

REPUBLIC OF KENYA



COUNTY GOVERNMENT OF NAKURU

PROPOSED IMPROVEMENT OF ROADS TO BITUMEN STANDARDS WITHIN NAIVASHA MUNICIPALITY (3.7KM) (INDUSTRIAL AREA, SITE AND SERVICE AND KABATI)

TENDER No. CGN/LHPP/KUSP/ROAD/002/2018-2019

Instruction to Tenderers

Agreement

Annexes

February 2018

Prepared By
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INSTRUCTIONS TO TENDERERS

1 General

- 1.1 The Employer as defined in the Appendix to Conditions of Contract invites Tenders for the Works Contract as described in the Tender Documents.
- 1.2 Tenderers shall include the following information and documents with their Tenders, unless otherwise stated:
 - (a) Copy of Certificates of Registration/Incorporation under Companies Act
 - (b) Copy of Certificate of Registration with NCA category 4 and above on Civil Works
 - (c) Current Tax Compliance Certificate from Kenya Revenue Authority (KRA)
 - (d) Address of the Principal place of Business
 - (e) Authority to seek references from Tenderer's Bankers
 - (f) Authority for person signing the Tender
 - (g) Provide copy of CR12
 - (h) Contractors with incomplete projects (with unauthorised time overrun) with the employer are not eligible
 - (i) The Tenderer must demonstrate to have personnel and key equipment as detailed in appendix (Personnel and Equipment)
 - (j) Bid security of KShs. 4,400,000.00
 - (k) Pre-tender site visit form duly signed by the authorised officers of the procuring entity
- 1.3 The Tenderer shall bear all costs associated with the preparation and submission of the Tender.
- 1.4 The Tenderer, at the Tenderer's own expense, responsibility and risk, shall visit and examine the Site of the Works and its surroundings, to obtain all information that may be necessary for the preparation of the Tender and entering into a Contract for the Works as defined in the Specifications.

Attendance of pretender site meeting scheduled on Tuesday the 19th February 2019 at 9.30am at Naivasha subcounty offices shall be mandatory for submission of an eligible tender.
- 1.5 Eligible Tenderers
 - a) The Invitation to Tender is open to all Tenderers. Only Tenders from qualified Tenderers will be accepted.
 - b) A Tenderer debarred from participating in Public Procurement by the Public Procurement Directorate shall not be eligible to submit a Tender.
 - c) If the Employer has not undertaken the prequalification of Tenderers, all Tenderers shall include the information required to satisfy the qualification criteria as determined by the Employer.

1.6 Evaluation criteria

The method of evaluation will be merit point system.

The criteria of evaluation and the points to be awarded on each criteria will be as follows:

- a) Financial Capacity
- b) Experience
- c) Current commitments
- d) Key personnel
- e) Plant and equipment
- f) Work programme/ methodology
- g) Litigation History
- h) Local Contractor/ Kenyan

2 Tender Documents

- 2.1 The complete set of Tender documents comprises the documents listed below and any addenda issued in accordance with paragraph 2.4
 - (i) Instructions to Tenderers
 - (ii) Articles 1 to 16
 - (iii) Annexes 1 to 4
- 2.2 The Tenderer shall examine all documents in the Tender documents. Failure to furnish all information required by the Tender documents shall result in the rejection of the Tender.
- 2.3 A Tenderer requiring any clarification of the Tender documents may notify the Employer in writing or by electronic means at the address indicated in the letter of Invitation to Tender. The Employer shall respond to any request for clarification received earlier than seven days prior to the deadline for submission of Tenders. Copies of the Employer's response will be forwarded to all persons issued with Tender 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 Tender documents by issuing addenda. Any addenda thus issued shall be part of the Tender documents and shall be communicated in writing or by electronic means to all Tenderers. Tenderers shall acknowledge receipt of each addendum in writing to the Employer.
- 2.5 The Employer may extend, as necessary, the deadline for submission of Tenders in accordance with paragraph 4.5 below, to take account of any addenda issued.

3 Preparation of Tenders

- 3.1 All documents relating to the Tender and any correspondence shall be in the English Language.
- 3.2 The Tender submitted shall comprise the following:-
 - (a) The Form of Tender;
 - (b) Priced Bill of Quantities initialled on each page, or Schedule of Rates (whichever is applicable)
 - (c) Any other documents/materials required by the Employer 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/Schedule of Rates. Items for which no rate or price is entered shall be deemed covered by the other rates and prices in the Bill of Quantities/Schedule of Rates.
- 3.4 The unit rates and prices shall be in Kenya Shillings
- 3.5 Tenders shall remain valid for a period of 120 days from the date of submission. However, the Employer may request the Tenderers to extend the period of validity for a specified additional period. Such a request and the Tenderers' responses shall be made in writing.

4 Submission of Tenders

- 4.1 The Tender duly completed shall; -
 - (a) Be submitted to the employer through the **Kenya Supplier Portal; supplier.treasury.go.ke**
 - (b) Bear the name and identification number of the Tenderer as defined in the Invitation to Tender.
- 4.2 Tenders shall be delivered to the Employer at the address specified not later than the time and date specified in the Invitation to Tender.
- 4.3 The Tenderer shall not submit alternative offers unless they are specifically required in the Tender documents.

Each Tenderer may submit only one Tender. Any Tenderer who fails to comply with this requirement will be disqualified.

- 4.4 The Employer may extend the deadline for submission of Tenders by issuing an amendment in accordance with paragraph 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.
- 4.5 The Tender Bidding Documents with detailed specifications may be obtained from the Kenya supplier Portal; **www.supplier.treasury.go.ke** or from the County website; www.nakuru.go.ke free of charge
- 4.6 Prices should be net, inclusive of all taxes, must be in Kenya Shillings and shall remain valid for 120 days from the closing date of the Tender.
- 4.7 Duly completed Tenders, marked with Tender number should be submitted online through the Integrated Financial Management Information System (IFMIS) so as to be received on or before Friday the 4th January 2019 as per the time indicated by System.

5 Tender Opening

- 5.1 Tenders shall be opened online. Unsealing of Tenders at financial stage shall be done online and be communicated to successful bidders
- 5.2 The name of the Tenderer shall be recorded in a Tender Opening register, a copy of which may on request be made available to any Tenderer. Minutes of the Tender opening, including the information disclosed to those present shall also be prepared by the Employer.

