in the Agreement +15% replacement cost of equipment on site.</b><br><br><b>As per work injury benefits act 2007 laws of Kenya</b> |

| <b>Item</b>                                                                                                                                | <b>Data</b>                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ⇒ <b>Third party injury to persons and damage to property</b><br><br>⇒ <b>Workers compensation (WIBA- worker's injury benefits policy)</b> |                                                                                                                                                             |
| <b>Arbitration</b><br>⇒ <b>Rules</b><br>⇒ <b>Appointing Authority</b><br>⇒ <b>Place of Arbitration</b>                                     | <b>CAP 49 of the Laws of Kenya</b><br><b>Chairman Chartered Institute of Arbitrators, Kenya Branch.</b><br><b>Kenya Rural Roads Authority, Headquarters</b> |

## SECTION VI: STANDARD FORMS

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## 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

## 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.
5. 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 .....

## 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.

**EA This guarantee will remain in force up to and including forty five (45) 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]

**TENDER-SECURING DECLARATION FORM (FOR SPECIAL GROUPS ONLY)**

[The Bidder shall complete in this Form in accordance with the instructions indicated]

Date: [insert date (as Day....., Month.....and..... Year) of Bid Submission]

Tender No. [.....]

To: [..... insert complete name of Employer]

We, the undersigned, declare that:

1. We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration.

2. We accept that we will automatically be suspended from being eligible for bidding in any contract with the Purchaser for the period of time of [insert number of months or years] starting on [insert date], if we are in breach of our obligation(s) under the bid conditions, because we –

a.) Have withdrawn our Bid during the period of bid validity specified by us in the Bidding Data Sheet; or

b.) Having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity,

i.) Fail or refuse to execute the Contract, if required, or

ii.) Fail or refuse to furnish the Performance Security, in accordance with the ITT.

-We understand that this Bid Securing Declaration shall expire if we are not the successful bidder, upon the earlier of

-Our receipt of a copy of your notification of the name of the successful Bidder; or 1(i) Twenty-eight days after the expiration of our Tender.

1). We understand that if we are a Joint Venture, the Bid Securing Declaration must be in the name of the Joint Venture that submits the bi, and the Joint Venture has not been legally constituted at the time of bidding, the Bid Securing Declaration shall be in the names of all future partners as named in the letter of intent.

Signed: [.....insert signature of person whose name and capacity are shown] in the capacity of [..... insert legal capacity of person signing the Bid Securing Declaration]

Name: [..... insert complete name of person signing the Bid Securing Declaration] Duly authorized to sign the bid for and on behalf of: [insert complete name of Bidder]

Dated on ..... day of ..... [Insert date of signing]

## 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 \_\_\_\_\_

## BANK GUARANTEE FOR ADVANCE PAYMENT

To: \_\_\_\_\_ [Name of Employer] \_\_\_\_\_ (Date)  
\_\_\_\_\_ [Address of Employer]

Gentlemen,

Ref: \_\_\_\_\_ [name of Contract]

In accordance with the provisions of the Conditions of Contract of the above-mentioned Contract, **We**, \_\_\_\_\_ [name and Address of Contractor] (hereinafter called “the Contractor”) shall furnish you with a Bank guarantee by a recognised Bank for the sum specified therein as a security for compliance with his obligations in accordance with the Contract in an amount of Kshs. \_\_\_\_\_ [amount of Guarantee in figures] Kenya Shillings \_\_\_\_\_ [amount of Guarantee in words].

**We**, the \_\_\_\_\_ [bank or financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to \_\_\_\_\_ [name of Employer] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding Kshs \_\_\_\_\_ [amount of Guarantee in figures] Kenya Shillings \_\_\_\_\_ [amount of Guarantee in words].

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

This Guarantee shall remain valid and in full effect from the date of the Advance Payment under the Contract until \_\_\_\_\_ (name of Employer) receives full payment of the same amount from the Contract.

Yours faithfully,  
Signature and Seal \_\_\_\_\_

Name of the Bank or financial institution \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

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

Address: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## FORM OF AGREEMENT

**THIS AGREEMENT is made on the .....day of ..... 2021** between the **Kenya Rural Roads Authority, GARISSA REGION of P.O. BOX 1391 - 007100, Garissa, Kenya** hereinafter called the “**EMPLOYER**” of the one part and..... hereinafter called the **CONTRACTOR of the other** at their tender sums of hereinafter called the “**Contractor**” of the other part.

**WHEREAS** the Employer is desirous that certain works should be executed, viz:..... And has accepted a Bid by the Contractor to execute, complete and maintain such works at their Tender Sum of **Kshs;(Amount in Figures) .....(Amount in words).....**

### **NOW THIS AGREEMENT WITNESSETH as follows:**

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

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

The said BID dated -----

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

All aforesaid documents are hereinafter referred to as “**The Contract**”.

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

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

**SIGNED AND DELIVERED**

By the said Employer.....

Signature.....

Region .....

**(Deputy Director, Kenya Rural Roads Authority)**

(For and on behalf of the said Employer.)

In the presence of.....

Signature .....

**By the said Contractor:** .....

Signature.....

Designation.....

(For and on behalf of the said Contractor)

In the presence of: .....

Signature.....

Address.....

## 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 **Kenya Rural Roads Authority** who  
has interest in this firm? Yes/No..... (Delete as necessary)

I certify that the information given above is correct.

|         |             |        |
|---------|-------------|--------|
| .....   | .....       |        |
| (Title) | (Signature) | (Date) |

\* Attach proof of citizenship

### SCHEDULE OF LABOUR: - BASIC RATES

(Reference: Clause 4 of Conditions of Particular Application)

| LABOUR<br>CATEGORY | UNIT<br>(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

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)

**KEY PERSONNEL (as per qualification criteria)**

| DESIGNATION                                                                              | NAME | NATIONALITY | SUMMARY OF QUALIFICATIONS AND EXPERIENCE |
|------------------------------------------------------------------------------------------|------|-------------|------------------------------------------|
| Headquarters:<br>1. Managing Director<br><br>2.<br><br>3.<br><br>etc.                    |      |             |                                          |
| Site Office:<br><br>1. Site Agent/<br>Supervisor<br><br>2.<br><br>3.<br><br>4.<br><br>5. |      |             |                                          |

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        | Double drum vibrating pedestrian roller(3Tons) | 1                       |                                     |                              |
|          |                                                |                         |                                     |                              |
| 3        | Self-propelled single drum vibrating (10Tons)  | 1                       |                                     |                              |
|          |                                                |                         |                                     |                              |
| 4        | Mobile concrete mixers                         | 1                       |                                     |                              |
|          |                                                |                         |                                     |                              |
| 5        | Excavator/loader                               | 1                       |                                     |                              |
|          |                                                |                         |                                     |                              |
| 6        | Concrete vibrators                             | 1                       |                                     |                              |
|          |                                                |                         |                                     |                              |
| 7        | Tippers payload 7 – 10 tonnes                  | 2                       |                                     |                              |
|          |                                                |                         |                                     |                              |
| 8        | Flat bed lorries                               | 1                       |                                     |                              |
|          |                                                |                         |                                     |                              |
| 9        | Water tankers (10,000 litres capacity)         | 1                       |                                     |                              |
|          |                                                |                         |                                     |                              |
| 10       | Motor Grader                                   | 1                       |                                     |                              |
|          |                                                |                         |                                     |                              |
| 11       | Crawler Tractor                                | 1                       |                                     |                              |
|          |                                                |                         |                                     |                              |

The Bidder must attach certified copies of log books or lease agreement 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<br>WORKS AND CLIENT | TOTAL VALUE OF<br>WORKS (KSHS) | CONTRACT<br>PERIOD<br>(YEARS) | YEAR<br>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<br>WORK AND CLIENT | CONTRACT<br>PERIOD | DATE OF<br>COMMEN-<br>CEMENT | DATE OF<br>COMPLETIO<br>N | TOTAL<br>VALUE OF<br>WORKS<br>(KSHS.) | %<br>COMPLET<br>ED<br>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. Financial reports for the last three years, balance sheets, profit and loss statements, auditors' reports etc. List them below and attach copies.  
.....  
.....  
.....
2. Evidence of access to financial resources to meet the qualification requirements. Cash in hand, lines of credit etc. List below and attach copies of supporting documents  
.....  
.....  
.....
3. Name, address , telephone, telex, fax numbers of the 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.)<br>Corrective order by authority (Date)<br>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)

|                       |  |
|-----------------------|--|
| <b>Project Title:</b> |  |
| <b>Contractor:</b>    |  |

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<br>(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.)<br>Corrective order by authority (Date)<br>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**

### **STANDARD SPECIFICATIONS**

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

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

## I. SPECIFICATIONS

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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- 001 Mobilisation and Establishment of the Site**

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

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

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

Measurement and Payment:

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

### **01-40- 002 Clearance on Completion**

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

#### **Measurement and Payment**

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

#### **01-40-003 Insurance and Bonds**

The Contractor shall provide Insurance and Sureties in accordance with relevant Clauses in the Conditions of Contract.

Measurement and Payment

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

#### **01-40-004 Quality Control Tests**

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

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

Measurement and Payment

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

#### **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.

#### **01-40- 006 Traffic Control**

The Contractor shall provide warning signs, fences, barriers, detours, which shall be properly

positioned in advance of the Works to ensure that traffic is well and safely accommodated for the duration of the Works.

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

#### Quality Control

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

#### Measurement and Payment

A Lump Sum shall be paid on a Monthly basis upon the approval of the Engineer that satisfactory control measures are in place.

### **01-40- 007     Drinking Water**

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

#### Quality Control

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

#### Measurement and Payment

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

## SECTION 02 :      SETTING OUT

### Scope

This section covers the activities required in the re-establishment of the horizontal alignment of the road include setting out the centre line, cross section widths, drains and structures.

