

REPUBLIC OF KENYA



KASARANI NATIONAL GOVERNMENT CONSTITUENCY

DEVELOPMENT FUND

BILLS OF QUANTITIES

FOR

**THE PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION
BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA
SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI**

TENDER NO: KAS/NG-CDF/025/020/021

ISSUED BY;

**STATE DEPARTMENT FOR PUBLIC WORKS
SUBCOUNTY WORKS OFFICE
KASARANI, NAIROBI REGION
P.O. BOX 42267
NAIROBI**

2021

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DEFINITIONS

The following terms and expressions used in the contract document shall have the following meanings:

- | | | |
|---------------------------|---|---|
| The Employer | - | The NG-CDF Funds Manager,
KASARANI Constituency |
| Project Manager: | - | Regional Works Officer. Nairobi Region
State Department of Public Works
P. O. Box 42267, NAIROBI |
| Architect | - | Regional Architect
State Department of Public Works
P. O. Box 42267, NAIROBI |
| Quantity Surveyor | - | Regional Quantity Surveyor
State Department of Public Works
P.O. Box 42267
NAIROBI |
| Employer's Representative | - | Shall mean the Project Manager
(Replacing DR) who in this case is the
Regional Works Officer -Nairobi |

REPUBLIC OF KENYA

MINISTRY OF PUBLIC WORKS

BILLS OF QUANTITIES

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TENDER NO: KAS/NG-CDF/025/020/021

Issued by:

**REGIONAL WORKS OFFICER
KASARANI SUBCOUNTY
STATE DEPARTMENT FOR PUBLIC WORKS
P. O. BOX 42267
NAIROBI.**

SPECIAL NOTES

The contractor is required to check the number of pages of these Bills of Quantities and should he find any missing or duplicate, or figures indistinct, he must inform the Regional Works Officer, State Department of Public Works, Machakos Road Nairobi, Nairobi Regional at once and have the same rectified.

Further, should the contractor be in doubt about the precise meaning of any item or figure for reason any whatsoever, he must inform the Regional Works Officer, State department for Public Works, Machakos Road Nairobi, in order that the correct meaning may be decided before the date of Submission of tenders.

No liability will be admitted nor claim allowed in respect of the errors in the contractors' tender due to mistakes in the specification that should have been rectified in the manner described above.

SECTION A

STANDARD FORMS

STANDARD FORMS

1. Form of Invitation to Tender
2. Site Visit Certification Form
3. Form of Tender
4. Form of Agreement
5. Form of Tender Security
6. Form of Performance Bank Guarantee
7. Confidential Business Questionnaire
8. Tender Questionnaire.
8. Key Personnel.
10. Schedule of Contracts completed in the last five (5) years.
11. Schedule of on-going projects.
12. Evidence of Financial Resources to Meet Qualification Requirements.
13. Bidders Bank Information
14. Details of Litigation or Arbitration Proceedings.
15. Proposed Works Programme
16. Schedule of Major Items of Contractor's equipment proposed for carrying out the works
- 17 Anti corruption declaration.

NOTE:

Tenderers must duly fill these Standard Forms where applicable as a mandatory requirement as they will form part of the evaluation criteria.

SITE VISIT CERTIFICATION FORM

I.....(Name of Client/Client Representative) of
..... (Name Of
Department)

do hereby certify that.....
(Name of tender/tenderers representative)

of.....(Name of
bidding firm and address)

Have actually visited the site for the proposed.....
.....
(Name of proposed works for which bids are invited)

This.....day of.....month.....202.....

.....
Signature

.....
Official Stamp

Declaration (by Tenderer)

I..... (Name of tenderer)
Do hereby declare that I have visited the site for the proposed works and that I am
satisfied/not satisfied with the (delete as appropriate) information gathered.

.....
Signature

.....
Date

.....
Official Stamp

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 there of, 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 _____

FORM OF AGREEMENT

THIS AGREEMENT, made the _____ day of _____ 20 _____
between _____ of [or whose registered
office is situated at] _____
(hereinafter called “the Employer”) of the one part AND
_____ of [or whose registered
office is situated at] _____
(hereinafter called “the Contractor”) of the other part.

WHEREAS THE Employer is desirous that the Contractor executes

_____ *(name and identification number of Contract)* (hereinafter called “the Works”) located
at _____ *[Place/location of the Works]* and the Employer has
accepted the tender submitted by the Contractor for the execution and completion
of such Works and the remedying of any defects therein for the Contract Price of
Kshs _____ *[Amount in figures]*, Kenya
Shillings _____ *[Amount in words]*.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and shall be read and construed as part of this Agreement i.e.
 - (i) Letter of Acceptance
 - (ii) Form of Tender
 - (iii) Conditions of Contract Part I
 - (iv) Conditions of Contract Part II and Appendix to Conditions of Contract
 - (v) Specifications
 - (vi) Drawings
 - (vii) Priced Bills of Quantities/Priced Schedule of Rates [whichever is applicable]
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.

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

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The common Seal of _____

Was hereunto affixed in the presence of _____

Signed Sealed, and Delivered by the said _____

Binding Signature of Employer _____

Binding Signature of Contractor _____

In the presence of (i) Name_____

Address_____

Signature_____

[ii] Name _____

Address_____

Signature_____

FORM OF TENDER SECURITY (SAMPLE do not fill)

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:

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 (SAMPLE do not fill)

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 Certificate of Completion.

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2 (b) or 2 (c) and 2 (d) 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.....				

Part 2(c) - Registered Company:

Private or public.....

State the nominal and issued capital of the Company-

Nominal Kshs.....

Issued Kshs.....

Give details of all directors as follows:

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

1.....

2.....

3.....

4.....

Part 2(d) - Interest in the Firm:

Is there any person / persons in(Name of Employer) who has interest in this firm? Yes/No.....(Delete as necessary)

I certify that the information given above is correct.

.....
(Title)

.....
(Signature)

.....
(Date)

- Attach proof of citizenship

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/Fax Address 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

KEY PERSONNEL

Qualifications and experience of key personnel proposed for administration and execution of the Contract.

POSITION	NAME	YEARS OF EXPERIENCE (GENERAL)	YEARS OF EXPERIENCE IN PROPOSED POSITION
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

I certify that the above information is correct.

.....
Title

.....
Signature

.....
Date

CONTRACTS COMPLETED IN THE LAST FIVE (5) YEARS

Work performed on works of a similar nature, complexity and volume over the last 5 years.

PROJECT NAME	NAME OF CLIENT	TYPE OF WORK AND YEAR OF COMPLETION	VALUE OF CONTRACT (Kshs.)

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

.....

.....

.....

Title

Signature

Date

SCHEDULE OF ON-GOING PROJECTS

Details of on-going or committed projects, including expected completion date.

PROJECT NAME	NAME OF CLIENT	CONTRA CT SUM	% COMPLE TE	COMPLETIO N DATE

I certify that the above works are currently being carried out by ourselves.

.....

Title

.....

Signature

.....

Date

**EVIDENCE OF FINANCIAL RESOURCES TO MEET QUALIFICATION
REQUIREMENTS**

***(Cash in hand, Lines of credit, e.t.c. List below and attach copies of
supportive documents)***

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

BIDDERS BANK INFORMATION

(This should be for banks that may provide reference if contacted by the employer)

NAME OF BANK	BANK BRANCH	ACCOUNT NAME	ADDRESS	TELEPHONE

**DETAILS OF LITIGATION OR ARBITRATION PROCEEDINGS IN WHICH THE
TENDERER HAS BEEN INVOLVED AS ONE OF THE PARTIES IN THE LAST 5
YEARS**

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____

PROPOSED WORKS PROGRAMME

(Bidders to Propose Works Programme in form of a Bar Chart covering the whole of the Contract Period indicating their proposed Contract Completion Period)

**SCHEDULE OF MAJOR ITEMS OF CONTRACTOR'S EQUIPMENT PROPOSED
FOR CARRYING OUT THE WORKS**

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?)

Anti-corruption declaration commitment

MEMORANDUM (FORMAT)

Clause 41, 62 and 66 of Kenya Public Procurement and Asset Disposal Act (PPADA) 2015 This company _____ (*name of company*) has issued, for the purposes of this tender, a Compliance Program copy attached -which includes all reasonable steps necessary to assure that the No-bribery commitment given in this statement will be complied with by its managers and employees, as well as by all third parties working with this company on the public sector projects or contract including agents, consultants, consortium partners, subcontractors and suppliers')"

We also confirm that we have not been debarred from participating in Public Procurement Proceedings.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Bidder: _____

SECTION B

INSTRUCTION TO TENDERERS

INSTRUCTIONS TO TENDERERS

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INSTRUCTIONS TO TENDERERS.