6 Tender Evaluation

- 6.1 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 will result in the rejection of the Tender.
- 6.2 Prior to the detailed evaluation of Tenders, the Employer shall determine if each Tender:-
 - a) Meets the eligibility criteria defined in paragraphs 1.2 and 1.5.
 - b) Has been properly signed;
 - c) Is substantially responsive to the requirements of the Tender documents.The Employer will reject any Tenders deemed to be non-responsive on the above criteria.

- 6.3 A substantially responsive Tender is one which conforms to all the terms, Conditions and Specifications of the Tender documents, without material deviation or reservation. A material deviation or reservation is the one:-
- a) which affects in any substantial way the scope, quality or performance of the Works;
 - b) which limits in any substantial way, inconsistent with the Tender documents, the Employer's rights or the Tenderer's obligations under the Contract;
 - c) whose rectification would affect unfairly the competitive position of other Tenderers presenting substantially responsive Tenders.
- 6.4 Tenders with any arithmetic errors will be deemed to be Non-Responsive
- 6.5 The Employer at his discretion may request any Tenderer for clarification of the Tender, including a breakdown of Unit Rates. The request for clarification and the response shall be in writing or electronic means.
- 6.6 The technical qualification score will be as provided under detailed requirements for qualification.

7 Award of Contract

- 7.1 The award of the Contract will be made to the Tenderer who has offered the lowest evaluated Tender Price.
- 7.2 The Employer reserves the right to accept or reject any or all Tenders and to cancel the Tendering process at any time prior to the award of the Contract without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer(s) of the grounds for the action.
- 7.3 The Tenderer whose Tender has been accepted will be notified of the award prior to the expiration of the Tender validity period in writing or by electronic means. This notification (called the "Letter of Acceptance") will state the sum (called the "Contract Price") which the Employer will pay the Tenderer in consideration of the execution, completion, and maintenance of the Works as set out in the Contract. The Letter of Acceptance will constitute a binding Agreement, prior to the Tenderer signing the Contract Agreement.
- 7.4 The Contract Agreement will incorporate all agreements between the Employer and the Tenderer. It will be signed by the Tenderer, not earlier than 14 days following the date of the Letter of Acceptance, and thereafter returned to the Employer within 14 days for signature.

8. Detailed Requirements for Qualification

KEY PERSONNEL

S/NO	POSITION/QUALIFICATIONS	EXPERIENCES
1	Site Agent- Registered Engineer in Civil Engineering (1NO.)	Minimum 5years in similar works
2	Foreman-HND in civil Engineering (2 NO.)	Minimum 3 years in similar works
3	Surveyor - Diploma in survey(2No.)	Minimum 3 years in similar works
4.	Environment/safety/ Health officer- Diploma(1NO)	Minimum 3year in similar Works

The tenderer to provide details of the proposed personnel and their experiences record on relevant forms

KEY EQUIPMENT

S/NO	Type of equipment	Minimum number
1	Excavator -0.6-0.8 m ³ rated bucket capacity	2NO.
2	Concrete mixer 10-14 m ³ /h	2NO.
3	Poke vibrator	3No.
4.	Backhoe	1No.
5.	A Dumper	2No.
6.	Vibrating Plate compactor	1No.
7	Tipper Lorries 14 Tonnes	5No.
8	Pickup 1 tonne carry capacity	3No.
9.	Motor Grader 170-210 HP	2No.
10.	Roller Sheep foot 9 Tonnes	1No.
11	Double drum steel Roller 20 Tonnes	1No
12.	Single Drum Steel Tandem Roller 10 Tonnes	1NO
13.	Pneumatic Roller 20 Tonnes	1No.
14.	Paver	1No.
15.	Wheeled shovel	1No,

The tenderer shall provide further details of the proposed type of equipment on relevant forms

TECHNICAL QUALIFICATION SCORE SCHEDULE

ITEM	DESCRIPTION	POINT SCALE	SCORE
1	FINANCIAL CAPACITY	Max 15	
	a Audited Statements	0-5	
	b Cash flow statement (forecasts)	0-4	
	c Financial position/Ratios	0-3	
	d Bank statement	0-3	
	e Turnover	0-5	
2	EXPERIENCE	Max 20	
	Specific experience in related works	0-20	
3	CURRENT COMMITMENTS	Max 5	
	On-going works	0-5	
4	KEY PERSONNEL	Max 20	
	Site Agent	0-8	
	Surveyor	0-5	
	Foreman	0-5	
	Environment/ Health / safety officer	0-2	
5	PLANT AND EQUIPMENT	Max 15	
	Equipment capabilities	0-15	
6	WORK METHODOLOGY	0 - 10; Max 10	
7	LITIGATION HISTORY	0 or 5; Max 5	
8	Country based	0 or 5; Max 10	
	TOTAL	MAX 100	

STANDARD FORMS

List of Standard Forms

- (i) Form of Invitation for Tenders**
- (ii) Form of Tender**
- (iii) Letter of Acceptance**
- (iv) Form of Agreement**
- (v) Form of Tender Security**
- (vi) Performance Bank Guarantee**
- (vii) Performance Bond**
- (viii) Bank Guarantee for Advance Payment**
- (ix) Qualification Information**
- (x) Tender Questionnaire**
- (xi) Confidential Business Questionnaire**
- (xii) Details of Sub-Contractors**
- (xiii) Request for Review Form**

FORM OF INVITATION FOR TENDERS

To: _____

Dear Sirs:

Reference: _____ [Contract Name]

You have been prequalified to tender for the above project.

We hereby invite you and other prequalified tenderers to submit a tender for the execution and completion of the above Contract.

A complete set of tender documents may be purchased by you from

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

Upon payment of a non-refundable fee of Kshs _____

All tenders must be accompanied by _____ number of copies of the same and a tender security in the form and amount specified in the tendering documents, and must be delivered to

[address and location]

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

Please confirm receipt of this letter immediately in writing by cable/facsimile or telex.

Yours faithfully,

_____ *Authorised Signature*

_____ *Name and Title*

FORM OF TENDER

TO: _____[Name of Employer] _____[Date]

_____ [Name of Contract]

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities/Schedule of Rates for the execution of the above named 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 as soon as is reasonably possible after the receipt of the Employer's Representative's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix to Conditions of Contract.
3. We agree to abide by this tender until _____ [Insert date], and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 20 _____

Signature _____ in the capacity of _____

duly authorized to sign tenders for and on behalf of
_____ [Name of Tenderer] of
_____ [Address of Tenderer]

Witness; Name _____

Address _____

Signature _____

Date _____

(Amend accordingly if provided by Insurance Company)

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 : Agreement

FORM OF TENDER SECURITY

WHEREAS(hereinafter called “the Tenderer”) has submitted his tender dated for the construction 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 of20.....

