

# STANDARD TENDER DOCUMENT FOR PROCUREMENT OF WORKS

> SPOT IMPROVEMENT WORKS

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#### SECTION I: INVITATION FOR TENDERS

#### Tender reference No. (KeRRA/011/39/TRB/22%/36/2018-19)

Tender Name (Structure)

- 1.1 The (Kenya Rural Roads Authority) invites sealed tenders for the construction of (Culvert)
- 1.2 Interested eligible candidates may obtain further information and inspect tender documents (and additional copies) at (Regional Manager P.O. Box 120, Wajir) during normal working hours.
- 1.3 A complete set of tender documents may be obtained by interested candidates upon payment of a non-refundable fees of (1000/=) in cash payable to (Account Number 1114343196 KBC MOI AVENUE NAIROBI)
- 1.4 Prices quoted should be net inclusive of all taxes, must be in Kenya shillings and shall remain valid for **120** days from the closing date of tender.
- 1.5 Completed tender documents are to be enclosed in plain sealed envelopes marked with Tender name and reference number and deposited in the Tender Box at (P. O. BOX 120) or to be addressed to so as to be received on or before (9.00A.m of Tuesday 7<sup>th</sup> May, 2019).
- 1.6 Tenders will be opened immediately thereafter in the presence of the candidates or their representatives who choose to attend at the opening session

For (Accounting Officer/Procuring Entity)

# SECTION II: INSTRUCTIONS TO TENDERERS

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#### 1. General

- 1.1 The Employer as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The successful Tenderer will be expected to complete the Works by the Intended Completion Date specified in the said Appendix.
- 1.2 Tenderers shall include the following information and documents with their tenders, unless otherwise stated:
  - (a) copies of certificates of registration, and principal place of business;
  - (b) total monetary value of construction work performed for each of the last five years;
  - (c) experience in works of a similar nature and size for each of the last five years, and clients who may be contacted for further information on these contracts;
  - (d) major items of construction equipment owned;
  - (e) qualifications and experience of key site management and technical personnel proposed for the Contract;
  - (f) reports on the financial standing of the Tenderer, such as profit and loss statements and auditor's reports for the last five years;
  - (g) Authority to seek references from the Tenderer's bankers.
  - (h) Registration with National Construction Authority for the applicable class valid at the date of tender of submission
  - (i) Certificate of Incorporation
  - (j) VAT Registration Certificate
  - (k) Valid current Tax compliance certificate
  - (I) PIN registration certificate
  - (m) current litigation information
- 1.3 The Tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible or liable for those costs.
- 1.4 The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Tenderer's own expense.
- 1.5 The procurement entity's employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender.
- 1.6 The price to be charged for the tender document shall not exceed **Kshs.1,000/=**
- 1.7 The procuring entity shall allow the tenderer to review the tender document free of charge before purchase.
- 1.8. The estimated budget for these works is One Million Four hundred thousand Shillings only. (1,400,000.00)

#### 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 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<br>Requirements       |
| 1. EI                  | 1. Eligibility                  |   |                       |                                  |
| 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<br>& Registration | <ul> <li>Pursuant to sub clause 1.2 the following shall be provided;</li> <li>Certified Copy of Certificate of incorporation to show that the applicant is a registered company and legally authorised to do business in Kenya</li> <li>Proof of registration with the National Construction Authority Category NCA</li></ul> | Must meet requirement | Refer to standard form section 7 |

| Qualification Criteria |   | Compliance Requirements   | Documentation   |                                  |
|------------------------|---|---|---|----------------------------------|
| No.                    | Subject                                       | Requirement   | Single Entity   | Submission<br>Requirements       |
| 2.1                    | History of Non-<br>Performing<br>Contracts    | Non-performance of a contract did not<br>occur within the last <b>three (3)</b> years prior<br>to the deadline for application<br>submission based on all information on<br>fully settled disputes or litigation. A fully<br>settled dispute or litigation is one that<br>has been resolved in accordance with<br>the Dispute Resolution Mechanism<br>under the respective contract, and<br>where all appeal instances available to<br>the applicant have been exhausted. | Must meet requirement by itself or as party to past                             |                                  |
| 2.2                    | Pending<br>Litigation                         | All pending litigation shall in total not<br>represent more than fifty percent (50%)]<br>of the Applicant's net worth and shall be<br>treated as resolved against the<br>Applicant.   | Must meet requirement by itself or as party to past                             | Refer to standard form section 7 |
| 3.1                    | Financial<br>Performance                      | Submission of audited balance sheets or<br>if not required by the law of the<br>applicant's country, other financial<br>statements acceptable to the Employer,<br>for the last three [3] years to<br>demonstrate:<br>(a) the current soundness of the<br>applicants financial position and its<br>prospective long term profitability, and<br>(b) capacity to have a cash flow amount<br>of min KShs xxxx Million equivalent<br>working capital                           | Must meet requirement<br>(a) Must meet requirement<br>(b) Must meet requirement | Refer to standard form section 7 |
| 3.2                    | Average<br>Annual<br>Construction<br>Turnover | Minimum average annual construction<br>turnover of KShs xxxx [xxxxxxx],<br>calculated as total certified payments<br>received for contracts in progress or<br>completed, within the last xxxxxx years   | Must meet requirement   | Refer to standard form section 7 |

| Qualification Criteria |  | Compliance Requirements  | Documentation   |                                  |
|------------------------|--|--|---|----------------------------------|
| No.                    | Subject                                | Requirement  | Single Entity   | Submission<br>Requirements       |
| 4.1                    | General<br>Construction<br>Experience  | Experience under construction contracts<br>in the role of contractor, subcontractor,<br>or management contractor for at least<br>the last xxxxx prior to the applications<br>submission deadline   | Must meet requirement   | Refer to standard form section 7 |
| 4.2(a)                 | Specific<br>Construction<br>Experience | Participation as contractor, management<br>contractor or subcontractor, in at least<br>xxx (x) contracts within the last xxx (xxx)<br>years, each with a value of at least<br>KShs. xxxxx (xxxxxxx), that have been<br>successfully and substantially completed<br>and that are similar to the proposed<br>works. The similarity shall be based on<br>the physical size, complexity,<br>methods/technology or other<br>characteristics as described in Scope of<br>Works | Must meet requirement   | Refer to standard form section 7 |
| 4.2(b)                 |  | <ul> <li>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> <li>Routine maintenance</li> <li>Spot improvement &amp; rehabilitation works.</li> </ul> </li> </ul>  | Must meet requirements  | Refer to standard form section 7 |
| 4.3                    | Work<br>Methodology                    | Submission of a brief work methodology   | Should demonstrate understanding of<br>the scope of works and other general<br>requirements | Refer to standard form section 7 |

