



## **KENYA RURAL ROADS AUTHORITY**

**TAITA – TAVETA REGION**

### **ROUTINE MAINTENANCE WORKS ON THE D537TAVETA –MADARASANI ROAD (E 3059)**

**(TAVETA CONSTITUENCY)**

**ROAD NUMBER: E 3059**

**ROAD NAME: D537 TAVETA– MADARASANI**

**TENDER NUMBER:KeRRA/011/TTVT/39/051/2018-2019**

#### **BID DOCUMENT FOR SPOT IMPROVEMENT**

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

**(AGPO – YOUTH)**

**AUGUST, 2019**

#### **The Engineer**

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

#### **The Employer**

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

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**SECTION I: INVITATION FOR TENDERS**

Tender reference No. **KeRRA/011/TTVT/39/051/2018-2019**

Tender Name: **D537 TAVETA – MADARASANI ROAD (E 3059)**

- 1.1 Kenya Rural Roads Authority invites sealed tenders for the construction works on the **D537 Taveta – Madarasani Road (E 3059)**, scope of works includes (Gravel Patching)
- 1.2 Interested eligible candidates may obtain further information and inspect tender documents at KeRRA -Taita-Taveta Regional Offices, P.O. Box 131-80300 Voi, in Voi Town. Along the C107 Voi town loop during normal working hours and KeRRA website [www.kerra.go.ke](http://www.kerra.go.ke) and the IFMIS Suppliers portal [www.supplier.treasury.go.ke](http://www.supplier.treasury.go.ke).
- 1.3 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.
- 1.4 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 KeRRATaita – Taveta Regional Offices, along the C107 Voi Town Loop in Voi Town or to be addressed to The Regional Manager, KeRRATaita – Taveta, P.O. Box 131 -80300, Voiso as to be received on or before the date stated in the Tender notice..
- 1.5 Tenders will be opened immediately thereafter in the presence of the candidates or their representatives who choose to attend at KeRRA, Taita – Taveta Regional Offices in Voi Town, P.O. Box 131 – 80300, Voi.

**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) Certified Copies of certificates of registration, and principal place of business;
    - (b) total monetary value of construction work performed for each of the last three years;
    - (c) Experience in works of a similar nature and size for each of the last two years, and clients who may be contacted for further information on these contracts;
    - (d) Major items of construction equipment owned/proof of lease letter;
    - (e) Qualifications and experience of key site management and technical personnel proposed for the Contract;
    - (f) Audited accounts for the last 2 years
    - (g) Authority to seek references from the Tenderer's bankers.
    - (h) Registration with National Construction Authority for the applicable class for Roadworks valid at the date of tender of submission
    - (i) Certified copy Certificate of Incorporation
    - (j) PIN/VAT Registration Certificate
    - (k) Certified copy of valid current Tax compliance certificate.
    - (l) Certified copy of NCA 7 or 8 certificate and annual practising license.
    - (m) Current litigation information (Provide Sworn affidavit)
    - (n) For AGPO Tenders the following should be provided with the bid, Certified copies of Certificate for Small works and Engineering, certified copy CR12 for recent 12 Months and certified copy of National ID or National Passport of the Directors of the firm.
    - (o) The Persons Living with Disabilities must attach copies of Directors IDs from the NCPWD who are Disabled (Certified Copy).
  - 1.3 The Tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible or liable for those costs.
  - 1.4 The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Tenderer's own expense.
  - 1.5 The procurement entity's employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender.

- 1.6 The tender documents can be available for inspection and downloading **free of charge** from KeRRA website [www.kerra.go.ke](http://www.kerra.go.ke).
- 1.8 The estimated cost for these works is **FourMillion, FourHundred Thousandonly. (4,400,000.00)**

## **2. Tender Documents**

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

## **3. Preparation of Tenders**

- 3.1 All documents relating to the tender and any correspondence shall be in English Language.

- 3.2 The tender submitted by the Tenderer shall comprise the following:-
- (a) The Tender;
  - (b) Tender Security;
  - (c) Priced Bill of Quantities for lump-sum Contracts
  - (d) Any other materials required to be completed and submitted by Tenderers.
- 3.3 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items for which no rate or price is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. All duties, taxes and other levies payable by the Contractor under the Contract, as of 30 days prior to the deadline for submission of tenders, shall be included in the tender price submitted by the Tenderer.
- 3.4 The rates and prices quoted by the Tenderer shall not be subject to any adjustment during the performance of the Contract.
- 3.5 The unit rates and prices shall be in Kenya Shillings.
- 3.6 Tenders shall remain valid for a period of **One Twenty (120)** days from the date of submission. However in exceptional circumstances, the Employer may request that the Tenderers extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing.
- 3.7 The Tenderer shall prepare one original of the documents comprising the tender documents as described in these Instructions to Tenderers.
- 3.8 The original shall be typed or written in indelible ink and shall be signed by a person or persons duly authorised to sign on behalf of the Tenderer. All pages of the tender where alterations or additions have been made shall be initialed by the person or persons signing the tender.
- 3.9 Clarification of tenders shall be requested by the tenderer to be received by the procuring entity not later than 7 days prior to the deadline for submission of tenders.
- 3.10 The procuring entity shall reply to any clarifications sought by the tenderer within **7 days** of receiving the request to enable the tenderer to make timely submission of its tender.

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

- 4.1 The tender duly filled and sealed in an envelope shall;-
- a) be addressed to the Employer at the address provided in the invitation to tender;

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

Only one tender may be submitted by each tenderer. Any tenderer who fails to comply with this requirement will be disqualified.
- 4.4 Any tender received after the deadline for opening tenders will be returned to the tenderer un-opened.
- 4.5 The Employer may extend the deadline for submission of tenders by issuing an amendment in accordance with sub-clause 2.5 in which case all rights and obligations of the Employer and the Tenderers previously subject to the original deadline will then be subject to the new deadline.

## **5. Tender Opening and Evaluation**

- 5.1 The tenders will be opened in the presence of the Tenderers' representatives who choose to attend at the time and in the place specified in the invitation to tender.
- 5.2 The Tenderers' names, the total amount of each tender and such other details as may be considered appropriate, will be announced at the opening by the Employer. Minutes of the tender opening, including the information disclosed to those present will also be prepared by the Employer.
- 5.3 Information relating to the examination, clarification, evaluation and comparison of tenders and recommendations for the award of the Contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence the Employer's officials, processing of tenders or award decisions may result in the rejection of his tender.
- 5.4 Tenders determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows:
  - (a) where there is a discrepancy between the amount in figures and the amount in words,

the amount in words will prevail; and

- (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will prevail, unless in the opinion of the Employer's representative, there is an obvious typographical error, in which case the adjustment will be made to the entry containing that error.
- (c) In the event of a discrepancy between the tender amount as stated in the Form of Tender and the corrected tender figure in the main summary of the Bill of Quantities/Quotation, the amount as stated in the Form of Tender shall prevail.
- (d) The Error Correction Factor shall be computed by expressing the difference between the tender amount and the corrected tender sum as a percentage of the Corrected Builder's Work (i.e. corrected tender sum less P.C. and Provisional Sums).
- (e) The Error Correction Factor shall be applied to all Builder's Work (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuation of variations.
- (f) The amount stated in the tender will be adjusted in accordance with the above procedure for the correction of errors and with concurrence of the Tenderer, shall be considered as binding upon the Tenderer. If the Tenderer does not accept the corrected amount, the tender may be rejected and the Tender Security forfeited.

- 5.5 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.
- 5.6 Contract price variations shall not be allowed for contracts not exceeding one year (12 months)
- 5.7 Where contract price variation is allowed, the valuation shall not exceed 25% of the original contract price.
- 5.8 Price variation requests shall be processed by the procuring entity within 30 days of receiving the request.
- 5.9 To assist in the examination, evaluation, and comparison of tenders, the Employer at his discretion, may request [in writing] any Tenderer for clarification of the tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, telex or facsimile but no change in the tender price or substance of the tender shall be sought, offered or permitted.
- 5.10 The Tenderer shall not influence the Employer on any matter relating to his tender from the time of the tender opening to the time the Contract is awarded. Any effort by the Tenderer to influence the Employer or his employees in his decision on tender evaluation, tender comparison or Contract award may result in the rejection of the tender.

## **6. Award of Contract**

- 6.1 The award of the Contract will be made to the Tenderer who has offered the lowest responsive 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>- Copy of certified Certificate of incorporation of registration of firm to show that the applicant is a registered company and legally authorised to do business in Kenya (Certified by Commissioner of Oaths only)</li> <li>- Proof of registration with the National Construction Authority for NCA 7 or 8 (certified copies) by Commissioner of oaths</li> </ul> | Must meet requirement   | Refer to standard form section 7 |

| Qualification Criteria |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Compliance Requirements                             | Documentation                    |
|------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------|
| No.                    | Subject                             | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Single Entity                                       | Submission Requirements          |
| 2.1                    | History of Non-Performing Contracts | Non-performance of a contract did not occur within the last <b>two (2)</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. (Sworn affidavit) | 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. (Provide Sworn Affidavit) (Commissioner of Oaths)                                                                                                                                                                                                                                   | 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 or if not required by the law of the applicant's country, other financial statements acceptable to the Employer, for the last two [2] years to                                                                                                                                                                                                                                                                         | Must meet requirement                               | Refer to standard form section 7 |

| Qualification Criteria |                                      |                                                                                                                                                                                                                                       | Compliance Requirements                                    | Documentation                    |
|------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------|
| No.                    | Subject                              | Requirement                                                                                                                                                                                                                           | Single Entity                                              | Submission Requirements          |
|                        |                                      | demonstrate:<br>(a) the current soundness of the applicants financial position and its prospective long term profitability, and<br>(b) Capacity to have a cash flow amount of min Kshs. 2.5 Million or supported with line of credit. | (a) Must meet requirement<br><br>(b) Must meet requirement |                                  |
| 3.2                    | Average Annual Construction Turnover | Minimum average annual construction turnover of Kshs. 3 Million, calculated as total certified payments received for contracts in progress or completed, within the last 2years.                                                      | 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 Two (2) Years prior to the applications submission deadline.                                         | Must meet requirement                                      | Refer to standard form section 7 |

| Qualification Criteria |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                      | Compliance Requirements                                                               | Documentation                    |
|------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|
| No.                    | Subject                          | Requirement                                                                                                                                                                                                                                                                                                                                                                                                          | Single Entity                                                                         | Submission Requirements          |
| 4.2(a)                 | Specific Construction Experience | Participation as contractor, management contractor or subcontractor, in at least Two (2) No. contracts within the last Two (2) Years, 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. (Not Mandatory for AGPO Bids). | 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> </ul>                                                                                                                                  | Must meet requirements                                                                | Refer to standard form section 7 |
| 4.3                    | Work Methodology                 | Submission of a brief work methodology                                                                                                                                                                                                                                                                                                                                                                               | Should demonstrate understanding of the scope of works and other general requirements | Refer to standard form section 7 |

| Qualification Criteria       |                             |                                                                                                                                                                           | Compliance Requirements   | Documentation                    |
|------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------|
| No.                          | Subject                     | Requirement                                                                                                                                                               | Single Entity             | Submission Requirements          |
| <b>5. Equipment Holding</b>  |                             |                                                                                                                                                                           |                           |                                  |
| 5.1                          | Minimum number of Equipment | The bidder must indicate the minimum the core plant and equipment considered by the company to be necessary for undertaking the project together with proof of ownership. | Must meet the requirement | Refer to standard form section 7 |
| <b>6. Current Commitment</b> |                             |                                                                                                                                                                           |                           |                                  |
| 6.1                          | On-going contracts          | Must state the Ongoing works and should not exceed Two (2) in number.                                                                                                     | Must meet requirements    |                                  |
| <b>7. Site Staff</b>         |                             |                                                                                                                                                                           |                           |                                  |
| 1                            | Site Agent                  | The site staff shall possess minimum levels set below;<br><br>Qualification = Diploma in Civil Engineering<br>General Experience = 3yrs<br>Specific Experience = 2Yrs     | Must meet requirements    | Refer to guideline notes         |
| 2                            | Foreman                     | Qualification = Certificate from KIHBIT/equivalent<br>General Experience = 3yrs                                                                                           |                           |                                  |

| Qualification Criteria |         |                           | Compliance Requirements | Documentation           |
|------------------------|---------|---------------------------|-------------------------|-------------------------|
| No.                    | Subject | Requirement               | Single Entity           | Submission Requirements |
|                        |         | Specific Experience =2yrs |                         |                         |