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

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 civil 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 Certificate of Completion.

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____
(Amend accordingly if provided by Insurance Company)

PERFORMANCE BOND

By this Bond, We _____ of (or whose registered office is situated at] _____
as Principal (hereinafter called "the Contractor") and _____
_____ of [or whose registered office is situated
at] _____
as Surety (hereinafter called "the Surety"), are held and firmly bound unto
_____ of [or whose registered office is
situated at] _____
as Obligee (hereinafter called "the Employer") in the amount of
Kshs. _____ [amount of Bond in figures] Kenya Shillings

[amount of Bond in words], for the payment of which sum well and truly, the Contractor and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Contractor has entered into a Contract with the Employer dated the _____
day of _____ 20 _____ for the execution of

[name of Contract] in accordance with the Contract documents, Specifications and amendments thereto, which to the extent herein provided for, are by reference made part hereof and are hereinafter referred to as the Contract.

NOW THEREFORE, the Condition of this Obligation is such that, if the Contractor shall promptly and faithfully perform the said Contract (including any amendments thereto), then this obligation shall be null and void; otherwise it shall remain in full force and effect. Whenever the Contractor shall be, and declared by the Employer to be, in default under the Contract, the Employer having performed the Employer's obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

- (1) complete the Contract in accordance with its terms and conditions; or
- (2) obtain a tender or tenders from qualified tenderers for submission to the Employer for completing the Contract in accordance with its terms and conditions, and upon determination by the Employer and the Surety of the lowest responsive tenderer, arrange for a Contract between such tenderer and Employer and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof.

The term "Balance of the Contract Price", as used in this paragraph, shall mean the total amount payable by the Employer to the Contractor under the

Contract, less the amount properly paid by the Employer to the Contractor; or

(3) pay the Employer the amount required by the Employer to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

Any suit under this Bond must be instituted before the expiration of one year from the date of issuance of the Certificate of Completion.

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Employer named herein or the heirs, executors, administrators, successors and assigns of the Employer.

In testimony whereof, the Contractor has hereunto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly attested by the signature of his legal representative, this _____ day of _____ 20 _____

SIGNED ON _____ SIGNED ON _____

On behalf of _____ On behalf of _____
[name of Contractor] *[name of Surety]*

By _____ By _____

In the capacity of _____ In the capacity of _____

In the presence of; Name _____ In the presence of; Name _____

Address _____ Address _____

Signature _____

Signature _____

Date _____

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 deposit with _____ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Contract in an amount of Kshs. _____ [amount of Guarantee in figures] Kenya Shillings _____ [amount of Guarantee in words].

We, _____ [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], such amount to be reduced periodically by the amounts recovered by you from the proceeds of the Contract.

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.

No drawing may be made by you under this guarantee until we have received notice in writing from you that an advance payment of the amount listed above has been paid to the Contractor pursuant to the Contract.

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: _____

QUALIFICATION INFORMATION

1. Individual Tenderers or Individual Members of Joint Ventures

1.1 Constitution or legal status of tenderer (attach copy or Incorporation Certificate);
Place of registration: _____

Principal place of business _____

Power of attorney of signatory of tender _____

1.2 Total annual volume of construction work performed in the last five years

Year	Volume	
	Currency	Value

1.3 Work performed as Main Contractor on works of a similar nature and volume over the last five years. Also list details of work under way or committed, including expected completion date. Provide evidences

Project name	Name of Client and Contact Person and telephone Number	Type of work performed and year of completion	Value of Contract

1.4 Major items of Contractor's Equipment proposed for carrying out the Works. List all information requested below. Provide evidence of ownership or lease.

Item of Equipment	Number of Equipment	Description, Make and age (years)	Condition(new, good, poor) and number available	Owned, leased (from whom?), or to be purchased (from whom?)
Excavator -0.6-0.8 m ³ rated bucket capacity				
Concrete mixer 10-14 m ³ /h				
Poke vibrator				
Backhoe				
A Dumper				
Vibrating Plate compactor				
Tipper Lorries 14 Tonnes				
Pickup 1 tonne carry capacity				
Motor Grader 170-210 HP				
Roller Sheep foot 9 Tonnes				
Double drum steel Roller 20 Tonnes				
Single Drum Steel Tandem Roller 10 Tonnes				
Pneumatic Roller 20 Tonnes				
Paver				
Wheeled shovel				

- 1.5 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data.

POSITION	NAME	YEARS OF EXPERIENCE IN SIMILAR WORKS
Site Agent- Registered Engineer in Civil Engineering (1NO.)		
Foreman-HND in civil Engineering (2 NO.)		
Surveyor – Diploma in survey(2No.)		
Environment/safety/ Health officer- Diploma(1NO)		

- 1.6 Financial reports for the last five years: balance sheets, profit and loss statements, auditor's reports, etc. List below and attach copies.

- 1.7 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List below and attach copies of supportive documents.

- 1.8 Name, address and telephone, telex and facsimile numbers of banks that may provide reference if contacted by the Employer.

- 1.9 Statement of compliance with the requirements of Clause 1.2 of the Instructions to Tenderers.

- 1.10 Proposed program (work method and schedule) for the whole of the Works.

2 Joint Ventures

2.0 The information listed in 1.1 – 2.0 above shall be provided for each partner of the joint venture.

2.1 The information required in 1.11 above shall be provided for the joint venture.

2.2 Attach the power of attorney of the signatory(ies) of the tender authorizing signature of the tender on behalf of the joint venture

2.3 Attach the Agreement among all partners of the joint venture (and which is legally binding on all partners), which shows that:

- a) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;
- b) one of the partners will be nominated as being in charge, authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture; and
- c) the execution of the entire Contract, including payment, shall be done exclusively with the partner in charge.

TENDER QUESTIONNAIRE

Please fill in block letters.

1. Full names 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. Telex 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. This is essential if the tenderer does not have his registered address in Kenya (name, address, telephone, telex);

.....

.....

Signature of Tenderer

Make copy and deliver to: _____(Name of Employer)

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2 (b) or 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 Licence No..... Expiring date.....