#### 02-50-001: Setting Out the Horizontal Alignment

The Contractor shall set out the centreline to follow the existing road alignment unless instructed otherwise by the Engineer.

The minimum standards as shown in Table 2.1 shall apply

Table 2.1 Alignment Standards

| Standard                 | Flat and Rolling<br>Terrain | Hilly Terrain |
|--------------------------|-----------------------------|---------------|
| <i>Horizontal Curves</i> |                             |               |
| Desirable Minimum radius | 100m                        | 50m           |

The cross section details of the road shall be as shown on the Drawing or as directed by the Engineer.

### Work Method

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

### Quality Control

- Centreline pegs shall be set at 10m intervals on straight sections and 5m on curves
- Chainage or reference pegs shall be set out and marked at 20m intervals and located at one metre outside the cleared width and on both sides of the road.
- Cross section widths shall be checked at 10m intervals and shall have maximum tolerances of +/- 25mm

### Measurement Unit: m

The measurement shall be the linear metres of the road

### 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                |

### 04-50-002 Grass Cutting (Manual)

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

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

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

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

### Work Method

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

### Quality Control

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

Measurement:  $m^2$

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

### Payment

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

### 04-50- 003     **Bush Clearing (Heavy)**

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

### 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:  $m^2$

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

### Payment:

The unit rate shall be the full compensation for all labour, tools 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.

### **04-50-005     Pruning Tree Branches**

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

#### Work Method

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

#### Quality Control

The Engineer shall check for visibility improvement.

#### Measurement and Payment

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

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

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

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

#### Work Method

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

#### Quality Control

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

Measurement Unit: No

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

#### Payment

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

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

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

#### Work Method

The Contractor shall use **Labour** methods, with appropriate sawing tools and equipment for this item.

#### Quality Control

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

Measurement Unit: No

Measurement shall be the number of trees and stumps removed

#### Payment:

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

### **04 -50-009                      Rock/Boulder Removal**

The Contractor shall remove in a manner agreed by the Engineer, rocks and boulders greater than 1.5

m girth using labour and appropriate equipment as necessary. Boulders shall be disposed of outside the road area.

#### Work Method

The Contractor shall use **Labour** and appropriate equipment methods for this item.

#### Quality Control

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

Measurement Unit: Provisional Sum

A Provisional Sum shall be included for this item

#### Payment:

Payment shall be made on a Dayworks basis.

### **04-50-010 Stripping and Grubbing**

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

#### Work Method

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

#### Quality Control

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

Measurement Unit      m<sup>2</sup>

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

#### Payment

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

## SECTION 05: EARTHWORKS

### Scope

This section covers the excavation of soil and the placing, watering and compaction of hard and soft material to form the road formation.

### 05-40- 001: Re - Establishment of the Vertical Alignment

The Contractor shall re-establish the vertical alignment of the road section which includes the setting out excavation of horizontal slots marking the level road platform.

The width of the slots shall be 0.5 m and they shall be set out at 10m intervals along the straight section and 5m on the curve sections of the road. Each slot shall be compacted using hand rammers until no more imprints of the rammer on the surface of the slot can be seen. The length of each slot shall be equal to the formation width of the road.

Vertical alignment standards shall be those set out in Table 5.1

Table 5.1 Vertical Alignment Standards

| Standard          | Flat & Rolling Terrain | Hilly Terrain |
|-------------------|------------------------|---------------|
| Gradients         |                        |               |
| Desirable Minimum | 2%                     | 2%            |
| Desirable Maximum | 8%                     | 10%           |
| Absolute Maximum  | 10%                    | 12%           |

### Work method

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

### Quality Control:

- The hand rammer shall be not less than 5kg
- The level of the slot shall have a tolerance of  $\pm 50$  mm
- The longitudinal profile of the road shall be checked at every third slot and shall have a maximum tolerance of  $\pm 50$ mm

Measurement Unit: m

The measurement shall be linear metres of road alignment set out

### Payment:

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

#### **05-50- 007      Excavation to Level and Compaction**

The Contractor shall cut material to form the level road platform and place the excavated material as fill or in spoil areas approved by the Engineer. Where material needs to be borrowed excavation shall only be from borrow areas approved by the Engineer.

The fill layers to be compacted shall not exceed 150mm loose depth.

Compaction of the fill material shall be carried out from the edges to the centre 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 such that no longitudinal or transverse flow occurs.

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 appropriate compaction **Equipment** to carry out this item of work.

#### **Quality Control**

- The width of the platform shall be checked at intervals of 50 m and shall have a tolerance of + / - 50mm.
- The level platform shall be horizontal in the transverse direction and shall have a tolerance of + / - 15 mm under a 2 metre straight edge.
- The longitudinal profile shall have a maximum tolerance of + / - 50 mm over a 30m length of gradient.
- Compaction shall show no movement of material under the roller.
- Compaction test standard shall be 95% MDD (AASHTO T99)

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

The measurement shall be the volume of compacted fill material forming the level platform.

#### **Payment**

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

### 05-50-003: Side-drain Excavation (Soft Material)

The Contractor shall excavate side drains to the profiles shown on the Drawings or as directed by the Engineer.

The material from the excavations shall be used for the formation of the camber. Where additional material is required to achieve the required camber, the widths of the side drains may be increased, with the approval of the Engineer.

Locations of the side drains shall be as shown on the Drawings or as directed by the Engineer, and the Contractor shall use the appropriate ditch template to control the excavations

#### *Work method*

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

#### *Quality Control*

- The dimensions of the side drains shall be checked at 50m intervals and shall have a tolerance of  $\pm 50\text{mm}$
- The longitudinal profile of the side drains shall be checked at 30m intervals and shall have a tolerance of  $\pm 50\text{mm}$ .

Measurement Unit      $\text{m}^3$

Measurement shall be the volume of material excavated to form the side drains, and deposited for camber formation.

#### *Payment*

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

### 05-50-004 Side-drain Excavation (Hard material)

Where, in the opinion of the Engineer, the material to be excavated to form the side drains may be classified as hard the Contractor shall carry out the excavation in accordance with 05-003 and shall be compensated under this item,

#### *Work Method:*

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

#### *Quality Control:*

The Engineer shall measure the volume of the excavation classified as Hard material

Measurement Unit:      $\text{m}^3$



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 such that no longitudinal or transverse flow occurs.

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 appropriate compaction **Equipment** to carry out this item.

#### Quality Control

- The width of the carriageway including the shoulders shall be checked at 50m intervals and shall have a tolerance of +50/-20 mm.
- The camber shall be checked 50m intervals and shall have a tolerance of +/- 1%.
- Compaction shall show no movement of material under the roller
- Compaction test standard shall be 98% MDD (AASHTO T99)

Measurement Unit                      m<sup>2</sup>

The measurement shall be the area of camber formed, according to the specified carriageway width and measured length of road.

#### Payment

The unit rate shall be the full compensation for all labour, tools, equipment, water and incidental costs required for 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<br>PI |     |     |
|-------------------------------------|-----|-----|
| Zone                                | Min | Max |
| WET: Mean annual rainfall > 500 mm  | 5   | 20  |
| DRY: Mean annual rainfall           | 10  | 30  |

| BEARING STRENGTH                                                                   |     |                        |
|------------------------------------------------------------------------------------|-----|------------------------|
| Traffic VPD                                                                        | CBR | DCP Equivalent 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 |     |                        |

For “Quarry  
Waste” gravel  
stones of  
maximum  
dimension 80mm  
may be permitted

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



Measurement Unit:  $m^3$

The measurement shall be the volume of overburden removed as calculated from the cleared area and the mean depth indicated from the trial pits.

#### Payment

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

#### **10-80- 005 : Haulage (Overhaul beyond 1.5km)**

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

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

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

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

#### Quality Control:

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

Measurement Unit:  $m^3km$  (Overhaul)

The Contractor shall allow in the rates for item 10-80-007 for a 'free' haul distance of 1.5km. The 'overhaul' shall be the distance, greater than 1.5km, to the centre point of the section where the gravel is being dumped and processed, measured along the shortest route as determined by the Engineer.

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

#### Payment

The unit rate shall include full compensation for labour, tools, equipment, and incidental costs

necessary to carry out the work.

### **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:  $m^3$

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

**Payment**

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

**10-80-010 Restoration of Quarries and Borrow Pits**

The Contractor shall level the ground, return the topsoil from the stockpiles, and uniformly spread the material over the full excavation area.

Adequate drainage provisions shall be made to protect the excavation areas, and where necessary appropriate protection measures shall be taken to avoid erosion of the spread topsoil layer. Grass and trees shall be replanted as directed by the Engineer.

