# COUNTY GOVERNMENT OF MERU

## DEPARTMENT FOR TRANSPORT AND INFRASTRUCTURE

# MITUNGUU HOSPITAL LOOP PAVING IN MITUNGUU WARD

## THE COUNTY SECRETARY

## THE MERU COUNTY GOVERNMENT

## P.O BOX 120-60200

## MERU

## TENDER NO: CGM/ONT/186/2016/2017

# 1 Table 1: Summary of Instructions to the Tenderers

| Item #. | | Mandatory qualification Requirements | |
|---|---|---|---|
| 1 | | ELIGIBILITY - Copy of National ID or passport for all Directors | |
| 2 | | BID SECURITY - Unconditional guarantee, in the format and conditions provided<br>Must be valid for 150days | |
| 3 | | Attending pre-tender site visit for the works. | |
| 4 | | Certified Copy of Certificates of Registration/Incorporation. | |
| 5 | | Principal place of business (attach business permit or trading license) | |
| 6 | | Certified Certificate of registration with National Construction Authority | |
| 7 | | Certified Copy of Tax compliance certificate | |
| 8 | | Properly and dully filled Form of Tender | |
| 9 | | Properly and dully filled Tender Questionnaire | |
| 10 | | Properly and dully filled Confidential Business Questionnaire | |
| | | Technical Qualification Requirements | |
| 11 | | Financial Capacity | |
| | 1 | **Company turnover for the last two years** | |
| | 2 | **Profitability of the company for the last two years** | |
| | 3 | Past two years Audited Financial Reports of the tenderer | |
| | 4 | Current one year Bank statement. | |
| 12 | | Contractual misconducts and litigation - Legal Capacity/Litigation History (attach affidavit) | |
| 13 | | Experience (5 YEARS AND ABOVE) | |
| | | Bidder to submit the following<br>- Completion certificate, Taking Over Certificate or Substantial Completion Certificate of relevant work in the previous 5 years<br>- Value of ongoing work must be < 50% of | |
| | A | Specific Experience in Related Works - Attach certificate of completion | |
| 14 | | Key personnel - Provide List of professional and technical staff and their resume - General Experience (CV), - Certified Qualification Certificate | |
| | b | Site Agent - Degree (Civil Engineering) | |
| | C | Diploma(Civil Engineering) | |
| | c | Certificate(Civil Engineering) | |
| | | | |
| | | | |
| 15 | A | Equipments | |
| | | Bidder to submit the following - Ownership list of required equipment and/or Authorization letter of hiring from M&T or reputable hiring company | |
| 16 | | **Registration as a contractor with NCA** | |

| | | | |
|---|---|---|---|
| | | 1. NCA 1 [building/roads]<br>2. NCA 2 [building/roads]<br>3. NCA 3 [building/roads]<br>4. NCA 4 [building/roads]<br>5. NCA 5 [building/roads]<br>6. NCA 6 [building/roads]<br>7. NCA 7 [building/roads] | |
| 17 | a | WorkingSchedule and Projected CashFlow. | |
| | | Bidder to submit the following Proposals<br>1. Signed work program chart<br>2. Signed Cash flow plan during the Contract period. | |
| 18 | | Certification as true the above information | |
| 19 | | The formula for determining financial score is GIVEN in the document as follows:<br><br>The formulae for determining the Financial Score (Sf) shall: - Sf = 100 X FM/F where Sf is the financial score; Fm is the lowest priced tender and F is the price of the tender under consideration. Tenders will be ranked according to their combined technical *(St)* and financial *(Sf)* scores using the weights *(T*=the weight given to the Technical score: *P* = the weight given to the Financial score; *T* + *p* = I) indicated in the Appendix. The combined technical and financial score, S, is calculated as follows: - *S* = *St* x *T* % + *Sf*x *P* %.<br>Appendix to information to TENDERERS. Assigns weight of **0.8** to technical score and **0.2** to financial score. | |

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## INVITATION FOR TENDERS

**MITUNGUU HOSPITAL LOOP PAVING**

1.1 The **County Government of Meru** invites sealed tenders for the **spot improvement** and **Routine maintenance** of the above mentioned roads respectively**.**

1.2 Interested eligible candidates may obtain further information and inspect tender documents at **MERU COUNTY HEADQUATERS**, ROOM **118, MERU COUNTY GOVERNORS OFFICES, BOX 120 MERU** during normal working hours.

1.3 A complete set of tender documents may be obtained by interested candidates free of charge.

1.4 Tender surety security in the amount of 2% of the tendered sum is required as detailed in the instructions to bidders.

1.4 Prices quoted should be net inclusive of all taxes, must be in Kenya shillings and shall remain valid for 90 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 **MERU COUNTY GOVERNORS OFFICES,GROUND FLOOR** or to be addressed to MERU **COUNTY GOVERNMENT,BOX 120 MERU** so as to be received on or before 12.00 hours on…….

1.6 Tenders will be opened immediately thereafter in the presence of the candidates or their representatives who choose to attend.

…… (Signed)

## 2 FORM OF TENDER

TO: CHIEF EXCECUTIVE OFFICER, DEPARTMENT OF TRANSPORT AND INFRASTRUCTURE
MERU COUNTY GOVRNMENT _____ *[Date]*

*Name of Contract*: **MITUNGUU HOPITAL LOOP PAVING IN MITUNGUU WARD**

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities/Schedule of Rates for the execution of the above Works, **We,** the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs._____*[Amount in figures]*Kenya Shillings_____ _____*[Amount in words]*

2. We undertake, if our Tender is accepted, to commence the Works on the commencement date and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix.

3. We agree to abide by this Tender until _____ *[Insert date]*, and it shall remain binding upon us and may be accepted at any time before that date.

4. Unless and until a formal Agreement is prepared and executed this Tender together with your written acceptance thereof, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____20_____

Signature _____in the capacity of_____
duly authorized to sign Tenders for and on behalf of _____*[Name of Tenderer*] of _

_____[*Address of Tenderer]*

Witness: Name_____

Address_____

Signature_____

Date_____

AGREEMENT

BETWEEN

THE GOVERNMENT OF THE REPUBLIC OF KENYA

AND

---

This Contract is made this…….day of…….20……
between THE GOVERNMENT OF KENYA, represented by the COUNTY GOVRNMENT OF MERU of P.O. Box 120 – 60200,MERU (Hereinafter called the Employer) acting through his representative CHIEF EXCECUTIVE OFFICER, DEPARTMENT OF TRANSPORT AND INFRASTRUCTURE , P.O. Box 120 , MERU of the one part and also of…….. (Hereinafter referred to as "the Contractor") of the other part.

Whereas the Employer is desirous of improving and maintaining the roads as described below,

Name of the project: **MITUNGUU HOSPITAL LOOP PAVING**
**IN MITUNGUU WARD**

County : MERU.

Constituency: IMENTI SOUTH

Ward : MITUNGUU

and has accepted the Offer of the Contractor to execute improvement and maintenance works as defined hereinafter, AND Whereas the Contractor represented to the Employer that he has the required capacity and ability, and has agreed to execute the Works on the Terms and Conditions set forth in this Contract, for the Tender Sum of Kshs ……..…….....…….(words) …….(figures)

**NOW THEREFORE** the Parties hereto agree as follows:

## Article 1: GENERAL PROVISIONS

1.1. The documents forming the Contract are to be taken as mutually explanatory. If ambiguity or discrepancy is found in the documents the Employer shall issue necessary instructions to the Contractor.