| Qualification Criteria |                                   | <b>Compliance Requirements</b>   | Documentation             |                                  |
|------------------------|-----------------------------------|--|---------------------------|----------------------------------|
| No.                    | Subject                           | Requirement  | Single Entity             | Submission<br>Requirements       |
| 5. Ec                  | quipment Holdin                   | g  |                           |                                  |
| 5.1                    | Minimum<br>number of<br>Equipment | The bidder must indicate the minimum<br>the core plant and equipment<br>considered by the company to be<br>necessary for undertaking the project<br>together with proof of ownership | Must meet the requirement | Refer to standard form section 7 |
| 6. Cı                  | urrent Commitm                    | ent  |                           |                                  |
| 6.1                    | On-going<br>contracts             | The total value of current works on the on-going contracts must not exceed KShs. xxxxxxx   | Must meet requirements    |                                  |
| 7. Si <sup>,</sup>     | te Staff                          |  |                           |                                  |
| 1                      | Site Agent                        | The site staff shall posses minimum<br>levels set below;<br>Qualification = xxxxxx<br>xxxxxxx<br>General Experience = xx yrs<br>Specific Experience = xx Yrs                         | Must meet requirements    | Refer to guideline notes         |
| 2                      | Dep. Site Agent/<br>Site Engineer | Qualification = xxxxxxx<br>General Experience = xx yrs<br>Specific Experience = xx Yrs   |                           |                                  |
| 3                      | Senior Foreman                    | Qualification = xxxxxx<br>General Experience = xxx yrs<br>Specific Experience = xxx Yrs  |                           |                                  |

| Qualification Criteria |                 | Compliance Requirements   | Documentation |                            |
|------------------------|-----------------|---|---------------|----------------------------|
| No.                    | Subject         | Requirement   | Single Entity | Submission<br>Requirements |
| 4                      | Site Surveyor   | Qualification = xxxxx<br>General Experience = xxx yrs<br>Specific Experience = xx Yrs |               |                            |
| 5                      | Foremen (5 N0.) | Qualification = xxxxx<br>General Experience = xx yrs<br>Specific Experience =xx Yrs   |               |                            |

# SECTION IV: CONDITIONS OF CONTRACT

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### CONDITIONS OF CONTRACT

#### 1. Definitions

1.1 In this Contract, except where context otherwise requires, the following terms shall be interpreted as indicated;

"Bills of Quantities" means the priced and completed Bill of Quantities forming part of the tender[where applicable].

"Schedule of Rates" means the priced Schedule of Rates forming part of the tender [where applicable].

"The Completion Date" means the date of completion of the Works as certified by the Employer's Representative.

"The Contract" means the agreement entered into by the Employer and the Contractor as recorded in the Agreement Form and signed by the parties.

"The Contractor" refers to the person or corporate body whose tender to carry out the Works has been accepted by the Employer.

"The Contractor's Tender" is the completed tendering document submitted by the Contractor to the Employer.

"The Contract Price" is the price stated in the Letter of Acceptance.

"Days" are calendar days; "Months" are calendar months.

"A Defect" is any part of the Works not completed in accordance with the Contract.

"The Defects Liability Certificate" is the certificate issued by Employer's Representative upon correction of defects by the Contractor.

"The Defects Liability Period" is the period named in the Appendix to Conditions of Contract and calculated from the Completion Date.

"Drawings" include calculations and other information provided or approved by the Employer's Representative for the execution of the Contract.

"Employer" Includes Central or Local Government administration, Universities, Public Institutions and Corporations and is the party who employs the Contractor to carry out the Works. "Equipment" is the Contractor's machinery and vehicles brought temporarily to the Site for the execution of the Works.

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

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

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

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

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

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

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

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

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

#### 2. Contract Documents

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

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

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

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

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

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

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

#### 6 Work Program and Sub-contracting

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

#### 7 The site

7.1 The Employer shall give possession of all parts of the Site to the Contractor.

7.2 The Contractor shall allow the Employer's Representative and any other person authorised by the Employer's Representative ,access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

#### 8 Instructions

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

#### 9 Extension of Completion Date

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

Delay by:-(a) force majeure, or

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

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

#### **10 Management Meetings**

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

#### 11 Defects

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

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

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

#### **12 Bills of Quantities**

- 12.1 The Bills of Quantities shall contain items for the construction, installation, testing and commissioning of the Work to be done by the Contractor. The Contractor will be paid for the quantity of the Work done at the rates in the Bills of Quantities for each item. Items against which no rate is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the rates for other items in the Bills of Quantities.
- 12.2 Where Bills of Quantities do not form part of the Contract, the Contract Price shall be a lump sum (which shall be deemed to have been based on the rates in the Schedule of Rates forming part of the tender) and shall be subject to remeasurement after each stage.

#### **13 Variations**

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

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

- 14.1 The Contractor shall be paid after each of the following stages of Work listed here below (subject to re-measurement by the Employer's Representative of the Work done in each stage before payment is made). In case of lump-sum Contracts, the valuation for each stage shall be based on the quantities so obtained in the re-measurement and the rates in the Bill of Quantities.
- 14.2 Upon deciding that Works included in a particular stage are complete, the Contractor shall submit to the Employer's Representative his application for payment. The Employer's Representative shall check, adjust if necessary and certify the amount to be paid to the Contractor within 21 days of receipt of the Contractor's application .The Employer shall pay the Contractor the amounts so certified within 30 days of the date of issue of each Interim Certificate.
- 14.3 The Contractor shall supply the Employer's Representative with a detailed final account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Employer's Representative shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 30 days of receiving the Contractor's account if it is correct and complete. If it is not, the Employer's Representative shall issue within 21 days a schedule that states the scope of the corrections or additions that are necessary. If the final account is still unsatisfactory after it has been resubmitted, the Employer's Representative shall decide on the amount payable to the Contractor and issue a Final Payment Certificate. The Employer shall pay the Contractor the amount so certified within 60 days of the issue of the Final Payment Certificate.
- 14.4 If the period laid down for payment to the Contractor upon each of the Employer's Representative's Certificate by the Employer has been exceeded, the Contractor shall be entitled to claim simple interest calculated pro-rata on the basis of the number of days delayed at the

Central Bank of Kenya's average base lending rate prevailing on the first day the payment becomes overdue. The Contractor will be required to notify the Employer within 15 days of receipt of delayed payments of his intentions to claim interest.

#### 15. Insurance

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

#### 16. Liquidated Damages

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

#### 17. Completion and Taking Over

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

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

#### 18. Termination

- 18.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract. These fundamental breaches of Contract shall include, but shall not be limited to, the following;
  - (a) the Contractor stops Work for 30 days continuously without reasonable cause or authority from the Employer's Representative;
  - (b) the Contractor is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
  - (c) a payment certified by the Employer's Representative is not paid by the Employer to the Contractor within 30 days after the expiry of the payment periods stated in sub clauses 14.2 and 14.3 hereinabove.

- (d) the Employer's Representative gives notice that failure to correct a particular defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time.
- 18.2 If the Contract is terminated, the Contractor shall stop Work immediately, and leave the Site as soon as reasonably possible. The Employer's Representative shall immediately thereafter arrange for a meeting for the purpose of taking record of the Works executed and materials, goods, equipment and temporary buildings on Site.