1. General

- 1.1 The Employer as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The successful Tenderer will be expected to complete the Works by the Intended Completion Date specified in the said Appendix.
- 1.2 Tenderers shall include the following information and documents with their tenders, unless otherwise stated:
 - (a) copies of certificates of registration, and principal place of business;
 - (b) total monetary value of construction work performed for each of the last two years;
 - (c) experience in works of a similar nature and size for each of the last two years, and clients who may be contacted for further information on these contracts;
 - (d) major items of construction equipment owned;
 - (e) qualifications and experience of key site management and technical personnel proposed for the Contract;
 - (f) reports on the financial standing of the Tenderer, such as profit and loss statements and auditor's reports for the last five years;
 - (g) authority to seek references from the Tenderer's bankers.
- 1.3 The Tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible or liable for those costs.
- 1.4 The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Tenderer's own expense.

2. Tender Documents

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

3. Preparation of Tenders

- 3.1 All documents relating to the tender and any correspondence shall be in English Language.
- 3.2 The tender submitted by the Tenderer shall comprise the following:-
- (a) The Tender;
 - (b) Tender Security;

- (c) Priced Bill of Quantities/Schedule of Rates for lump-sum Contracts
 - (d) Any other materials required to be completed and submitted by Tenderers.
- 3.3 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities/Schedule of Rates. Items for which no rate or price is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities/Schedule of Rates. All duties, taxes and other levies payable by the Contractor under the Contract, as of 30 days prior to the deadline for submission of tenders, shall be included in the tender price submitted by the Tenderer.
- 3.4 The rates and prices quoted by the Tenderer shall not be subject to any adjustment during the performance of the Contract.
- 3.5 The unit rates and prices shall be in Kenya Shillings.
- 3.6 Tenders shall remain valid for a period of 90 days from the date of submission. However in exceptional circumstances, the Employer may request that the Tenderers extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing.
- 3.7 The Tenderer shall prepare one original of the documents comprising the tender documents as described in these Instructions to Tenderers.
- 3.8 The original shall be typed or written in indelible ink and shall be signed by a person or persons duly authorised to sign on behalf of the Tenderer. All pages of the tender where alterations or additions have been made shall be initialed by the person or persons signing the tender.

4. Submission of Tenders

- 4.1 The tender duly filled and sealed in an envelope shall;-
- (a) be addressed to the Employer at the address provided in the invitation to tender;
 - [b] bear the name and identification number of the Contractor as defined in the invitation to tender; and
 - [c] provide a warning not to open before the specified time and date for tender opening.
- 4.2 Tenders shall be delivered to the Employer at the address specified above not later than the time and date specified in the invitation to

tender.

- 4.3 The tenderer shall not submit any alternative offers unless they are specifically required in the tender documents.

Only one tender may be submitted by each tenderer. Any tenderer who fails to comply with this requirement will be disqualified.

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

5. Tender Opening and Evaluation

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

- (c) In the event of a discrepancy between the tender amount as stated in the Form of Tender and the corrected tender figure in the main summary of the Bill of Quantities/Quotation, the amount as stated in the Form of Tender shall prevail.
- (d) The Error Correction Factor shall be computed by expressing the difference between the tender amount and the corrected tender sum as a percentage of the Corrected Builder's Work (i.e. corrected tender sum less P.C. and Provisional Sums).
- (e) The Error Correction Factor shall be applied to all Builder's Work (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuation of variations.
- (f) The amount stated in the tender will be adjusted in accordance with the above procedure for the correction of errors and with concurrence of the Tenderer, shall be considered as binding upon the Tenderer. If the Tenderer does not accept the corrected amount, the tender may be rejected and the Tender Security forfeited.

5.5 To assist in the examination, evaluation, and comparison of tenders; A substantially responsive tender is one which is within the margin of 10% of the Attendant Bill estimate. The Employer at his discretion, may request [in writing] any Tenderer for clarification of the tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, telex or facsimile but no change in the tender price or substance of the tender shall be sought, offered or permitted.

5.6 The Tenderer shall not influence the Employer on any matter relating to his tender from the time of the tender opening to the time the Contract is awarded. Any effort by the Tenderer to influence the Employer or his employees in his decision on tender evaluation, tender comparison or Contract award may result in the rejection of the tender.

6. Award of Contract

6.1 The award of the Contract will be made to the Tenderer who has offered the lowest evaluated tender price.

6.2 Notwithstanding the provisions of clause 6.1 above, the Employer reserves the right to accept or reject any tender and to cancel the tendering process and reject all tenders at any time prior to the award

of Contract without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds for the action.

- 6.3 The Tenderer whose tender has been accepted will be notified of the award prior to expiration of the tender validity period in writing or by cable, telex or facsimile. This notification (hereinafter and in all Contract documents called the “Letter of Acceptance”) will state the sum [hereinafter and in all Contract documents called the “Contract Price” which the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract. The notification of award will constitute the formation of the Contract, subject to the Tenderer furnishing the Performance Security and signing the Contract Agreement.
- 6.4 The Contract Agreement will incorporate all agreements between the Employer and the successful Tenderer. It will be signed by the Employer and sent to the successful Tenderer, within 30 days following the notification of award. Within 21 days of receipt ,the successful Tenderer will sign the Agreement and return it to the Employer.
- 6.5 Within 21 days after receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Performance Security amount stipulated in the Appendix to Conditions of Contract.

APPENDIX TO SECTION B

1. For purposes of Instruction number 1.2 (a) in the Standard Instruction to Tenderers, tenderers shall be required to have been registered with National Construction Authority and Commissioner of VAT.

SECTION C

CONDITIONS OF CONTRACT

CONDITIONS OF CONTRACT

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CONDITIONS OF CONTRACT

1. Definitions

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

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

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

“The Completion Date” means the date of completion of the Works as certified by the Employer’s Representative.

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

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

“The Contractor’s Tender” is the completed tendering document submitted by the Contractor to the Employer.

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

“Days” are calendar days; **“Months”** are calendar months.

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

“The Defects Liability Certificate” is the certificate issued by Employer’s Representative upon correction of defects by the Contractor.

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

“Drawings” include calculations and other information provided or approved by the Employer’s Representative for the execution of the Contract.

“Employer” Includes Central or Local Government administration, Universities, Public Institutions and Corporations and is the party who employs the Contractor to carry out the Works.

“Equipment” is the Contractor’s machinery and vehicles brought temporarily to the Site for the execution of the Works.

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

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

“Employer’s Representative” is the person appointed by the Employer and notified to the Contractor for the purpose of supervision of the Works.

“Specification” means the Specification of the Works included in the Contract.

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

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

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

“ A Variation” is an instruction given by the Employer’s Representative which varies the Works.

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

2. Contract Documents

2.1 The following documents shall constitute the Contract documents and shall be interpreted in the following order of priority;

- (1) Agreement,
- (2) Letter of Acceptance,
- (3) Contractor’s T-ender,
- (4) Conditions of Contract,
- (5) Specifications,
- (6) Drawings,
- (7) Bills of Quantities or Schedule of Rates [whichever is applicable]

3. Employer's Representative's Decisions

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

4. Works, Language and Law of Contract

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

5. Safety, Temporary works and Discoveries

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

6 Work Program and Sub-contracting

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

7 The site

- 7.1 The Employer shall give possession of all parts of the Site to the Contractor.
- 7.2 The Contractor shall allow the Employer's Representative and any other person authorised by the Employer's Representative ,access to the Site

and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

8 Instructions

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

9 Extension of Completion Date

- 9.1 The Employer's Representative shall extend the Completion Date if an occurrence arises which makes it impossible for completion to be achieved by the Intended Completion Date. The Employer's Representative shall decide whether and by how much to extend the Completion Date.
- 9.2 For the purposes of this clause, the following occurrences shall be valid for consideration;
Delay by:-
- (a) force majeure, or
 - (b) reason of any exceptionally adverse weather conditions, or
 - (c) reason of civil commotion, strike or lockout affecting any of the trades employed upon the Works or any of the trades engaged in the preparation, manufacture or transportation of any of the goods or materials required for the Works, or
 - (d) reason of the Employer's Representative's instructions issued under these Conditions, or
 - (e) reason of the contractor not having received in due time necessary instructions, drawings, details or levels from the Employer's Representative for which he specifically applied in writing on a date which having regard to the date for Completion stated in the appendix to these Conditions or to any extension of time then fixed under this clause was neither unreasonably distant from nor unreasonably close to the date on which it was necessary for him to receive the same, or
 - (f) delay on the part of artists, tradesmen or others engaged by the Employer in executing work not forming part of this Contract, or
 - (g) reason of delay by statutory or other services providers or similar bodies engaged directly by the Employer, or
 - (h) reason of opening up for inspection of any Work covered up or of the testing or any of the Work, materials or goods in accordance

with these conditions unless the inspection or test showed that the Work, materials or goods were not in accordance with this Contract, or

- (i) reason of delay in appointing a replacement Employer's Representative, or
- (j) reason of delay caused by the late supply of goods or materials or in executing Work for which the Employer or his agents are contractually obliged to supply or to execute as the case may be, or
- (k) delay in receiving possession of or access to the Site.