The language of the Contract shall be English. The law of the Contract is the Republic of Kenya.

## Article 2: OBLIGATIONS OF THE EMPLOYER

The Employer shall provide the Site and right of access thereto at the date of Commencement.

The Employer shall ensure that the Contractor's claims for payment are settled timeously.

The Employer shall inspect the Contractor's work regularly.

No approval or consent or absence of comment by the Employer shall affect the Contractor's obligations.

## Article 3: EMPLOYER'S REPRESENTATIVE

The County Government of Meru will have overall responsibility for the Contract, and will be represented by the Department of transport and Infrastructure for the day-to-day management of the Contract.

The Chief Executive Officer shall appoint and provide a Road Supervisor by the name of……..... who shall from time to time assign work to the Contractor. The Engineer shall notify the Contractor in writing of any change in the Road Supervisor.

3.3. The Chief Executive Officer shall provide the Contractor with an initial Work plan against which the Contractor shall carry out the Works. The Chief Executive Officer shall be entitled to vary the Work plan according to circumstances and to issue instructions to the Contractor accordingly.

## Article 4: CONTRACTOR'S OBLIGATIONS

The Contractor shall carry out the Works described in Annex 1and the Work Plan Annex 3 properly and in accordance with the Contract. The Contractor shall provide all supervision, labour and tools which may be required.

The Contractor shall submit to the Employer for consent the name and particulars of the person authorized to receive instructions on behalf of the Contractor.

The Contractor shall comply with all instructions given by the Employer in respect of the Works.

The Contractor shall not subcontract any part of the Works without the consent of the Employer.

The Contractor shall, in the implementation of this contract, use labour based methods whenever possible.

The Contractor shall recruit labour for the Works from the local communities and shall take particular note of the Government policy on the recruitment of women and youth. The target for each group shall be 30% of the labour force, which the Contractor shall take all possible measures to attain.

The Contractor shall comply with the Kenya Labour Laws in respect of the rights working conditions and wages for the labour force. The task rates set for labour shall be approved by the Engineer.

In the event of the failure of the Contractor to pay the labour the Employer shall be entitled to pay directly and to deduct the appropriate amount, plus a 10% administrative charge, from any monies due to the Contractor under the Contract.

The Contractor shall maintain records of time worked and remuneration paid to his/her employees and shall avail these records to the Employer for inspection when so requested.

The Contractor shall set fair and manageable task rates to each labourer, in consultations with the Employer.

## Article 5: DESIGN BY CONTRACTOR

The Contractor shall not be responsible for any Works design.

## Article 6: EMPLOYER'S RISKS

6.1 Any failure by the Employer and any delay or disruption caused by any Variation are the relevant Employer's Risks.

## Article 7: TIME FOR COMPLETION

The Contractor shall commence the Works on the Commencement Date……..... and shall proceed expeditiously and without delay and shall complete the Works within the Time for Completion, given as Four (4) months.

7.2 The Contractor shall be entitled to an extension of the Time for Completion where delay is caused by an action, or failure of action of the Employer and/or any other unforeseen

circumstance. All such extension of time must be requested by the contractor timeously and approved by the Employer

## Article 8: TAKING OVER

8.1. The Contractor may notify the Employer when the Works are considered to be complete.

The Employer shall notify the Contractor when he considers that the Contractor has completed the Works and stating the date accordingly. Alternatively the Employer may notify the Contractor that the Works, although not fully complete, are ready for taking over, stating the date accordingly. The Contractor shall promptly complete any outstanding work.

## Article 9: REMEDYING DEFECTS

9.1. The Employer may, within one month after the Completion date in 8.2, notify the Contractor of any defects. The Contractor shall remedy at no cost to the Employer any defects due to the Contractor's workmanship not being in accordance with the Contract.

## Article 10 VARIATIONS AND CLAIMS

The Employer may instruct Variations

The Employer shall value the Variations using appropriate rates within the Contract or by a lump sum price agreed between the Parties, or by new rates which the Engineer considers appropriate.

## Article 11: CONTRACT PRICE AND PAYMENT

At not less than monthly intervals, the Contractor shall measure the Works in accordance with the Bill of Quantities and shall submit a statement to the Road Supervisor. No Payment shall be made for Mobilisation and Establishment of the Site. The Road Supervisor shall certify on the statement to the Engineer that the Works have been completed satisfactorily.

The Employer shall pay the Contractor, upon the Engineer's approval of the Contractor's statement, within 30 days of the date of the certification of the statement. If the Employer disagrees with any part of the Contractor's statement, he shall specify his reasons for disagreement when making payment. The Employer shall not be bound by any sum previously considered by him to be due to the Contractor.

## Article 12: DEFAULT

The Employer shall give notice to the Contractor where he considers the Contractor to be in default of the Contract. If the Contractor fails to remedy the default within a stated period the Employer may give notice of the termination of the Contract.

After termination the Contractor shall be entitled to payment of any unpaid balance of the value of the Works executed.

**Article 13: RISK AND RESPONSIBILITY**

The Contractor shall take responsibility for the care of the Works from the Commencement Date to the date of Take Over.

**Article 14: INSURANCES**

The Contractor, prior to commencing the Works, shall effect Third Party and Workers Compensation Insurances and provide evidence to the Employer that the required policies are in force.

**Article 15: RESOLUTION OF DISPUTES**

The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with the Contract.

Any dispute not resolved under 15.1 shall be referred to a single Arbitrator nominated by ……. in whose Area the Contract is located in accordance with, and subject to the provision of the Arbitration Act of Kenya or any Statutory Modification thereof.

**Article 16 CONDITIONS OF CONTRACT**

It is understood that these Conditions of Contract follow the FIDIC Short Form of Contract which shall be referred to for any necessary clarification

It is hereby understood that the Annexes to the Contract shall be read together with the Contract and shall form an integral part of it.

In witness whereof of the duly authorised representatives of the Parties hereto have signed this Contract the day and the year first written at …….Kenya.

| | |
|---|---|
| --- | --- |
| For and on behalf of the<br>Government of Kenya<br>County government of Meru<br>Department of roads and Infrastructure | Contractor |
| …… | …… |
| Witness | Witness |

### 2.1.1 EXTENT OF WORKS

The works to be executed under this Contract comprise the following:-

Culverts and drainage works

## BILL 01: PRELIMINARY AND GENERAL ITEMS

Scope:

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

### 01-50- 001 Mobilization and Establishment of the Site

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

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

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

Measurement and Payment: NA

### 01-60- 001 Contract Supervision

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

Measurement and Payment:

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

Work Method: NA

**01-60- 002 Clearance on Completion**

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

Measurement and Payment

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

Work Method: NA

**01-60-003 Insurance**

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

Measurement and Payment

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

Work Method: NA

**01-60-004 Quality Control Tests**

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

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

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

Measurement and Payment

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

Work Method: NA

**01-60-005 Publicity Sign Boards**

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

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

Quality Control

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

Measurement: Number

The unit of measurement shall be number of Sign Boards erected

Payment

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

Work Method: N

**01-60- 006 Drinking Water**

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

Quality Control

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

Measurement and Payment

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

Work Method: **LB**

**01-60-007 Provision of site sanitation facilities**

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

**01-60-007 Provision of site sanitation facilities**

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

## BILL 08: CULVERT AND DRAINAGE WORKS

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

**08-50-002: Ditch Cleaning**

i Partially silted

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

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

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

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

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

Quality Control

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

Measurement Unit: m

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

Payment

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

ii Fully silted

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

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

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

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

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

Quality Control

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

Measurement Unit: m

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

Payment

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

**08-50-003: Ditch Works earth fills.**

This activity involves the reinstatement/protection works of culvert outlets by filling the resultant eroded ditch gullies with specified suitable soft material to ensure free passage of water at all times without causing further damage. The ditch shall be excavated to firm ground and shaped to the required suitable shape (depth, width, levelled and smoothened) to the satisfaction of the engineer prior to filling. The fill material shall be deposited in layers as directed by the Engineer.