#### **19.** Payment Upon Termination

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

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

20.1 The Contractor shall not;

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

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

#### 21. Settlement of Disputes

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

# SECTION V: APPENDIX TO FORM OF AGREEMENT

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

| Item  | Data  |
|---|---|
| Time for Completion   | xxxMonths,  |
| Priority of Documents   | <ul> <li>The documents forming the Contract shall be interpreted in the following order of priority:</li> <li>the Contract Agreement and Appendix to form of agreement</li> <li>the Letter of Acceptance</li> <li>the Form of Tender</li> </ul> |
|   | <ul> <li>the Conditions of Contract, Part II - Conditions<br/>of Particular Application</li> <li>the Conditions of Contract, Part I - General</li> </ul>  |
|   | <ul> <li>Conditions of Contract</li> <li>the Specifications</li> <li>the Drawings,</li> <li>the Priced Bill of Quantities</li> </ul>  |
| Law of Contract   | Laws of the Republic of Kenya   |
| Language  | English   |
| Provision of Site   | On Commencement Date  |
| Name and Address of Employer  | Director General<br>Kenya Rural Roads Authority<br>P.O. Box 48151-00100<br><b>Nairobi</b>   |
| Authorised Person   | General Manager (Maintenance),<br>Kenya Rural Roads Authority<br>P.O. Box 48151-00100<br>(Insert Region)  |
| Name and Address of the Engineer  | Regional Manager,<br>Kenya Rural Roads Authority<br>P. O. Box,<br>(Wajir)   |
| Name and Address of Engineer's<br>Representative                          | Constituency Roads Officer<br>(Tarbaj)<br>(WAJIR REGION)  |
| Penalty to the Contractor for<br>Employer paying workers on his<br>behalf | 10% of the amount paid to the workers.  |
| Performance Security  | (Refer to guideline Notes)  |

| Item  | Data  |
|---|---|
|   |   |
| Amount  | 5% of sum stated as the Contract Price                        |
|   | Bank Guarantee or Insurance Bond issued by PPOA               |
| Form  | approved insurance companies                                  |
| Requirements of Contractors Design  | Not applicable  |
| Programme   |   |
| ⇒ Time of Submission  | Within 14 days of Commencement Date                           |
| ⇒ Form of Programme   | Bar Chart   |
| → Interval Updates  | As requested by the RM  |
| Liquidated Damages  | 0.01% of Contract Price per Day to a limit of 1% of           |
| Amount payable due to failure to  | Contract Price.   |
| complete  |   |
| 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<br>Payment  | Refer to guideline Notes                                      |
| Form of Guarantee for Advance   | Bank Guarantee  |
| Payment   |   |
| Valuation of Works  | Remeasurements with Bills of Quantities                       |
| Repayment Schedule for Advance<br>Payment   | 33 % instalments from 1 <sup>st</sup> three certificates.     |
| Minimum Amount of Interim Payment   | Ksh(RM to insert figure)                                      |
| Currency of Payment   | Kenya Shilling  |
| Data di lata di   |   |
| Rate of Interest  | Simple Interest at a rate of 2% above mean Base               |
|   | Lending Rate as issued by the Central Bank of Kenya.          |
|   | Required/ Not required<br>Amount of Cover                     |
| Insurance<br>⇒ The Works, materials plants  | The Contract Price stated in the Agreement                    |
| <ul> <li>⇒ The Works, materials plants</li> <li>&amp; fees- Contractor's All risks</li> </ul> | +15%+replacement cost of equipment on site.                   |
| ⇒ Third party injury to persons   | Ksh(RM to insert figure)                                      |
| and damage to property  |   |
| <ul> <li>⇒ Workers compensation</li> <li>(WIBA- workers injury benefits)</li> </ul>           | As per work injury benefits act 2007 laws of Kenya            |
| policy)   |   |
| Arbitration   |   |
| ⇒ Rules   | CAP 49 of the Laws of Kenya                                   |
| Appointing Authority  | Chairman Chartered Institute of Arbitrators, Kenya<br>Branch. |
| ⇒ Place of Arbitration  | Kenya Rural Roads Authority, Headquarters                     |

### SECTION VI: STANDARD FORMS

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### FORM OF INVITATION FOR TENDERS

|   | [Date]                                  |
|---|---|
| То:   | [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 completion of the Works.      | o submit a Tender for the execution and |
| A complete set of Tender documents may be purchas                                   | sed from                                |
| [Mailing address, cable/telex   | /facsimile numbers].                    |
| Upon payment of a non-refundable fee of Kshs  |   |
| All Tenders shall be accompanied bynu<br>Security in the form and amount of Kshs an |   |
| [Address and location]  |   |
| at or before(time and data thereafter, in the presence of those Tenderers' repres   |   |
| Please confirm receipt of this letter and your intention                            | to Tender in writing.                   |
| Yours faithfully,   |   |
| Autho   | rised 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<br>for the execution of the above Works, We, the undersigned offer to construct, install and<br>complete such Works and remedy any defects therein for the sum of<br>Kshs[Amount in figures]Kenya<br>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.<br>4. | We agree to abide by this Tender until[Insert date], and it shall remain<br>binding upon us and may be accepted at any time before that date.<br>Unless and until a formal Agreement is prepared and executed this Tender together with your<br>written acceptance thereof, shall constitute a binding Contract between us.     |  |  |  |
| 4.       | We understand that you are not bound to accept the lowest or any Tender you may receive.  |  |  |  |
|          | Dated this day of20   |  |  |  |
|          | Signaturein the capacity of   |  |  |  |
|          | duly authorized to sign Tenders for and on behalf of<br>[Name of Tenderer] of   |  |  |  |
|          | [Address of Tenderer]   |  |  |  |
|          | Witness: Name   |  |  |  |
|          | Address   |  |  |  |
|          | Signature   |  |  |  |
|          | Date  |  |  |  |

### LETTER OF AWARD

[Letterhead paper of the Employer]

|  | [Date]  |
|--|---|
| To:<br>[Name of the Contractor]                |   |
| [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 num   | ber,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 th   | e execution of the said Works in accordance with the    |
| Contract documents.                            |   |
|  |   |
| Authorized Signature                           |   |
|  |   |
| Name and Title of Signatory                    |   |
|  |   |

Attachment :

### FORM OF TENDER SECURITY

THE CONDITIONS of this obligation are:

- If after Tender opening the Tenderer withdraws his Tender during the period of Tender validity specified in the Instructions to Tenderers Or
- 2. If the Tenderer, having been notified of the acceptance of his Tender by the Employer during the Period of Tender validity:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Tenderers, if required; or
  - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Tenderers;

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

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

[Date

[Signature of the Bank]

[Witness]

[Seal]

### PERFORMANCE BANK GUARANTEE

| То:                               | (Name of Employer)            | (Date)                                  |    |
|-----------------------------------|-------------------------------|---|----|
|                                   | _(Address of Employer)        |   |    |
| Dear Sir,                         |                               |   |    |
| WHEREAS                           | (hereinafter called "th       | he Contractor") has undertaken,         | in |
| pursuance of Contract No.         | dated                         | to execute                              |    |
| (hereinafter called "the Works"); |                               |   |    |
| AND WHEREAS it has been stipula   | ted by you in the said Contra | act that the Contractor shall furnish y | ou |