10 Management Meetings

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

11 Defects

- 11.1 The Employer's Representative shall inspect the Contractor's work and notify the Contractor of any defects that are found. Such inspection shall not affect the Contractor's responsibilities. The Employer's Representative may instruct the Contractor to search for a defect and to uncover and test any Work that the Employer's Representative considers may have a defect. Should the defect be found, the cost of uncovering and making good shall be borne by the Contractor. However if there is no defect found, the cost of uncovering and making good shall be treated as a variation and added to the Contract Price.
- 11.2 The Employer's Representative shall give notice to the Contractor of any defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the Appendix to Conditions of Contract.
- 11.3 Every time notice of a defect is given, the Contractor shall correct the notified defect within the length of time specified by the Employer's Representative's notice. If the Contractor has not corrected a defect

within the time specified in the Employer's Representative's notice, the Employer's Representative will assess the cost of having the defect corrected by other parties and such cost shall be treated as a variation and be deducted from the Contract Price.

12 Bills of Quantities/Schedule of Rates

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

13 Variations

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

14 Payment Certificates and Final Account

- 14.1 The Contractor shall be paid after each of the following stages of Work listed herebelow (subject to re-measurement by the Employer's Representative of the Work done in each stage before payment is made). In case of lump-sum Contracts, the valuation for each stage shall be based on the quantities so obtained in the re-measurement and the rates in the Schedule of Rates.

- (i) Advance payment _____ (*percent of Contract Price, [after Contract execution] to be inserted by the Employer*).
- (ii) First stage (*define stage*) _____
- (iii) Second stage (*define stage*) _____
- (iv) Third stage (*define stage*) _____
- (v) After defects liability period .

14.2 Upon deciding that Works included in a particular stage are complete, the Contractor shall submit to the Employer's Representative his application for payment. The Employer's Representative shall check, adjust if necessary and certify the amount to be paid to the Contractor within 21 days of receipt of the Contractor's application .The Employer shall pay the Contractor the amounts so certified within 30 days of the date of issue of each Interim Certificate.

14.3 The Contractor shall supply the Employer's Representative with a detailed final account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Employer's Representative shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 30 days of receiving the Contractor's account if it is correct and complete. If it is not, the Employer's Representative shall issue within 21 days a schedule that states the scope of the corrections or additions that are necessary. If the final account is still unsatisfactory after it has been resubmitted, the Employer's Representative shall decide on the amount payable to the Contractor and issue a Final Payment Certificate. The Employer shall pay the Contractor the amount so certified within 60 days of the issue of the Final Payment Certificate.

14.4 If the period laid down for payment to the Contractor upon each of the Employer's Representative's Certificate by the Employer has been exceeded, the Contractor shall be entitled to claim simple interest calculated pro-rata on the basis of the number of days delayed at the Central Bank of Kenya's average base lending rate prevailing on the first day the payment becomes overdue. The Contractor will be required to notify the Employer within 15 days of receipt of delayed payments of his intentions to claim interest.

15. Insurance

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

16. Liquidated Damages

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

17. Completion and Taking Over

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

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

18. Termination

18.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract. These fundamental breaches of Contract shall include, but shall not be limited to, the following;

- (a) the Contractor stops Work for 30 days continuously without reasonable cause or authority from the Employer's Representative;
- (b) the Contractor is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- (c) a payment certified by the Employer's Representative is not paid by the Employer to the Contractor within 30 days after the expiry of the payment periods stated in subclauses 14.2 and 14.3 hereabove.
- (d) the Employer's Representative gives notice that failure to correct a particular defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time.

18.2 If the Contract is terminated, the Contractor shall stop Work immediately, and leave the Site as soon as reasonably possible. The Employer's Representative shall immediately thereafter arrange for a meeting for the purpose of taking record of the Works executed and materials, goods, equipment and temporary buildings on Site.

19. Payment Upon Termination

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

20. Corrupt Gifts and Payments of Commission

- 20.1 The Contractor shall not;
- (a) Offer or give or agree to give to any person in the service of the Employer any gifts or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract with the Employer or for showing or forbearing to show favour or disfavour to any person in relation to this or any other contract with the Employer.
 - (b) Any breach of this Condition by the Contractor or by anyone employed by him or acting on his behalf (whether with or without the knowledge of the Contractor) shall be an offence under the Laws of Kenya.

21. Settlement of Disputes

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

APPENDIX TO CONDITIONS OF CONTRACT

THE EMPLOYER IS

Name of Employer:

**The NGCDF MANAGER,
KASARANI CONSTITUENCY**

The name (and identification number) of the Contract is **THE PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI**

TENDER NO: KAS/NG-CDF/025/020/021

The Start Date shall be as **Instructed by the Project Manager**

The Intended Completion Date for the whole of the Works is: 24 Weeks from the Date of Commencement

The following documents also form part of the Contract:

The Site Possession Date shall be **as instructed by Project Manager**

The Site is located at
And is defined in drawings nos. _____

The Defects Liability Period is 180 days.

The Price Adjustment Clause **SHALL NOT** apply

Amount of Tender Security is **Kshs**.....Note: This amount should be between one (1) percent and three (3) percent of the value of the Works)

The name and Address of the Employer for the purposes of submission of tenders is...**as indicated in the invitation letter**.....

The tender opening date and time is **as in invitation letter**

TENDER EVALUATION CRITERIA

The following criteria will be used in the evaluation of all bids. The submission of the required documents will be used in the determination of the Completeness and Suitability of the Bid. Bids that do not contain all the information required will be declared non-responsive and shall not be evaluated further.

STAGE 1: PRE-LIMINARY EVALUATION

No.	Completeness and Responsiveness Criteria	Requirement
1.	Form of Tender	- Amount must be indicated - Properly fill and sign
2.	Bid Bond (Tender Security)	- Attach an Original Bid Bond of Ksh. 100,000 - Valid for 150 days after tender opening
3.	Confidential Business Questionnaire	- Properly filled, sign and stamped - Provide all required information - copy of Form CR12
4.	Form of Power of Attorney	Provide a written power of attorney which shall accompany the tender if the signatory to the tender is not a director of the company as per form CR 12.
5.	Valid Tax Compliance Certificate	- Provide a Valid Copy
6.	Valid Business Permit/ Trade License	- Copy of Single Business Permit/Trade License
7.	Registration with National Construction Authority	- Category NCA 7 and above , Building Works
8.	Certificate of Incorporation	- Copy of certificate
9	Anti-corruption declaration commitment/Debarment	Submit a Signed Declaration statement that the firm will not be involved in corrupt or fraudulent practices and it has NOT been debarred by Public Procurement Regulatory Authority (PPRA).
10	Copy of Bid Document	- no copy
11	Serialization of pages by bidders for each Bid submitted	It should be done page by page in progressive manner

- i) Proof of authorization shall be furnished in the form of a **written power of attorney** which shall accompany the tender if the signatory to the tender is not a director of the company (**Provide name and attach proof of citizenship of the signatory to the Tender**).

NB: - A tenderer who fails to meet the mandatory requirements shall be disqualified from further evaluation.