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

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:

	<i>Name in full</i>	<i>Nationality</i>	<i>Citizenship Details</i>	<i>Shares</i>
1			
2			
3			

DETAILS OF SUB-CONTRACTORS

If the Tenderer wishes to sublet any portions of the Works under any heading, he must give below details of the sub-contractors he intends to employ for each portion.

Failure to comply with this requirement may invalidate the tender.

(1) Portion of Works to be sublet:

(i) Full name of Sub-contractor
and address of head office:

.....

(ii) Sub-contractor's experience
of similar works carried out
in the last 3 years with
Contract value:

.....

.....

(2) Portion of Works to be sublet:

(i) Full name of sub-contractor
and address of head office:

.....

.....

(ii) Sub-contractor's experience
of similar works carried out
in the last 3 years with
contract value:

.....

[Signature of Tenderer]

Date

LETTER OF NOTIFICATION OF AWARD

Address of Procuring Entity

To: _____

RE: Tender No. _____

Tender Name _____

This is to notify that the contract/s stated below under the above mentioned tender have been awarded to you.

1. Please acknowledge receipt of this letter of notification signifying your acceptance.
2. The contract/contracts shall be signed by the parties within 30 days of the date of this letter but not earlier than 14 days from the date of the letter.
3. You may contact the officer(s) whose particulars appear below on the subject matter of this letter of notification of award.

(FULL PARTICULARS) _____

SIGNED FOR ACCOUNTING OFFICER

AGREEMENT
BETWEEN
THE GOVERNMENT OF THE REPUBLIC OF KENYA
AND

This Contract is made this.....day of.....20.....

between County Government of Nakuru, represented by the Governor Nakuru County of P.O. Box 2870 – 20100 (Hereinafter called the Employer) acting through his representative **Chief Officer Land Housing and Physical Planning of P.O. Box 2870 Nakuru** of the one part and also of (Hereinafter referred to as “the Contractor”) of the other part. Whereas the Employer is desirous of maintaining the road network as described,

Name of the Project **IMPROVEMENT OF ROADS TO BITUMEN STANDARDS WITHIN NAIVASHA MUNICIPALITY (3.7KM). (INDUSTRIAL AREA, SITE AND SERVICE AND KABATI)**

County: **Nakuru**

Municipality: **Naivasha**

From: Km 0.00 **To:** 3.7KM

and has accepted the Offer of the Contractor to execute road 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:

PART I: GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract are the FIDIC Short Form of Contract, First Edition, 1999, published by the International Federation of Consulting Engineers (FIDIC).

The General Conditions of Contract are linked with the Conditions of Particular Application, referred to as Part II, by the consecutive numbering of the Clauses, so that Part I and II together comprise the Conditions governing the rights and obligations of the Parties. In case of any inconsistency between the Conditions contained in Part I and those in Part II, the Conditions contained in Part II shall prevail.

The Tenderer is deemed to have read and fully complied with the General Conditions of Contract.

PART II: CONDITIONS OF PARTICULAR - APPLICATION

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

Article 2: OBLIGATIONS OF THE EMPLOYER

- 2.1. The Employer shall provide the Site and right of access thereto at the date of Commencement.
- 2.2. The Employer shall ensure that the Contractor's claims for payment are settled timeously.
- 2.3. The Employer shall inspect the Contractor's work regularly.
- 2.4. No approval or consent or absence of comment by the Employer shall affect the Contractor's obligations.

Article 3: EMPLOYER'S REPRESENTATIVE

- 3.1. The Governor Nakuru County will have overall responsibility for the Contract, and will be represented by the **Chief Officer in charge of Land, Housing and Physical Planning** for the day-to-day management of the Contract.

Article 4: CONTRACTOR'S OBLIGATIONS

- 4.1. The Contractor shall carry out the Works described in Annex 1 and 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.
- 4.2. 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.
- 4.3. The Contractor shall comply with all instructions given by the Employer in respect of the Works.
- 4.4. The Contractor shall not subcontract any part of the Works without the consent of the Employer.
- 4.5. The Contractor shall, in the implementation of this contract, use labour based methods whenever possible.

- 4.6 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.
- 4.7 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.
- 4.8 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.
- 4.9 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.
- 4.10 The Contractor shall set fair and manageable task rates to each labourer, in consultations with the Employer.

Article 5: DESIGN BY CONTRACTOR

- 5.1 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

- 7.1 The Contractor shall commence the Works **within 14 days upon order to commence** and shall proceed expeditiously and without delay and shall complete the Works within the Time for Completion, given as **6 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.
- 8.2 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

9.1.1 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

10.1 The Employer may instruct Variations

10.2 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

11.1 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.

11.2 The Employer shall pay the Contractor, upon the Engineer's approval of the Contractor's statement, within **90** 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

12.1 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.

12.2. 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

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

Article 14: INSURANCES

14.1 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

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

15.2 Any dispute not resolved under 15.1 shall be referred to a single Arbitrator nominated by **Chief Officer Land Housing and Physical Planning** 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

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

16.2 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 atKenya.

**Chief Officer Land, Housing & Physical Planning
for and on behalf of the
County Government of Nakuru**

Contractor

County Secretary & Head of Public Service

Witness

In presence of County Attorney

Advocate

APPENDIX TO FORM OF TENDER

This Appendix to Form of tender forms part of the tender document.

(Note: with the exception of the items for which the Employer's requirements have been inserted, the Contractor shall complete the following information before submitting his offer.)

Item	Sub-clause	Data
Bid Security (Bank Guarantee Only)		KShs. 4,400,000.00
Personnel and Equipment	1.2	Standard form (ix) Qualification information
Time for Completion	7.1	6 Months after Works Commencement,
Priority of Documents		The documents forming the Contract shall be interpreted in the following order of priority: <ul style="list-style-type: none"> • the Contract Agreement and Appendix • the Letter of Acceptance • the Form of Tender • the Conditions of Contract, Part II - Conditions of Particular Application • the Conditions of Contract, Part I - General Conditions of Contract • the Specifications • the Drawings, • the Priced Bill of Quantities
Law of Contract	1.2	Laws of the Republic of Kenya
Language	1.2	English
Provision of Site	2.1	2 weeks before Commencement Date
Authorised Person	3.1	Chief Officer Land Housing and Physical Planning
Name and Address of Employer's Representative	3.2	Chief Officer Land Housing and Physical Planning P. O. Box 2870-20100 NAKURU.
Penalty to the Contractor for Employer paying workers on his behalf	7.1	10% of the amount paid to the workers.