The filling shall be carried with approved soft material and compacted in layers not exceeding 150 mm loose depth or in thickness that shall not exceed the maximum that the equipment and method of operation can process to meet the required compaction as directed by the Engineer.

The Contractor shall first reshape the eroded ditch gullies to suitable shapes for working, remove any unsuitable materials, supply, dump, spread and process and compact in accordance with Section 508 of the Standard Specifications or as instructed by the engineer.

Work Method: LB-MB

Quality Control:

The Engineer shall approve the borrow materials, measure the volume of the borrow fill materials, the compaction achieved of each layer and the gradient of the out fall to avoid further erosion.

Measurement Unit: $m^3$

The measurement shall be the volume of the fill material excavated, transported and deposited to fill the ditch gullies.

Payment:

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

**08-50-004: Ditch Works rock fills. Supply and fill**

This activity involves the reinstatement/protection works of culvert outlets by filling the resultant eroded ditch gullies with specified suitable hard material to ensure free passage of water at all times without causing further damage. The ditch shall be excavated to firm ground and shaped to the required suitable shape (depth, width, levelled and smoothened) to the satisfaction of the engineer prior to filling. The fill material shall be deposited in layers as directed by the Engineer.

The filling shall be carried with approved hard material and compacted in layers not exceeding 150 mm loose depth and systematically compacted by at least 8 passes of a towed vibrating roller weighing not less than 5 tonnes dead weight or in thickness that shall not exceed the maximum that the equipment and method of operation can process to meet the required compaction as directed by the Engineer. During compaction the surface of the layer shall be watered as necessary to facilitate the filling of the voids with the blinding material.

The Contractor shall first reshape the eroded ditch gullies to suitable shapes for working, remove any unsuitable materials, supply, dump, spread and process and compact in accordance with Section 508 of the Standard Specifications or as instructed by the engineer.

Work Method: **LB-MB**

Quality Control:

The Engineer shall approve and measure the volume of the hard materials, the compaction achieved of each layer and the gradient of the out fall to avoid further erosion.

Measurement Unit: $m^3$

The measurement shall be the volume of the hard material excavated, transported and deposited to fill the ditch gullies to the desired level.

Payment:

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

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

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

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

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

Quality Control

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

Measurement Unit: $m^3$

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

Payment

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

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

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

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

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

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

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

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

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

Work Method: **LB**

Quality Control

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

Measurement Unit: **m**

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

Payment

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

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

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

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

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

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

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

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

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

Work Method: **LB**

Quality Control

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

Measurement Unit: m

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

Payment

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

**08-60-016**
**08-60-021/029 Supply and Installation of Concrete Pipe Culverts**

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

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

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

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

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

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

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

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

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

Work Method: **LM-MB**

Quality Control

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

Measurement Unit: m

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

Payment

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

**08- 60-017 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.

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

Work Method: **LB**

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.

**08-60-018 Headwall Repair - Concrete**

The activity involves the repairs to damaged concrete headwalls and wing walls, 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.

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

Work Method: **LB**

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.

**08-60-019 Headwall Construction - Masonry**

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

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

Work Method: **LB-MB**

Quality Control

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

Measurement Unit: $m^3$

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

Payment

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

**08-60-020 Headwall Construction – Concrete**

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

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

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

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

Work Method: **LM-MB**

Quality Control

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

Measurement Unit: $m^3$

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

**Payment**

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

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

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

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

Work Method: **LM-MB**

Quality Control

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

Measurement Unit: m

The measurement shall be the length of culvert laid.

**Payment**

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

**08-70-004: Gabion Installation**

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' mattresses 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.

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

Work Method: **LB**

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.

**08-70-005: Rock fill 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.

The Contractor shall use a combination of **Labour** and transport **Equipment** to carry out this activity.

Work method: **LB-MB**

Quality Control

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

Measurement Unit $m^3$

Rock fill 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.

**08-70-006: Construction of Scour Checks (Concrete)**
**08-70-007: Construction of Scour Checks (Masonry)**
**08-70-008: Construction of Scour Checks (Wooden Stakes)**

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

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

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

Table 8.1 : Scour checks spacing

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

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

Work method: **LB**

Quality Control

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

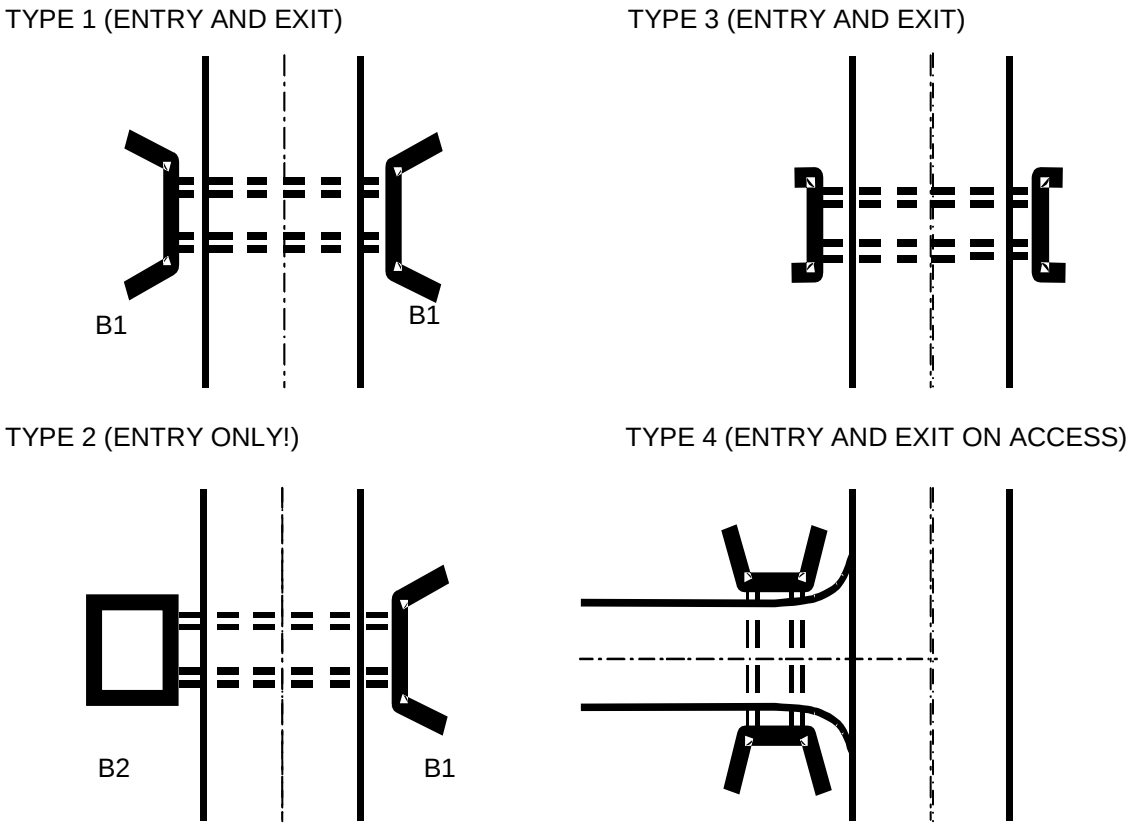
Measurement Unit: No.