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 G         | 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 an  | d 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 group | unds or reasons for your demand for the sum    |
| specified therein.                                       |  |

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

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

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

| SIGNATURE AND SEAL OF THE GUARANTOR |   |
|-------------------------------------|---|
| Name of Bank                        |   |
| Address                             | - |
| Date                                |   |

# BANK GUARANTEE FOR ADVANCE PAYMENT

| То:                             | [Name of Employer] (Date)  |
|---------------------------------|--|
|                                 | [Address of Employer]  |
| Gentlemen,                      |  |
| Ref:                            | [name of Contract]   |
|                                 | e with the provisions of the Conditions of Contract of the above-mentioned Contract  |
| called "the C                   | ontractor") shall furnish you with a Bank guarantee by a recognised Bank for the sur   |
| specified ther                  | ein as a security for compliance with his obligations in accordance with the Contract in a   |
| amount o                        | Kshs[amount of Guarantee in figurers] Keny   |
| Shillings                       | [amount of Guarantee in words].  |
| We, the                         | [bank or financial institution], as instructed by the Contractor, agre<br>y and irrevocably to guarantee as primary obligator and not as Surety merely, th   |
|                                 | [name of Employer] on his first demand withou  |
|                                 | ght of objection on our part and without his first claim to the Contractor, in the amount no   |
|                                 | shs[amount of Guarantee in figures]Kenya Shilling  |
|                                 | [amount of Guarantee in words].  |
| the Works to between            | ree that no change or addition to or other modification of the terms of the Contract or of<br>be performed thereunder or of any of the Contract documents which may be mad<br>[name of Employer] and the Contractor, shall in any wa<br>om any liability under this Guarantee, and we hereby waive notice of any such change<br>odification. |
| Contract unti                   | ee shall remain valid and in full effect from the date of the Advance Payment under th<br>(name of Employer) receives full payment of th<br>from the Contract.   |
| Yours faithful<br>Signature and | y,<br>I Seal   |
| Name of the                     | Bank or financial institution  |
| Address                         |  |
| Date                            |  |
| Witness:                        | Name:  |
|                                 | Address:   |
|                                 | Signature:   |
|                                 | Date:  |
|                                 | 27   |

# FORM OF AGREEMENT

THIS AGREEMENT is made on the ......day of ..... 2015 between the Kenya Rural Roads Authority, of P.O. BOX 48151 - 00100, Nairobi, Kenya hereinafter called the "Employer "of the one part and -------hereinafter called the "Contractor" of the other part.

WHEREAS the Employer is desirous that certain works should be executed, viz: -----

\_\_\_\_\_

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

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

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

The said BID dated ------

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

All aforesaid documents are hereinafter referred to as "**The Contract**". In consideration of the payment to be made by the **Employer** to the **Contractor**, the Contractor covenants with the Employer to execute and complete the Works in conformity with the provisions of the Contract.

The Employer hereby covenants to pay the Contractor in consideration of the execution, completion and maintenance of the Works at the Contract Price or such other sum as may become payable under the Contract at the times and in the manner prescribed by the Contract.

**IN WITNESS WHEREOF** the parties hereto have caused their respective common seals to be hereto affixed (or have hereunto set their respective hands and seals) on the day and year first above written.

| SIGNED AND DELIVERED<br>By the said Employer: |   |
|---|---|
|   | Signature:  |
|   | Region:   |
|   | ager, Kenya Rural Roads Authority)<br>n behalf of the said Employer.) |
| In the presence of:                           |   |
|   | Signature   |
| By the said Contractor:                       |   |
|   | Signature   |
|   | Designation:<br>(For and on behalf of the said Contractor)            |
| In the presence of :                          |   |
|   | Signature:  |
|   | Address:  |

# QUALIFICATION INFORMATION

#### **TENDER QUESTIONNAIRE**

Please fill in block letters.

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

.....

3. Telephone number (s) of Tenderer;

.....

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

| <br> |
|------|

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              |
| 2  |
| 3  |
| Part 2(c) – Registered Company:                                  |
| Private or public  |
| State the nominal and issued capital of the Company-             |
| Nominal Kshs   |
|  |
| Issued Kshs  |
| Issued Kshs<br>Give details of all directors as follows:         |
|  |
| Give details of all directors as follows:                        |

#### 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

| LABOUR   | UNIT               | RATES |
|----------|--------------------|-------|
| CATEGORY | (MONTH/SHIFT/HOUR) |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |
|          |                    |       |

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

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

I certify that the above information is correct.

|         | •••••       |        |
|---------|-------------|--------|
| (Title) | (Signature) | (Date) |

# CERTIFICATE OF TENDERER'S VISIT TO SITE

| This is to certify that  |
|--|
| [Name/s]   |
|  |
| Being the authorized representative/Agent of [Name of Tenderer]                                      |
|  |
| participated in the organized inspection visit of the site of the works for the (participated in the |
| organised inspection visit of the site of the work   |
| (КМ)   |
|  |
| held on20  |

| held on                   | day of |  |
|---------------------------|--------|--|
| Signed<br>(Employer's Rep |        |  |
|                           |        |  |

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**

| DESIGNATION                           | NAME | NATIONALITY | SUMMARY OF<br>QUALIFICATIONS AND<br>EXPERIENCE |
|---------------------------------------|------|-------------|--|
| Headquarters:<br>1. Managing Director |      |             |  |
| 2.                                    |      |             |  |
| 3.                                    |      |             |  |
| 4.                                    |      |             |  |
| 5.                                    |      |             |  |
| etc.                                  |      |             |  |
| Site Office:                          |      |             |  |
| 1. Site Supervisor                    |      |             |  |
| 2.                                    |      |             |  |
| 3.                                    |      |             |  |
| 4.                                    |      |             |  |
| 5.                                    |      |             |  |
| 6                                     |      |             |  |
|                                       |      |             |  |
|                                       |      |             |  |
|                                       |      |             |  |
|                                       |      |             |  |

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

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

The Bidder must attach certified copies of log books or 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<br>AND CLIENT | TOTAL VALUE OF<br>WORKS (KSHS) | CONTRACT<br>PERIOD<br>(YEARS) | YEAR<br>COMPLETED |
|------------------------------------|--------------------------------|-------------------------------|-------------------|
|                                    |                                |                               |                   |
|                                    |                                |                               |                   |
|                                    |                                |                               |                   |
|                                    |                                |                               |                   |
|                                    |                                |                               |                   |
|                                    |                                |                               |                   |
|                                    |                                |                               |                   |
|                                    |                                |                               |                   |
|                                    |                                |                               |                   |

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

(Title)

(Signature)

(Date)

# SCHEDULE OF ONGOING PROJECTS

| DESCRIPTION OF WORK<br>AND CLIENT | CONTRACT<br>PERIOD | DATE OF<br>COMMEN-<br>CEMENT | DATE OF<br>COMPLETION | TOTAL<br>VALUE OF<br>WORKS<br>(KSHS.) | %<br>COMPLETE<br>D 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.