Item	Sub-clause	Data
Performance Security Amount Form		15% of the Contract Sum Bank Guarantee from a recognised and Reputable Bank Approved by CBK
Requirements of Contractors Design		Not applicable
Programme ⇒ Time of Submission ⇒ Form of Programme ⇒ Interval Updates		Within 14 days before Commencement Date Gant Chart Monthly
Liquidated Damages Amount payable due to failure to complete		0.01% of Contract Price per Day to a limit of 1% of Contract Price.
Period of notifying defects	9.1.1	5 days calculated from the date stated in the notice under sub clause 8.2*
Percentage of Retention		10
Maximum Amount of Advance Payment		Nil
Form of Guarantee for Advance Payment		Nil
Valuation of Works		Nil
Repayment Schedule for Advance Payment		Nil
Minimum Amount of Interim Payment		Ksh 25,000,000
Currency of Payment		Kenya Shilling
Rate of Interest		Prevailing CBK rates for Commercial Lending as of the first day the payment becomes overdue
Insurance	14.1	Contractors all Risk
Insurance ⇒ The Works, materials plants & fees ⇒ Contractor's Equipment ⇒ Third party injury to persons and damage to property ⇒ Workers compensation		Nil****

Item	Sub-clause	Data
⇒ Other cover		
Arbitration ⇒ Rules ⇒ Appointing Authority ⇒ Place of Arbitration		Nil

.....*

.....**

Employer to fill as appropriate
Contractor to fill as appropriate

ANNEX 1 THE WORKS

The Contractor shall in carrying out the Road Works undertake the specific tasks set out by the Engineer in this Annex. The Work shall be carried out in accordance with the Specification which are attached and form part of the Contract.

(The Engineer will list the tasks specific to each Contract which may include, among others, the following;

- Excavation and Backfilling
- Concrete Works

SPECIFICATIONS

SECTION 4

SITE CLEARANCE

4.01 DESCRIPTION

Site clearance of the road reserve shall be carried out by the contractor by cutting the grass, bushes, all vegetation and undergrowth to a height not more than 200mm. The site clearance will be carried out where instructed by the Engineer.

Where directed by the Engineer, the contractor will remove and dispose of topsoil including roots to a depth of 150mm.

Structures, fences and obstructions will be removed and disposed of by the contractor as directed by the Engineer.

Tree pruning, cutting and stump removal shall be undertaken by the contractor when instructed by the Engineer.

4.02 MEASUREMENT AND PAYMENT

(a) Item: Site clearance

Unit: m²

Site clearance shall be paid for the area instructed cleared in m².

The rate inserted shall cater for labour, tools, or equipment used as instructed by the Engineer.

(b) Item: Tree and Stump removal

Unit: No.

Removal of big trees and old dry tree stumps shall be measured by the **Number** removed as directed by the Engineer.

SECTION 5

7.1 EARTHWORKS

5.01 DESCRIPTION

This section covers all excavation of cuttings, haulage, placing and compaction of hard and soft material to form embankments. It also covers top soiling and grassing.

There shall be two classifications of materials i.e. hard material and soft material. Hard material is that material that cannot be excavated without blasting as determined by the Engineer. Boulders greater than 0.3m³ shall be considered hard material. Soft material shall be materials other than hard material and shall include waterlogged and swampy materials.

Fill material shall be deposited and compact in layers not exceeding 250mm for soft material and layers not exceeding 400mm for hard material. Hard material shall be maximum 250mm in dimension. The top 600mm of fill in hard material shall be formed using soft material. Rockfill to swamps shall have the same specification of maximum 250mm (quarry waste). Compaction of earthworks will be by number of passes as directed by the engineer depending on the compaction equipment of the contractor which shall not be less than 8 tonnes.

Spoil material shall be either soft or hard material surplus to the required fill or unsuitable for fill and which the Engineer has instructed to be spoiled.

Whenever the existing ground is unsuitable in quality for receiving the fill the contractor shall excavate and spoil the unsuitable material. It will be replaced with suitable material which will be treated as fill.

The existing ground and the top of cuttings shall be scarified to a depth of 150mm and compacted to receive the next construction layer. This shall be done at optimum water content as instructed by the Engineer.

When instructed by the Engineer the contractor shall place rockfill to the areas that are classified as swamps. The rock shall be well graded between 100mm and 250mm in size. The layer thickness shall be determined by the Engineer. The contractor shall proofroll the rockfill before the normal earthworks resume.

Where instructed by the Engineer, the contractor shall provide protection to the earthworks by topsoiling and grassing. The contractor shall spread approved topsoil uniformly to thickness as instructed by the Engineer.

Approved indigenous 'runner' type grass shall be planted at 150 mm centers. The contractor shall care for and water the grass until it is firmly established

5.02 MEASUREMENT AND PAYMENT

- (a) Item: Fill in soft material

Unit: m³

The rate for fill in soft material shall include the cost of excavation, loading, transporting, depositing, shaping, and compacting as instructed by the Engineer.

- (b) Item: Fill in hard material

Unit: m³

The rate for fill in hard material shall include the cost of excavating, loading, transporting, depositing, breaking to the required size and compacting as directed by the Engineer.

- (c) Item: Spoil in soft material

Unit: m³

The rate for spoil in soft material shall include the cost of excavation, loading, transporting, depositing and spreading in the spoil area as directed by the Engineer.

- (d) Item: Spoil in hard material

Unit: m³

The rate of spoil in hard material shall include the cost of excavation, loading, transporting, depositing and spreading in the spoil area as directed by the Engineer.

- (e) Item: Compaction of existing ground and top of cuttings

Unit: m²

The rate of compaction shall include for scarifying to a depth of 150mm watering, mixing and compacting to the satisfaction of the Engineer.

- (f) Item: Excavation in swamps

Unit: m³

The rate of excavation in swamps will include for excavating waterlogged and swampy material, transporting and depositing and spreading in spoil areas as directed by the Engineer.

- (g) Item: Rockfill to swamps

Unit: m³

The rate for rockfill shall be measured by the volume instructed to be placed. It shall include the cost of providing the material, transporting, placing and rolling as instructed by the Engineer.

(h) Item: Topsoiling

Unit: m³

Topsoiling shall be measured by volume instructed. The rate shall include cost of providing approved top soil transporting and spreading as instructed by the Engineer.

(i) Item: Grassing

Unit: m²

The rate of grassing shall include the cost of providing and establishing approved grass sprigs, watering and protection until firmly established.