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

*Payment*

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

**FIGURE C.7 - CULVERT ENTRY / EXIT STRUCTURE TYPES**




**NOTE**

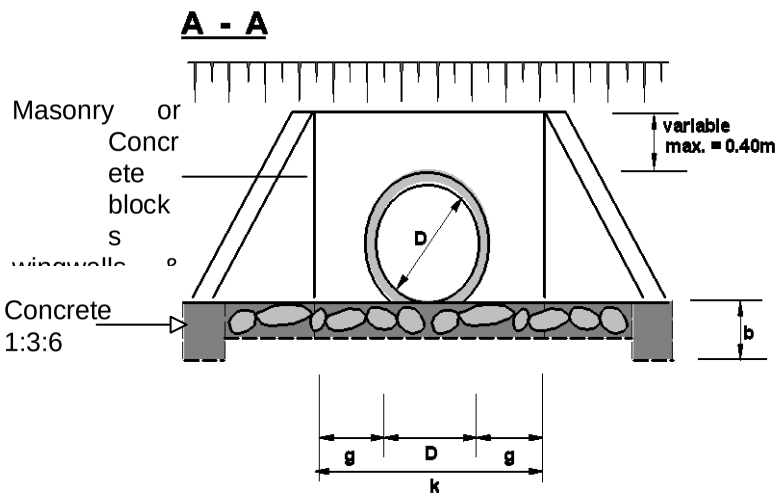
**Coding system has been used in describing the standardised designs of the**

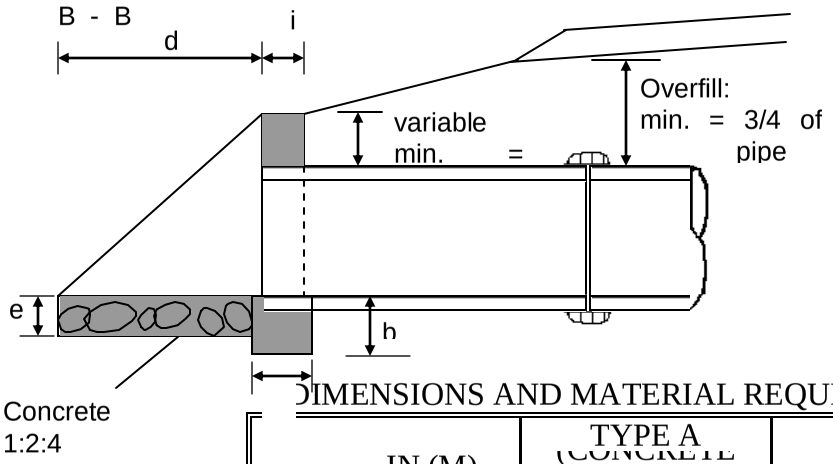
**various culvert entry and exit structures. The code names consist of a number to specify shape and function as elaborated in above while the used construction materials are identified through an alphabetic symbol as follows:**

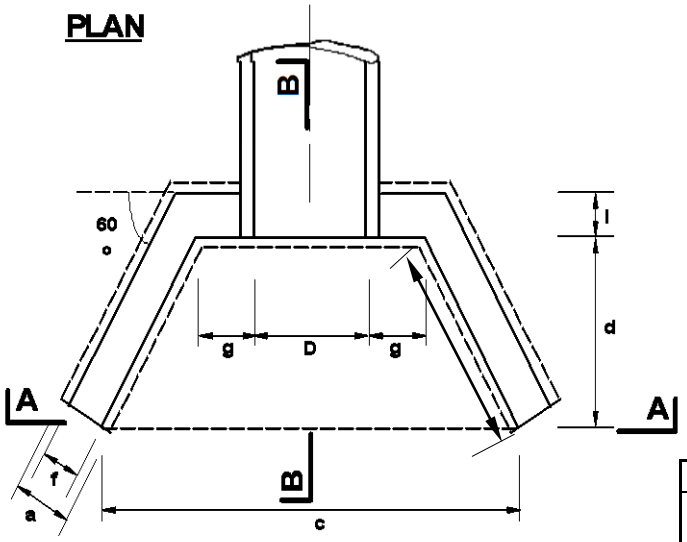
**A = Concrete block**
**B = Stone masonry**
**C = Dressed stones**