**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 authorised by the Employer's Representative, access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

## **8 Instructions**

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

## **9 Extension of Completion Date**

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

Delay by:-

- a) force majeure, or
- b) reason of any exceptionally adverse weather conditions, or
- c) reason of civil commotion, strike or lockout affecting any of the trades employed upon the Works or any of the trades engaged in the preparation, manufacture or transportation of any of the goods or materials required for the Works, or
- d) reason of the Employer's Representative's instructions issued under these Conditions, or
- e) reason of the contractor not having received in due time necessary instructions, drawings, details or levels from the Employer's Representative for which he specifically applied in writing on a date which having regard to the date for Completion stated in the appendix to these Conditions or to any extension of time then fixed under this clause was neither unreasonably distant from nor unreasonably close to

the date on which it was necessary for him to receive the same, or

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

## **10 Management Meetings**

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

## **11 Defects**

- 11.1 The Employer's Representative shall inspect the Contractor's work and notify the Contractor of any defects that are found. Such inspection shall not affect the Contractor's responsibilities. The Employer's Representative may instruct the Contractor to search for a defect and to uncover and test any Work that the Employer's Representative considers may have a defect. Should the defect be

found, the cost of uncovering and making good shall be borne by the Contractor. However if there is no defect found, the cost of uncovering and making good shall be treated as a variation and added to the Contract Price.

11.2 The Employer's Representative shall give notice to the Contractor of any defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the Appendix to Form of Agreement.

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

## **12 Bills of Quantities**

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

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

## **13 Variations**

13.1 The Contractor shall provide the Employer's Representative with a quotation for carrying out the variations when requested to do so. The Employer's Representative shall assess the quotation and shall obtain the necessary authority from the Employer before the variation is ordered.

13.2 If the Work in the variation corresponds with an item description in the Bill of Quantities, the rate in the Bill of Quantities shall be used to calculate the value of the variation. If the nature of the Work in the variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of Work.

13.3 If the Contractor's quotation is unreasonable, the Employer's Representative may order the variation and make a change to the Contract Price, which shall be based on the Employer's Representative's own forecast of the effects of the

variation on the Contractor's costs.

## **14 Payment Certificates and Final Account**

14.1 The Contractor shall be paid after each of the following stages of Worklisted herebelow (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 forshowing 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 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.

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]

**PERFORMANCE BANK GUARANTEE**

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

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

Dear Sir,

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

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

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

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

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

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

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

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

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

Address \_\_\_\_\_

Date \_\_\_\_\_

**FORM OF AGREEMENT**

**THIS AGREEMENT** is made on the .....day of ..... 2019 between the **Kenya Rural Roads Authority, of P.O. BOX 48151 - 00100, Nairobi, Kenya or his representative** hereinafter called the “**Employer**” on the one part and -----  
-----hereinafter called the “**Contractor**” of the other part.

**WHEREAS** the Employer is desirous that certain works should be executed, on  
**THE D537 TAVETA– MADARASANI ROAD (E 3059)** at  
Kshs.....  
.....

And has accepted a Bid by the Contractor to execute, complete and maintain such works **NOW THIS AGREEMENT WITNESSETH as follows:**

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

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

The said BID dated -----

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

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

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

The Employer hereby covenants to pay the Contractor in consideration of the execution, completion and maintenance of the Works at the Contract Price or such

other sum as may become payable under the Contract at the times and in the manner prescribed by the Contract.

**SIGNED AND DELIVERED**

By the said Employer: .....

Signature: .....

Region: **TAITA - TAVETA**

(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:.....

**SECTION V: APPENDIX TO FORM OF AGREEMENT**

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

| <b>Item</b>                                       | <b>Data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time for Completion                               | 3 Months,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Bid Security                                      | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Priority of Documents                             | The documents forming the Contract shall be interpreted in the following order of priority: <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                      | The Director General<br>Kenya Rural Roads Authority<br>P.O. Box 48151-00100<br><b>Nairobi</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Authorised Person                                 | The Director(Road Asset Management),<br>Kenya Rural Roads Authority<br>P.O. Box 48151-00100<br><b>Nairobi</b>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Name and Address of the Engineer's Representative | The Deputy Director, Taita-Taveta Region<br>Kenya Rural Roads Authority<br>P. O. Box 131-80300,<br><b>(Taita - Taveta Region)</b>                                                                                                                                                                                                                                                                                                                                                                                                      |

| <b>Item</b>                                                         | <b>Data</b>                                                                                                 |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Penalty to the Contractor for Employer paying workers on his behalf | 10% of the amount paid to the workers.                                                                      |
| Performance Security                                                | (N/A to contracts Less than 6 Million)                                                                      |
| Amount                                                              | 5% of sum stated as the Contract Price                                                                      |
| Form                                                                | Bank Guarantee or Insurance Bond issued by PPOA approved insurance companies                                |
| Requirements of Contractors Design                                  | Not applicable                                                                                              |
| Programme<br>⇒ Time of Submission                                   | Within 14 days of Commencement Date                                                                         |
| ⇒ Form of Programme                                                 | Bar Chart                                                                                                   |
| ⇒ Interval Updates                                                  | As requested by the Regional Manager                                                                        |
| Liquidated Damages<br>Amount payable due to failure to complete     | 0.01% of Contract Price per Day to a limit of 1% of Contract Price.                                         |
| Defects Liability                                                   | Refer to guideline Notes                                                                                    |
| Period of notifying defects                                         | 90 days calculated from the date stated in the notice under sub clause 11.2                                 |
| Percentage of Retention                                             | Refer to guideline Notes                                                                                    |
| Maximum Amount of Advance Payment                                   | 10% of Contract Sum                                                                                         |
| Form of Guarantee for Advance Payment                               | Bank Guarantee                                                                                              |
| Valuation of Works                                                  | Re-measurements with Bills of Quantities                                                                    |
| Repayment Schedule for Advance Payment                              | 33 % instalments from 1 <sup>st</sup> three certificates.                                                   |
| Minimum Amount of Interim Payment                                   | Kshs 2,000,000.00 for contracts up to 20million and 10% of the contracts sum for contracts above 20million. |

| <b>Item</b>                                                                                                                                                                                                      | <b>Data</b>                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Currency of Payment                                                                                                                                                                                              | Kenya Shilling                                                                                                                                                         |
| Rate of Interest                                                                                                                                                                                                 | Simple Interest at a rate of 2% above mean Base Lending Rate as issued by the Central Bank of Kenya.                                                                   |
| Insurance                                                                                                                                                                                                        | Required                                                                                                                                                               |
| Insurance<br><br>⇒ The Works, materials plants & fees- Contractor's All risks<br><br>⇒ Third party injury to persons and damage to property<br><br>⇒ Workers compensation (WIBA- workers injury benefits policy) | Amount of Cover<br><br>The Contract Price stated in the Agreement +15%replacement cost of equipment on site.<br><br>As per work injury benefits act 2007 laws of Kenya |
| Arbitration<br>⇒ Rules<br>⇒ Appointing Authority<br>⇒ Place of Arbitration                                                                                                                                       | CAP 49 of the Laws of Kenya<br>Chairman Chartered Institute of Arbitrators, Kenya Branch.<br>Kenya Rural Roads Authority, Headquarters                                 |

**QUALIFICATION INFORMATION**

**TENDER QUESTIONNAIRE**

Please fill in block letters.

1. Full name of Tenderer;

.....

2. Full address of Tenderer to which Tender correspondence is to be sent (unless an agent has been appointed below);

.....

3. Telephone number (s) of Tenderer;

.....

4. Facsimile of Tenderer;

.....

5. Name of Tenderer's representative to be contacted on matters of the Tender during the Tender period;

.....

6. Details of Tenderer's nominated agent (if any) to receive Tender notices (name, address, telephone, telefax);

.....

.....

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

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

**CONFIDENTIAL BUSINESS QUESTIONNAIRE**

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

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

**Part 1 – General**

Business Name .....

Location of business premises; Country/Town.....

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

Postal Address..... Tel No.....

Nature of Business.....

Current Trade Licensee No..... Expiring date.....

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

Name of your Bankers.....

Branch.....

**Part 2 (b) – Partnership**

Give details of partners as follows:

| Name in full | Nationality | Citizenship Details | Shares |
|--------------|-------------|---------------------|--------|
|--------------|-------------|---------------------|--------|

|        |  |  |  |
|--------|--|--|--|
| 1..... |  |  |  |
|--------|--|--|--|

|        |  |  |  |
|--------|--|--|--|
| 2..... |  |  |  |
|--------|--|--|--|

|        |  |  |  |
|--------|--|--|--|
| 3..... |  |  |  |
|--------|--|--|--|

**Part 2(c) – Registered Company:**

Private or public.....

State the nominal and issued capital of the Company-

Nominal Kshs.....

Issued Kshs.....

Give details of all directors as follows:

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

|        |  |  |  |
|--------|--|--|--|
| 1..... |  |  |  |
|--------|--|--|--|

|        |  |  |  |
|--------|--|--|--|
| 2..... |  |  |  |
|--------|--|--|--|

|        |  |  |  |
|--------|--|--|--|
| 3..... |  |  |  |
|--------|--|--|--|

|        |  |  |  |
|--------|--|--|--|
| 4..... |  |  |  |
|--------|--|--|--|

**Part 2(d) – Interest in the Firm:**

Is there any person / persons in .....(Name of Employer)who

has interest in this firm? Yes/No..... (Delete as necessary)

I certify that the information given above is correct.

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

\* Attach proof of citizenship

**SCHEDULE OF LABOUR: - BASIC RATES**

**(Reference: Clause 4 of Conditions of Particular Application)**

| <b>LABOUR<br/>CATEGORY</b> | <b>UNIT<br/>(MONTH/SHIFT/HOUR)</b> | <b>RATES</b> |
|----------------------------|------------------------------------|--------------|
|                            |                                    |              |

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.