SECTION 8

CULVERTS AND DRAINAGE WORKS

8.01 DESCRIPTION

This section covers the following

- (a) Provision and installation of concrete pipe culverts
- (b) The construction of minor drainage structures such as headwalls, wingwalls, aprons, culvert inlet and outlet, cascades etc.
- (c) The construction of protection works including scour checks, riprap, stone pitching and gabions.
- (d) The excavation or fill works associated with culverts, all drains, minor drainage structures, scour checks, protection works.
- (c) Cleaning of culverts, and all drains.

Concrete pipe culverts shall be precast and have the following properties

- (i) be cast of concrete class 30/10
- (ii) have flexible or ogee joints
- (iii) be reinforced with a BRC weld mesh
- (iv) be compacted by vibration or spinning
- (v) be cured by saturating with water for 7 days and in the shade for 14 days before use
- (vi) have the casting date inscribed on the barrel

When instructed pipe culverts shall be haunched using 150mm concrete class 15/20 surround.

The contractor will carry out all excavations for culverts, all drains and other drainage structures to the levels and lines as instructed by the Engineer. The bottom of the excavation shall be compacted to the approval of the Engineer. Where the insitu material is unsuitable the invert shall be excavated and backfilled using suitable material. The back-fill shall be obtained from the material excavated or from borrow pits and shall be compacted to the approval of the Engineer.

Concrete for minor drainage structures shall be class 20/20

Protection work in connection with drainage channels, culvert inlets and outlets and river training will consist of either scour checks, stone pitching, gabions or riprap.

Scour check shall be constructed using concrete class 20/20 or masonry walling using 225 x 150 mm dressed stone.

Stone pitching shall be formed of hard stone roughly dressed square and with dimension between 150mm and 250 mm and between 50mm and 100mm thick. A 1:4 cement sand mortar shall be applied for grouting when instructed.

Gabions shall be maccaferri boxes and mattresses both with diaphragms 1m centers or similar approved. Gabions shall be hand packed with broken rock between 150 mm and 300mm. The back face and ends of completed gabion work shall be backfilled thoroughly compacted against the sides of the gabions and finished flush with the top surface of the gabion.

Rip rap shall consist of well shaped hard dense durable rock. The stones shall be hand laid with close joints from the bottom of the ground upwards the stone shall be carefully bedded and tightly wedged to form an even surface.

The cleaning of culverts and drains shall be done by using labour appropriate tools, or equipment as instructed by the Engineer.

8.02 MEASUREMENT AND PAYMENT

- (a) Item: Excavate for culverts and minor drainage structures in soft material
Unit: m³

The rate for excavation in soft material shall include for the cost of spoiling of the material as directed by the Engineer. Measurement shall be the volume excavated as instructed by the Engineer.

- (b) Item: Excavate for culverts and minor drainage structures in hard material
Unit: m³

The specification same as (a) above but for hard material

- (c) Item: Excavate for all drains in soft materials
Unit: m³

The material shall be measured by the volume excavated in m³ as instructed. The rate shall include the cost of excavation and spoiling of the material excavated.

- (d) Item: Excavate for all drains in hard material
Unit: m³

Same as (c) above but for hard material

- (e) Item: Provide and joint various sizes of concrete pipes- 300mm, 450mm, 600mm, 900mm.
Unit: m

The measurement shall be by length in metres installed

The rate of shall include provision and joining of various sizes of pipe culverts

- (f) Item: Provide concrete class 15/20 to beds surrounds and haunches.
Unit: m³

The rate for concrete class 15/20 shall include for providing, placing and curing as directed by the Engineer.

- (g) Item: Concrete to minor drainage structures such as headwalls, wingwalls etc
Unit: m³

The rate shall include the cost of providing, placing and curing class 20/20 concrete.

- (h) Item: Stone pitching
Unit: m²

Stone pitching shall be measured by square metre. The rate shall include the cost of excavation, providing the stone and grouting using 1:4 cement sand mortar.

- (i) Item: Gabion boxes
2m x 1m x 1m , 1m x 1m x 1m or 0.5 m x 1m x 1m
Unit: No

Gabion boxes shall be measured and paid for by the size and number instructed

- (j) Item: Rockfill to gabions
Unit: m^3

Rock fill to gabions shall be in cubic metres of the boxes filled. The rate shall include the cost of providing, hauling and placing the rock in the gabion boxes

- (k) Item: Concrete for scour checks
Unit: m^3

The rate shall include the cost of ground preparation, providing placing and curing class 20/20 concrete

- (l) Item: Masonry for scour checks
Unit: m^3

The Masonry for scour checks shall be measured by the area instructed. The cost shall include the cost of provision of the dressed 200mm x 150mm stone, ground preparation, placing mortar and curing as necessary.

- (m) Item: Rip-rap
Unit: m^3

Rip-rap shall be in cubic metre. The rate for dumped riprap shall include for providing and dumping as instructed.

- (n) Item: Masonry for headwalls and wing-walls to culverts

Unit: m^2

The rate for masonry wall will include the cost of provision of 150mm x 150 mm dress stone, placing and curing.

- (o) Item: Allow for cleaning of culverts and drains
Unit: Length (m) for partially silted
Volume (m^3) for completely silted.

The cost for cleaning shall cater for labour, tools and equipment instructed used.

SECTION 10

7.2 GRADING AND GRAVELLING

10.01 DESCRIPTION

(a) Grading

Grading covers the works involved in the reinstatement of the road carriageway to the camber by removing high points and filling up gullies, corrugations and wheel ruts to restore a smooth riding surface. When undertaking grading the material shall be graded towards the center of the road. Side ditches shall be developed during grading operation together with the obviously required mitre drains to enable water to drain away from the road. The Engineer will instruct the width to be graded. The contractor shall assess the road to be graded and determine the work involved before pricing his tender

(b) Graveling

Graveling means spreading gravel wearing course material on the formation of a road carriageway. Gravel shall include lateritic gravel, quartzitic gravel, calcareous gravel, decomposed rock, soft stone, coral rag, clayey sand and crushed rock. The gravel material may be obtained from borrow pits or excavations in cuttings. The material shall have a minimum CBR of 20 and maximum P1 of 20. The material shall be uniformly graded between 0 and 75mm. The contractor shall be fully responsible for the acquisition of the gravel material site from the land owners. The cost of the material the removal of the overburden and opening of haul roads shall be included in the rate for graveling. The Engineer shall show the contractor the location along the road where the material shall be placed. The contractor shall assess all the work involved in excavating and handling the material from the material site before costing the rate for graveling.