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

**FIGURE C.8 - HEADWALL TYPE 1 (HEAD AND WINGWALLS)**



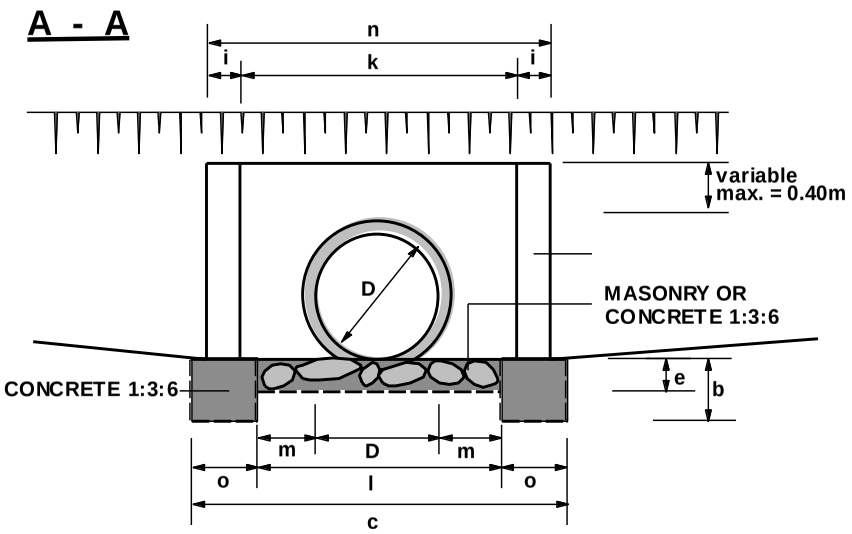



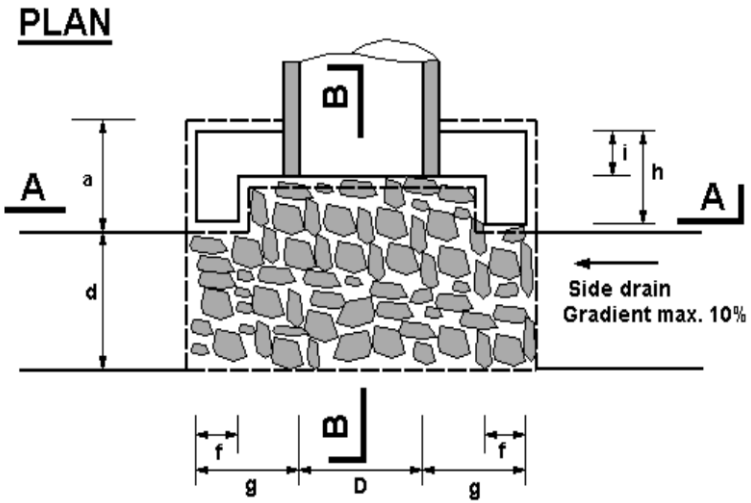



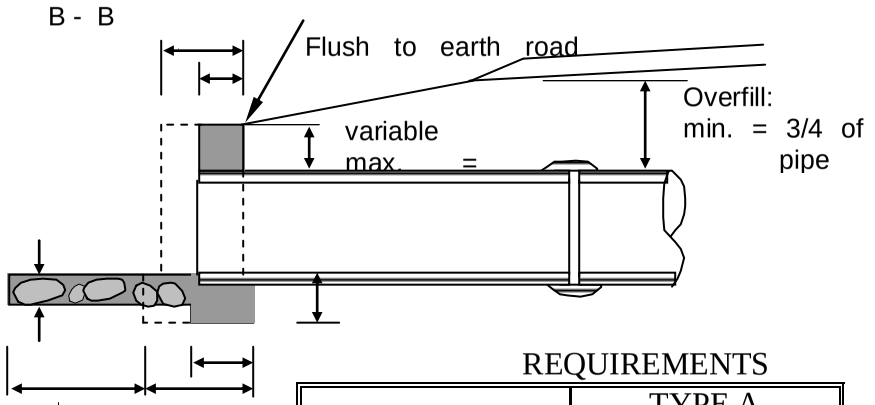

DIMENSIONS AND MATERIAL REQUIREMENTS

| | IN (M) | | TYPE A (CONCRETE BLOCKS) | | | TYPE B MASONR | | |
|---|---|---|---|---|---|---|---|---|
| | | | 450 | 600 | 900 | 450 | 600 | 900 |
| | N UNIT | | | | | | | |
| a | ON | m | 0.30 | 0.30 | 0.30 | 0.40 | 0.40 | 0.60 |
| b | ON | m | 0.30 | 0.30 | 0.40 | 0.30 | 0.30 | 0.40 |
| c | ON | | 2.20 | 2.35 | 2.89 | 2.20 | 2.35 | 2.89 |
| d | APRON | m | 1.00 | 1.00 | 1.20 | 1.00 | 1.00 | 1.20 |
| e | APRON | m | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| f | WALL | m | 0.20 | 0.20 | 0.20 | 0.40 | 0.40 | 0.40 |
| g | WALL | m | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| h | WALL | m | 1.15 | 1.15 | 1.39 | 1.15 | 1.15 | 1.39 |
| I | WALL | m | 0.20 | 0.20 | 0.20 | 0.40 | 0.40 | 0.40 |
| k | APRON | m | 1.05 | 1.20 | 1.50 | 1.05 | 1.20 | 1.50 |
| | REQUIREMENT | | | | | | | |
| | FOUNDATION (Concrete) | $m^3$ | 0.3 | 0.32 | 0.51 | 0.4 | 0.42 | 1.03 |
| | ALLS nry) | $m^3$ | 0.4 | 0.47 | 0.67 | 0.8 | 0.93 | 1.35 |
| | APRON (Concrete) | $m^3$ | 0.33 | 0.36 | 0.53 | 0.33 | 0.36 | 0.53 |

| CULVERT PIPES | |
|---|---|
| X-SEC | No. of Pipes |
| 4.50 | 6.00 |
| 5.50 | 7.00 |
| 6.50 | 8.00 |



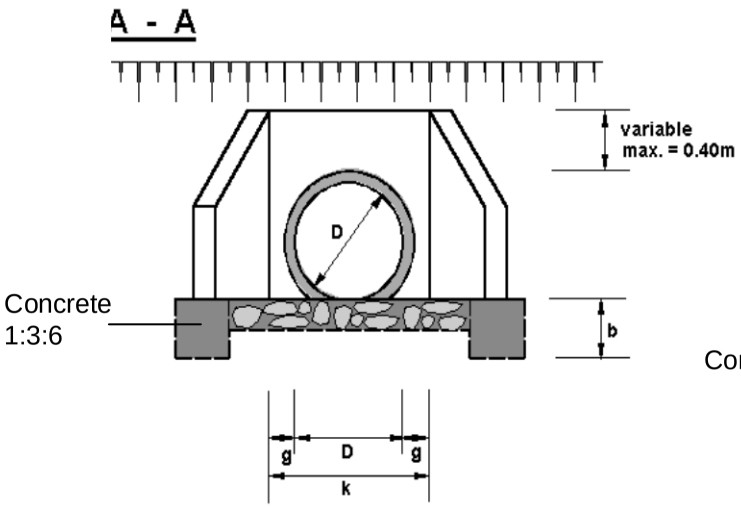



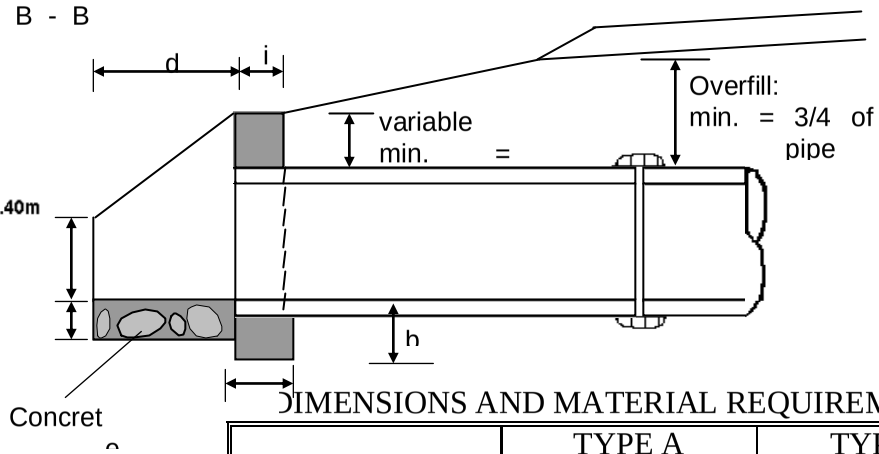




REQUIREMENTS

| IN (M) | | | TYPE A (CONCRETE BLOCKS) | |
|---|---|---|---|---|
| | | | 450 | 600 |
| | N | UNIT | | |
| a | ON | m | 0.50 | 0.50 |
| b | ON | m | 0.30 | 0.30 |
| c | ON | | 1.55 | 1.70 |
| d | APRON | m | 0.60 | 0.60 |
| e | APRON | m | 0.20 | 0.20 |
| f | HEADWALL | m | 0.20 | 0.20 |
| g | HEADWALL | m | 0.50 | 0.50 |
| h | HEADWALL | m | 0.40 | 0.40 |
| I | HEADWALL | m | 0.20 | 0.20 |
| k | HEADWALL | m | 1.05 | 1.20 |
| l | ON | m | 0.95 | 1.10 |
| m | ON | m | 0.25 | 0.25 |
| n | HEADWALL | m | 1.45 | 1.60 |
| o | ON | m | 0.30 | 0.30 |
| REQUIREMENT | | | | |
| FOUNDATION (Concrete) | | $m^3$ | 0.23 | 0.19 |
| ALLS nry) | | $m^3$ | 0.31 | 0.34 |
| APRON (Concrete) | | $m^3$ | 0.95 | 0.99 |