Note:

- a) The bid security shall be in accordance with clauses 13 and 23.2 of Instruction to Tenderers which states as follows:
- *Clause 13.1 of Instruction to Tenderers,* “the tenderers shall furnish as part of his tenders a Bid surety in the amount stated in the tender document in the Appendix to Instructions to Tenderers”.
 - *Clause 13.2 of Instruction to Tenderers,* “the unconditional Tender surety shall be in Kenya shillings and be in form of a certified cheque, bank draft, an irrevocable letter of credit or a guarantee from a reputable Bank/ Insurance approved by **PPRA** located in **the Republic of Kenya**. The format of the surety shall be in accordance with the sample form included in the tender documents and the tender surety shall be valid for **150 days** from the date of tender opening”.
 - *Clause 23.2 of Instruction to Tenderers:* “For the purposes of this clause, a substantially responsive tender is one which conforms to all terms and condition and specifications of the tender document without material deviation or reservation and has a valid Bank/Insurance guarantee”.
- b) The employer/procuring entity may seek further clarification/confirmation if necessary to confirm authenticity/compliance of any condition of the tender. Further, in case of a discrepancy between the amounts stated in the appendix to instruction to tenderers and the one stated in the advertisement or invitation letter, the bid security shall be taken as the amount in the advertisement/ letter of invitation.

The tenderers who do not satisfy any of the above mandatory requirements shall be considered Non-Responsive and their tenders will not be evaluated further.

STAGE 2: TECHNICAL EVALUATION

Stage II (A): ~ Technical Evaluation Stage

The following criteria will be used in the evaluation of all bids. The submission of the required documents will be used in the determination of the Completeness and Suitability of the Bid. Bids that do not contain all the information required will be declared non-responsive and shall not be evaluated further

Stage II -Technical Evaluation Criteria

No	Parameter	Max Points
1	Presentation of Bid Document	2
2	Key Personnel	15
3	Contract Completed in the last Five (5) Years	15
4	Schedule of on-going projects	10
5	Schedule of contractors equipment	5
6(a)	Audited Financial Report for the last 2 years (2018& 2019)	10
(b)	Evidence of Financial Resources	10
(c)	Name, Address and Telephone of Banks	3
7	Litigation History	5
8	Compliance to project completion time	10
9	Provision of detailed work program and Methodology	10
10	Firm Reputation	5
	TOTAL	100

A bidder scoring less than 70% shall not be considered technically responsive and therefore shall not be considered for financial evaluation.

The detailed scoring plan shall be as shown in table 1 below: ~

Item	Description	Raw Points Scored	Max Points
1	Presentation and Response :- This includes binding the documents, neat presentation, separation and arrangement of requested information and general response to all requirements		2
2	Key Personnel		
	Attach Evidence i.e. CVs and copies of <u>Academic Certificates</u> for staff. The site staff shall possess minimum levels set below: (Relevant field =.(Engineering, Architecture,quantity surveyor etc.)		15
a	Director of the firm		
i	• Holder of degree in relevant field -		4
ii	• Holder of diploma in relevant field -----		3
iii	• Holder of certificate in relevant field-----		2
iv	• Holder of trade test certificate in relevant field--		1
v	• No relevant certificate		0
b	2No. Degree/Diploma holders of key personnel in relevant technical field.(Engineering,Architectural,quantity surveyor etc.)		
i	With over 4 years in relevant field		4
ii	With over 3 years in relevant field		3
iii	With under 2 years in relevant field		2
c	2 No. certificate holder of key personnel in relevant field.		
i	With over 4 years in relevant field		4
ii	With over 3 years in relevant field		3
iii	With under 2 years irrelevant field		2
d	3 No. artisan (trade test certificate in relevant field)		
i	Artisan with over 3 years' experience in relevant field		3
ii	Artisan with under 2 years' experience in relevant field		2
3	Provide Evidence of at least TWO projects of Relevant Contracts completed in the last Five (5) years i.e. Copies of contract agreements/ Completion certificates, LPOs/ LSOs		15
a	Above Kshs. 5 Million (7.5 marks for each projects)		
b	Kshs 2 Million - (5 marks for each project)		
c	Kshs 1Million - (2 mark for each project)		
4	TWO on-going projects and their values Provide Evidence		10
5	Schedule of contractors equipment and transport (proof or evidence of ownership/Lease)		
	The Bidder must indicate the core equipment necessary for undertaking the project together with proof ownership or lease arrangements) Equipment's/Plant		5
6	Financial report		
	Audited financial report (last three (3) years)		10
a	Provide Audited Accounts for 2019 and 2020 - (5 Mks)		5

Item	Description	Raw Points Scored	Max Points
i	Average Annual Turn-over equal to or greater than the annual Expected Turnover of the project		5
ii	Average Annual Turn-over above 50% but below 100% of the cost of the project		4
iii	Average Annual Turn-over below 50% of the cost of the project		3
	<u>NB:- capacity to have a cash flow equivalent to 20% of the tender sum</u>		
b	Evidence of Financial Resources (cash in hand, lines of credit, over draft facility, etc.)		10
i	Has financial resources to finance the projected monthly cash flow* for three months		10
ii	Has financial resources equal to the projected monthly cash flow*		8
iii	Has financial resources less the projected monthly cash flow*		5
iv	Has not indicated sources of financial resources		0
c	Name, Address and Telephone of Banks		3
7	Litigation History		5
	Duly Filled - 5		5
	Not filled - 0		0
8	Compliance to Project completion time		10
i	12weeks and below		10
ii	Between 13-16 weeks		8
iii	Above 16 weeks		5
9	Provision of detailed work program and methodology		10
10	Firm Reputation:- Proof of Satisfactory Service:- Submit letters of reference from major clients, , (2.5marks per letter)		5
	TOTAL		100

NB: - A bidder scoring less than 70% shall not be considered technically responsive and therefore shall not be considered for financial evaluation.

STAGE III - FINANCIAL EVALUATION

The Tenderers who qualify under Technical Evaluation will have their Financial Bid evaluated and the lowest responsive bid submitted after analysis shall have their tender considered for award.

The evaluation shall be in **three stages**

- a) Determination of Arithmetic errors
- b) Comparison of Rates; and
- c) Consistency of the Rates.

A) Determination of Arithmetic Errors

Arithmetic Errors will be corrected by the Procuring Entity as follows:

- i) In the event of a discrepancy between the tender amount as stated in the form of Tender and the corrected tender figure in the Main summary of the Bills of Quantities, the amount as stated in the Form of Tender shall prevail. Pursuant to Section 82 of the Public Procurement and Asset Disposal Act 2015, the tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in any way by any person or entity;
- ii) Error correction factor shall be computed by expressing the difference between the amount and the corrected tender sum as a percentage of the corrected contract works (i.e. corrected tender sum less P.C; and Provisional Sums);
- iii) The Error correction factor shall be applied to all contract works (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuation of variations.

B) Comparison of rates

Items that are under priced or overpriced may indicate potential for non-delivery and front loading respectively. The committee shall promptly write to the tenderer asking for detailed breakdown of costs for any of the quoted items, relationship between those prices, proposed construction/installation methods and schedules.

The evaluation committee shall evaluate the responses and make an appropriate recommendation to the procuring entity giving necessary evidence. Such recommendations may include but not limited to:

- (i) Recommend no adverse action to the tenderer after a convincing response;
- (ii) Employer requiring that the amount of the performance bond be raised at the expense of the successful tenderer to a level sufficient to protect the employer against potential financial losses;
- (iii) Recommend non-award based on the response provided and the available demonstratable evidence that the scope, quality, completion timing, administration of works to be undertaken by the tenderer, would adversely be affected or the rights of the employer or the tenderers

obligations would be limited in a substantial way.

(iv)

C) Consistency of the Rates

The evaluation committee will compare the consistency of rates for similar items and note all inconsistencies of the rates for similar items.

STAGE 4 - RECOMMENDATION FOR AWARD

The bidder with the lowest evaluated bid shall be recommended for award.

STAGE V - DUE DILIGENCE

The Evaluation Committee may agree to conduct a post qualification evaluation to the **MOST RESPONSIVE CONTRACTOR** on projects done and also to ascertain the above information given.

PREAMBLES AND PRICING NOTES

PREAMBLES AND PRICING NOTES

A. GENERALLY

All work to be carried out in accordance with the Ministry of Public Works General Specifications for Building Works issued in 1976 or as qualified or amended below.

B. MANUFACTURERS' NAMES

Manufacturers' names and catalogue references are given for guidance to quality and standard only. Alternative manufacturer of equal quality will be accepted at the discretion of the Project Manager.

C.

All precast concrete blocks shall be manufactured by the methods and to the sizes specified in the Ministry of Public Works "Specification for Metric Sized Concrete Blocks for Building (1972)"

Walling of 100 mm thickness or under shall be reinforced with hoop iron every alternate course.

Prices for walling must allow for all costs in preparing, packing and sending sample blocks for testing as and when required by the Project Manager.