The sections of the carriageway to be gravelled shall be graded as per (a) above and then compacted before the gravel material is dumped and spread uniformly across the whole of the instructed width of the carriageway. The material shall be broken down to maximum size of 75mm mixed with water and compacted using a roller of minimum 8 tonne all to the approval of the Engineer. The final compacted layer shall be 150 mm. The Engineer shall advise on the stacking of the gravel heaps along the road to achieve 150mm when compacted.

10.02 MEASUREMENT AND PAYMENT

(a) Item: Grading

Unit: m²

The rate of grading shall include the cost of grading as per clause 10.01 (a) of this specification. It will be measured by the width of the carriageway multiplied by the length of the road as instructed by the Engineer.

The width of road shall be measured as distance from side ditch to side ditch at any particular point.

(b) Item: Gravelling

Unit: m²

The rate for gravelling shall include the cost of material acquisition, removal of the overburden, excavation, loading, transportation, compaction of carriageway, dumping, spreading, watering and compaction of gravel as described in section 10.01 (b) of this specification.

SECTION 17

REINFORCED CONCRETE WORKS

17.01 DESCRIPTION

This section covers the materials, design of mixes, mixing, transport placing, compaction and curing of concrete and mortar required in the works. It also covers formwork and reinforcement for concrete.

17.02 SCOPE OF THE SPECIFICATION

The design, mixing, transportation, placing, curing, protection, finishes, mortar, formwork, and reinforcement which are all related to concrete works shall be carried out as specified under Section 17 of the “Standard Specification for Road and Bridge Construction” published by Roads Department in 1987.

17.03 MEASUREMENT AND PAYMENT

(a) Item: Concrete

Unit: m³ of each concrete class

Concrete shall be measured by the cubic metres of each class calculated from the dimensions given on the drawings or instructed by the Engineer. No deduction shall be made for the reinforcement, mortar, or bolts.

The rate for the concrete shall include for the cost of:-

- i) Provision and transport of cement, aggregate and water,
- ii) Batching, mixing, transporting, placing, compacting, and curing of concrete,
- iii) Class F1 finish.

(b) Item: Blinding concrete

Unit: m³

Blinding concrete shall be measured by the cubic metre calculated as the product of the plan area of the foundation as shown on the drawings and the instructed thicknesses. No deduction shall be made for openings provided that the area of each is less than 0.5 m². Blinding concrete over hard material shall be measured as the volume used provided that the maximum thickness of 150mm allowed for overbreak is not exceeded

The rate for blinding concrete shall include for all costs itemised in Clause 1703(a) of this specification

(c) Item: Formwork

Unit: m² of formwork for each class of finish

Formwork shall be measured by the m² of formwork actually in contact with the finished face of the concrete.

- (d) Item: Unformed surface finishes
Unit: m² for each class of finish

Unformed surface finishes shall be measured by the square metre from the dimensions given on the drawings or instructed by the Engineer.

- (e) Item: Mortar
Unit: m²

Mortar used for bedding base plates and the like shall be measured by the square metre as the area of the base plate at the specified nominal thickness of the bedding

- (f) Item: Reinforcement
Unit: Tonne for each type for each range of diameters

Reinforcement shall be measured separately for each of the following ranges.

- (i) of diameter equal to or less than 16mm
- (ii) of diameter greater than 16mm

Steel plain and deformed bar reinforcement shall be measured by the tonne and shall be the calculated weight of the steel required including the splice lengths shown on the drawings

The rate for reinforcement shall include for the cost of providing, cutting to length, laps, bending, hooking, waste incurred by cutting, cleaning, spacer blocks, providing and fixing of the chairs or other type of supports, welding, fixing the reinforcement in position including the provision of the wire or other material for supporting and tying the reinforcement in place, bending reinforcement and straightening, placing and compacting concrete around reinforcement.

SECTION 20

ROAD FURNITURE

20.01 DESCRIPTION

This section covers the reinstatement of road furniture where they have been vandalised or destroyed through road accidents.

20.02 Road Signs

All road signs shall comply with the requirement of the "Manual for Traffic Signs in Kenya", Part II

Road signs shall be obtained from a manufacturer approved by the Engineer. All colours on the road sign except black and grey shall be reflectorised.

Road signs shall comply with the requirement of BS 873 Parts 2, 6, & 7 in respect of quality including the pre-treatment, preparation and protective coatings for the frame posts and fittings.

The contractor shall excavate in any material for the foundation of the road sign, provide and place concrete class 15/20 embedded all round and under the posts and backfill all as shown in the drawings.

Road Marking

Road markings shall comply with the requirement of the "Manual for Traffic Signs in Kenya", Part I. Markings shall be white or yellow as instructed by the Engineer.

Paint and hot applied thermoplastic material shall comply with Section 2 of the "Standard Specification for Road and Bridge construction 1986" issued by the Roads Department.

Ballotini beads shall be mixed with the paint before application or applied to the painted areas immediately after painting as instructed by the Engineer.

Prior to application of paints, the road surface to be marked shall be thoroughly cleaned of all loose material and shall be completely dry.

The application of the paint shall be done by machine or brushing.

Warning signs shall be erected when painting is in progress and traffic shall not be allowed to pass over wet paint.

Guard Rails

Guard rails shall be obtained from a manufacturer approved by the engineer and shall be in accordance with AASHTO M180 class A with a type 1 finish.

Posts shall be constructed of concrete class 20/15 reinforced with 16 mm diameter mild steel bars all as shown in the drawings.

Guardrails shall be erected at locations shown on the drawings or instructed by the Engineer.

The contractor shall excavate for the posts in any material and provide all posts. Blocks nuts washers and shall backfill around the posts.

Kerbs

Where shown on the drawings or directed by the Engineer the contractor shall excavate in any material, provide and place concrete for the haunch, backfill, provide, lay and joint precast concrete kerbs complying with the requirement of BS 340. The haunch shall be concrete class 15/20 as per the requirements of Section 17 of this specification.

20.03 MEASUREMENT AND PAYMENT

- (a) Item: Road Signs

Unit: No

The rate for the road signs shall include for the costs of providing all materials including posts and fittings, fabrication, transportation, excavation in any material, installation, concrete foundations, and backfill as described in this specification.

- (b) Item: Road Marking in yellow or white paint

Unit: m²

Road marking in yellow or white paint shall be measured in square metres calculated as the plan area instructed to be painted.