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



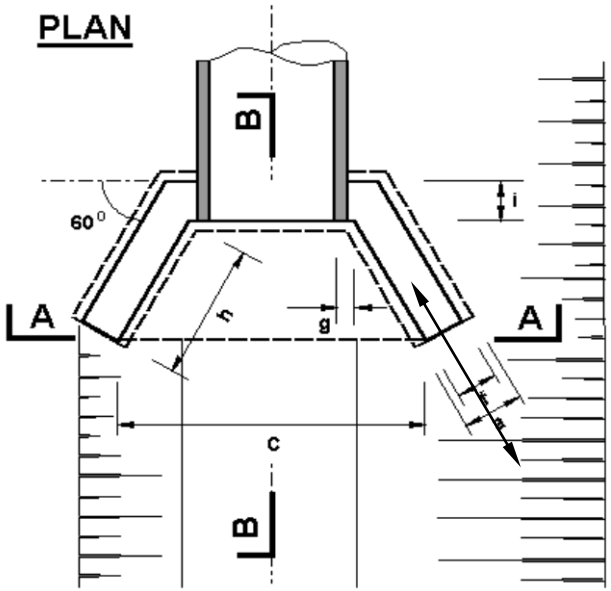
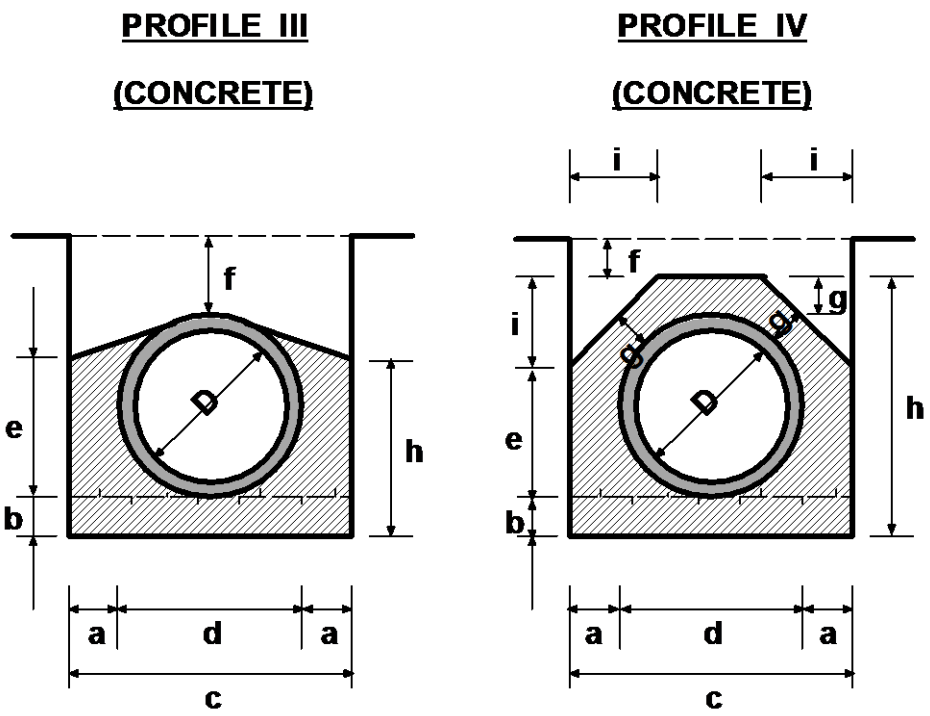




**FIGURE C.12 - HEADWALL TYPE 4 ( FOR ACCESS CULVERTS)**

**DIMENSIONS AND MATERIAL REQUIREMENTS**

| IN (M) | | TYPE A (CONCRETE BLOCKS | | | TYPE B MASONR | | |
|---|---|---|---|---|---|---|---|
| | | 450 | 600 | 900 | 450 | 600 | 900 |
| N | UNIT | | | | | | |
| a | ON m | 0.30 | 0.30 | | 0.40 | 0.40 | |
| b | ON m | 0.30 | 0.30 | | 0.30 | 0.30 | |
| c | APRON | 1.34 | 1.49 | | 1.34 | 1.49 | |
| d | APRON m | 0.60 | 0.60 | | 0.60 | 0.60 | |
| e | APRON m | 0.20 | 0.20 | | 0.20 | 0.20 | |
| f | S m | 0.20 | 0.20 | | 0.40 | 0.40 | |
| g | S m | 0.10 | 0.10 | | 0.10 | 0.10 | |
| h | S m | 0.69 | 0.69 | | 0.69 | 0.69 | |
| I | S m | 0.20 | 0.20 | | 0.40 | 0.40 | |
| k | S m | 0.65 | 0.80 | | 0.65 | 0.80 | |
| I | S m | 0.40 | 0.40 | | 0.40 | 0.40 | |
| REQUIREMENT | | | | | | | |
| FOUNDATION (1:3:6) | $m^3$ | 0.18 | 0.2 | | 0.24 | 0.26 | |
| ALLS nry) | $m^3$ | 0.25 | 0.29 | | 0.50 | 0.58 | |
| APRON (Concrete) | $m^3$ | 0.12 | 0.14 | | 0.12 | 0.14 | |

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




**BILL 9: PASSAGE OF TRAFFIC**

**09-50-001**

**Construct and maintain 3m wide deviation**

**09-50-002**

**Maint**

| Diameter (D) | 450 (mm) | 600 (mm) | 900 (mm) |
|---|---|---|---|
| | Dimensions in (m) | | |
| a | 0.15 | 0.2 | 0.2 |
| b | 0.1 | 0.15 | 0.15 |
| c | 0.86 | 1.12 | 1.48 |
| d | 0.56 | 0.72 | 1.08 |
| e | 0.42 | 0.54 | 0.81 |
| f (min.) | 0.23 | 0.3 | 0.45 |
| g | - | - | - |
| h | 0.52 | 0.69 | 0.96 |
| i | - | - | - |
| Concrete | Volume in (m3/m) | | |
| | 0.26 | 0.47 | 0.71 |
| Application | - Fair subgrade condition;<br>- Overfill > ¾ Diameter;<br>- Seasonal waterflow only. | | |
| Remarks | - Use gravel material for back/ overfill. | | |

| 450 (mm) | 600 (mm) | 900 (mm) |
|---|---|---|
| Dimensions in (m) | | |
| 0.15 | 0.2 | 0.2 |
| 0.1 | 0.15 | 0.15 |
| 0.86 | 1.12 | 1.48 |
| 0.56 | 0.72 | 1.08 |
| 0.46 | 0.52 | 0.78 |
| 0.15 | 0.15 | 0.15 |
| 0.15 | 0.15 | 0.15 |
| 0.81 | 1.02 | 1.38 |
| 0.28 | 0.35 | 0.45 |
| Volume in (m3/m) | | |
| 0.37 | 0.61 | 0.92 |
| - Fair to poor subgrade Condition;<br>- Overfill > ¾ Diameter;<br>- Seasonal waterflow only. | | |
| - Use gravel material for back/ overfill. | | |

**ain existing public road**

**09-50-003 Construct and maintain 3 m wide temporary vehicle bridge**

These activities should be done in accordance with Bill 9, sub clauses 9.01 to 9.12 in the Standard Specifications for Roads and Bridges 1986.

**09-50- 004 Traffic Control**

The Contractor shall provide warning signs, fences, barriers, which shall be properly positioned in advance of the Works to ensure that passage of traffic is well and safely accommodated for the duration of the Works.

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

Quality Control

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

Measurement and Payment

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

Work Method: NA

**BILL 25: HIV/AIDS AWARENESS AND PREVENTION CAMPAIGN**

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

**25-50-001 HIV / AIDS Awareness and Prevention Campaign**

The Contractor shall institute an HIV / AIDS awareness and prevention campaign amongst his workers for the duration of the Contract. The awareness campaigns shall be carried out in consultation and guidance of Ministry of Public Health or Local service providers approved by the Ministry of Public Health.