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. Foreman<br><br>3.<br><br>4. |      |             |                                          |

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

| <b>Item No.</b> | <b>Equipment Details</b>                       | <b>Minimum Number Required</b> | <b>No of Equipment Owned by the Bidder</b> | <b>No. of equipment to be hired</b> |
|-----------------|------------------------------------------------|--------------------------------|--------------------------------------------|-------------------------------------|
| 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               | Tipper 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 WORKS AND CLIENT | TOTAL VALUE OF WORKS (KSHS) | CONTRACT PERIOD (YEARS) | YEAR COMPLETED |
|---------------------------------|-----------------------------|-------------------------|----------------|
|                                 |                             |                         |                |

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

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

**SCHEDULE OF ONGOING PROJECTS**

| DESCRIPTION OF<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**

To \_\_\_\_\_ Date \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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**

**Tender Document for Road E 3059: D537 Taveta – Madarasani; Taveta Constituency**

**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                          |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
|      |                                 | 1-2    | Works Execution Programme properly reflects the given specifications and site conditions                                                              |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
|      |                                 | 1-3    | Execution procedures are in accordance with Works Execution Programme                                                                                 |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
| 2    | Equipment holding               | 2-1    | All equipment used are properly mobilized in accordance with Works Execution Programme                                                                |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
|      |                                 | 2-2    | All equipment used is well maintained during the execution of works                                                                                   |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
| 3    | Contractor's in-house staff     | 3-1    | Qualified technical staff of contractor are properly assigned as specified in Works Execution Programme                                               |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
|      |                                 | 3-2    | Contractor's in-house key staff understand work process and schedule properly                                                                         |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
|      |                                 | 3-3    | Contractor's in-house staff give technical guidance and direction to workers and operators properly and timely                                        |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
|      |                                 | 3-4    | Communications with authority in writing is properly and timely                                                                                       |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
| 4    | Personnel employment            | 4-1    | Workers and operators are deployed in accordance with Works Execution Programme                                                                       |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
|      |                                 | 4-2    | Wage payment is properly made on time                                                                                                                 |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
| 5    | Site base facilities            | 5-1    | Office and stockyard are prepared in accordance with Works Execution Programme                                                                        |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
|      |                                 | 5-2    | Site is well maintained during the work execution and cleared on completion                                                                           |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
|      |                                 | 5-3    | Material stored on site is properly managed during the work execution                                                                                 |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |
| 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 |      |      |      |      |      |      |      |      |      |       |                                                                                                                                   |

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

**Tender Document for Road E 3059: D537 Taveta – Madarasani; Taveta Constituency**

**Supervision Check List (2/2)**

|                |  |
|----------------|--|
| Project Title: |  |
| Contractor:    |  |

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

|                                                     |           |
|-----------------------------------------------------|-----------|
| The Engineer's Representative<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                     | 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.                     |                  | <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"/> |                                                                                                                                   |         |  |
|      |                                     | 6-3         | Results of material testing, structural examination, and measurements are properly compiled as reports for confirmation |                  | <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"/>                                                                                                          |         |  |
| 7    | Work scheduling                     | 7-1         | Understanding of critical path and its reflection on scheduling are proper                                              |                  | <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"/> |                                                                                                                                   |         |  |
|      |                                     | 7-2         | Actual proceedings are periodically compared to the planned schedule described 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"/> |                                                                                                                                   |         |  |
|      |                                     | 7-3         | Changes caused by site conditions are properly handled to keep Works on schedule                                        |                  | <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"/> |                                                                                                                                   |         |  |
|      |                                     | 7-4         | All works are completed within the contract term or within the extended term as allowed                                 |                  |                          |                          |                          |                          |                          |                          |                          |                          |                          | <input type="checkbox"/>                                                                                                          |         |  |
| 8    | Work safety management              | 8-1         | No accident occurs to workers, operators, or third-parties.                                                             |                  | <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"/> |                                                                                                                                   |         |  |
|      |                                     | 8-2         | Safety of workers and operators is considered                                                                           |                  | <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"/> |                                                                                                                                   |         |  |
|      |                                     | 8-3         | Accident prevention efforts for third-parties are proper                                                                |                  | <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"/> |                                                                                                                                   |         |  |
|      |                                     | 8-4         | Traffic and site safety devices are properly installed and managed                                                      |                  | <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"/> |                                                                                                                                   |         |  |
|      |                                     | 8-5         | Temporary facilities (e.g. scaffolding) are constantly checked                                                          |                  | <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"/>                                                                                                          |         |  |
| 9    | Environmental and social management | 9-1         | Environmental and social mitigation efforts (e.g. against noise, vibration, emission, and dust ) are conducted          |                  | <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"/> |                                                                                                                                   |         |  |
|      |                                     | 9-2         | Waste material from site is properly disposed                                                                           |                  | <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"/>                                                                                                          |         |  |
|      |                                     | 9-3         | Damage to existing roads, works and services is avoided or are repaired when it occurs                                  |                  | <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"/>                                                                                                          |         |  |
|      |                                     | 9-4         | Transportation by vehicles is properly done with no overloading, and neither material falling, leakage, nor spillage.   |                  | <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

## **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**

### **Contents:**

|                                                   |                                                                     |             |
|---------------------------------------------------|---------------------------------------------------------------------|-------------|
| <b>SECTION 01:</b>                                | <b>PRELIMINARY AND GENERAL ITEMS.....</b>                           | <b>E-1</b>  |
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| <br>                                              |                                                                     |             |
| <b>SECTION 08 CULVERT AND DRAINAGE WORKS.....</b> |                                                                     | <b>E-15</b> |
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| <br>                                              |                                                                     |             |
| <b>SECTION 10 GRADING AND GRAVELLING.....</b>     |                                                                     | <b>E-29</b> |
| 10-80-008                                         | Excavation; Free Haul, Spreading and Compaction of Gravel-Equipment | E-34        |

## **SECTION 01 : PRELIMINARY AND GENERAL ITEMS**

Scope:

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

### **01-40-005      Publicity Sign Boards**

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

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

Quality Control

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

Measurement: Number

The unit of measurement shall be number of Sign Boards erected

Payment

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

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

## Scope

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

### **08-60-016/035 Concrete Pipe Culverts**

08-60-022 900 mm haunched (Type II)

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

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

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

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

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

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

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

## Work Method

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

## Quality Control

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

Measurement Unit: m

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

## Payment

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

## SECTION 10: GRADING AND GRAVELLING

### Scope:

Grading covers the work of the reinstating of the road carriageway to the correct camber by removing the high points and filling gullies, corrugations, and wheel ruts to restore a smooth running surface. Graveling consists of the excavation, loading, hauling, dumping and spreading of gravel wearing course material on the formation of the road carriageway. Gravel shall include lateritic gravel, quartzitic gravel, calcareous gravel, decomposed rock, soft stone coral rag, clayey sand and crushed rock.

The material may be obtained from quarries, borrow pits or excavation in cuttings as directed by the Engineer. Gravel material shall conform to the requirement given in Table 10.1

Table 10.1: Requirement for Gravel Wearing Course

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

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

| PLASTICITY INDEX REQUIREMENTS<br>PI |     |     |
|-------------------------------------|-----|-----|
| Zone                                | Min | Max |
| WET: Mean annual rainfall > 500mm   | 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.

### **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:

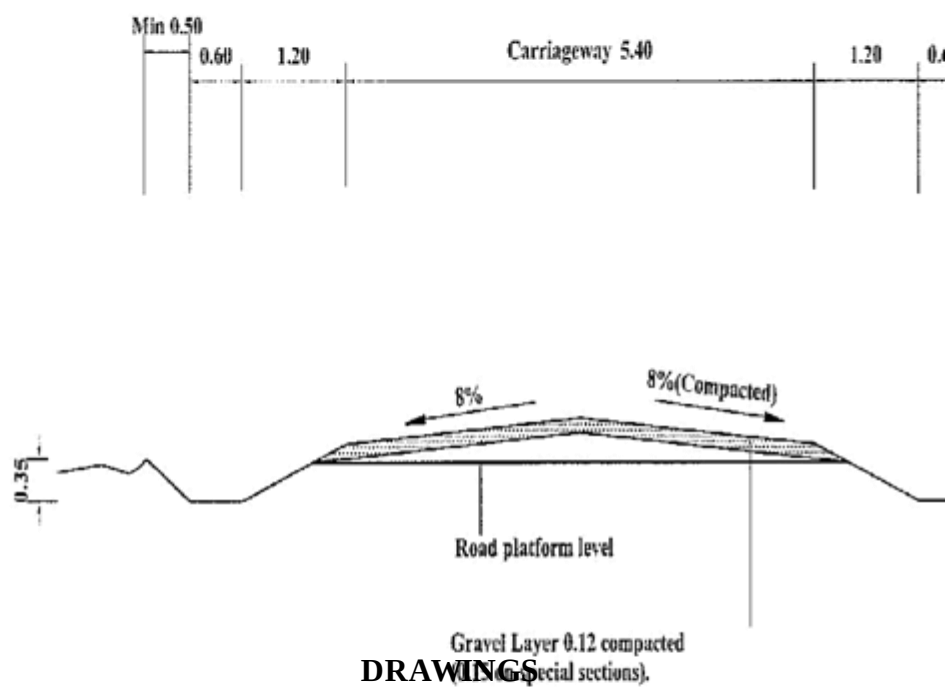
- The gravel surface width shall be checked at 100m intervals and shall have a tolerance of + / - 50mm
- Trial holes shall be dug as directed by the Engineer to check the gravel thickness and shall have a tolerance of + 5mm / - 0mm
- The camber shall be checked at 50m intervals and the maximum tolerance 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

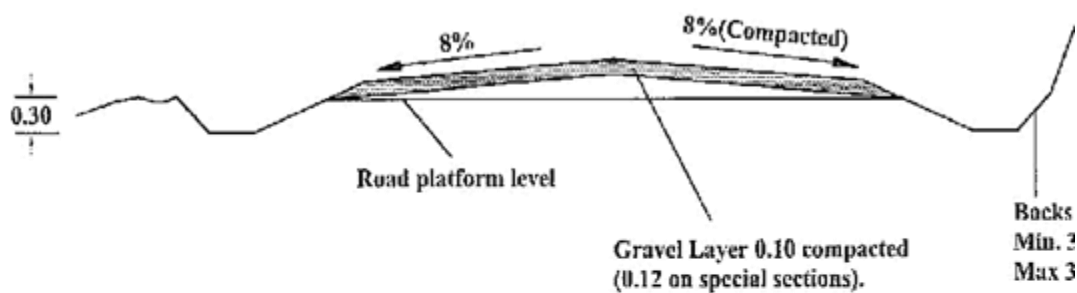
The unit rate shall be the full compensation for labour, tools, equipment and incidental costs required for carrying out the work.