D. CARPENTRY

The grading rules for cypress shall be the same for podocarpus and all timber used for structural work shall be select (second grade).

All structural timber must conform to the minimum requirements for moisture content and preservative treatment and timber prices must allow for preparing, packing and sending samples for testing when required.

Prices must also include for all nails and fasteners.

A. JOINERY

Cypress for joinery shall be second grade in accordance with the latest grading rules of the Kenya Government.

Where Mahogany is specified, this refers to prime grade only. The Contractor may with the approval of the Project Manager; use either Msharagi or Mvuli in lieu of Mahogany but such approval will be given only in the case of shortages of the hardwoods specified.

Plugging shall be carried out by drilling walling or concrete with masonry drill and filling with propriety plugs of the correct sizes. Cutting with hammer and chisel will not be allowed.

Prices for joinery must include for pencil rounded arises, protection against damage, nails, screws, framing and bedding in cement mortar as required.

Sizes given for joinery items are nominal sizes and exact dimensions of doors, etc, must be ascertained on site.

B. IRONMONGERY

Ironmongery shall be specified in the Bills of Quantities or equal and approved.

Prices must include for removing and re-fixing during and after painting, labeling all keys, and for fixing to hardwood, softwood, concrete or blockwork.

Catalogue references given for ironmongery are for purposes of indicating quality and size of item(s). Should the Contractor wish to substitute the specified item(s) with others of equal manufacture, he must inform the Project Manager and obtain approval in writing.

C. STRUCTURAL STEELWORK

All structural steelwork shall comply with the Ministry of Public Works “Structural Steelwork Specification (1973) and shall be executed by an approved Sub-contractor.

A. PLASTERWORK AND OTHER FINISHES

All finishings shall be as described in the general specifications and in these Bills of Quantities.

Prices for pavings are to include for brushing concrete clean, wetting and coating with cement and sand grout 1:1.

Rates for glazed wall tiling are to include for a 12 mm cement and sand (1:4) backing screed unless otherwise specified in these Bills of Quantities.

B. GLAZING

Where polished plate glass is specified, this refers to general glazing quality.

Prices for glazing shall include for priming of rebates before placing putty.

The Contractor will be responsible for replacing any broken or scratched glass and handing over in perfect condition.

C. PAINTING

Painting shall be applied in accordance with the manufacturers’ instructions.

Prices for painting are to include for scaffolding, preparatory work, priming coats, protection of other works and for cleaning up on completion. Prices for painting on galvanized metal are to include for mordant solution as necessary.

PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	K.SHS
	<p><u>PARTICULAR PRELIMINARIES</u></p> <p>A PRICING ITEMS OF PRELIMINARIES Prices SHALL BE INSERTED against items of “preliminaries” in the tenderer’s priced Bills of Quantities. The contractor is advised to read and understand all preliminary items.</p> <p>B DESCRIPTION OF THE WORKS The works to be carried out under this contract involves; building of a ground floor administration and ablution blocks for Gituamba secondary school. The structures are constructed of reinforced concrete framed structure infilled with natural stone walls associated Electrical and mechanical works.</p> <p>C MEASUREMENTS In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT</p> <p>D LOCATION OF SITE The site of the proposed works is located in located at Gituamba secondary school in Kasarani constituency. The Contractor is advised to visit the site, to familiarize with the nature and position of the site. No claims arising from the Contractor’s failure to do so will be entertained.</p> <p>E SIGNING OF THE TENDER DOCUMENTS The bidder shall append his / her signature and / or company ‘s rubberstamp on each and every page of tender document.</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	K.SHS
<p>A</p>	<p>DEMOLITIONS AND ALTERATIONS</p> <p>The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contract</p> <p>The works shall be propped, strutted and supported as necessary before any alteration or demolition work commences. Prices shall include for all cleaning and preparatory work to structure and finishes and for making good to all finishes on completion whet</p> <p>Unless described as set aside for re-use all arising debris and surplus materials shall be carefully removed from building and carted away from site.</p> <p>The Contractor shall be entirely responsible for any breakage or damage which may occur to materials required for re-use during their removal unless it is certified by the Project Manager that such damage or breakage was inevitable as a result of the cond</p>	
<p>B</p>	<p>CLEARING AWAY</p> <p>The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean</p> <p>The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.</p>	
<p>C</p>	<p>CLAIMS</p> <p>It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and / or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such a claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claim shall be entertained upon the expiry of the said contract period.</p>	
	<p><i>Carried to collection</i></p>	

ITEM	DESCRIPTION	K.SHS
<p>A</p>	<p>PAYMENTS The tenderer's attention is drawn to the fact that the GOVERNMENT DOES NOT MAKE ADVANCE PAYMENTS but pays for work done and materials delivered to sit: all in accordance with Clause 23 of the Conditions of Contract Agreement. In order to facilitate this,</p>	
<p>B</p>	<p>PREVENTION OF ACCIDENT, DAMAGE OR LOSS The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. The Contractor is thus instructed to take reasonable care in the execution of the works as to prevent accident</p>	
<p>C</p>	<p>WORKING CONDITIONS The Contractor shall allow in his rates for any interference that he may encounter in the course of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed, as the fac</p>	
<p>D</p>	<p>SIGNBOARD AND LABELLING/BRANDING WITH NGCDF LOGO Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p>	
<p>E</p>	<p>LABOUR CAMPS The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.</p>	
<p>F</p>	<p>MATERIALS FROM DEMOLITIONS Any materials arising from demolitions and not re-used shall become the property of the client. The Contractor shall allow in his rates the cost of transporting the demolished materials as instructed.</p>	
	<p><i>Carried to collection</i></p>	<p>-</p>

ITEM	DESCRIPTION	K.SHS
<p>A</p> <p>PRICING RATES</p> <p>The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing, all to comply with the said Conditions of Contract.</p> <p>B</p> <p>SECURITY</p> <p>The Contractor shall allow for providing adequate security for the works and the workers in the course of execution of this contract. No claim will be entertained from the Contractor for not maintaining adequate security for both the works and workers.</p> <p>C</p> <p>URGENCY OF THE WORKS</p> <p>The Contractor is notified that these “ works are urgent” and should be completed within the period stated in these Particular Preliminaries.</p> <p>The Contractor shall allow in his rates for any costs he/ she deems that he/she may incur by having to complete these works within the stipulated contract period.</p> <p>D</p> <p>PAYMENT FOR MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.</p> <p>E</p> <p>EXISTING SERVICES</p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concern</p> <p>F</p> <p>BID SECURITY</p> <p>The Bidder shall furnish, as part of his bid, a security as specified in the tender advertisement.</p> <p>The bid security shall, at the bidder’s option, be in the form of a certified cheque, bank draft, standby letter of credit or guarantee from a reputable bank located in Kenya or foreign bank which has been determined by the bidder to be acceptable to the</p> <p>Guarantees issued as surety for the bid shall be valid for a period of One Hundred and Twenty (120) days from the date of Tender Opening.</p>		
	<i>Carried to collection</i>	-