The Contractor shall display AIDS awareness posters in all buildings frequented by workers employed on the Contract, where such buildings fall under the control of the Contractor.

In addition at least two of the Contractors vehicles regularly used on site shall display HIV / AIDS awareness posters. The posters shall be printed on gloss paper and shall be at least A1 size on buildings and A3 size or other approved size on vehicles.

Aids awareness shall also be included in the orientation process of all workers employed on the Contract.

As part of the campaign the Contractor will be required to make condoms available to his workers.

Payment:

The contractor shall include costs for carrying out AIDS awareness and prevetion campaign in his rates.

### 25-50-003 Baraza's for Cross-cutting Issues

The Contractor shall arrange and conduct meetings and/or training sessions for workers and staff on cross-cutting issues, including Community Participation, Environmental Mitigation, Gender Rights, HIV/AIDS, Workers Rights at times and locations directed by the Engineer.

## 3 PREAMBLE TO BILLS OF QUANTITIES

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.

The prices and rates to be inserted in the Bill of Quantities are to be the full, inclusive value of the work described under the several items including all costs and expenses which may be required in and for the execution of the work described and for the Contractor's overheads and profits.

Each item in the B/Q contains only a brief description of the proposed work. Fuller details and directions of the work to be done, the materials to be used, the standards of workmanship, methods of measurement and payment are to be found in the various sections of the Specifications.

The Quantities set forth in the Bill of Quantities are estimated and representing substantially the work to be carried out. There is no guarantee to the Contractor that he will be required to carry out all the quantities of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of work actually done in fulfilment of his obligation under the Contract.

# MITUNGUU HOSPITAL LOOP PAVING,
# FINAL DOCUMENT

| Bill of Quantities | | | | | Page: 1 | |
|---|---|---|---|---|---|---|
| Bill No.1 | GENERAL: OFFICE ADMINISTRATION AND OVERHEADS/PRELIMINARIES | | | | Project: | |
| Item No. | Description | Units | Quantity | Unit Bid Rate(Kshs) | Amount Kshs | Technology |
| 01-50-001 | Allow 5% of engineers estimate as supervision allowances | SUM | 202,500 | 0.86 | 174,150 | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| | | | | | | |
| | **Total Carried Forward to Summary:** | | | | **174,150.00** | |

| Bill of Quantities | | | | | Page: 2 | |
|---|---|---|---|---|---|---|
| **Bill No.23** | **CONCRETE PAVING BLOCK** | | | | **Project:** | |
| **Item No.** | **Description** | **Units** | **Quantity** | **Unit Bid Rate(Kshs)** | **Amount Kshs** | **Technology** |
| 23-02-001 | Supply ,lay and compact 60 mm thick precast concrete paving block with 49 $N/MM^2$ Cube crushing strength conforming to BS 6717 PART 1 of 1986 or Kenya bureau of standard equivalent including 30 mm thick sand/quarry dust | $M^2$ | 1,500 | | | LB/MB |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | **Total Carried Forward to Summary:** | | | | | |

| **Bill of Quantities** | | Page: 3 |
|---|---|---|
| | **Summary** | **Project:** |
| **Item No.** | **Description** | **Amount (Kshs)** |
| 1 | GENERAL: OFFICE ADMINISTRATION AND OVERHEADS/PRELIMINARIES | **174,150.00** |
| 23 | CONCRETE PAVING BLOCK | |
| | | |
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| | | |
| | **SUB TOTAL** | |
| | ***VAT all inclusive*** | **00.00** |
| | **TOTAL CARRIED TO PAGE ON THE FORM OF TENDER** | |

**STANDARD FORMS**

**(i) Form of Invitation for Tenders**

**(ii) Letter of Acceptance**

**(iii) Form of Tender Security**

**(iv) Performance Bank Guarantee**

**(v) Bank Guarantee for Advance Payment**

**(vi) Tender Questionnaire**

**(vii) Confidential Business Questionnaire**

**(viii) Adjudicator's Agreement**

**FORM OF INVITATION FOR TENDERS**

_____*[date]*

To: _____ *[name of Contractor]*
_____*[address]*
_____
_____

Dear Sirs:

Reference:_____[Contract Name]

*You are qualified to tender for the above Contract.*

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

*A complete set of Tender documents may be purchased from ____*

_____

[mailing address, cable/telex/facsimile numbers].

*Upon payment of a non-refundable fee of Kshs*_____

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

_____

[address and location]

*at or before* _____(time and date). *Tenders will be opened immediately thereafter, in the presence of those Tenderers' representatives who choose to attend.*

*Please confirm receipt of this letter and your intention to Tender in writing.*

*Yours faithfully,*

_____ *Authorised Signature*

_____ *Name and Title*

**LETTER OF ACCEPTANCE**
[letterhead paper of the Employer]

_____*[date]*

To: _____
*[name of the Contractor]*

_____
*[address of the Contractor]*

Dear Sir,

This is to notify you that your Tender dated _____
for the execution of _____
*[name of the Contract and identification number,as given in the Tender documents]* for the Contract Price of Kshs. _____ *[amount in figures]*[Kenya Shillings_____*(amount in words)* ] in accordance with the Instructions to Tenderers is hereby accepted.

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

Authorized Signature ……

Name and Title of Signatory ……

Attachment :

**FORM OF TENDER SECURITY**

WHEREAS ……..(hereinafter called "the Tenderer") has submitted a Tender dated …… for the Rehabilitation/Spot Improvement of ……
…… *(name of Contract)*

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

THE CONDITIONS of this obligation are:

1. If after Tender opening the Tenderer withdraws his Tender during the period of Tender validity specified in the Instructions to Tenderers

Or

2. If the Tenderer, having been notified of the acceptance of his Tender by the Employer during the Period of Tender validity:

   (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Tenderers, if required; or

   (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Tenderers;

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

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

| | |
|---|---|
| _____ | _____ |
| *[date[* | *[signature of the Bank]* |
| _____ | _____ |
| *[witness]* | *[seal]* |

PERFORMANCE BANK GUARANTEE

To: _____(*Name of Employer*) _____*(Date)*
_____(*Address of Employer)*

Dear Sir,

WHEREAS _____(hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ (hereinafter called "the Works");

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

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

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

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

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

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

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____

**BANK GUARANTEE FOR ADVANCE PAYMENT**

To: _____ *[name of Employer]* _____*(Date)*
_____*[address of Employer]*

Gentlemen,

Ref: _____*[name of Contract]*

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

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

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

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

Yours faithfully,
Signature and Seal _____

Name of the Bank or financial institution _____

Address _____

Date _____

Witness: Name: _____
Address: _____
Signature: _____
Date: _____

**Adjudicator's Agreement**

Identification of Project:

……
(the "Project")

Name and address of the Employer:

……..
(the "Employer")

Name and address of the Contractor:

……..
(the "Contractor")

Name and address of the Adjudicator:

……..
(the "Adjudicator")

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

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

1. The Rules and dispute provisions of the Contract shall form part of this Agreement.

2. The Adjudicator shall be paid:

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

A daily fee of ……..…

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

Receipts will be required for all expenses.

3. The Adjudicator agrees to act as Adjudicator in accordance with the Rules and has disclosed to the Parties any previous or existing relationship with the Parties or others concerned with the Project.