The rate for road marking in yellow or white paint shall include for the cost of setting out, providing paint and painting to any symbol or line of any width and complying with this specification.

- (c) Item: Guardrail

Unit: m

Guardrails shall be measured by the metres as the length of guardrail instructed

The rate for guardrail shall include for the cost of provision and transport for all materials, excavation, concrete posts, erection, backfilling and complying with this specification.

- (d) Item: Kerbs

Unit: m

The rate for the kerb shall include for the cost of provision of all the materials, excavation in any material laying and jointing kerbs, concrete bedding, haunching, and backfilling and complying with this specification

SECTION 22

DAYWORKS

22.01 DESCRIPTION

This section covers provisional items included in the bills of quantities to cover the payment of plant, labour, and materials for work instructed by the Engineer on daywork basis.

22.02 MEASUREMENT AND PAYMENT

(a) Plant and Equipment

Payment for plant and equipment shall only be made for the time each item of plant or equipment is actually working. Idle time due to breakdown or incompleteness of the plant shall not be paid for.

The rate for plant or equipment shall include for the cost of the following

- (i) Transportation of the plant or equipment to the site
- (ii) Operators, drivers, and turn boys including their overtime
- (iii) Power, water, fuel, oil, grease and other consumables
- (iv) Maintenance, spare parts, and all costs of repairs
- (v) Depreciation, insurance, overheads and profits.

(b) Labour

Payment shall only be made for the time each class of labour is actually working on the daywork instructed by the Engineer.

The rate for labour shall include the cost of the following

- (i) All salaries, allowances and other payments required by the labour
- (ii) Provision of small tools used on day work such as picks, shovels, pangas, jembes, hammers, chisels and all other tools used by tradesmen

(c) Materials

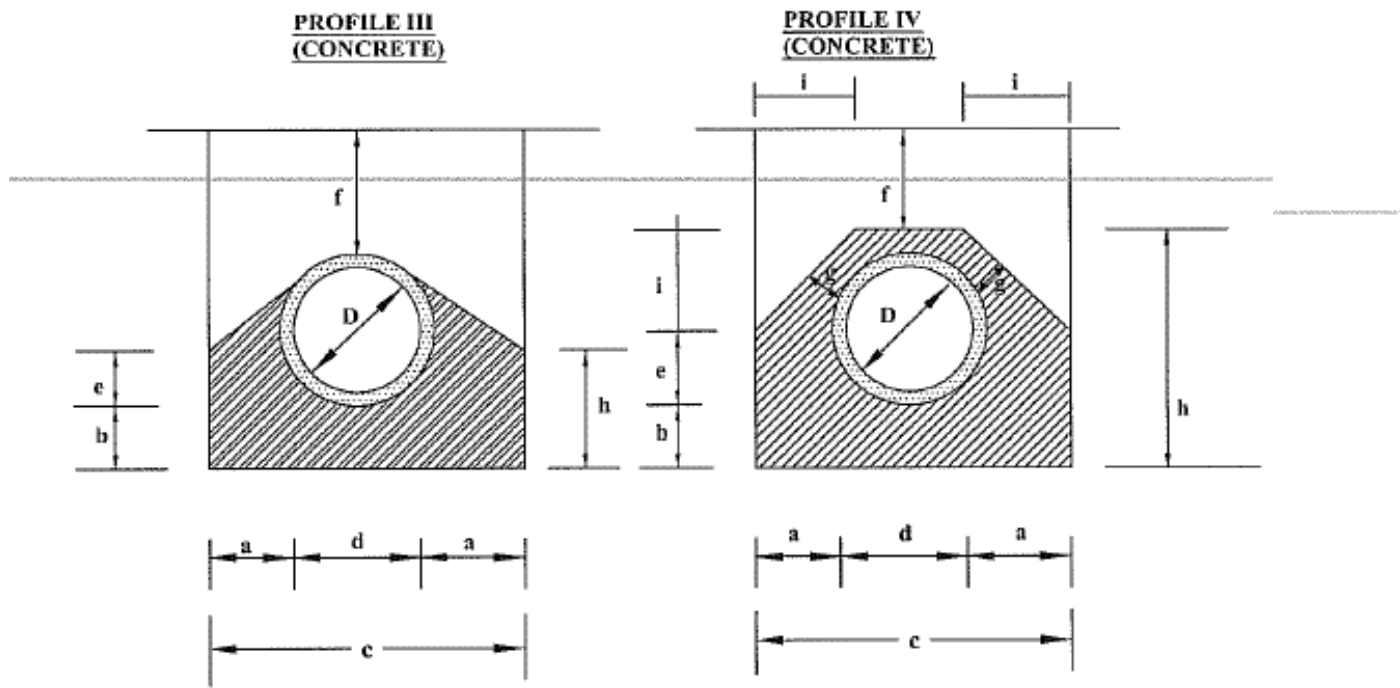
Payment shall only be made for materials instructed by the Engineer for use in dayworks. The rate for materials shall include for cost of purchase or provision of the material, transport to the site, storage, handling, profits and overheads.

22.03 SCHEDULE OF DAYWORKS

The Engineer will compile a schedule of the plant labour and materials likely to be instructed for day works for each project. This shall be shown under Bill No.22 in the Bills of Quantities.

DRAWINGS

FIGURE C17-BEDDING AND SURROUND PROFILE TYPES III & IV



Diameter (D)	450 (mm)	600 (mm)	900 (mm)
a	0.15	0.20	0.20
b	0.10	0.15	0.15
c	0.86	1.12	1.48
d	0.56	0.72	1.08
e	0.42	0.54	0.81
f(min)	0.23	0.3	0.45
g	-	-	-
h	0.52	0.69	0.96
i	-	-	-
Concrete	Volume in (m3/m)		
Class 15/20	0.26	0.47	0.71
Application	-Fair subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only		
Remarks	Material for back/overfill shall be approved by the Engineer		

Diameter (D)	450 (mm)	600 (mm)	900 (mm)
a	0.15	0.20	0.20
b	0.10	0.15	0.15
c	0.86	1.12	1.48
d	0.56	0.72	1.08
e	0.46	0.52	0.78
f	0.15	0.15	0.15
g	0.15	0.15	0.15
h	0.81	1.02	1.38
i	0.28	0.35	0.45
Concrete	Volume in (m3/m)		
	0.37	0.61	0.92
Application	-Fair to poor subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only		
Remarks	Material for back/overfill shall be approved by the Engineer		

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