## DRAWINGS

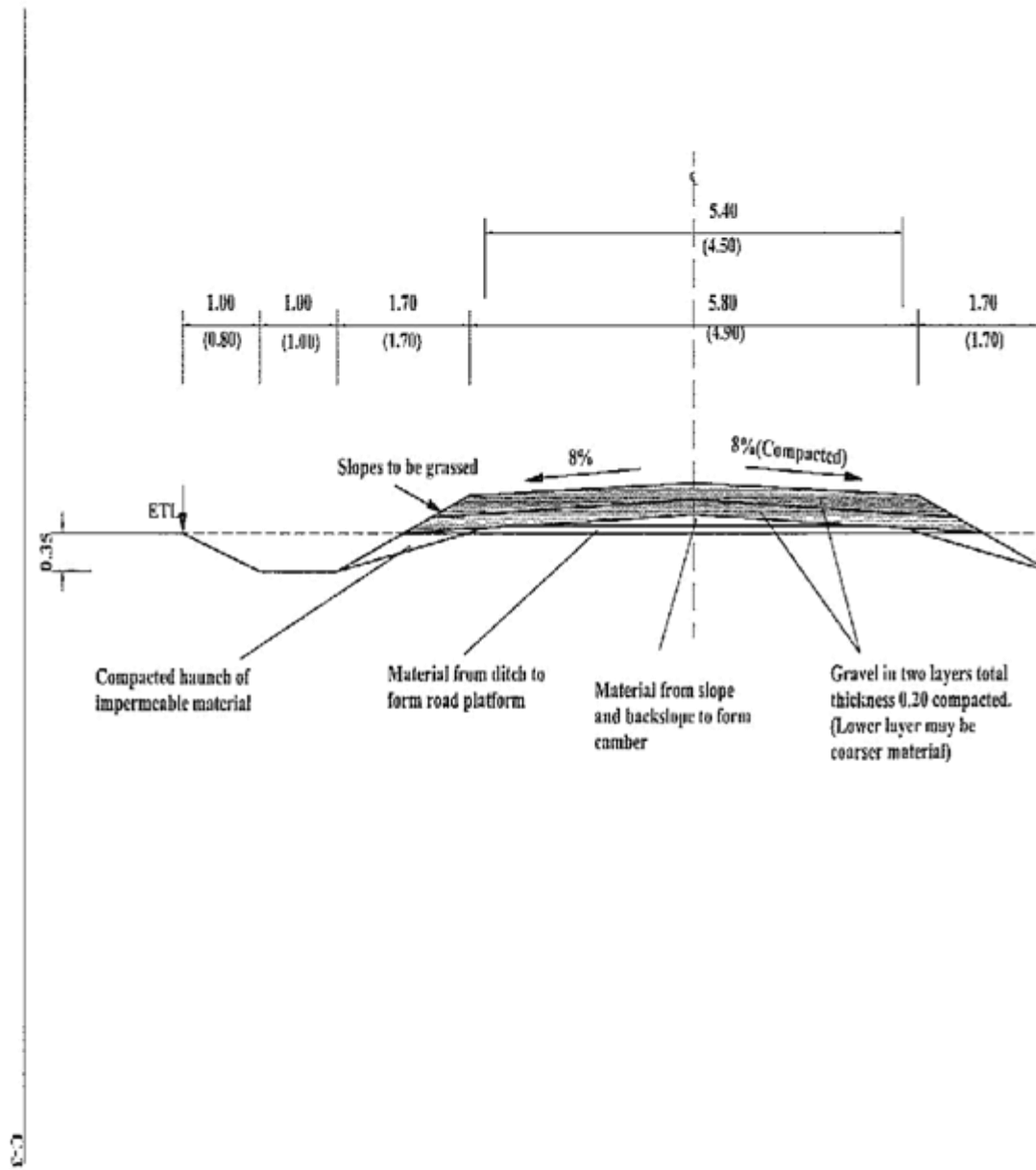
### Notes:

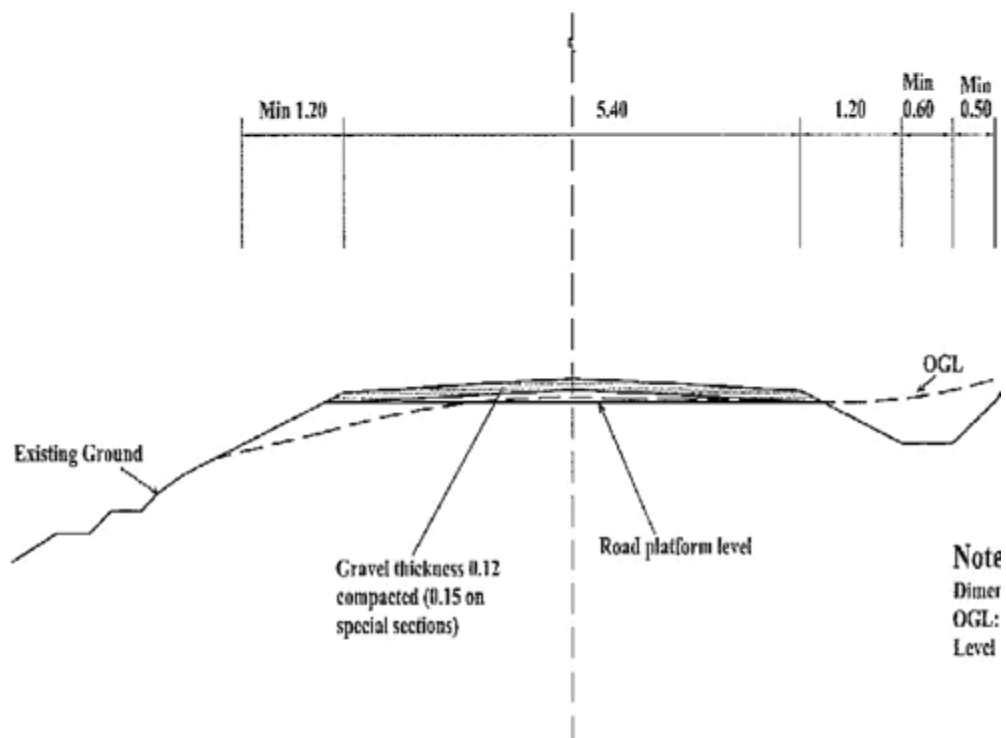
- 1.All dimensions in metres
- 2.Traffic levels of > 200vpd may justify a carriageway width of 6.0m
- 3.Gravel thickness may be increased as directed by the Engineer