ITEM	DESCRIPTION	K.SHS
<p>A</p> <p>PERFORMANCE BOND</p> <p>A bond of 5% of the contract sum will be required in accordance with clause 6.00 (as amended) on award of contract of the Instructions to Tenderer's. No payment on account for the works executed will be made to the contractor until he has submitted the P</p> <p>B</p> <p>TENDER DOCUMENTS</p> <p>Tender documents are as listed in Clause 2.1 of the Instruction to Tenderer's Page STD/8</p> <p>A</p> <p>DELIVERY OF TENDER</p> <p>Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents or as indicated in t</p> <p>Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the advertisement. Tenders delivered/received later than the above time will not be opened.</p> <p>C</p> <p>VALUE ADDED TAX</p> <p>The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1st September, 1993 which requires payment of VAT on all contracts. The Contractor should therefore include allowance in his rates and prices fo</p> <p>The tenderer is advised that in accordance with Government public notice No. 35 & 36 Dated 11th September 2003 operational from 1st October 2003, VAT will be deducted against the contract sum at the prevailing rate by the Employer and remitted directly to</p> <p>NB: VAT SHALL be added at the Grand summary page (GS/1)</p>		
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	K.SHS
	SPECIAL PRELIMINARIES	
A	Allow for Kenya Shillings Two Hundred Thousand (Kshs 200,000.00) only for Project Management Expenses	200,000.00
B	Attendance ,profit and taxes for the above item.....	
C	Allow for Kenya Shillings Fifty Thousand (Kshs 50,000.00) only for CDF logo branding to be expended by the Project Management	50,000.00
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	K.SHS
A	<p data-bbox="248 219 1185 293"><u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</u></p> <p data-bbox="248 338 1169 412">The following are the insertions to be made in the appendix to the Contract Agreement: -</p> <p data-bbox="248 454 1158 490">Period of Final Measurement 3 Months From Practical completion</p> <p data-bbox="248 533 1158 568">Defects Liability Period 6 Months from Practical completion</p> <p data-bbox="248 611 1142 647">Date for Possession To be agreed with the Project Manager</p> <p data-bbox="248 689 1126 725">Date for Completion 32 Weeks from date of Possession</p> <p data-bbox="248 768 1110 842">Liquidated and Ascertained At the rate of Kshs.. 5,000... per week or part thereof</p> <p data-bbox="248 842 1110 916">Prime cost sums for which The Contractor desires to tender</p> <p data-bbox="248 958 987 994">Period of Interim Certificates Monthly</p> <p data-bbox="248 1037 987 1072">Period of Honouring Certificates 30 days</p> <p data-bbox="248 1115 940 1151">Percentage of Certified Value Retained 10%</p> <p data-bbox="248 1193 956 1229">Limit of Retention Fund 10%</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	K.SHS
	<u>COLLECTION</u>	
	Brought forward from page PP/1	-
	Brought forward from page PP/2	-
	Brought forward from page PP/3	-
	Brought forward from page PP/4	-
	Brought forward from page PP/5	-
	Brought forward from page PP/6	
	Brought forward from page PP/7	
	TOTAL FOR PARTICULAR PRELIMINARIES CARRIED TO SUMMARY OF PRELIMINARIES	-

GENERAL PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT
<p>A.</p>	<p>GENERAL PRELIMINARIES</p> <p>PRICING ITEMS OF PRELIMINARIES AND PREAMBLES</p> <p>Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.</p> <p>The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.</p> <p>B. ABBREVIATIONS</p> <p>Throughout these Bills, units of measurement and terms are abbreviated and shall be all the requirements for the proper execution of the whole of the works in the Contract.</p> <p><i>C.M.</i> Shall mean cubic metre</p> <p><i>S.M.</i> Shall mean square metre</p> <p><i>L.M.</i> Shall mean linear metre</p> <p><i>MM</i> Shall mean Millimetre</p> <p><i>Kg.</i> Shall mean Kilogramme</p> <p><i>No.</i> Shall mean Number</p> <p><i>Prs.</i> Shall mean Pairs</p> <p><i>B.S.</i> - Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I., England.</p> <p><i>Ditto</i> - Shall mean the whole of the preceding description except as qualified in the description in which it occurs.</p> <p><i>m.s.</i> Shall mean measured separately.</p> <p><i>a.b.d</i> Shall mean as before described.</p>	
	<p><i>Carried to collection</i></p>	

ITEM	DESCRIPTION	AMOUNT
<p>A.</p>	<p>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</p> <p><i>Attendance</i> ; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:-</p> <p>Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of the same.</p> <p><i>Fix Only</i>:-</p> <p>"Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated),pay all demurrage charges, load and transport to site where necessary, unload, store,unpack, assemble as necessary, distribute to position, hoist and fix only.</p>	
<p>B.</p>	<p>EMPLOYER</p> <p>The "Employer" is The CONSTITUENCY DEVELOPMENT FUND MANAGER-KASARANI CONSTITUENCY.</p>	
<p>C.</p>	<p>PROJECT MANAGER</p> <p>The term "P.M." wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorised to represent him on behalf of the Government.</p>	
<p>D.</p>	<p>ARCHITECT</p> <p>The term "Architect" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Regional Works Officer , P.O. Box 42267, NAIROBI.</p>	
	<p><i>Carried to collection</i></p>	

ITEM	DESCRIPTION	AMOUNT
<p>A</p>	<p>QUANTITY SURVEYOR</p> <p>The term "Quantity Surveyor" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Regional Works Officer, P.O. Box 42267, NAIROBI.</p>	
<p>B</p>	<p>ELECTRICAL ENGINEER</p> <p>The term "Electrical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Regional Works Officer, P.O. Box 42267, NAIROBI.</p>	
<p>C</p>	<p>MECHANICAL ENGINEER</p> <p>The term "Mechanical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Regional Works Officer, P.O. Box 42267, NAIROBI.</p>	
<p>D</p>	<p>STRUCTURAL ENGINEER</p> <p>The term "Structural Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Regional Works officer, P.O. Box 42267, NAIROBI.</p>	
<p>E</p>	<p>FORM OF CONTRACT</p> <p>The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works(2000 Edition) included herein</p> <p>The Conditions of Contract are also included herein</p> <p><i>Conditions of Contract</i></p> <p>These are numbered from 1 to 37 as set out in pages <i>18 to 38</i> of these tender documents.</p> <p>Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of Quantities</p>	
	<p><i>Carried to collection</i></p>	

ITEM	DESCRIPTION	AMOUNT
<p>A</p>	<p>BOND.</p> <p>The Contractor shall find and submit on the Form of Tender an approved bank who will be willing to be bound to the Government in an amount equal to five per cent (5) of the Contract amount for the due performances of the Contract up to the date of completion as certified by the PROJECT MANAGER and who will, when and if called upon, sign a Bond to that effect on the relevant standard form included herein. (without the addition of any limitations) on the same day as the Contract Agreement is signed, by the Government, the Contractor shall furnish within seven days another Surety to the approval of the Government.</p>	
<p>B</p>	<p>PLANT, TOOLS AND VEHICLES</p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p>	
<p>C</p>	<p>TRANSPORT.</p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p>	
<p>D</p>	<p>MATERIALS AND WORKMANSHIP.</p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also ensure they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
<p>E</p>	<p>SIGN FOR MATERIALS SUPPLIED.</p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER</p>	
	<p><i>Carried to collection</i></p>	<p>-</p>

ITEM	DESCRIPTION	AMOUNT
<p>A</p>	<p>STORAGE OF MATERIALS</p> <p>The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
<p>B</p>	<p>SAMPLES</p> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the state department for Public Works.</p> <p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p>	
<p>C</p>	<p>GOVERNMENT ACTS REGARDING WORKPEOPLE ETC.</p> <p>Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople.</p> <p>The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps , passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p>	
	<p><i>Carried to collection</i></p>	<p>-</p>

ITEM	DESCRIPTION	AMOUNT
<p>A</p>	<p>SECURITY OF WORKS ETC.</p> <p>The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.</p>	
<p>B</p>	<p>PUBLIC AND PRIVATE ROADS.</p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER</p>	
<p>C</p>	<p>EXISTING PROPERTY.</p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER</p>	
<p>D</p>	<p>VISIT SITE AND EXAMINE DRAWINGS.</p> <p>The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p>	
<p>E</p>	<p>ACCESS TO SITE AND TEMPORARY ROADS.</p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER The Contractor should also allow for relocating existing fence (approx. 30 metres long).</p>	
	<p><i>Carried to collection</i></p>	

ITEM	DESCRIPTION	AMOUNT
A	<p>AREA TO BE OCCUPIED BY THE CONTRACTOR</p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER</p>	
B	<p>OFFICE ETC. FOR THE PROJECT MANAGER</p> <p>The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the site office of the standard type, complete with furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape.</p>	N/A
C	<p>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER . The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub--contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p>	
D	<p>SANITATION OF THE WORKS</p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER</p>	
	<i>Carried to collection</i>	-

ITEM	DESCRIPTION	AMOUNT
A	<p>SUPERVISION AND WORKING HOURS</p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.</p>	
B	<p>PROVISIONAL SUMS.</p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement. Such sums are net and no addition shall be made to them for</p>	
C	<p>PRIME COST (OR P.C.) SUMS.</p> <p>The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement. Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p>	
D	<p>PROGRESS CHART.</p> <p>The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p>	
C.	<p>ADJUSTMENT OF P.C. SUMS.</p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance"</p>	
	<p><i>Carried to collection</i></p>	<p>-</p>

ITEM	DESCRIPTION	AMOUNT
<p>A</p>	<p>ADJUSTMENT OF P.C. SUMS. Ctd.....</p> <p>Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p>	
<p>B</p>	<p>ADJUSTMENT OF PROVISIONAL SUMS.</p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued as described for Variations, but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p>	
<p>C</p>	<p>NOMINATED SUB-CONTRACTORS</p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance".</p>	
<p>D</p>	<p>DIRECT CONTRACTS</p> <p>Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p>	
	<p><i>Carried to collection</i></p>	