**Work Method**

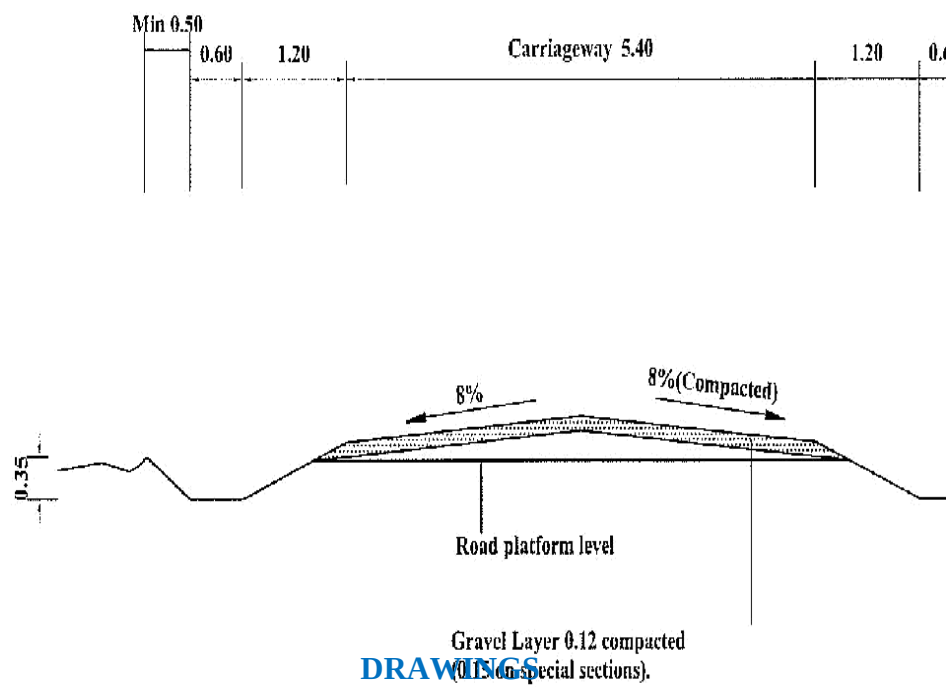
The Contractor shall use **Labour** and/or **Equipment** to carry out this item as agreed by the Engineer.

**Quality Control**

The Engineer shall check that the required measures have been satisfactorily taken.

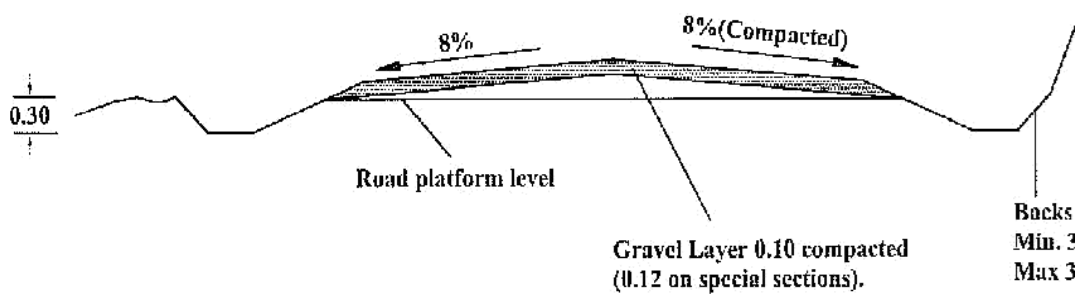
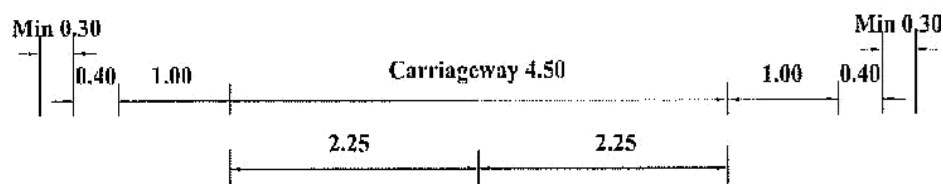
Measurement and Payment: **Provisional Sum**

Payment shall be made on a Dayworks basis for the labour and equipment as directed by the Engineer



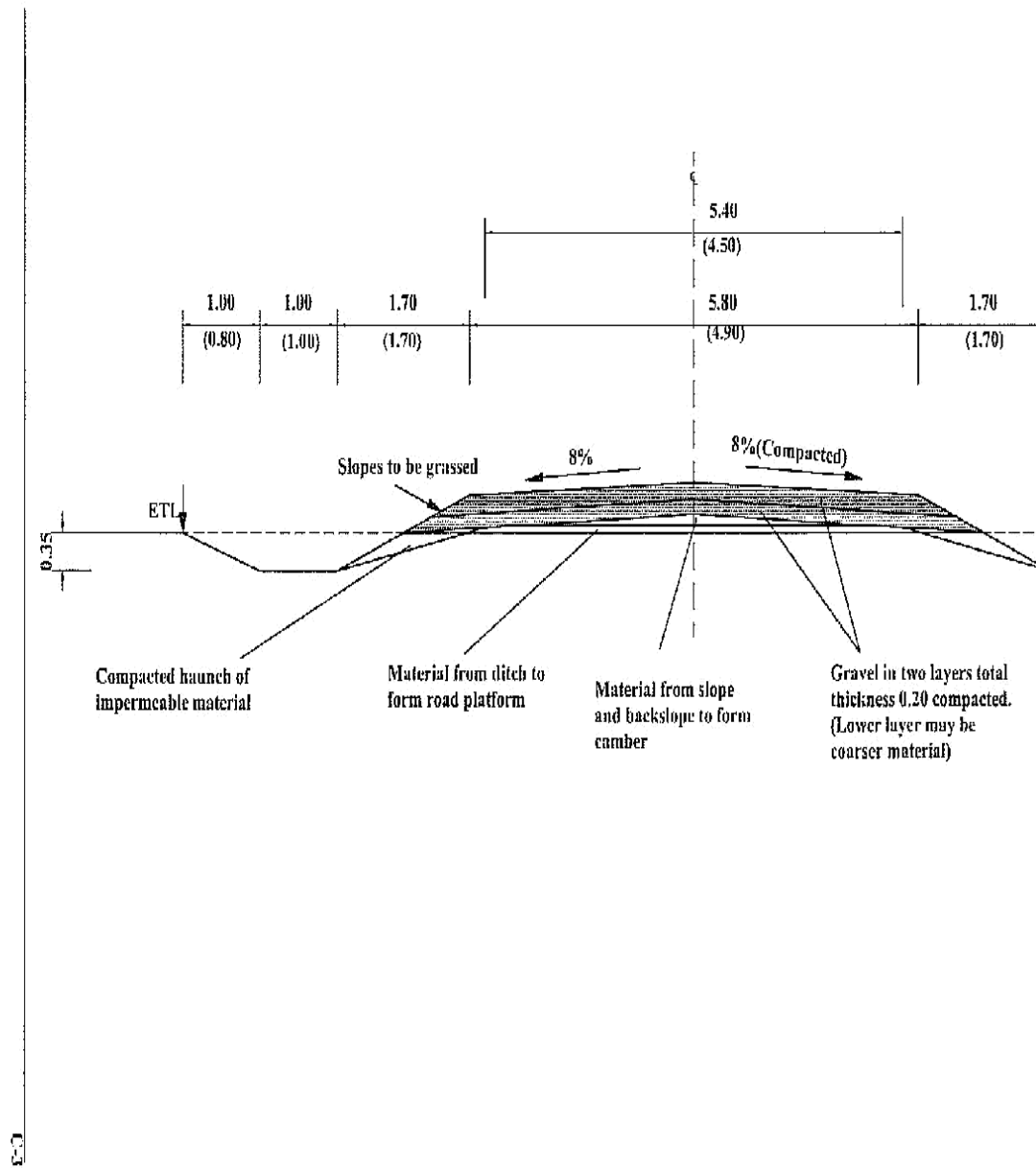
**Notes:**

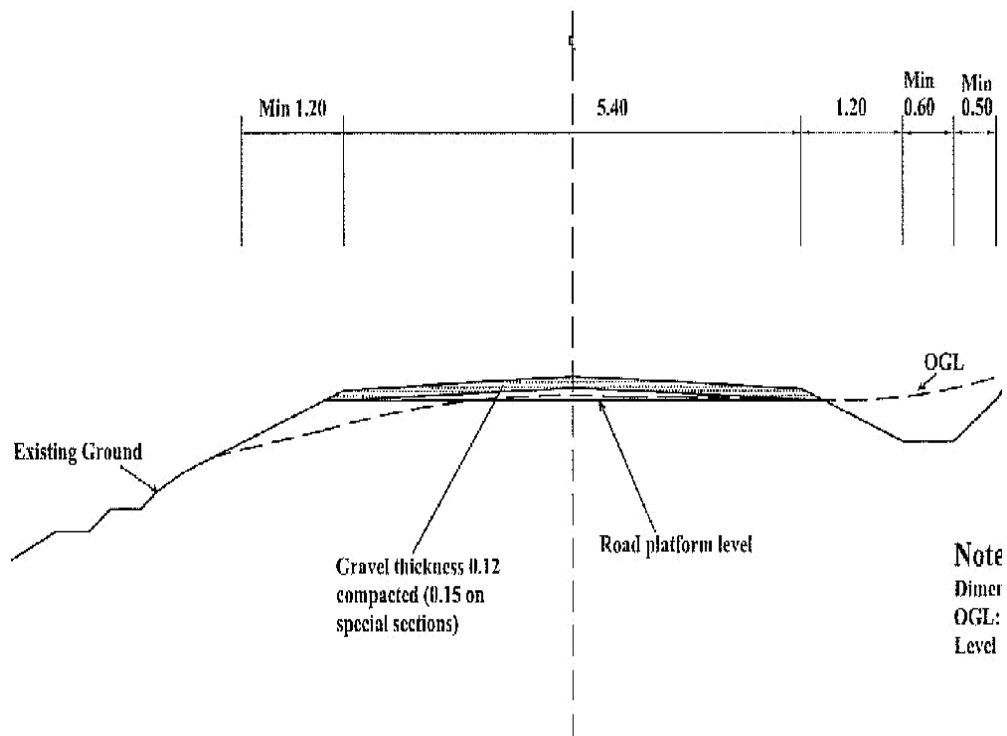
1. All dimensions in metres
2. Traffic levels of > 200vpd may justify a carriageway width of 6.0m
3. Gravel thickness may be increased as directed by the Engineer