.....

 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<br>INVOLVED (KSHS) |
|-------------------|------------------|---------------------------|
|                   |                  |                           |
|                   |                  |                           |
|                   |                  |                           |
|                   |                  |                           |
|                   |                  |                           |

I certify that the above information is correct.

| Title | Signature | Date |
|-------|-----------|------|
|       | 8         |      |

## 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. | disclosed       | licator agrees to act as Adjudicator in accordance with the Rules and has<br>to the Parties any previous or existing relationship with the Parties or<br>acerned with the Project. |
|----|-----------------|--|
| 4. | This Agree      | ement shall be governed by the laws of   |
| 5. | The Langu       | lage of this Agreement shall be  |
|    | SIGNED B        | 3Υ   |
|    | For and or      | h behalf of the Employer in the presence of  |
|    | Name<br>Address |  |
|    | SIGNED B        | 3Υ   |
|    | For and or      | h behalf of the Contractor in the presence of  |
|    | Name<br>Address |  |
|    | SIGNED B        | 3Υ   |
|    | For and or      | h behalf of the Adjudicator in the presence of   |
|    | Address         |  |

## 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 of20                    |  |  |  |  |  |  |
|--|-----------------------------|--|--|--|--|--|--|
| 0  |                             |  |  |  |  |  |  |
| 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       | f                            |
| duly authorized to sign To | enders for and on behalf | of<br>_[Name of Tenderer] of |
|                            | [Address o               | f Tenderer]                  |
|                            | [Seal or St              | amp of Tenderer]             |

FORM RB 1

#### **REPUBLIC OF KENYA**

### PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

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

#### BETWEEN

.....APPLICANT

AND

#### 

#### **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

| То                     |   | Date                          |
|------------------------|---|-------------------------------|
|                        |   |                               |
|                        |   |                               |
| The tenderer i.e. (Nam | e and address)  |                               |
|                        |   | declare the following:        |
| a) Has not been deba   | arred from participating in p                         | public procurement.           |
|                        | ved in and will not be invol<br>g public procurement. | ved in corrupt and fraudulent |
|                        |   |                               |
| Title                  | Signature   | Date                          |

(To be signed by authorized representative and officially stamped)

SECTION VII: CONTRACTOR'S EVALUATION CHECKLIST

#### Supervision Check List (1/2)

|        |  |         |   |           |           |           |           | -         | n h                              |           |           |           |           | Date | Name  |        | Signature |
|--------|--|---------|---|-----------|-----------|-----------|-----------|-----------|----------------------------------|-----------|-----------|-----------|-----------|------|---|--------|-----------|
|        | Project Title:   |         |   |           |           |           |           |           | The Engineer's<br>Representative |           |           | 2         |           |      |   |        |           |
|        | Contractor:  |         |   |           |           |           |           |           |                                  | (Pi       | roject E  | Enginee   | r)        |      |   |        |           |
| 2. Fil |  | day/mon | eer to check contractor's work execution process.<br>th), mark as indicated in Filling Example, and state remarks.<br>ogress Report.                  |           |           |           |           |           |                                  | Re        | esident   | Enginee   | er        |      |   |        |           |
|        |  |         |   | before    |           |           | Dur       | ing e     | xecu                             | tion      |           |           | after     |      | Re  | emarks |           |
|        | Item   |         | Check Point   | Date<br>/ | Date<br>/ | Date<br>/ | Date<br>/ | Date<br>/ | Date<br>/                        | Date<br>/ | Date<br>/ | Date<br>/ | Date<br>/ |      | Reason for unsatisfactor<br>Corrective orde<br>Excellent po |        | Date)     |
| 1      | Execution system<br>in general   | 1-1     | Works Execution Programme (including its revised version if any) is<br>submitted before the date specified in contract document                       |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
|        |  | 1-2     | Works Execution Programme properly reflects the given specifications and<br>site conditions   |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
|        |  | 1-3     | Execution procedures are in accordance with Works Execution Programme   |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
| 2      | Equipment<br>holding   | 2-1     | All equipment used are properly mobilized in accordance with Works<br>Execution Programme   |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
|        |  | 2-2     | All equipment used is well maintained during the execution of works   |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
| 3      | Contractor's in-<br>house staff  | 3-1     | Qualified technical staff of contractor are properly assigned as specified in<br>Works Execution Programme  |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
|        |  | 3-2     | Contractor's in-house key staff understand work process and schedule<br>properly  |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
|        |  | 3-3     | Contractor's in-house staff give technical guidance and direction to workers<br>and operators properly and timely                                     |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
|        |  | 3-4     | Communications with authority in writing is properly and timely   |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
| 4      | Personnel<br>employment  | 4-1     | Workers and operators are deployed in accordance with Works Execution<br>Programme  |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
|        |  | 4-2     | Wage payment is properly made on time   |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
| 5      | Site base<br>facilities  | 5-1     | Office and stockyard are prepared in accordance with Works Execution<br>Programme   |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
|        |  | 5-2     | Site is well maintained during the work execution and cleared on<br>completion  |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
|        |  | 5-3     | Material stored on site is properly managed during the work execution   |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |
| 6      | Quality and<br>quantity<br>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 |         |   |           |           |           |           |           |                                  |           |           |           |           |      |   |        |           |