ITEM	DESCRIPTION	AMOUNT
<p>A</p> <p>ATTENDANCE UPON OTHER TRADESMEN, ETC.</p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p> <p>B</p> <p>INSURANCE</p> <p>The Contractor shall insure as required in Clause 30 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.</p> <p>C</p> <p>PROVISIONAL WORK</p> <p>All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p> <p>D</p> <p>ALTERATIONS TO BILLS, PRICING, ETC.</p> <p>Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p>		
	<i>Carried to collection</i>	-

ITEM	DESCRIPTION	AMOUNT
<p>A</p>	<p>BLASTING OPERATIONS</p> <p>Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p>	
<p>B</p>	<p>MATERIALS ARISING FROM EXCAVATIONS</p> <p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p>	
<p>C</p>	<p>PROTECTION OF THE WORKS.</p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.</p>	
<p>D</p>	<p>REMOVAL OF RUBBISH ETC.</p> <p>Removal of rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p>	
<p>E</p>	<p>WORKS TO BE DELIVERED UP CLEAN</p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER</p>	
	<p><i>Carried to collection</i></p>	<p>-</p>

ITEM	DESCRIPTION	AMOUNT
<p>A.</p>	<p>GENERAL SPECIFICATION.</p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads, Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>	
<p>B.</p>	<p>TRAINING LEVY</p> <p>The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs. 50,000.00 in value.</p>	
<p>C.</p>	<p>MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.</p>	
<p>D.</p>	<p>HOARDING</p> <p>The Contractor shall enclose all the site under construction with a hoarding 2400 mm high consisting of iron sheets gauge 30 on 100 x 50 mm 2nd grade treated sawn cypress timber posts firmly secured at 1800 mm centres with two 75 x 50 mm 2nd grade treated sawn cypress timber rails. The Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.</p>	
<p>E.</p>	<p>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</p> <p>The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
	<p><i>Carried to collection</i></p>	<p>-</p>

ITEM	DESCRIPTION	AMOUNT
	<u>COLLECTION</u>	
	Brought Forward From Page GP/ 1	
	Brought Forward From Page GP/ 2	
	Brought Forward From Page GP/ 3	
	Brought Forward From Page GP/ 4	-
	Brought Forward From Page GP/ 5	-
	Brought Forward From Page GP/ 6	-
	Brought Forward From Page GP/ 7	-
	Brought Forward From Page GP/ 8	-
	Brought Forward From Page GP/ 9	-
	Brought Forward From Page GP/ 10	-
	Brought Forward From Page GP/ 11	-
	Brought Forward From Page GP/ 12	-
	TOTAL FOR GENERAL PRELIMINARIES CARRIED TO SUMMARY OF PRELIMINARIES	-

NEW BLOCK

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO.1				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear the site off grass, shrubs and all vegetation; cart away as directed	163	sm		
	<u>Excavations and earth works</u>				
B	Mass excavation not exceeding 1.20 metres deep starting from ground Level to approval	196	cm		
C	Excavate for strip foundation starting from reduced level not exceeding 1.50 meters deep and cart away as directed	8	cm		
D	Ditto for column bases starting from reduced level not exceeding 1.50 meters deep.	17	cm		
E	Extra over excavation for excavating in rock. For any class type	0	cm		
	<u>Disposal</u>				
F	Return, fill-in and rum selected excavated material around the foundation	200	cm		
G	Remove and cart away from site surplus excavated material as directed	21	cm		
	<u>Diposal of water</u>				
H	Allow for Keeping all excavations free from all water including spring or running water by pumping ,bailing or other approved means		Item		
	<u>Planking and strutting</u>				
I	Allow for Plunking and Strutting to sides of all excavations		Item		
	<i>Carried to collection</i>				

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u> <u>CONT'D</u>				
	<u>Hard core Filling as described.</u>				
A	Imported hardcore filling including depositing levelling and compacting in layers of 150mm maximum thickness n.e 1.5 mm.	203	cm		-
B	50mm thick Quarry dust blinding to surfaces of hardcore :rolled smooth to receive polythene	135	sm		
	<u>Antitermite treatment</u>				
C	PREMISE 200CC' or other equal and approved insecticide with a ten-years guarantee to surfaces of fill and tops of foundations	135	sm		
	<u>Damp proofing</u>				
D	1000 gauge polythene or other equal and approved plastic sheet damp proof memembrane laid over blinding (measured nett- allo for laps)	135	sm		
	<u>In-situ concrete</u>				
	<u>Mass concrete (1.3.6/38-38 mm aggregate)</u>				
E	50mm thick mass concrete class Q (1:3:6) to bottoms of foundations	40	sm		
F	Ditto to column bases	39	sm		
	<u>Vibrated reinforced concrete ; 1:2:4/ 20-20mm);as decribed in</u>				
G	Foundations in trenches irrespective of thickness	8	cm		
H	Collumn bases	17	cm		
J	Collumn	2	cm		
K	150mm thick bed	135	sm		-
	<u>Reinforcement</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks of assorted diameter</u>				
L	Assorted reinforcement bars of all sizes	1080	kg		
	<i>Carried to collection</i>				

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Mesh reinforcement ; B.S. 4483</u>				
A	Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square meter (measured net - no allowance made for laps(including bends, tying wire and distance blocks	135	sm		-
	<u>Sawn formwork to insitu concrete as described:-</u>				
B	To sides; vertical or battering of strip foundations.	27	sm		
C	To sides of collumn bases	39	sm		
D	To sides of foundation collumn	22	sm	-	
E	To sides of Ground beam	0	sm	-	
F	Edges of ground floor slab; 75 to 150mm wide	51	lm		
	<u>Foundation Walling</u>				
G	200mm thick approved local natural stone; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar and reinforced with and including 20swg x 25 mm wid hoopiron in every alternate course	101	sm		
	<u>Insitu finishings</u>				
H	14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external	15	sm		
	<u>Prepare and apply three coats black bituminous paint on:-</u>				
J	Rendered plinths, externally.	15	sm		
<i>Carried to collection</i>					

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
 BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	COLLECTION From page BW/1 From pageBW /2 From page BW/3				
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 2</u>				
	<u>FRAME</u>				
	<u>Insitu concrete; reinforced; class 20 / (20mm); vibrated</u>				
A	Beams	8	cm		
B	Columns	4	cm		
B	Stair cases	0	cm	-	
C	<u>150mm thick floor slab</u>	135	sm	-	
	<u>Reinforcement</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks of assorted diameter</u>				
E	8mm- 25 mm diameter assorted	3550	kg		
	<i>Carried to collection</i>				

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Sawn formwork to insitu concrete as</u>				
A	To sides and soffits of beams.	106	sm		
B	Vertical sides of columns	43	sm		
C	To soffits of Suspended Slab	135	sm	-	
D	Edges of suspended slab, 150 to 225mm wide	51	lm		
E	Soffites of landings	0	SM	0	
F	edges of landing 75 -150mm high	0	LM		
G	Sloping soffites of staircases	0	SM	0	
H	Ditto risers 75-150mm high	0	LM		
	<u>To Collection</u>				
	From page BW /5				
	From Above				
TOTAL FOR FRAME CARRIED TO SUMMARY					

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u>				
	<u>Natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20 swg x 25 mm wide hoopiron; external</u>				
A	200 mm thick reinforced in every third course	91	sm		
B	Extra over horizontal pointing in 10mm thick rod in cement and sand (1:3) mortar to external wall	91	sm		
	<u>Horizontal Damp Proof Course:one layer of 3-ply bituminous felt or other equal approved (measured nett-allow for laps)</u>				
C	200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	43	lm		
	<u>Natural stone walling; machine-dressed; bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20 swg x 25 mm wide hoopiron; internal</u>				
D	200 mm thick reinforced in every third course	95	sm		
E	150mm thick reinforced in every third course <u>Horizontal Damp Proof Course:one layer of 3-ply bituminous felt or other equal approved (measured nett-allow for laps)</u>	0	sm		
F	200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	35	lm		
F	150mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	0	lm		
TOTAL FOR EXTERNAL AND INTERNAL WALLING CARRIED TO SUMMARY					