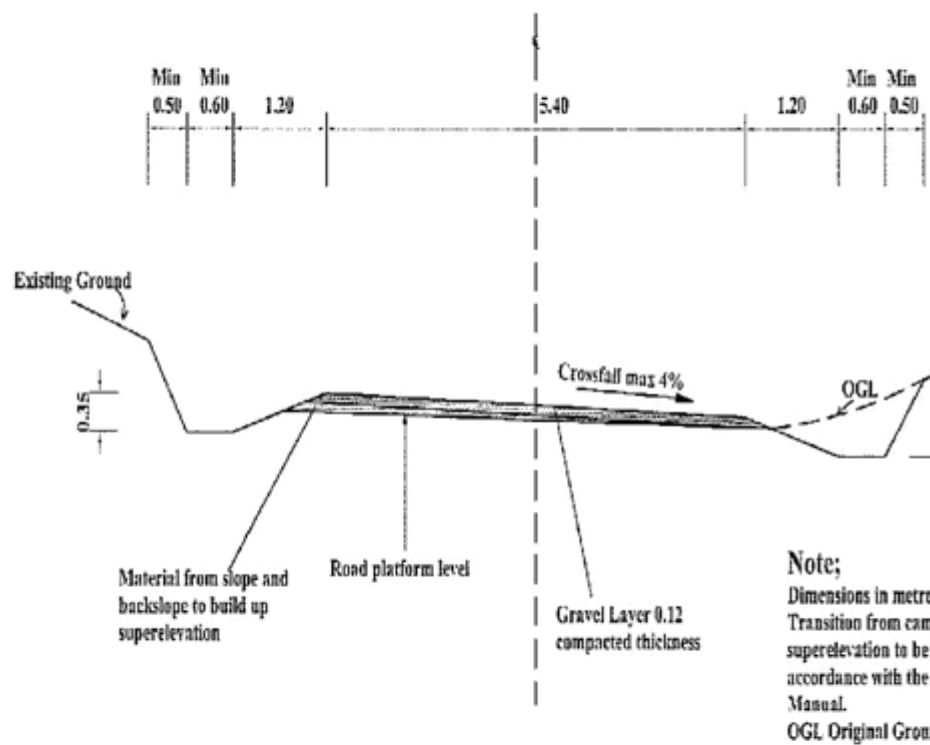


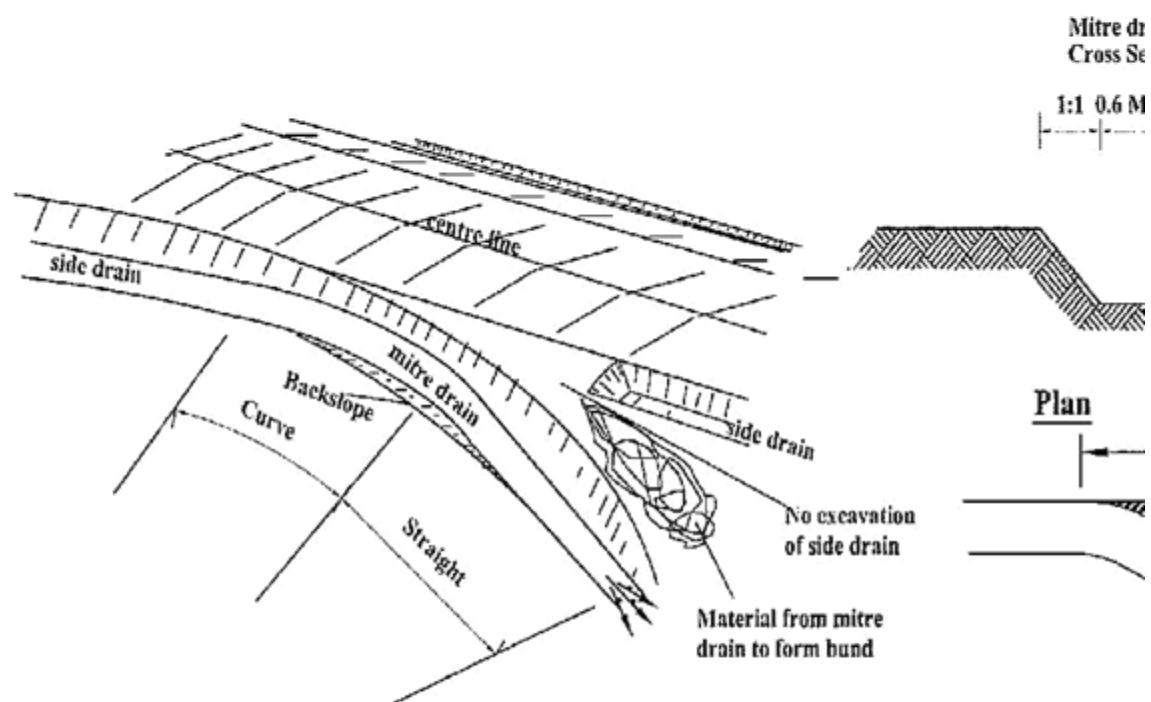
**Notes:**

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





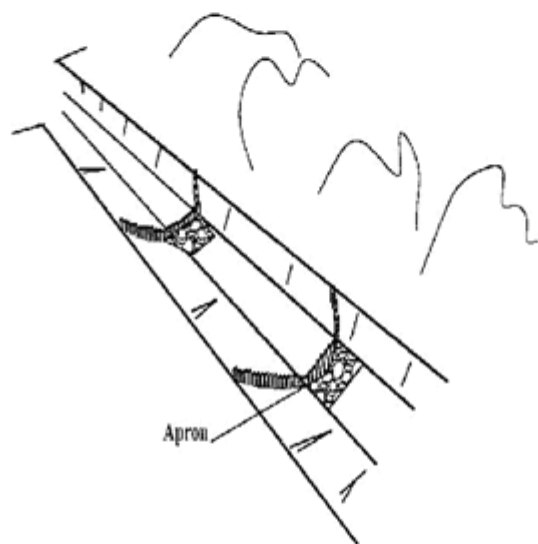




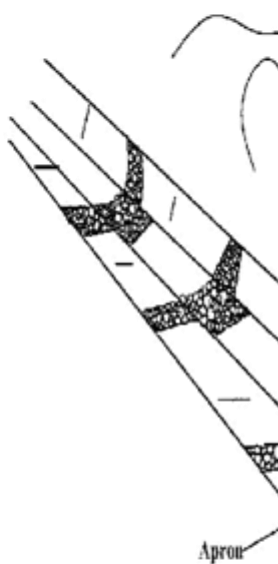
### Notes

Location, direction and length of the  
by the Engineer

Scour checks made of wooden stakes

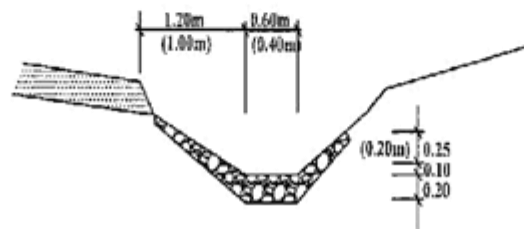


Scour checks made of stones

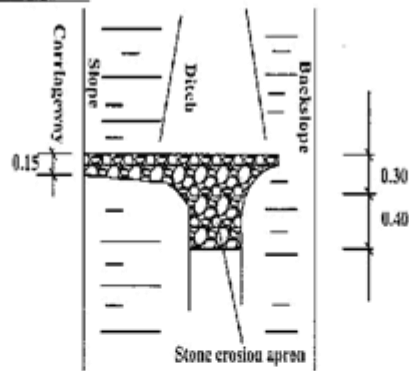


### Scour checks made of stones

#### Cross section



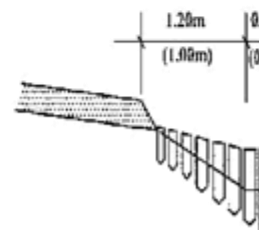
#### Ground plan



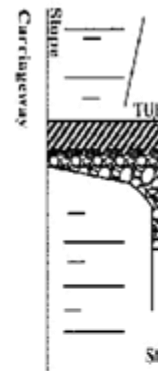
**NOTE**  
1. Dimensions in metres

### Scour checks made of stones

#### Cross section



#### Ground plan

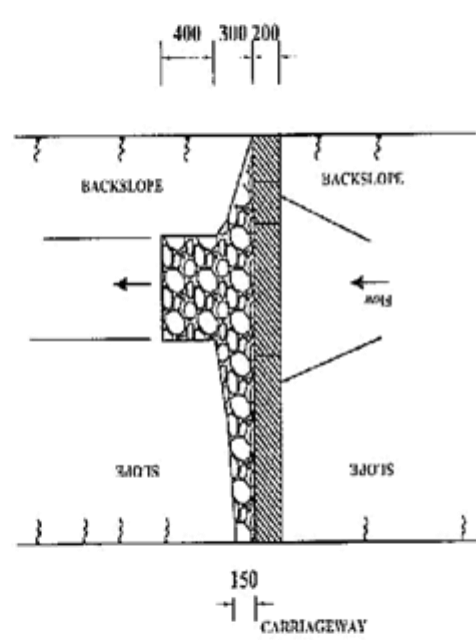


STONE WEIGHT: MIN 10KG  
STONE DIAMETER: MIN. 0.10



SECTION OF MASONRY SCOUR CHECK

Note  
1. Dimensions in mm

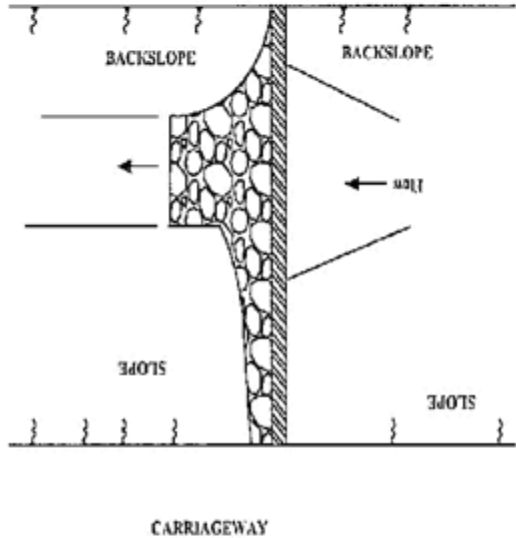


PLAN OF DRAIN WITH SCOUR CHECK

| Cross-Section | Sizes in mm |       |       | Rise (m) | Length (m) | Area (sqm) |
|---------------|-------------|-------|-------|----------|------------|------------|
|               | Length      | Width | Depth |          |            |            |
| A             | 2400        | 300   | 550   | 0.22     | 0.28       | 0.18       |
| B             | 2000        | 200   | 500   | 0.18     | 0.2        | 0.14       |

7

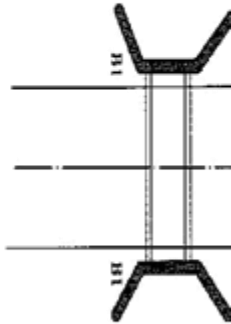
**SECTION OF CONCRETE SCOUR CHECK**



**NOTE**  
1. Dimensions in mm

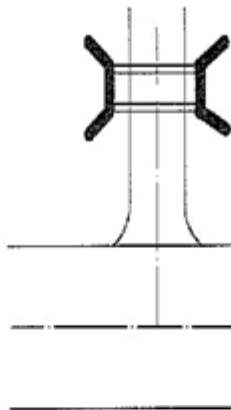
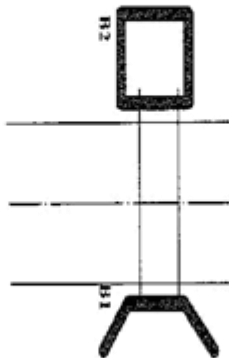
**PLAN OF DRAIN WITH SCOUR CHECK**

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



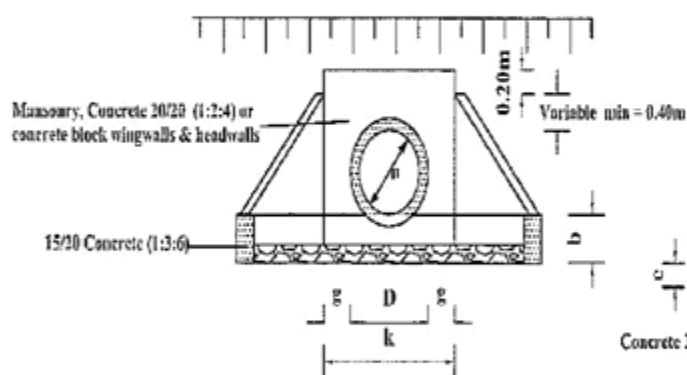
TYPE 2(ENTRY ONLY)

TYPE 4(ENTRY AND EXIT ON ACCESS)

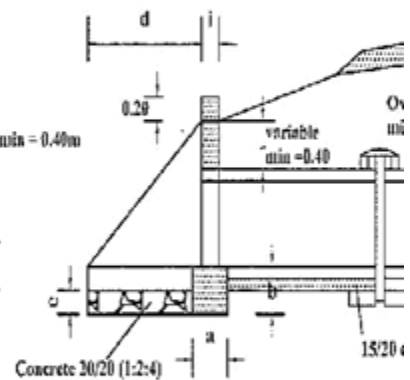


NOTE  
1. The curb numbers specify the shape and function and the code letter denotes the material:  
A =Concrete block  
B =Stone masonry  
C =Concrete

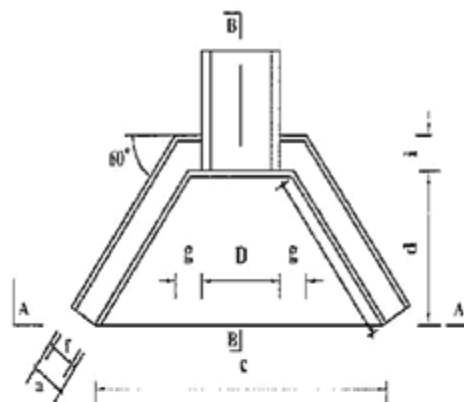
SECTION A-A



SECTION B-B



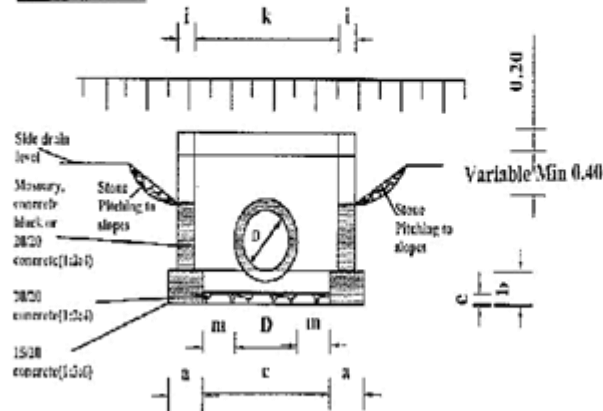
PLAN



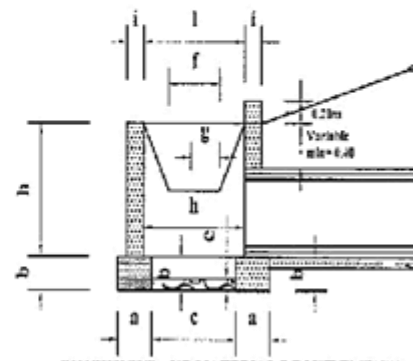
| CULVERT TYPES     |              |
|-------------------|--------------|
| X-SECTION WIDTH m | No. of pipes |
| 4.50              | 6            |
| 5.50              | 7            |
| 6.50              | 8            |

| PIPE DIAMETER IN M   | UNIT           | TYPE A and C CONCRETE BLA |      |
|----------------------|----------------|---------------------------|------|
|                      |                | 450                       | 600  |
| a                    | FOUNDATION     | 0.30                      | 0.30 |
| b                    | FOUNDATION     | 0.30                      | 0.30 |
| c                    | FOUNDATION     | 2.20                      | 2.35 |
| d                    | APRON          | 1.00                      | 1.00 |
| e                    | APRON          | 0.20                      | 0.20 |
| f                    | WALL           | 0.20                      | 0.20 |
| g                    | WALL           | 0.30                      | 0.30 |
| h                    | WALL           | 1.15                      | 1.15 |
| i                    | WALL           | 0.20                      | 0.20 |
| k                    | APRON          | 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 |