### Supervision Check List (2/2)

٦

|         |                             |          | - 2015  |           |           |           |           |           |           |           |           |           |           | Signature   |
|---------|-----------------------------|----------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
|         | Project Title:              |          |   |           |           |           |           |           |           |           |           |           |           | The Engineer's<br>Representative  |
|         | Contractor:                 |          | (Project Engineer)  |           |           |           |           |           |           |           |           |           |           |   |
| 2. Fill |                             | (day/mor | neer to cheok contractor's work execution process.<br>th), mark as indicated in Filling Example, and state remarks.<br>ogress Report. |           |           |           |           |           |           |           |           |           |           | Resident Engineer   |
|         |                             |          |   | before    |           |           | Du        | ing e     | execu     | tion      |           |           | after     | Remarks   |
|         | Item                        |          | Check Point   | Date<br>/ | Reason for unsatisfactory performance (3ite diary No.)<br>Corrective order by authority (Date)<br>Excellent point to be specified |
| 6       | Quality and quantity        | 6-2      | Results of material testing, structural examination and measurements are<br>within the specifications.                                |           |           |           |           |           |           |           |           |           |           |   |
|         | management                  | 6-3      | Results of material testing, structural examination, and measurements are<br>properly compiled as reports for confirmation            |           |           |           |           |           |           |           |           |           |           |   |
| 7       | Work scheduling             | 7-1      | Understanding of critical path and its reflection on scheduling are proper  | #1        |           |           |           |           |           |           |           |           |           |   |
|         |                             | 7-2      | Actual proceedings are periodically compared to the planned schedule described in Works Execution Programme                           |           |           |           |           |           |           |           |           |           |           |   |
|         |                             | 7-3      | Changes caused by site conditions are properly handled to keep Works on schedule  |           |           |           |           |           |           |           |           |           |           |   |
|         |                             | 7-4      | All works are completed within the contract term or within the extended term as allowed   |           |           |           |           |           |           |           |           |           |           |   |
| 8       | Work safety<br>management   | 8-1      | No accident occurs to workers, operators, or third-parties.   |           |           |           |           |           |           |           |           |           |           |   |
|         |                             | 8-2      | Safety of workers and operators is considered   |           |           |           |           |           |           |           |           |           |           |   |
|         |                             | 8-3      | Accident prevention efforts for third-parties are proper  |           |           |           |           |           |           |           |           |           |           |   |
|         |                             | 8-4      | Traffic and site safety devices are properly installed and managed  |           |           |           |           |           |           |           |           |           |           |   |
|         |                             | 8-5      | Temporary facilities (e.g. scaffolding) are constantly checked  |           |           |           |           |           |           |           |           |           |           |   |
| 9       | Environmental<br>and social | 9-1      | Environmental and social mitigation efforts (e.g. against noise, vibration, emission, and dust ) are conducted                        |           |           |           |           |           |           |           |           |           |           |   |
|         | management                  | 9-2      | Waste material from site is properly disposed   |           |           |           |           |           |           |           |           |           |           |   |
|         |                             | 9-3      | Damage to existing roads, works and services is avoided or are repaired<br>when it occurs   |           |           |           |           |           |           |           |           |           |           |   |
|         |                             | 9-4      | Transportation by vehicles is properly done with no overloading, and<br>neither material falling, leakage, nor spillage.              |           |           |           |           |           |           |           |           |           |           |   |
|         |                             |          | Filling Example : ✓ Check point is satis  | facto     | 137       |           | Che       | ck n      | oint i    | s 11115   | eatief    | facto     | rav.      | N/A Not applicable  |

# SECTION VIII: SPECIFICATIONS, DRAWINGS AND BILLS OF QUANTITIES

## I. SPECIFICATIONS

## Contents:

| SECTION 08     | CULVERT AND DRAINAGE WORKS           |       |
|----------------|--------------------------------------|-------|
| 08-50-002:     | Ditch Cleaning-manual                |       |
|                | Culvert cleaning - partially blocked |       |
| 08-60-006/010: | Culvert cleaning - fully blocked     | .E-17 |
|                | Concrete Pipe Culverts               |       |
| 08-70-001      | Headwall Repair - masonry            | E-19  |
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| 08-70-003      | Minor Drainage Structures - masonry  | E-20  |
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| 08-70-005      | Scour Checks – concrete              | E-21  |
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| 08-70-016      | Stone Pitching                       | E-23  |
| 08-80-002      | Gabion Installation                  | E-24  |
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### SECTION 08: CULVERT AND DRAINAGE WORKS

### Scope

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

## 08- 50-002: Ditch Cleaning (Manual)

i. Partially silted

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

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

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

#### Work Method

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

### Quality Control

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

Measurement Unit: m

The measurement shall be the length of drain desilted or cleaned to the specified crosssection.

#### Payment

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

#### ii. Fully silted

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

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

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

#### Work Method

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

#### Quality Control

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

Measurement Unit: m

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

#### Payment

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

08-60-001/005: Culvert Cleaning (partially blocked)

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

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

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

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

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

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

Work Method

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

#### Quality Control

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

Measurement Unit: m

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

Payment

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

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

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

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

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

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

All broken culvert barrels discovered in the course of carrying out this activity shall be

reported to the Engineer.

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

Work Method

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

Quality Control

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

Measurement Unit: m

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

Payment

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

08-60-016/035

#### **Concrete Pipe Culverts**

| 08-60-016<br>08-60-017<br>08-60-019<br>08-60-020<br>08-60-021<br>08-60-022<br>08-60-023<br>08-60-023<br>08-60-024<br>08-60-025<br>08-60-025<br>08-60-027<br>08-60-028<br>08-60-029 | 300<br>300<br>450<br>600<br>900<br>900<br>1200<br>1200<br>300<br>300<br>450<br>450 |                | haunched (Type II)<br>unhaunched (Type 1)<br>haunched (Type II)<br>unhaunched (Type 1)<br>haunched (Type II)<br>unhaunched (Type I)<br>haunched (Type I)<br>haunched (Type I)<br>haunched (Type I)<br>semi-surround (Type III)<br>surround (Type IV)<br>semi-surround (Type III) |
|--|--|----------------|--|
| 08-60-027  | 300  | mm             | surround (Type IV)   |
| 08-60-028  | 450  | mm             | semi-surround (Type III)   |
| 08-60-029<br>08-60-030<br>08-60-031  | 430<br>600<br>600  | mm<br>mm       | surround (Type IV)<br>semi-surround (Type III)<br>surround (Type IV)   |
| 08-60-032<br>08-60-033<br>08-60-034<br>08-60-035   | 900<br>900<br>1200<br>1200   | mm<br>mm<br>mm | semi-surround (Type III)<br>surround (Type IV)<br>semi-surround (Type III)<br>surround (Type IV)   |
|  |  |                |  |

The Contractor shall supply, lay and joint concrete pipes to form culverts, including the concrete bedding; haunching or surrounds; and backfilling, in accordance with the Drawings

for the Type and diameter specified in the Contract or directed by the Engineer.

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

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

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

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

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

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

#### Work Method

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

#### **Quality Control**

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

#### Measurement Unit: m

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

#### Payment

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

#### 08-70-001 Head Wall Repair - Masonry

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

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

#### Work Method

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

#### Quality Control

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

#### Measurement Unit: No

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

#### Payment

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

#### 08-70-002 Headwall Repair - Concrete

The activity involves the repairs to damaged concrete headwalls and wingwalls, and to inlet/outlet concrete aprons. Concrete walls shall be inspected and repair works carried out as instructed by the Engineer to include breaking out and replacement of damaged concrete with similar material, and the rendering of open texture areas with cement mortar 1:4. Broken wall sections shall be re-built in 20/20 (1:2:4) concrete within formwork erected on the correct lines and levels in accordance with the Standard Drawings. Areas of new concrete and mortar shall be protected from direct sunlight and kept moist for 3 days.

#### Quality Control

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

Measurement Unit: No

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

#### Payment

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

#### Minor Drainage Structures - Masonry

08-70-003Type I08-70-016Type 208-70-017Type 3(a)08-70-018Type 3(b)08-70-019Type 4

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

#### Work Method

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

#### Quality Control

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

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

EA

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

#### Payment

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

#### Minor Drainage Structures – Concrete

08-70-004 Type I 08-70-021 Type 3(a) 08-70-022 Type 3(b) 08-70-023 Type 4

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

Concrete shall be Class 20/20 unless otherwise specified. The formwork for the walls shall

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

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

#### Work Method

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

**Quality Control** 

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

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

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

#### Payment

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

- 08–70-005 Scour Checks (Concrete)
- 08-70-006 Scour Checks (Masonry)

#### 08-70-007 Scour Checks (Wooden Stakes)

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

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

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

| Table 8.1 : | Scour checks spacing |
|-------------|----------------------|
|-------------|----------------------|

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

#### Work method

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

Quality Control

The spacing of the scour checks shall have a tolerance of +/-0.5mThe sizes of the stakes and stones used shall be in accordance with the Drawings The shape of the scour check shall be checked using the scour check template.