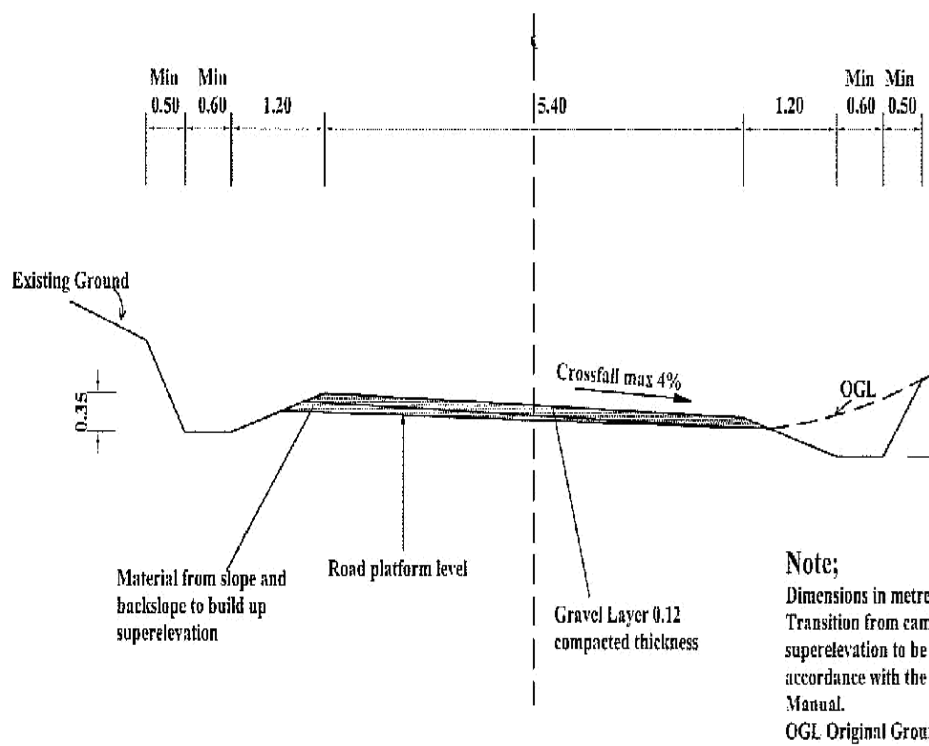


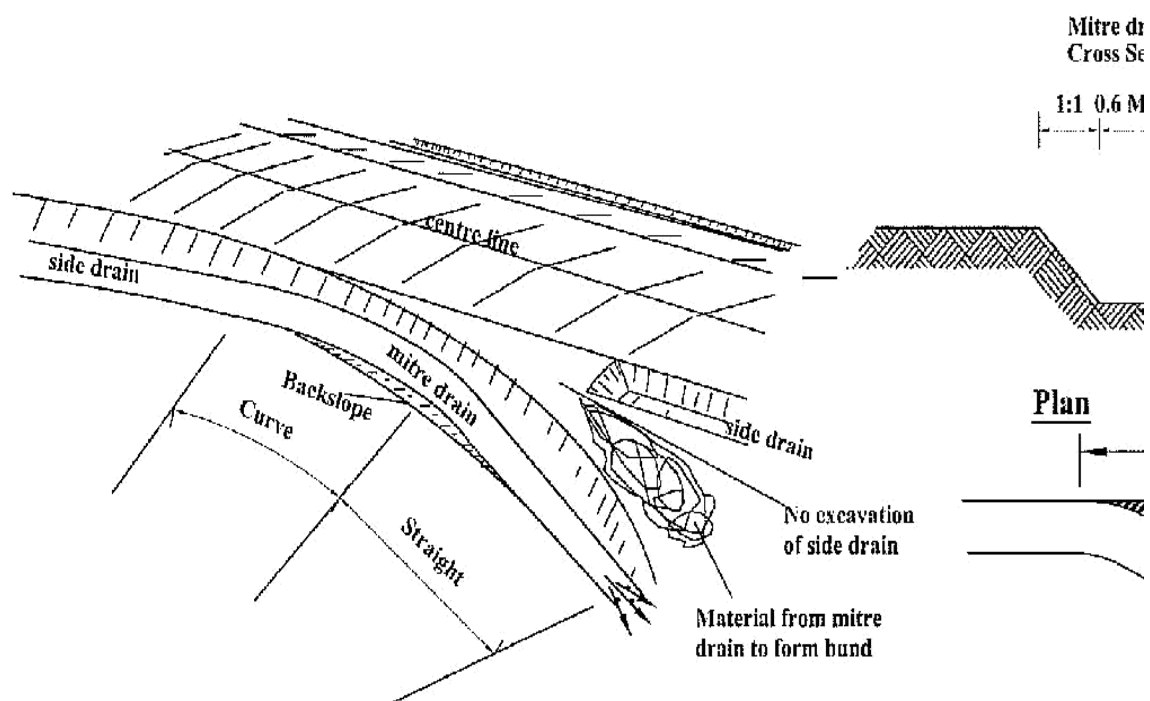
**Notes:**

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





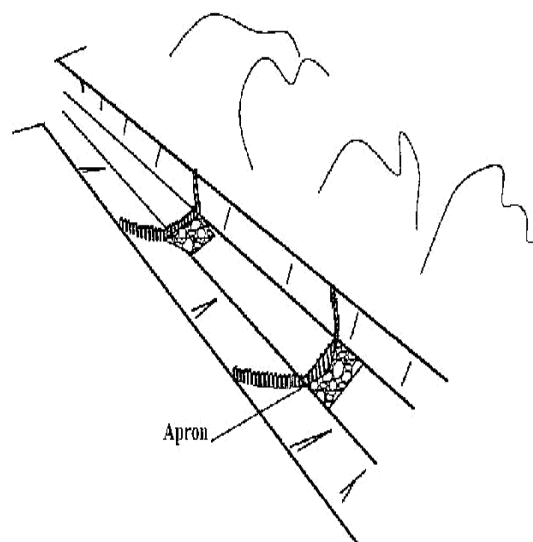




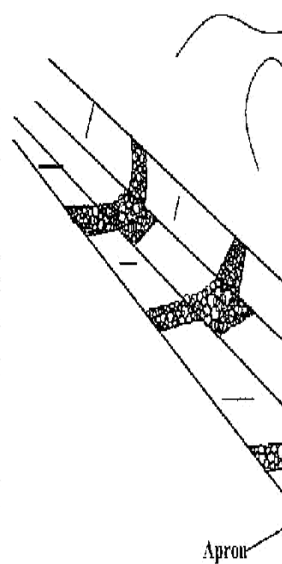
### Notes

Location, direction and length of the  
by the Engineer

Scour checks made of wooden stakes

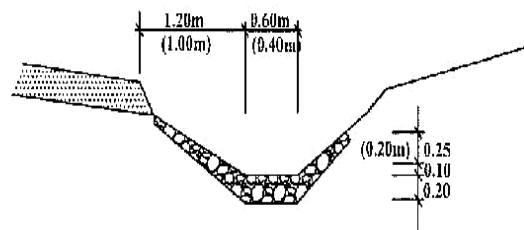


Scour checks made of stones

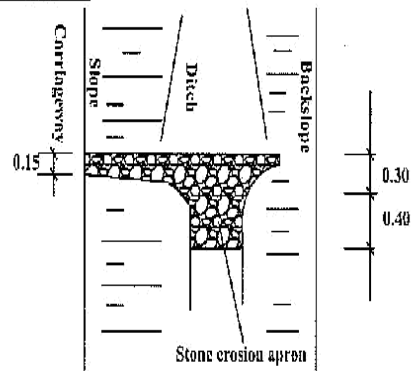


### Scour checks made of stones

#### Cross section



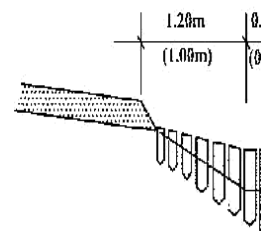
#### Ground plan



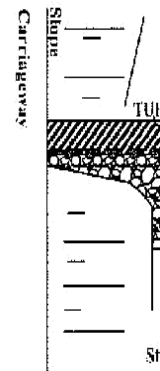
**NOTE**  
1. Dimensions in metres

### Scour checks made of stakes

#### Cross section



#### Ground plan

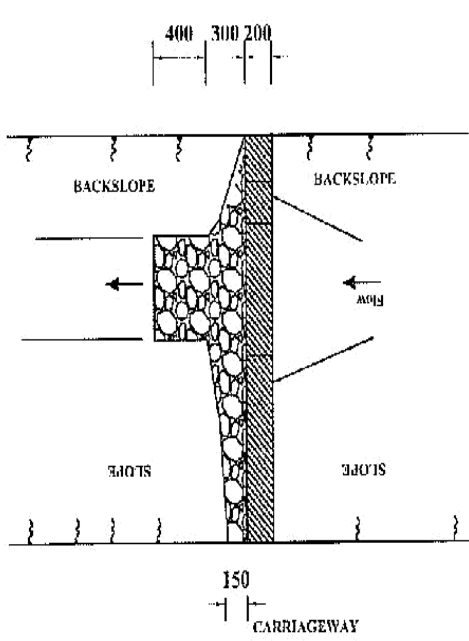


**STONE WEIGHT: MIN 10KG**  
**STAKE DIAMETER: MIN. 0.10**



SECTION OF MASONRY SCOUR CHECK

Note  
Dimensions in mm

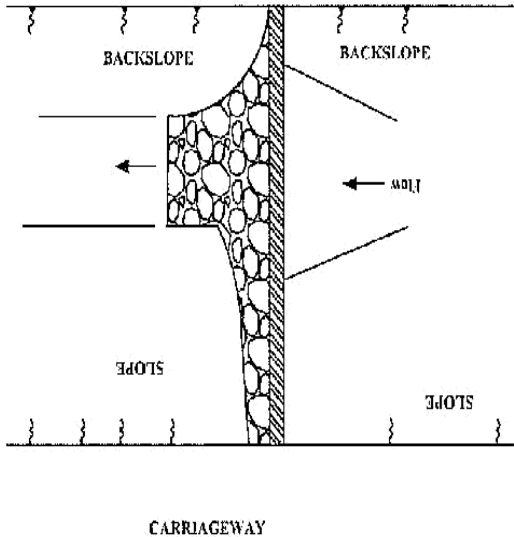


PLAN OF BRAIN WITH SCOUR CHECK

| Cross-Section | Size in mm |       |       | Base (m) | Length of (m) | Area of pitching (m <sup>2</sup> ) |
|---------------|------------|-------|-------|----------|---------------|------------------------------------|
|               | Length     | Width | Depth |          |               |                                    |
| A             | 2400       | 300   | 550   | 0.22     | 0.25          | 0.18                               |
| B             | 2000       | 200   | 500   | 0.18     | 0.2           | 0.14                               |