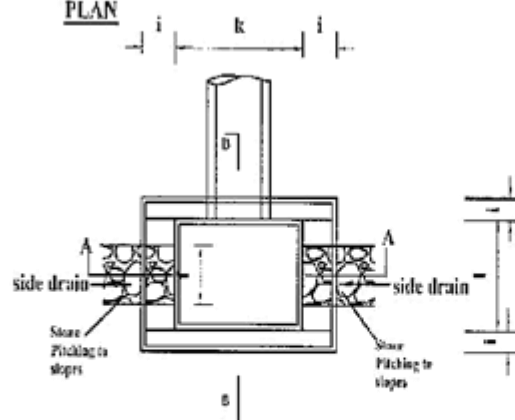
SECTION A-A



SECTION B-B



PLAN

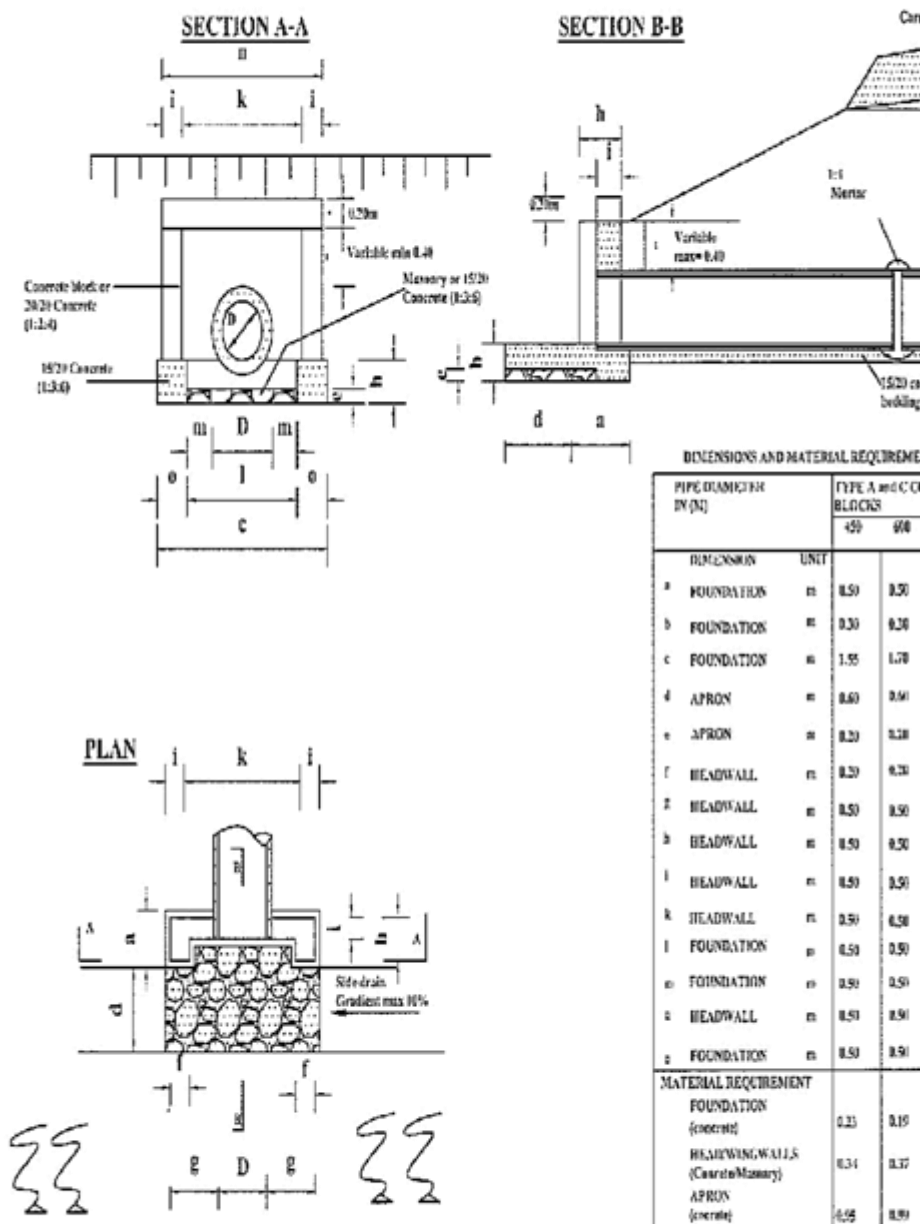


DIMENSIONS AND MATERIAL REQUIREMENTS

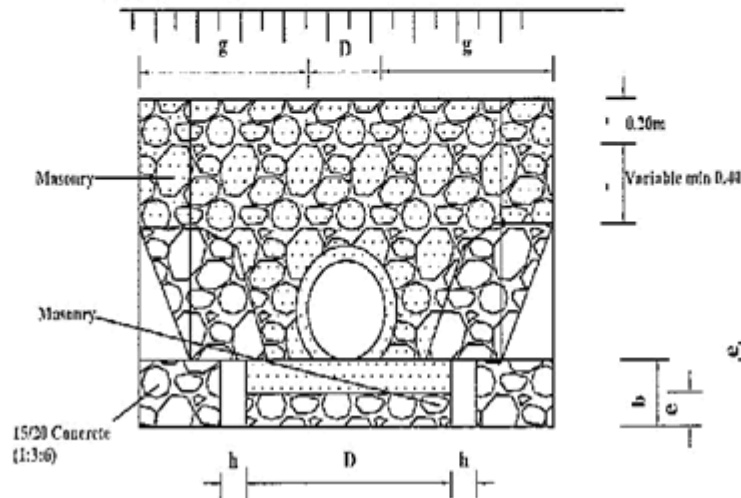
| PIPE DIAMETER<br>IN (M) | TYPE A CONCRETE<br>BLOCKS |      |      | TY<br>M <sup>2</sup> |
|-------------------------|---------------------------|------|------|----------------------|
|                         | 450                       | 600  | 900  |                      |
| DIMENSION               | UNIT                      |      |      |                      |
| a FOUNDATION            | m                         | 0.30 | 0.30 | 0.4                  |
| b FOUNDATION            | m                         | 0.30 | 0.30 | 0.3                  |
| c FOUNDATION            | m                         | 1.10 | 1.10 | 1.40                 |
| d APRON                 | m                         | 0.90 | 0.90 | 1.0                  |
| e APRON                 | m                         | 0.70 | 0.70 | 0.2                  |
| f DROP INLET            | m                         | 0.60 | 0.60 | 0.6                  |
| g DROP INLET            | m                         | 0.30 | 0.40 | 0.60                 |
| h DROP INLET            | m                         | 0.60 | 0.80 | 1.20                 |
| i DROP INLET            | m                         | 0.20 | 0.20 | 0.4                  |
| k DROP INLET            | m                         | 1.20 | 1.20 | 1.50                 |
| l DROP INLET            | m                         | 1.00 | 1.00 | 1.0                  |
| m DROP INLET            | m                         | 0.38 | 0.30 | 0.3                  |

MATERIAL REQUIREMENT

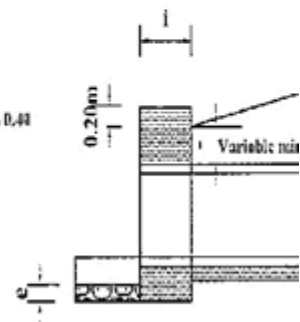
|                                      |                |      |      |      |     |
|--------------------------------------|----------------|------|------|------|-----|
| FOUNDATION<br>(concrete)             | m <sup>3</sup> | 0.47 | 0.47 | 0.52 | 0.7 |
| HEAD/WINGWALLS<br>(Concrete/Masonry) | m <sup>3</sup> | 0.50 | 0.72 | 1.15 | 1.2 |
| APRON (concrete)                     | m <sup>3</sup> | 0.24 | 0.24 | 0.30 | 0.2 |



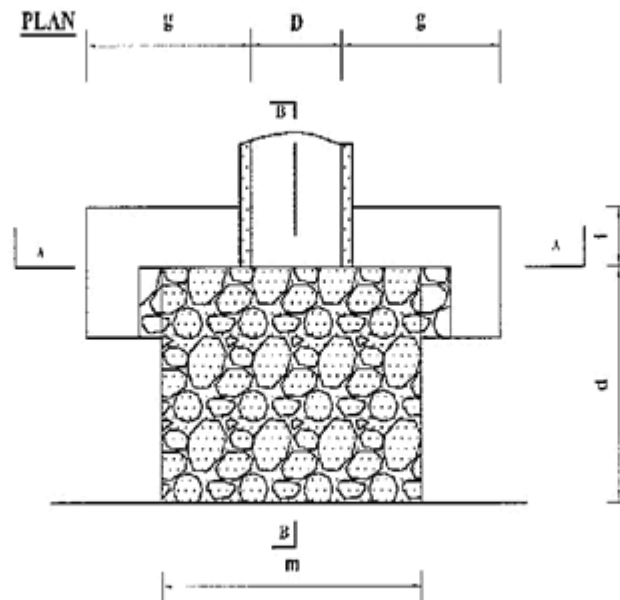
**SECTION A-A**



**SECTION B-B**

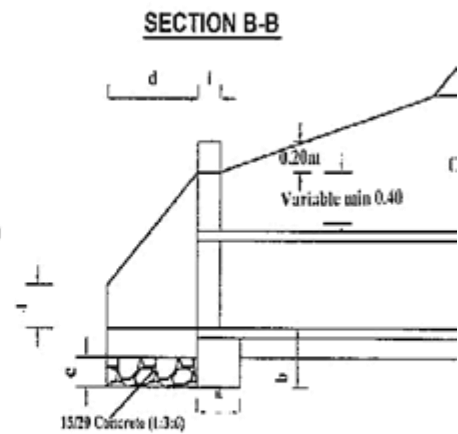
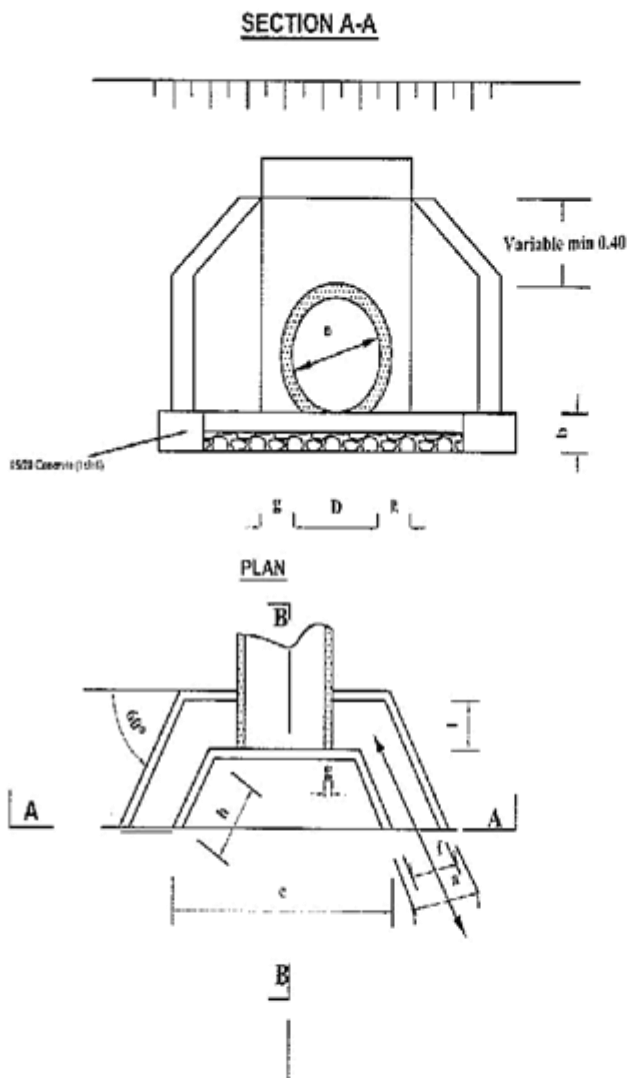