Measurement Unit: No.

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

### Payment

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

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

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

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

#### Work Method

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

#### Quality Control

#### EΒ

The sizes of the stakes and stones used shall be as the original construction. The shape of the scour check shall be checked using the scour check template.

Measurement: No.

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

Payment

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

#### 08-70-011 : Stone Pitching Repair

This activity involves the repair of stone pitching on slopes, in inlet/outlet aprons and access drifts. The stone pitching shall be inspected and repairs carried out as directed by the Engineer, including the replacement and re-bedding of missing or loose stones; the repair of mortar jointing: and the cleaning out of weepholes, as required. All work shall be to the lines and levels of the original construction with new stonework and mortar being flush with the adjacent materials.

#### Work Method

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

#### Quality Control

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

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

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

Payment

The unit rate shall be full compensation, for labour, tools, materials, and incidental costs

required to carry out the work.

#### 08-70-016 : Stone Pitching

The Contractor shall lay stone pitching at locations shown on the Drawings or as directed by the Engineer, which shall include levelling the area to be covered with stone pitching, collecting stones, laying stones, applying mortar to the joints and constructing weep holes, if required.

The area to be covered with stone pitching shall be trimmed to the level and slope shown on the Drawings or as directed by the Engineer. The prepared surface shall be firm and well compacted, with hand rammers.

The stones shall have minimum dimensions of 150mm and maximum 300mm and shall be set on the flat side and securely bedded, with the largest dimensions at right angles to the flow of water, in an interlocking pattern so as to leave only a minimum of voids between the stones which shall be filled with suitably shaped and tightly wedged spalls. The top of the pitching shall be finished flush with the adjacent material.

The stones shall be placed in full contact with the surface and bedded into cement mortar 1:4 with a minimum thickness of 100 mm. The mortar shall be worked into the pitching so that the voids between the stones are filled to the full depth of the pitching. The mortar shall be finished flush with the surface of the stones.

Weep holes shall be provided to stone pitching on slopes as directed by the Engineer.

The surface of the stone pitching shall be protected from direct sunshine and kept moist for 2 days.

Work Method

The Contractor use Labour to carry out this item.

Quality Control

- EC
- The quality of pitching shall be checked for gaps and voids.
- The dimensions of the area of stone pitching shall have a tolerance of + / 100mm

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

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

#### Payment

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

#### 08-80- 002 : Gabions

The Contractor shall provide and install Gabions as retaining walls and anti-erosion structures at locations shown on the Drawings or as directed by the Engineer.

Gabions shall include mattresses and boxes and for purposes of construction, measurement and payment, no distinction shall be made between them.

Gabions shall be 'Maccaferi' boxes or 'Reno' matresses or equivalent approved by the Engineer.

The surfaces on which the Gabions are to be laid prior to being filled with rock shall be levelled to the depths and dimensions shown on the Drawings or as directed by the Engineer.

Gabion boxes shall be tied together with 3 mm galvanised binding wire securing all edges at 150mm intervals.

Work Method

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

Quality Control

The placing and tying of the Gabions shall be approved by the Engineer before filling commences.

Measurement Unit: No

The measurement shall be the number of Gabion boxes installed.

#### Payment

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

#### 08-80-003 : Rockfill to Gabions

The Contractor shall provide selected rock, crushed if necessary, and carry out the packing and compacting of the rock inside the Gabion boxes.

The boxes shall be filled in layers from the sides towards the middle in an interlocking stone matrix to prevent deformation and bulging. The interior and top layers of the boxes shall be hand packed with smaller stone to form a tightly compact structure and rammed in place. Care shall be taken to ensure that each layer of boxes is filled evenly and to a level surface

before the next course of boxes is placed.

Work method

ED

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

Quality Control

The filling and compaction of the stones in the Gabion boxes shall be approved by the Engineer.

Measurement Unit m<sup>3</sup>

Rockfill to Gabions shall be the volume of Gabions filled. **Payment** 

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

### 08-80-004 Drift Maintenance – desilting

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

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

Work Method

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

### Quality Control

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

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

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

#### Payment

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

#### 08-80-005 Drift Repairs – Concrete

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

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

Quality Control

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

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

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

Payment:

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

### 08- 80-006 Drifts (Stone Pitching)

### 08-80-007 Drifts (Concrete)

The Contractor shall construct Access drifts in grouted stone pitching and watercourse drifts in concrete at locations, and to the dimensions, shown on the Drawings or as directed by the Engineer. This shall include the provision of stone and the levelling of the areas to be covered.

The stone pitching for Access drifts shall comply with the requirement of 08–70-016 with the addition of masonry toes at each end of the drift as shown on the Drawings.

Concrete drifts shall be constructed in Class 20/20 concrete to the lines and dimensions shown on the Drawings or as directed by the Engineer.

The area to be covered shall be trimmed to the line and slope shown on the Drawings or as directed by the Engineer, and the prepared surface compacted with hand rammers or appropriate equipment. The concrete shall be poured in bays of half road width and of length 10-15 metres, between construction joints, with steel mesh reinforcement mats laid 50mm below the finished surface level. Contraction joints if required shall correspond with

the construction joints where directed by the Engineer expansion joints shall be installed at positions and to the details given by the Engineer.

The grouted stone pitching and the concrete shall be covered with wet sacking or other approved cover for not less than 4 days after laying and shall not be subject to loading until adequate strength has been developed as instructed by the Engineer.

#### Work Method

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

#### **Quality Control**

- i) Stone pitching quality shall be as for 08-70-016
- ii) Concrete shall be checked by slump test to the standard as directed by the Engineer.

Measurement Unit m<sup>3</sup>

The measurement shall be the volume of stone pitching or concrete laid, measured net according to the Drawings.

#### Payment

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

#### 08-80-008 At-level Scour Checks

The Contractor shall select and place flat stones of minimum dimensions 0.10-0.15m in gently sloping channels. The stones shall be placed in a manner to ensure minimum voids within the structure. A trench 0.2m deep by 0.2m wide shall be excavated in the invert of the channel and extended 0.2m into the slopes. Stones shall be laid up to the level of the invert with the middle section lower than the sides to form a spill way. The spacing of the checks shall be 1-4 metres, as directed by the Engineer.

#### Work Method

The Contractor shall use Labour to carry out this item.

Quality Control

The construction and spacing of the scour checks shall be checked by the Engineer.

Measurement Unit: No

The measurement shall be the number of scour checks constructed.