7

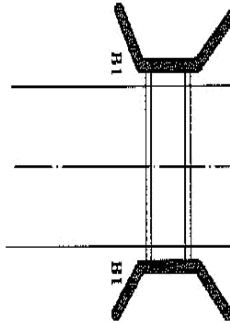
SECTION OF CONCRETE SCOUR CHECK



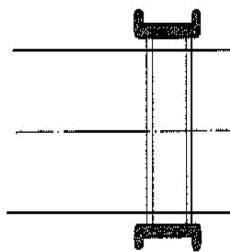
NOTE  
1. Dimensions in mm

PLAN OF DRAIN WITH SCOUR CHECK

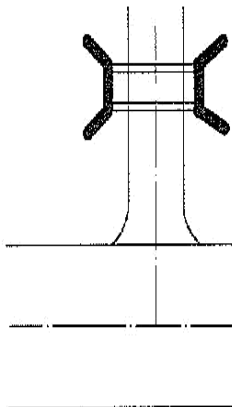
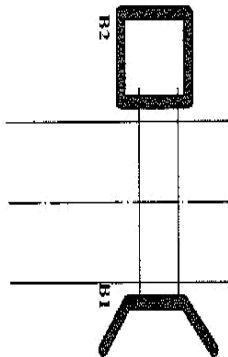
| Cross-<br>Section | Sizes in mm |       |       | Excav<br>(m <sup>3</sup> ) | Concrete<br>(m <sup>3</sup> ) | Apron<br>stone<br>pitching<br>(m <sup>3</sup> ) |
|-------------------|-------------|-------|-------|----------------------------|-------------------------------|-------------------------------------------------|
|                   | 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)

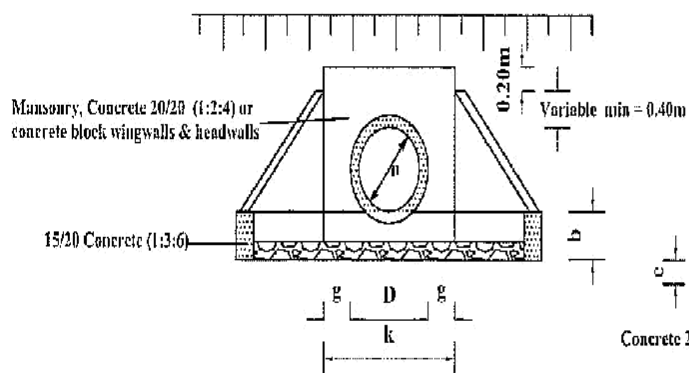


TYPE 4(ENTRY AND EXIT ON ACCESS)

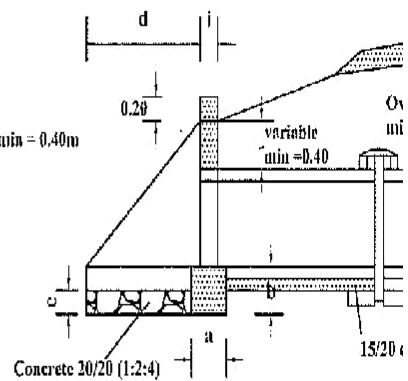


NOTE  
1. The code numbers specify the shape and function and the code letter denotes the material:  
A =Concrete block  
B =Stone masonry  
C =Concrete

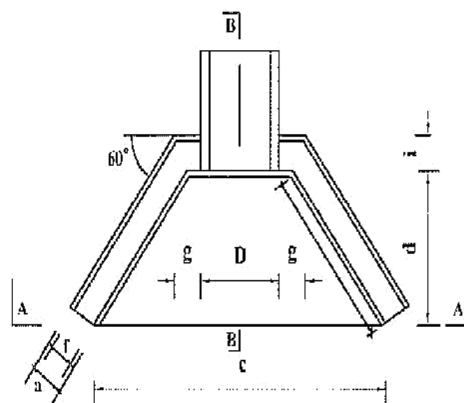
SECTION A-A



SECTION B-B



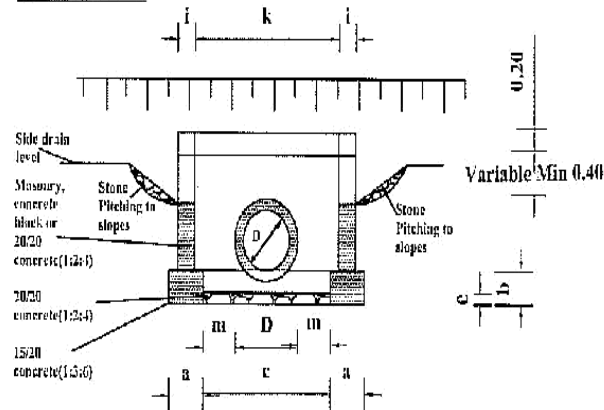
PLAN



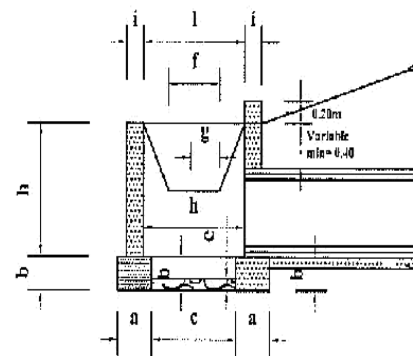
| CULVERT TYPES     |              |
|-------------------|--------------|
| X-SECTION WIDTH m | No. of pipes |
| 4.50              | 6            |
| 5.50              | 7            |
| 6.50              | 8            |

| 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



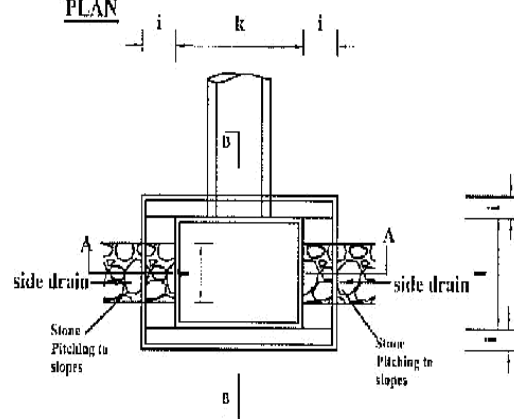
DIMENSIONS AND MATERIAL REQUIREMENTS

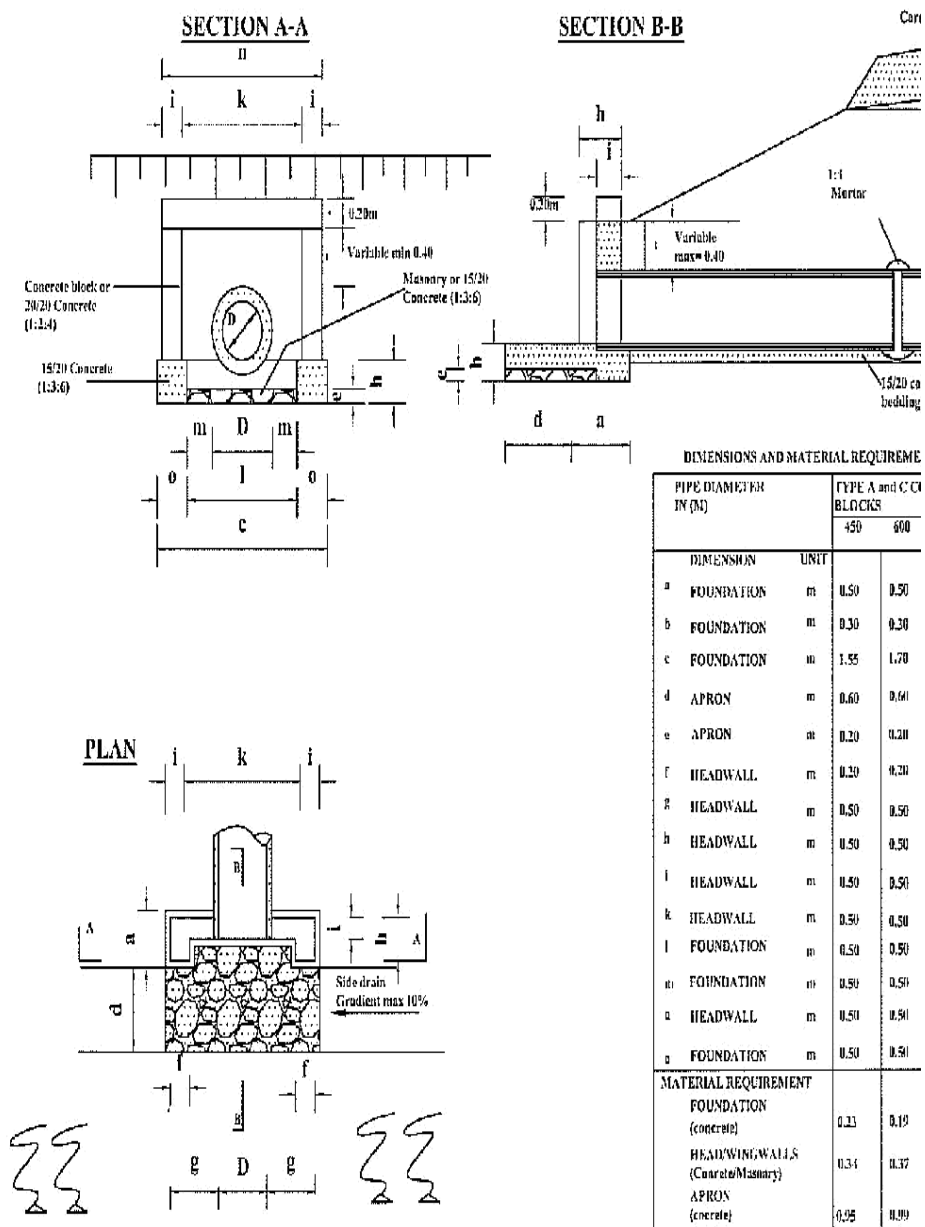
| PIPE DIAMETER<br>IN (M) | TYPE A CONCRETE<br>BLOCKS |      |      |      | TY<br>M <sup>3</sup> |
|-------------------------|---------------------------|------|------|------|----------------------|
|                         |                           | 450  | 600  | 900  |                      |
| 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