**PLAN**



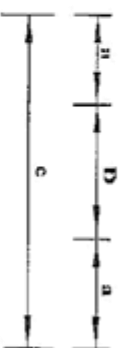
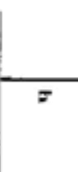
**DIMENSIONS AND**

| 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, RATIO              |            |
| FOUNDATION (concrete)        |            |
| HEAD/WING (Concrete/Masonry) |            |
| APRON (concrete)             |            |



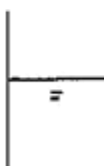
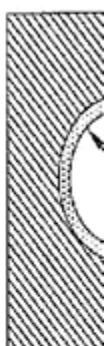
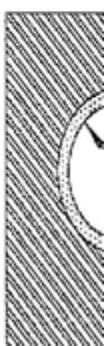
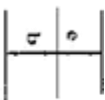
**DIMENSIONS AND MATERIAL REQUIREMENTS**

| PIPE<br>DIAMETER<br>IN (m)           | TYPE A<br>(CONCRETE BLOCKS) |      |      |
|--------------------------------------|-----------------------------|------|------|
|                                      |                             | 450  | 600  |
| DIMENSION                            | UNIT                        |      |      |
| a                                    | FOUNDATION                  | m    | 0.20 |
| b                                    | FOUNDATION                  | m    | 0.30 |
| c                                    | APRON                       | m    | 1.34 |
| d                                    | APRON                       | m    | 0.40 |
| e                                    | APRON                       | m    | 0.20 |
| f                                    | WINGWALLS                   | m    | 0.20 |
| g                                    | WINGWALLS                   | m    | 0.10 |
| h                                    | HEADWALLS                   | m    | 0.60 |
| i                                    | HEADWALLS                   | m    | 0.20 |
| j                                    | HEADWALLS                   | m    | 0.60 |
| k                                    | HEADWALLS                   | m    | 0.60 |
| l                                    | HEADWALLS                   | m    | 0.60 |
| <b>MATERIAL REQUIREMENT</b>          |                             |      |      |
| FOUNDATION<br>(concrete blocks)      |                             | 0.18 | 0.20 |
| HEAD/WINGWALLS<br>(Concrete/Masonry) |                             | 0.18 | 0.32 |
| APRON<br>(concrete)                  |                             | 0.12 | 0.14 |



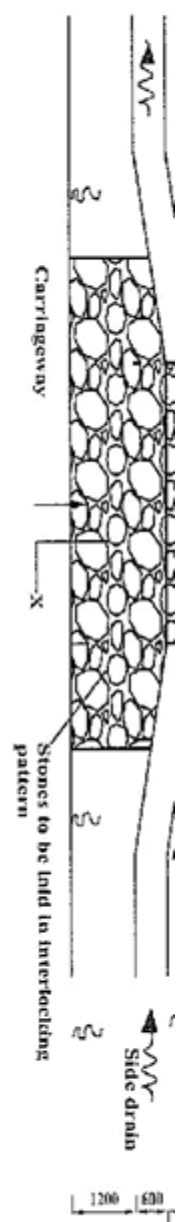
| Diameter (D) | 450 (mm)                                                                                      | 600 (mm) | 900 (mm) |
|--------------|-----------------------------------------------------------------------------------------------|----------|----------|
| a            | 0.15                                                                                          | 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     | Volume in (m <sup>3</sup> /m)                                                                 |          |          |
| Class 15/20  | 0.24                                                                                          | 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 (mm)                                                                                              | 600 (mm) | 900 (mm) |
|-------------------------------------------------------------------------------------------------------|----------|----------|
| 0.15                                                                                                  | 0.20     | 0.20     |
| 0.10                                                                                                  | 0.15     | 0.15     |
| 0.86                                                                                                  | 1.12     | 1.48     |
| 0.56                                                                                                  | 0.72     | 1.08     |
| 0.28                                                                                                  | 0.36     | 0.54     |
| 0.34                                                                                                  | 0.45     | 0.68     |
| -                                                                                                     | -        | -        |
| 0.38                                                                                                  | 0.51     | 0.69     |
| -                                                                                                     | -        | -        |
| Volume in (m <sup>3</sup> /m)                                                                         |          |          |
| 0.20                                                                                                  | 0.37     | 0.56     |
| -Fair to poor subgrade condition<br>-Overfill > 75% of the pipe diameter<br>-Seasonal water flow only |          |          |
| Material for back/overfill shall be approved by the Engineer                                          |          |          |

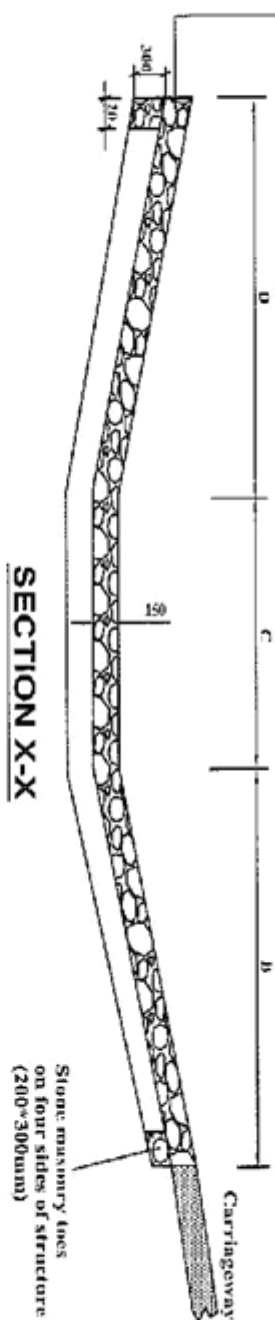


| Diameter (D)         | 450 (mm)                                                                                            | 600 (mm) | 900 (mm) |
|----------------------|-----------------------------------------------------------------------------------------------------|----------|----------|
| a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

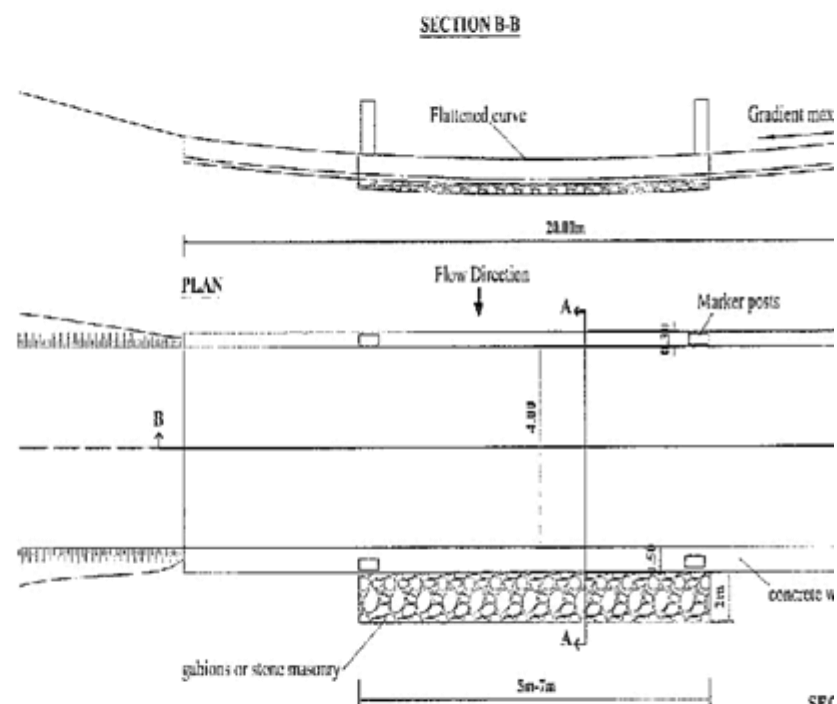
| 450<br>(mm)                                                                                           | 600<br>(mm) | 900<br>(mm) |
|-------------------------------------------------------------------------------------------------------|-------------|-------------|
| 0.15                                                                                                  | 0.20        | 0.20        |
| 0.10                                                                                                  | 0.15        | 0.15        |
| 0.86                                                                                                  | 1.12        | 1.48        |
| 0.56                                                                                                  | 0.72        | 1.08        |
| 0.46                                                                                                  | 0.52        | 0.78        |
| 0.15                                                                                                  | 0.15        | 0.15        |
| 0.15                                                                                                  | 0.15        | 0.15        |
| 0.81                                                                                                  | 1.02        | 1.38        |
| 0.28                                                                                                  | 0.35        | 0.45        |
| Volume in (m <sup>3</sup> /m)                                                                         | 0.37        | 0.92        |
| -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)

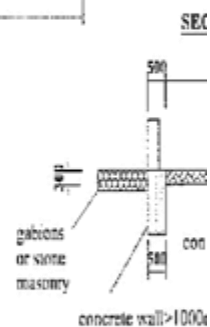


| Cross section | DIMENSIONS |      |     |      |      | QUANTITIES TABLE            |                                 |                                               |
|---------------|------------|------|-----|------|------|-----------------------------|---------------------------------|-----------------------------------------------|
|               | A          | B    | C   | D    | E    | Excavation(m <sup>3</sup> ) | Stone masonry (m <sup>3</sup> ) | 150mm Grouted stone pitching(m <sup>3</sup> ) |
| A             | 4000       | 1600 | 600 | 1800 | 4200 | 7.5                         | 1.30                            | 21.75                                         |
|               | 6000       | 1800 | 600 | 1800 | 4200 | 10.00                       | 1.60                            | 30.15                                         |
| B             | 4000       | 1400 | 400 | 1800 | 3600 | 7.00                        | 1.20                            | 18.30                                         |
|               | 6000       | 1400 | 400 | 1800 | 3600 | 9.00                        | 1.50                            | 25.50                                         |

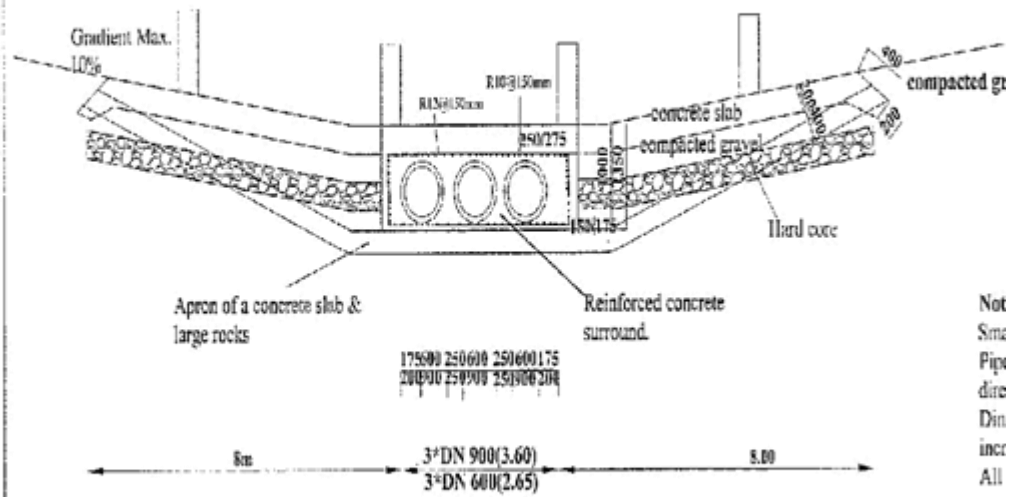


Material : All concrete Class 20/20 (1:2:4)