Payment

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

#### 08-80-009/010 Gully-head Protection

# 08-80-009Stone Chute Stabilisation08-80-010Stone and Post Chute Stabilisation

The Contractor shall construct gully-head protection works as directed by the Engineer to the dimensions and details shown on the Drawings.

The dimensions of the stones shall not be less than 200mm and the volume not less than 0.01m<sup>3</sup> for the smaller stones and pebbles to be used as the transition layer between the stone structure and the ground. No rounded stones shall be used. Posts shall be durable hardwood minimum 900mm in length and 15mm diameter.

The gully head shall be excavated as shown on the Drawings to form a firm base for the stone layers. The initial layer shall be the small stones and gravel to a depth of 150mm after which the larger stone shall be carefully placed to form a compact matrix. Posts shall be driven a minimum of 600mm into the ground at a spacing as directed by the Engineer.

Work Method

The Contractor shall use Labour to carry out this item

Quality Control

The stone dimensions and construction shall be checked by the Engineer.

Measurement Unit: No

The measurement shall be number of units constructed

Payment

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

### 08-80-011/012 Check Dams

# 08-80-011Stone Dams08-80-012Stone and Post Dams

The Contractor shall construct check dams in erosion gullies to the dimensions and details shown on the Drawings and as directed by the Engineer.

The dimensions of the stones in the main structure shall not be less than 200mm and the volume not less than 0.01 m<sup>3</sup> for the stones and pebbles for the transition layer between the stone structure and the ground. No rounded stones shall be used.

Posts shall be durable treated hardwood of minimum diameter 0.10m, of minimum length 1.6m, driven at least 600mm into the ground. Stones shall be carefully hand-packed to provide a stable structure with a minimum of voids.

| Check Dam Spacing |                             |      |      |      |      |
|-------------------|-----------------------------|------|------|------|------|
| Gradient          | Height of dam spill way (m) |      |      |      |      |
| %                 | 0.15                        | 0.25 | 0.50 | 0.75 | 1.00 |
| 5                 | 15.0                        | 25.0 |      |      |      |
| 7                 | 5.0                         | 8.7  | 17.5 | 25   | 35   |
| 10                | 2.5                         | 4.2  | 8.4  | 12.6 | 16.8 |
| 15                | 1.4                         | 2.3  | 4.6  | 6.9  | 9.2  |
| 20                | 0.9                         | 1.6  | 3.2  | 4.8  | 6.4  |
| 25                |                             | 1.3  | 2.5  | 3.8  | 5.0  |
| 30                |                             | 1.0  | 2.0  | 3.0  | 4.0  |
| 40                |                             |      | 1.6  | 2.4  | 3.2  |
| 50                |                             |      | 1.2  | 1.8  | 2.0  |

The spacing of the check dams shall be as shown in the table below:

#### Work Method

The Contractor shall use Labour to carry out this item

#### **Quality Control**

The Engineer shall check the workmanship and spacing of the check dams.

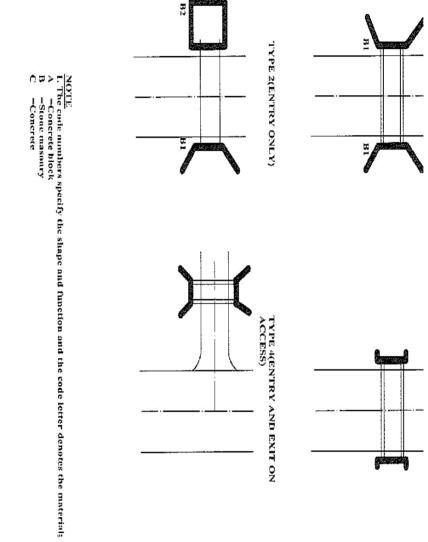
Measurement Unit: No

The measurement shall be the number of check dams constructed

#### Payment

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

# DRAWINGS



C-10

### PREAMBLE TO BILLS OF QUANTITIES

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

# **BILLS OF QUANTITIES**

(AS GENERATED FROM RMS)

## Road Code C302

Section

Name

## Package: TARBAJ-ELBEN/KeRRA/011/39/TRB/22%/36/2018-19 Contractor 0

| Bill of Quantities Page: |   |       |          |                       | Page: 1    |        |
|--------------------------|---|-------|----------|-----------------------|------------|--------|
| Bill No.1                | General: Office administration and<br>overheads/Preliminaries |       |          |                       | Project:   |        |
| Item No.                 | Description   | Units | Quantity | Unit Bid<br>Rate(Ksh) | Amount KSh | Techno |
| 01-60-001                | Contract supervision  | KS    | 66,379.3 | 1.00                  |            | LB-MB  |
|                          |   |       |          |                       | -          |        |
|                          |   |       |          |                       | -          |        |
|                          |   |       |          |                       | _          |        |
|                          |   |       |          |                       | _          |        |
|                          |   |       |          |                       | _          |        |
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|                          |   |       |          |                       |            |        |
|                          |   |       |          |                       |            |        |
|                          |   |       |          |                       | -          |        |
|                          |   |       |          |                       | -          |        |
|                          |   |       |          |                       | -          |        |
|                          |   |       |          |                       | -          |        |
|                          | Total Carried Forward to Summary                              | :     |          |                       | -          |        |

#### Road Code C302 Package: TARBAJ-ELBEN/KeRRA/011/39/TRB/22%/36/2018-19 Contractor

Section Name

0

| Bill of Quantities Page: 2 |   |       |          |                       |            |           |
|----------------------------|---|-------|----------|-----------------------|------------|-----------|
| Bill No.8                  | CULVERT AND DRAINAGE WORKS                            |       |          |                       | Project:   |           |
| Item No.                   | Description   | Units | Quantity | Unit Bid<br>Rate(Ksh) | Amount KSh | Technolog |
| 08-60-034                  | Provide , lay and join 900mm inner dia concrete pipes | MT    | 37.8     |                       | -          | LB        |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            |   |       |          |                       | -          |           |
|                            | Total Carried Forward to Summary:                     |       |          |                       | -          |           |

| Structure: | C302<br>ARBAJ-ELBEN/KeRRA/011/39/TRB/22%/36/2018-19<br>0   | Section Name<br>Tarbaj-Elben-Mansa |
|------------|--|------------------------------------|
| Bill of    | Quantities   | Page: 1                            |
|            | Summary  | Project:                           |
| Item No.   | Description  | Amount (KShs)                      |
| 1          | General: Office administration and overheads/Preliminaries | -                                  |
| 8          | CULVERT AND DRAINAGE WORKS                                 | -                                  |
|            |  |                                    |
|            |  |                                    |
|            |  |                                    |
|            |  |                                    |
|            |  |                                    |
|            |  |                                    |
|            |  |                                    |
|            |  |                                    |
|            |  |                                    |
|            | Sub Total  | -                                  |
|            | VAT @ 16 %   | -                                  |
|            | Total  | -                                  |
|            | Contingencies (@ 0%)                                       | -                                  |
|            | Carried to page on the form of Tender                      | -                                  |