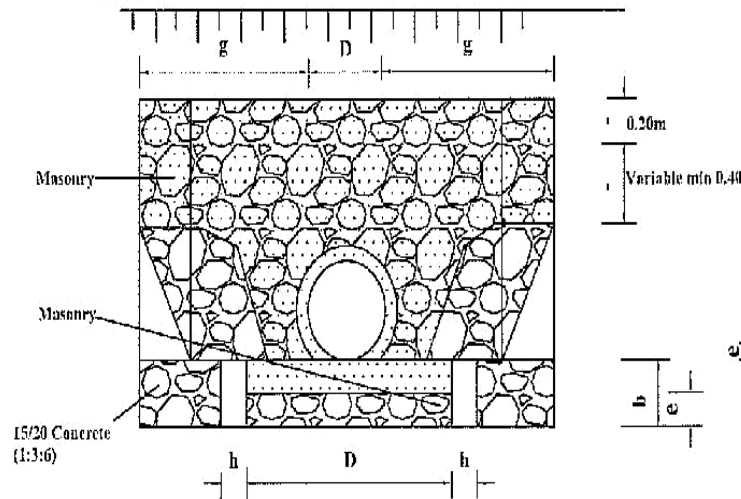
|                                      |                |      |      |      |     |
|--------------------------------------|----------------|------|------|------|-----|
| FOUNDATION<br>(concrete)             | m <sup>3</sup> | 0.47 | 0.47 | 0.51 | 0.7 |
| HEAD/WINGWALLS<br>(Concrete/Masonry) | m <sup>3</sup> | 0.56 | 0.72 | 1.15 | 1.2 |
| APRON (concrete)                     | m <sup>3</sup> | 0.24 | 0.24 | 0.30 | 0.2 |

PLAN

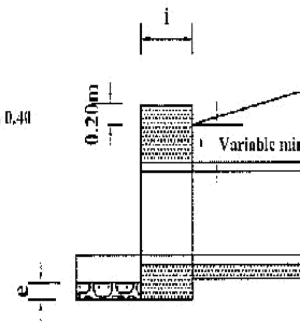




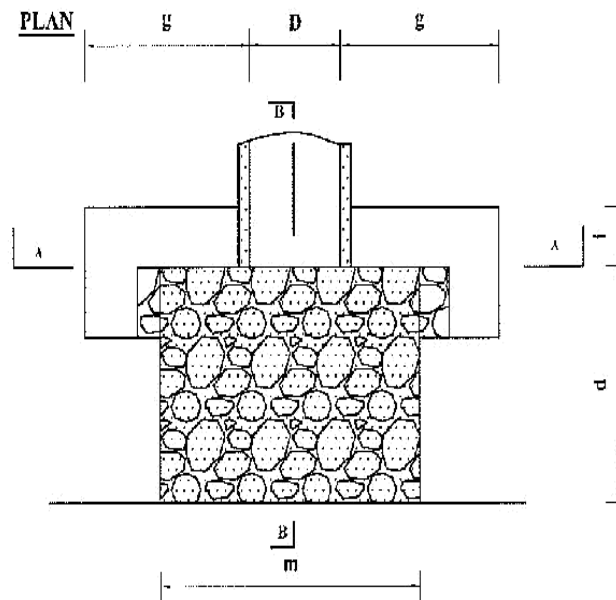
**SECTION A-A**



**SECTION B-B**



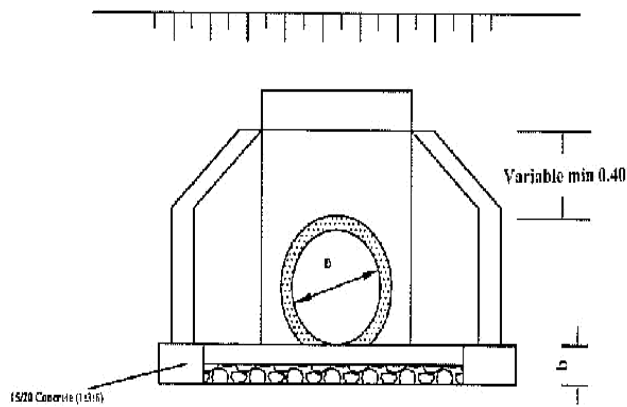
**PLAN**



**DIMENSIONS AND**

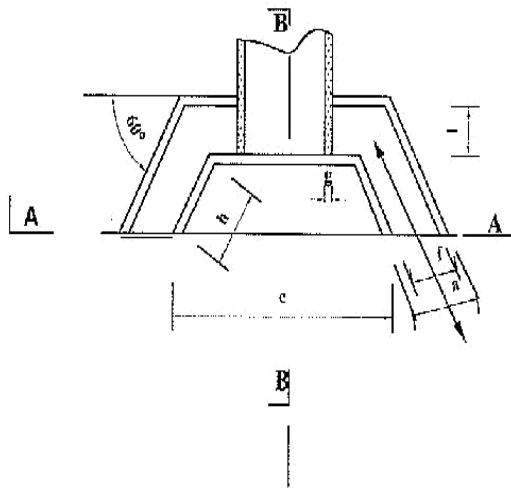
| PIPE DIAMETER (M)            |            |
|------------------------------|------------|
| DIMENSION                    |            |
| a                            | FOUNDATION |
| b                            | FOUNDATION |
| c                            | FOUNDATION |
| d                     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

### SECTION A-A

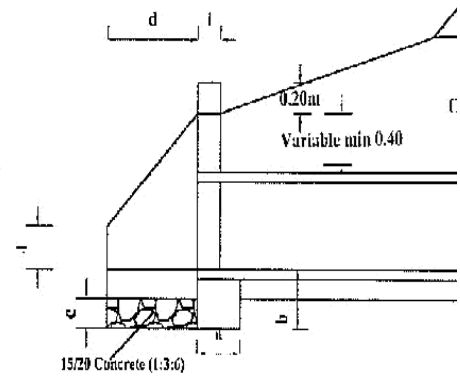


g D R

### PLAN

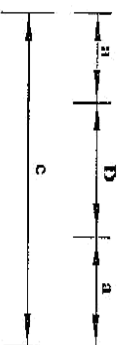
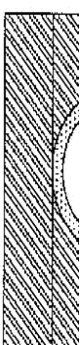


### SECTION B-B



### DIMENSIONS AND MATERIAL REQUIREMENTS

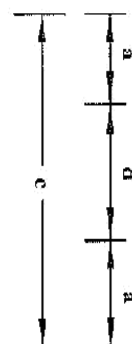
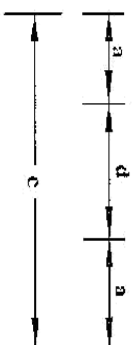
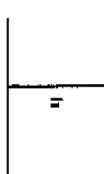
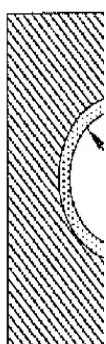
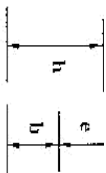
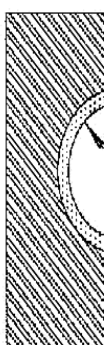
| PIPE<br>DIAMETER<br>IN (M)           | TYPE A<br>(CONCRETE BLOCKS) |      |      |
|--------------------------------------|-----------------------------|------|------|
|                                      |                             | 450  | 600  |
| DIMENSION                            | UNIT                        |      |      |
| a FOUNDATION                         | m                           | 0.30 | 0.36 |
| b FOUNDATION                         | m                           | 0.30 | 0.30 |
| c APRON                              | m                           | 1.34 | 1.49 |
| d APRON                              | m                           | 0.90 | 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 |
| j HEADWALLS                          | m                           | 0.65 | 0.80 |
| k HEADWALLS                          | m                           | 0.40 | 0.40 |
| MATERIAL REQUIREMENT                 |                             |      |      |
| FOUNDATION<br>(concrete (1:3:6))     |                             | 0.18 | 0.20 |
| HEAD/WINGWALLS<br>(Concrete/Masonry) |                             | 0.28 | 0.32 |
| APRON<br>(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 (min)              | 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<br>-Overfill > 75% of the pipe diameter<br>-Seasonal water flow only |          |          |
| Remarks              | Material for back/overfill shall be approved by the Engineer                                  |          |          |