4. This Agreement shall be governed by the laws of……

5. The Language of this Agreement shall be ……..

SIGNED BY ……..……

For and on behalf of the Employer in the presence of

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

SIGNED BY ……..……

For and on behalf of the Contractor in the presence of

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

SIGNED BY ……..……

For and on behalf of the Adjudicator in the presence of

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

**QUALIFICATION INFORMATION**

**TENDER QUESTIONNAIRE**

Please fill in block letters.

1. Full name of Tenderer;

……

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

……

3. Telephone number (s) of Tenderer;

……

4. Facsimile of Tenderer;

……

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

……

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

……

……

_____

Signature of Tenderer

Make an original and one copy 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 (a) – Sole Proprietor*

Your name in full…… Age……

Nationality…… Country of Origin……

Citizenship details ……

*Part 2 (b) – Partnership*

*Give details of partners as follows:*

| | *Name in full* | *Nationality* | *Citizenship Details* | *Shares* |
|---|---|---|---|---|
| 1 | …… | | | |
| 2 | …… | | | |
| 3 | …… | | | |

*Part 2 (c) – Limited Company Give details of directors as follows:*

| | *Name in full* | *Nationality* | *Citizenship Details* | *Shares* |
|---|---|---|---|---|
| 1 | …… | | | |
| 2 | …… | | | |
| 3 | …… | | | |

**1.1 KEY PERSONNEL**

| | DESIGNATION | NAME | NATIONALITY | SUMMARY OF QUALIFICATIONS AND EXPERIENCE |
|---|---|---|---|---|
| **1** | | | | |
| **2** | | | | |
| **3** | | | | |
| **4** | | | | |
| **5** | | | | |
| **6** | | | | |

I certify that the above information is correct.

…… …… ……..
(Title) (Signature) (Date)

## 1.1.2 SCHEDULE OF COMPLETED WORKS CARRIED OUT BY THE TENDERER

| | DESCRIPTION OF WORKS | NAME OF CLIENT | TOTALVALUE OF WORKS (KSHS) | CONTRACT PERIOD (YEAR) | YEAR COMPLETED |
|---|---|---|---|---|---|
| **1** | | | | | |
| **2** | | | | | |
| **3** | | | | | |
| **4** | | | | | |
| **5** | | | | | |
| **6** | | | | | |
| **7** | | | | | |

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

…… …… ……
(Title) (Signature) (Date)

*Value in Kshs using Central Bank of Kenya mean exchange rate at a reference date 30 days before date of tender opening.

### 1.1.3 SCHEDULE OF ONGOING PROJECTS

| | DESCRIPTION OF WORK | NAME OF CLIENT | CONTRACT PERIOD | DATE OF COMMEN-CEMENT | DATE OF COMPLETION | TOTAL VALUE OF WORKS (KSHS.) | PERCENTAGECOMPLETED TO DATE |
|---|---|---|---|---|---|---|---|
| **1** | | | | | | | |
| **2** | | | | | | | |
| **3** | | | | | | | |
| **4** | | | | | | | |
| **5** | | | | | | | |

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

…… …… ……
*(Title)* *(Signature)* *(Date)*

**SCHEDULE OF EQUIPMENTS**

Major items of Contractor's Equipment proposed for carrying out the Works. List all information requested below.

| | Item of Equipment | Description, Make and age (years) | Condition(new, good, poor) and number available | Owned, leased (from whom?), or to be purchased (from whom?) |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

I certify that the above information is correct.

…….....… .....……

.....……..

(Title) (Signature) (Date)

**Instructions to the Tenderers**

## Table 1: Mandatory requirements

| Item NO | Mandatory qualification Requirements | |
|---|---|---|
| 1 | ELIGIBILITY - Copy of National ID or passport for all Directors | mandatory |
| 2 | BID SECURITY - Unconditional guarantee, in the format and conditions provided - Must be valid for 150days | mandatory |
| 3 | Attending pre-tender site visit for the works. | mandatory |
| 4 | Certified Copy of Certificates of Registration/Incorporation. | mandatory |
| 5 | Principal place of business (attach business permit or trading license) | mandatory |
| 6 | Certified Certificate of registration with National Construction Authority | mandatory |
| 7 | Certified Copy of Tax compliance certificate | mandatory |
| 8 | Properly and dully filled Form of Tender | mandatory |
| 9 | Properly and dully filled Tender Questionnaire | mandatory |
| 10 | Properly and dully filled Confidential Business Questionnaire | mandatory |

**SECTION V-(B): TECHNICAL EVALUATION CRITERIA**

This Section shall apply to tenderer whose bids have been determined to be responsive and have met all the Qualification Criteria as per the instruction to bidders.

It contains all the factors, methods and criteria that the Procurement Entity shall use for the technical evaluation. The information to be provided in relation to each factor and the definitions of the corresponding terms are included in the respective supplementary information Forms (Schedules).

The Technical Evaluation Committee shall examine tender documents and score them based on their validity, accuracy and quality and score them as per Table below. Where the bidder fails to meet the requirement, the bidder shall be disqualified.

Bidders whose shall **score70%** and above shall proceed to financial evaluation stage

# Table 2: Technical Qualification Requirements

| | | | |
|---|---|---|---|
| 11 | | Financial Capacity | 20 |
| | 1 | **Company turnover for the last two years** | 5 |
| | 2 | **Profitability of the company for the last two years** | 5 |
| | 3 | Past two years Audited Financial Reports of the tenderer | 5 |
| | 4 | Current one year Bank statement. | 5 |
| 12 | | Contractual misconducts and litigation - Legal Capacity/Litigation History (attach affidavit) | 5 |
| 13 | | Experience (5 YEARS AND ABOVE) | 25 |
| | | Bidder to submit the following<br>- Completion certificate, Taking Over Certificate or Substantial Completion Certificate of relevant work in the previous 5 years<br>- Value of ongoing work must be < 50% of | 20 |
| | A | Specific Experience in Related Works - Attach certificate of completion | 5 |
| 14 | | Key personnel - Provide List of professional and technical staff and their resume - General Experience (CV), - Certified Qualification Certificate | 15 |
| | b | Site Agent DEGREE | 15 |
| | C | DIPLOMA | 10 |
| | c | CERTIFICATE | 5 |
| | | | |
| 15 | A | Equipments | 20 |
| | | Bidder to submit the following - Ownership list of required equipment and/or Authorization letter of hiring from M&T or reputable hiring company | |
| 16 | | **Registration as a contractor with NCA** | 8 |

| | | | |
|---|---|---|---|
| | | 1) NCA 1 [building/roads]<br>2) NCA 2 [building/roads]<br>3) NCA 3 [building/roads]<br>4) NCA 4 [building/roads]<br>5) NCA 5 [building/roads]<br>6) NCA 6 [building/roads]<br>7) NCA 7 [building/roads]<br>8) NCA 8 [building/roads] | 8<br>7<br>6<br>5<br>4<br>3<br>2<br>1 |
| 17 | a | WorkingSchedule and Projected CashFlow. | 4 |
| | | Bidder to submit the following Proposals<br>1. Signed work program chart<br>2. Signed Cash flow plan during the Contract period. | 2<br><br>2 |
| | | | |
| 18 | | **Certification**<br>I/we certify that the information provided herein is correct and legally binding.<br>Name.....<br>Signature.....<br>Date.....<br>Official stamp..... | 3 |
| | | **TOTAL** | 100 % |