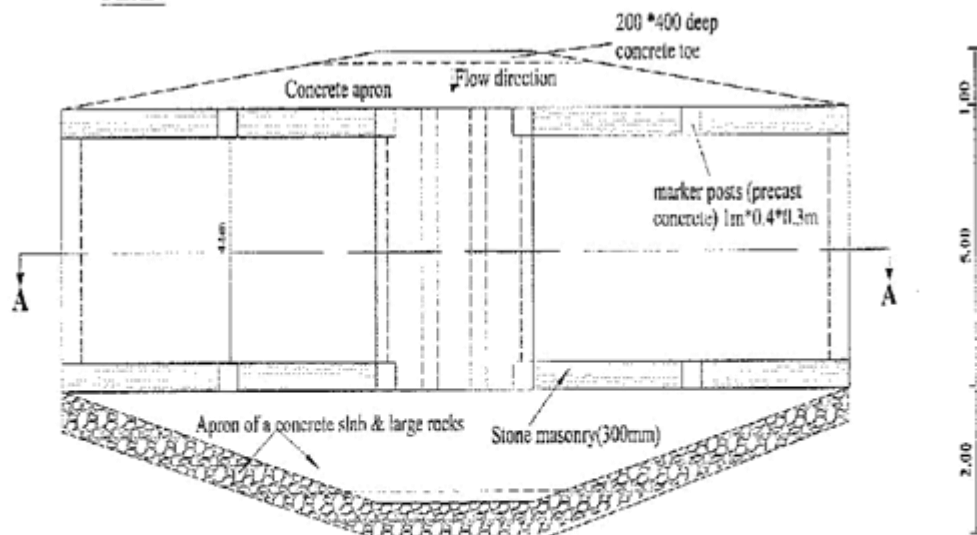
- 1 Concrete wall : 16m<sup>3</sup>
- 2 Concrete slab: 24m<sup>3</sup> or stone masonry
- 3 Concrete toe : 8m<sup>3</sup> or stone masonry
- 4 Gabions / mattress rock fill: 4.3m<sup>3</sup> or stone masonry
- 5 Gabions /mattress: 36m<sup>3</sup>
- 6 Marker posts - precast concrete: 4 no.
- 7 Excavation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



# SECTION A-A



# PLAN





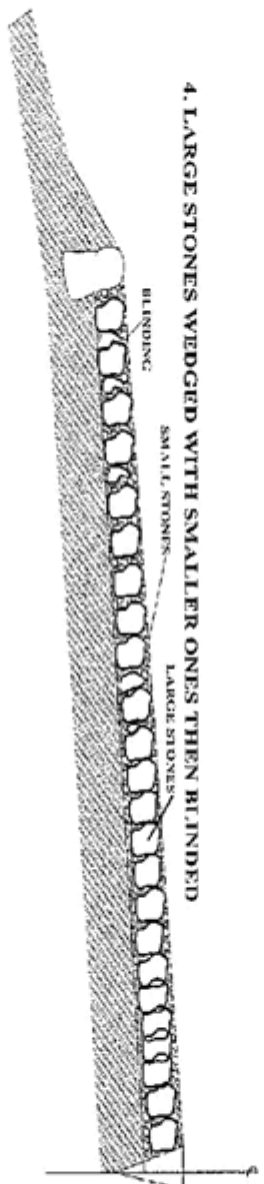
2. EDGE BEAM OF LARGE STONES

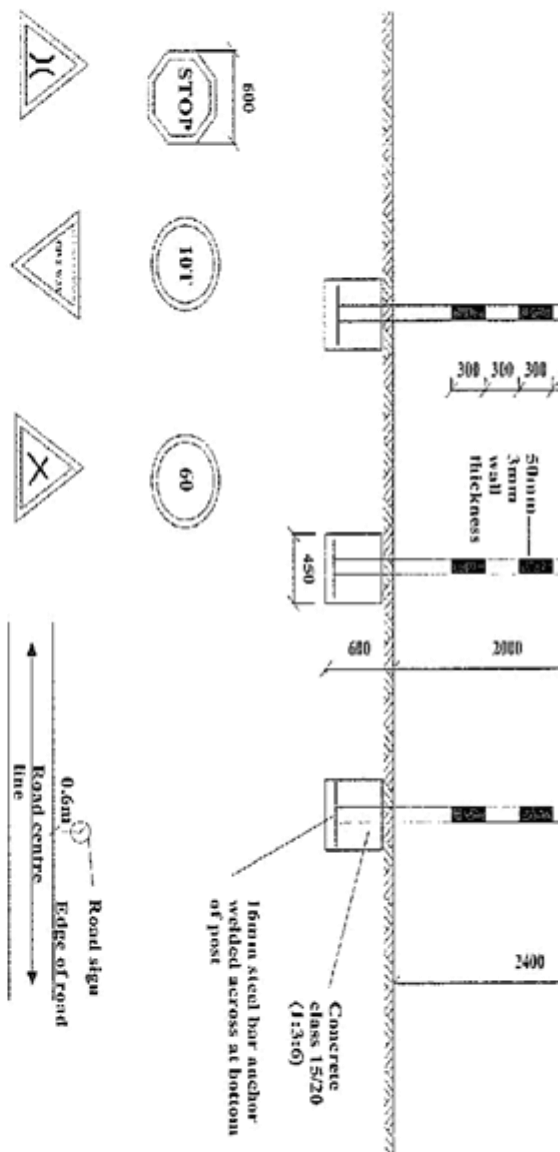


3. EDGE BEAM SECURED AND LARGE STONES LAID ON EDGE



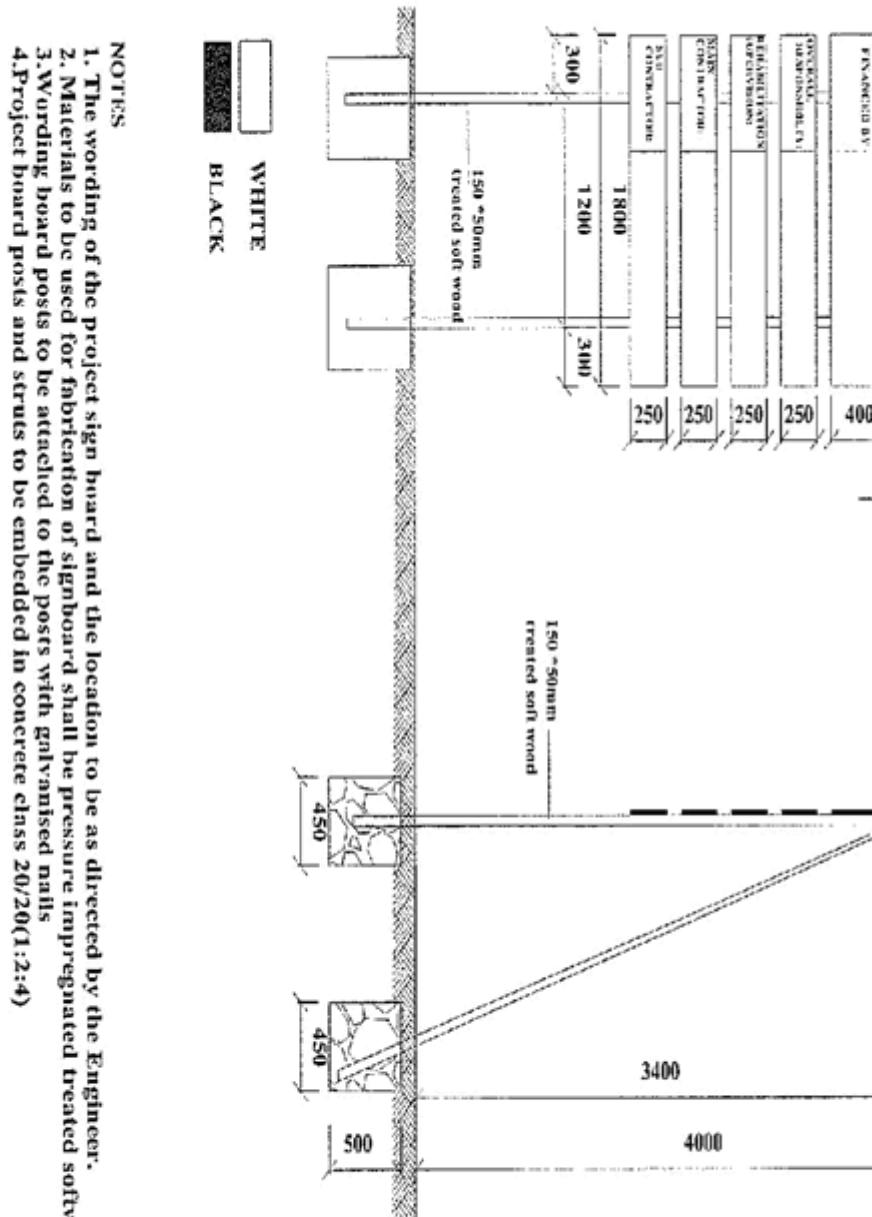
4. LARGE STONES WEDGED WITH SMALLER ONES THEN R.I.NDED





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 panels 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.



- 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)

C-23

## **PREAMBLE TO BILLS OF QUANTITIES**

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

## **BILLS OF QUANTITIES**

**Tender Document for Road E 3059: D537 Taveta – Madarasani; Taveta Constituency**

Road Code E3059: D537 Taveta - Madarasani

Section Name

**Package: KeRRA/011/TTVT/39/051/2018-2019**

Contractor 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 | Technology |
| 01-50-016          | Materials Investigation & Testing                                                                      | KS    | 20,000.00 |                    | 20,000.00  | LB-MB      |
|                    | Total Carried Forward to Summary:                                                                      |       |           |                    |            |            |
| Bill No.10         | GRADING AND GRAVELLING WORKS                                                                           |       |           |                    |            | Project:   |
| Item No.           | Description                                                                                            | Units | Quantity  | Unit Bid Rate(Ksh) | Amount KSh | Technology |
| 10-60-001          | Provide gravel wearing course-excavation,free haul, spread, water and compact gravel to specifications | M³    | 1205      |                    |            | MB         |
|                    | Total Carried Forward to Summary:                                                                      |       |           |                    |            |            |

**Tender Document for Road E 3059: D537 Taveta – Madarasani; Taveta Constituency**

RoadCode E3059: D537 Taveta - Madarasani

### Structure:

Section Name

D537 Taveta -

**Package: KeRRA/011/TTVT/39/051/2018-2019**

Madarasani

Contractor

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