| 450<br>(mm)                                                                                           | 600<br>(mm) | 900<br>(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 (m3/m)                                                                                      |             |             |
| 0.20                                                                                                  | 0.37        | 0.56        |
| -Fair to poor subgrade condition<br>-Overfill > 75% of the pipe diameter<br>-Seasonal water flow only |             |             |
| Material for back/overfill shall be approved by the Engineer                                          |             |             |

|   |
|---|
| e |
| b |

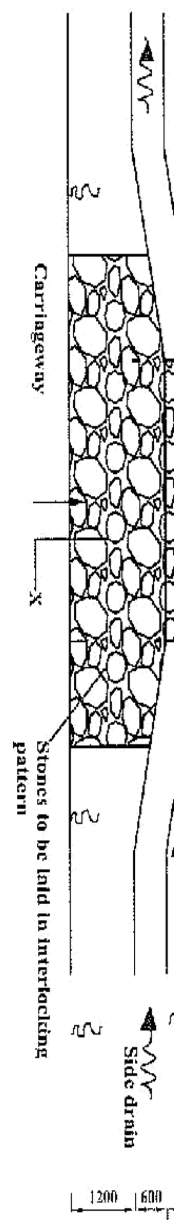


| Diameter (D) | 450 (mm) | 600 (mm) | 900 (mm) |
|--------------|----------|----------|----------|
| a            | 0.15     | 0.20     | 0.20     |
| b            | 0.10     | 0.15     | 0.15     |
| c            | 0.86     | 1.12     | 1.48     |
| d            | 0.56     | 0.72     | 1.08     |
| e            | 0.42     | 0.54     | 0.81     |
| f(min)       | 0.23     | 0.3      | 0.45     |
| g            | -        | -        | -        |
| h            | 0.52     | 0.69     | 0.96     |
| i            | -        | -        | -        |

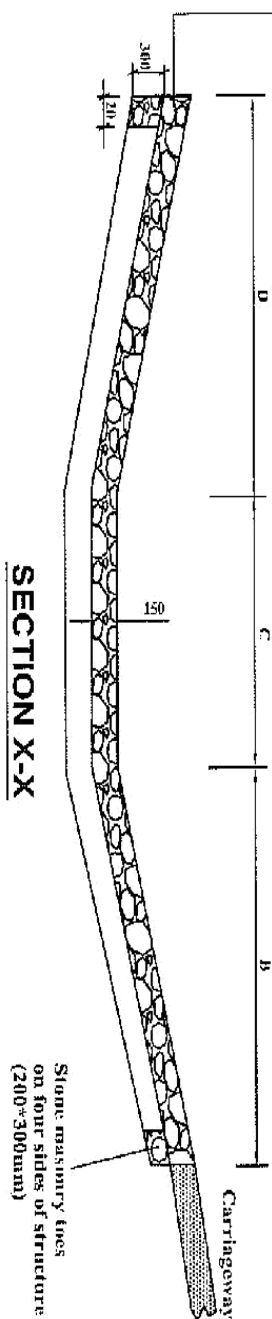
| 450 (mm) | 600 (mm) | 900 (mm) |
|----------|----------|----------|
| 0.15     | 0.20     | 0.20     |
| 0.10     | 0.15     | 0.15     |
| 0.86     | 1.12     | 1.48     |
| 0.56     | 0.72     | 1.08     |
| 0.46     | 0.52     | 0.78     |
| 0.15     | 0.15     | 0.15     |
| 0.15     | 0.15     | 0.15     |
| 0.81     | 1.02     | 1.38     |
| 0.28     | 0.35     | 0.45     |

| Concrete Class 15/20 | Volume in (m <sup>3</sup> /m)                                                                 | 0.26 | 0.47 | 0.71 |
|----------------------|-----------------------------------------------------------------------------------------------|------|------|------|
| Application          | -Fair subgrade condition<br>-Overfill > 75% of the pipe diameter<br>-Seasonal water flow only |      |      |      |
| Remarks              | Material for back/overfill shall be approved by the Engineer                                  |      |      |      |

| Volume in (m <sup>3</sup> /m)                                                                         | 0.37 | 0.61 | 0.92 |
|-------------------------------------------------------------------------------------------------------|------|------|------|
| -Fair to poor subgrade condition<br>-Overfill > 75% of the pipe diameter<br>-Seasonal water flow only |      |      |      |
| Material for back/overfill shall be approved by the Engineer                                          |      |      |      |

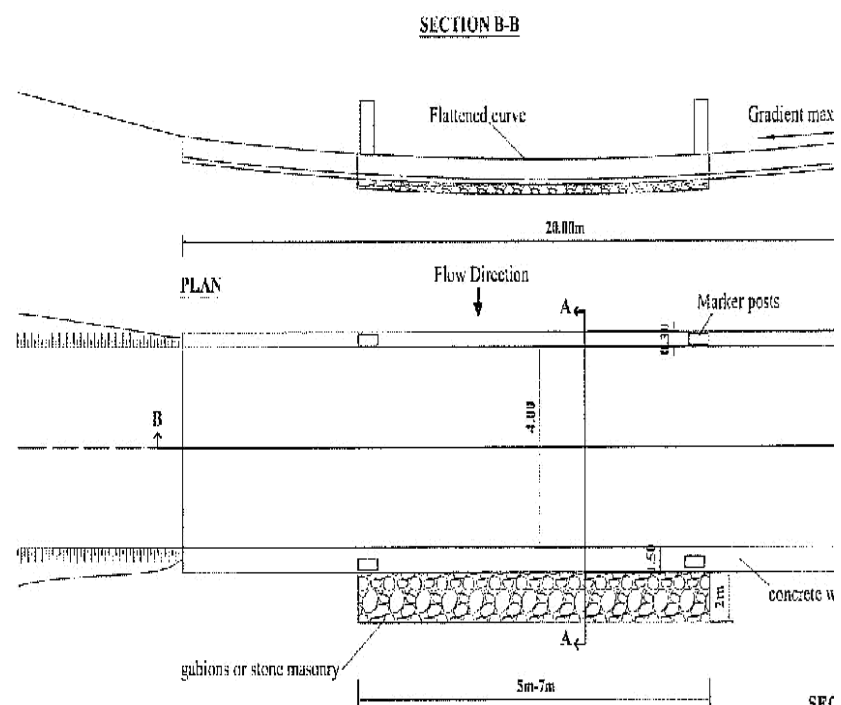


150mm Grouted Stone Pitching  
(Cement mortar 1:4)



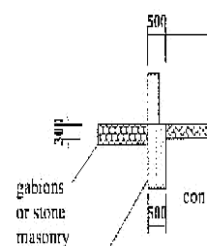
SECTION X-X

| 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                       |
|                  | 4000       | 1400 | 400 | 1800 | 3600 | 7.00                        |
| B                | 6000       | 1400 | 400 | 1800 | 3600 | 9.00                        |
|                  | 6000       | 1400 | 400 | 1800 | 3600 | 1.50                        |
|                  |            |      |     |      |      | 25.50                       |



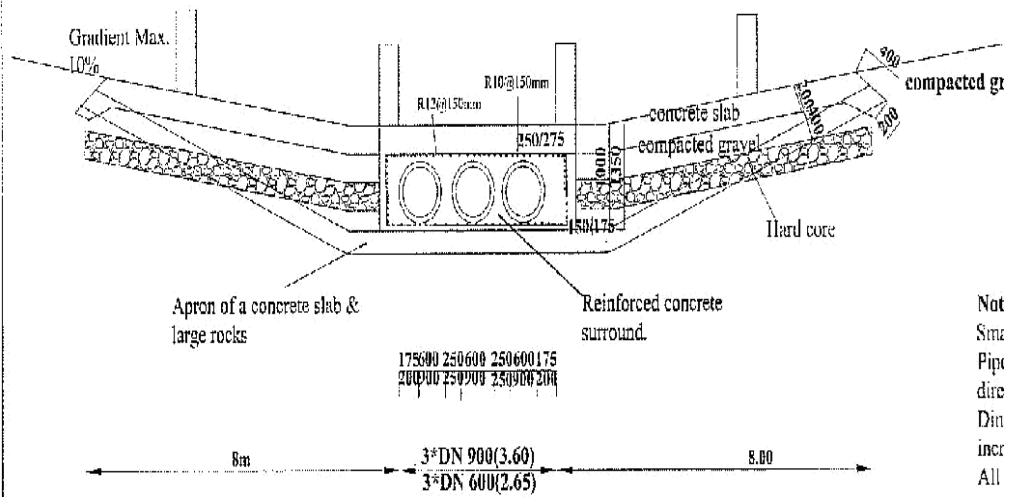
Material : All concrete Class 20/20 (1:2:4)

- 1 Concrete wall : 10m<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>

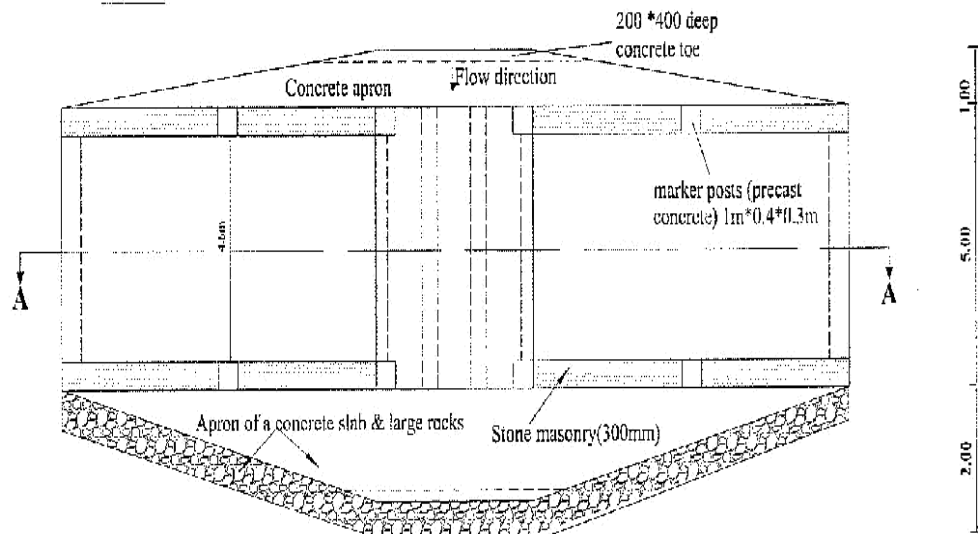


concrete wall > 1000

## SECTION A-A

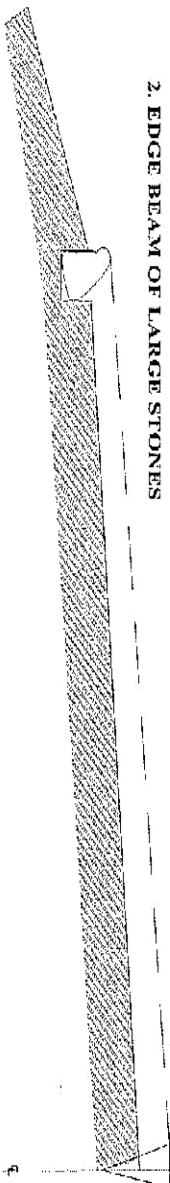


## PLAN

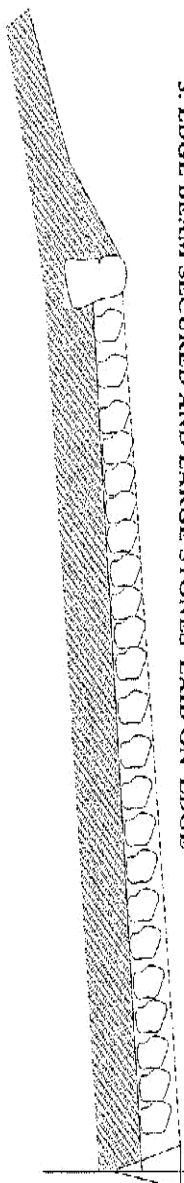




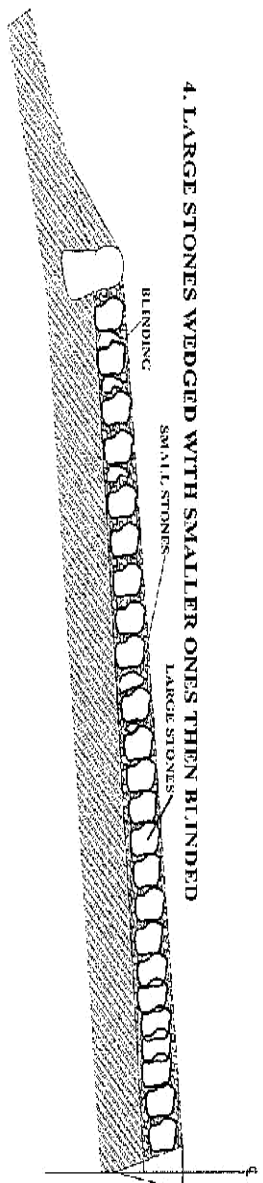
2. EDGE BEAM OF LARGE STONES

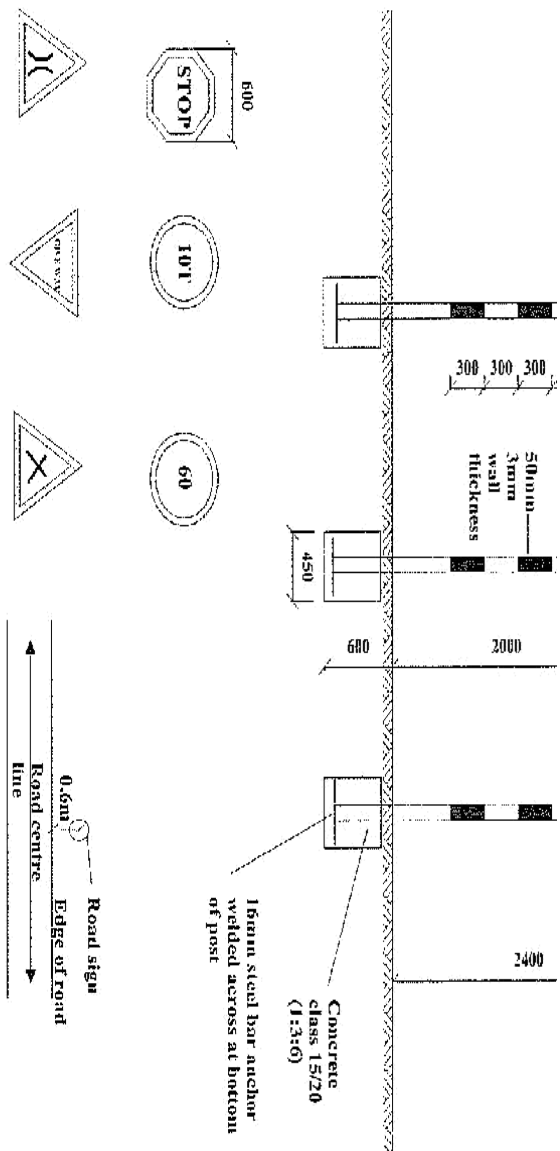


3. EDGE BEAM SECURED AND LARGE STONES LAID ON EDGE



4. LARGE STONES WEDGED WITH SMALLER ONES THEN BLINDED

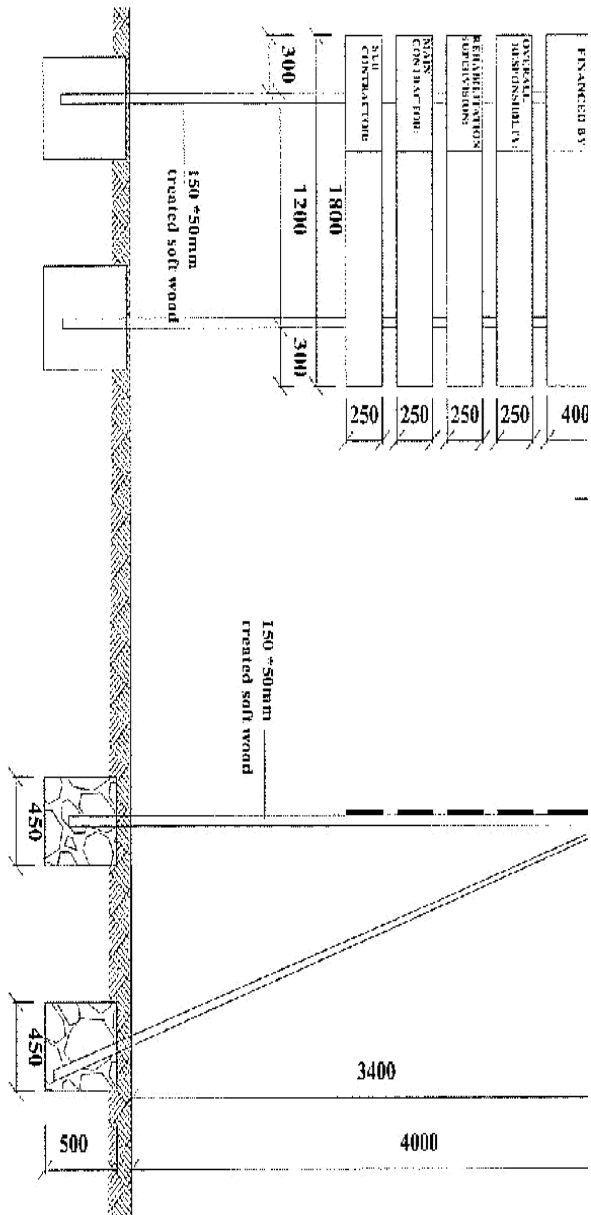




# KEY

BLACK WHITE RED

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



WHITE  
BLACK

#### NOTES

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

## **PREAMBLE TO BILLS OF QUANTITIES**

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

## **BILLS OF QUANTITIES**

**(As Generated from RMS)**

Code C256

**Package: KeRRA/011/GSA/39/030/2020-2021**

Section Name

0

| Bill of Quantities |                                                                                    |        |          |                    | Page: 1    |
|--------------------|------------------------------------------------------------------------------------|--------|----------|--------------------|------------|
| Bill No.1          | General: Office administration and overheads/Preliminaries                         |        |          |                    | Project:   |
| Item No.           | Description                                                                        | Units  | Quantity | Unit Bid Rate(Ksh) | Amount KSh |
| 01-80-030          | Allow a prime cost for attendance to the RE,s supervisory staff including overtime | PC SUM | 193258   | 1.00               | 193,258.00 |
|                    |                                                                                    |        |          |                    | -          |
|                    |                                                                                    |        |          |                    |            |
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|                    |                                                                                    |        |          |                    | -          |
|                    | Total Carried Forward to Summary:                                                  |        |          |                    | 193,258.00 |

Section Name

Contractor

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| Bill of Quantities |                                   |       |          |                    |            |
|--------------------|-----------------------------------|-------|----------|--------------------|------------|
|                    |                                   |       |          |                    | Page: 2    |
| Bill No.4          | SITE CLEARANCE                    |       |          |                    | Project:   |
| Item No.           | Description                       | Units | Quantity | Unit Bid Rate(Ksh) | Amount KSh |
| 04-50-004          | Light Bush Clearing               | M²    | 200000   |                    |            |
|                    |                                   |       |          |                    |            |
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|                    | Total Carried Forward to Summary: |       |          |                    |            |



**Package: KeRRA/011/GSA/39/030/2020-2021**

Dubadubeisa - Ruqa

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