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4</u>				
	<u>DOORS</u>				
	<u>Standard section purpose made heavy duty glazed steel casement door in 200 x 250mm high panes prepared for glazing (m.s) complete with all requisite frame, sub-frames, mullions, transomes, fixing lugs cast on, 1 1/2 pairs heavy duty pin type hinges associated casement door lock and handles, 2 x 200mm wide x 16 gauge bottom plate, including one coat red oxide primer before fixing and mastic sealant all around as described in:</u>				
A	Door Size 1200 x 2700mm high overall double leaf in two equal leaves	2	NO		
	<u>Flush Doors</u>				
	<u>45mm thick solid core flush doors overall size 820 x 2060 mm high faced both sides with internal quality "Mahogany" skin Veneer and hardwood lipped all edges to approval.</u>				
B	Door size 820x2700mm high	5	NO		
	Door size 820x2100mm high	0	NO		
	Door size 1200x2700mm high Double leaf.	1	NO		
	<u>Wrot Cypress or other equal and approved :-</u>				
C	150mm x 50mm Frame with two labours plugged	36	LM		
D	45 x 38mm architrave	36	LM		
E	25mm diameter quadrant	36	LM		
	Carried to NEXT PAGE				

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>DOORS - (CONTINUED)</u>				
A	<u>4 mm thick clear quality sheet fixed with putty on panes over 0.1 mm² but n.e 0.5 mm²</u>	7	sm		
	<u>Supply and fix the following ironmongery with screws to match.</u>				
B	2 Lever mortice lock and set furniture Ref.Union	5	no		
C	3 lever mortice lock with set lever aluminium handle furniture	3	no		
D	100mm Brass butts hinges	33	prs		
	<u>painting and decoration.</u>				
	<u>Knot,prime and stop ;prepare and apply one coat of stain and two coats of clear varnish.</u>				
E	General surfaces of timber doors	18	sm		
F	Surfaces between 200mm to 300mm girth	36	lm		
G	Ditto not exceeding 100mm girth	36	lm		
H	General surfaces of Metal door	13	sm		
<i>TOTAL FOR DOORS CARRIED TO SUMMARY</i>					

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>FINISHES</u>				
	<u>Wall finishes</u>				
	<u>Internal wall</u>				
A	<u>15 mm thick render mix 1:3 to receive wall ceramic tiles size 150×150× 6mm thick</u>	13	sm		
B	200x250× 6mm thick ceramic wall tiles	13	sm		
	<u>Plaster; 12mm thick 2 No. coatwork, 9mm first coat of cement sand (1:6); 3mm second coat of cement and lime putty (1:10); steel trowelled</u>				
C	Walls; beams; columns; internal	331	sm		
	<u>Painting and decorations</u>				
	<u>Prepare and apply three coats of first quality silk vinyl paint to: -</u>				
D	Plastered surfaces	331	sm		
	<u>External Wall</u>				
	<u>Render; 18mm thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or blockwork base generally to: -</u>				
E	Beams; Columns; external	54	sm		
	<u>Painting and decorations</u>				
	<u>Prepare and apply three coats of first quality plastic emulsion paint to: -</u>				
F	Beams; Columns; external	54	sm		
<i>Carried to Collection for External & Internal Wall finishes</i>					

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Floor finishes</u>				
	<u>Screed; cement and sand (1:3)</u>				
A	32mm Thick cement and sand (1:3) screed paving including backing, to receive floor tiles.	135	sm		
B	300x300x8mm thick Granito floor tiles.	135	sm		
C	Skirtings; 100mm wide with rounded junction with wall finish and coved junction with floor finish	110	Lm		
	<u>Ceiling finishes</u>				
	<u>12mm (minimum) two-coat plaster; 9mm first coat of cement sand (1:6), 3mm second coat of cement and lime putty (1:10); steel trowelled to: -</u>				
D	Concrete soffits	135	sm		
	<u>Painting and Decorations</u>				
	<u>On steel trowelled plastered surfaces</u>				
	<u>Prepare and apply one undercoat and three coats of first quality emulsion paint to the following surfaces</u>				
D	Concrete soffits	135	sm		
<i>Carried to Collection</i>					
	COLLECTION				
	From page BW/11				
	From page BW/12				
TOTAL FOR FINISHES CARRIED TO SUMMARY					

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
Item No.	Description				
	<u>Rainwater goods</u>				
	<u>Heavy duty PVC pipe and fittings with all necessary connector joints fitted to approval:</u>				
A	100 mm diameter rainwater downpipe with holders at 1200mm centers in duct	15	lm		
B	Extra over 100 mm diameter down pipe outlet	6	no		
C	Extra over ditto for shoe	6	no		
D	Extra over ditto for swanneck	6	no		
E	Extra over gutter for 90 ⁰ bends	6	no		
	<i>Carried to Collection below</i>				-
	<u>COLLECTION</u>				
	Total brought forward from above				-
	TOTAL FOR ROOF CARRIED TO SUMMARY				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u> <u>ELEMENT</u>				
1	SUBSTRUCRE WORKS	4			
2	FRAME	BW/6			
3	WALLING	BW/7			
4	DOORS	BW/9			
5	WINDOWS	BW/10			
6	FINISHES	BW/13			
7	ROOFWORK	BW/15			
	TOTAL CLASSROOM BLOCK BUILDERS WORKS TO GRAND SUMMARY				

ABLUTION BLOCK

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.1</u> <u>SUBSTRUCTURES</u> <u>(ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed.	60	SM		
B	Excavate to remove top soil and load, wheel and deposit where directed, average depth 200mm	58	SM		
C	Excavate for strip foundations from the reduced level not exceeding 1.50m deep.	29	CM		-
D	Excavate for foundation columns from the reduced level not exceeding 1.50m deep.	31	CM		-
	<u>Disposal</u>				
E	Load and Cart away surplus excavated materials from site	11	CM		-
F	Return fill and ram selected excavated materials around foundation in layers not exceeding 150mm thick.	49	CM		-
	<u>Imported filling</u>				
G	Hand packed crushed stone hardcore well rolled and consolidated (300mm thick)	58	SM		-
H	50mm thick approved murrum blinding to surface of hardcore finished to receive concrete slab.	58	SM		-
	<u>Damp proof membrane</u>				
I	500 gauge polythene sheeting d.p.m laid on treated blinded hardcore with 200mm side and end laps.	58	SM		-
	Carried to collection				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>Anti-termite treatment</u> Treat surface of blinded hardcore with 'Aldrex 48' or other equal and approved insecticide treatment with atleast a minimum guarantee of 10 years in accordance with the manufacturer's printed instructions	58	SM		-
B	<u>Concrete works</u> <u>Mass concrete class Q/40mm(1:3:6)-40mm aggregate as described in:-</u> 150mm thick floor slab.	58	SM		-
C	<u>Plain;(1:4:8 - 12 mm Aggregate) in :-</u> 50 mm thick blinding to strip foundation	41	SM		-
D	<u>Vibrated reinforced concrete :class 20/(1:2:4)-20mm aggregate) in:-</u> Strip Footings	3	CM		-
E	Column bases	9	CM		-
F	Foundation Columns	1	CM		-
G	<u>Steel reinforcement</u> <u>Supply and fix high tensile square twisted bars to B.S 4661 reinforcement bars including bending hooks tying</u> Assorted diameter (8-16)	500	Kg		-
H	<u>Fabric; B.S. 4483</u> Reference A142 mesh 200×200 mm,weight 2.22kgs per square meter (measured net-no allowance made for laps)including bends tying wire and distance blocks	58	SM		-
I	<u>Sawn formwork to insitu concrete as described</u> To sides of strip foundation	16	SM		-
J	To sides of column bases	17	SM		-
K	To vertical sides of columns	12	SM		-
L	To edge of ground floor slab;150mm girth	31	LM		-
	Carried to collection below				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p>walling 200mm thick masonry walling in cement and sand (1:3) mortar reinforced with and including 20swg x 25mm wide hoop iron in every alternate course.</p>	48	SM		-
B	<p>Plinth finishes 15mm thick cement and sand (1:3) rendering trowelled smooth to plinth walls</p>	6	SM		-
C	Prepare and apply two coats of black bituminous paint to plinth areas	6	SM		-
	Carried to collection below				-
	COLLECTION				
	Brought down from page 1				-
	Brought down from page2				-
	Brought down from page above				-
	Total for Substructure Carried to summary				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 2</u> <u>REINFORCED CONCRETE</u> <u>SUPERSTRUCTURE</u> <u>Vibrated reinforced concrete grade 20/20 (1:2:4)</u> <u>in:</u>				
A	Beams	5	CM		-
B	Columns	2	CM		-
C	150mm thick RC slab.	58	SM		-
	<u>Sawn formwork to:</u>				
D	Sides and soffits of ring beam	50	SM		-
E	Sides of columns	29	SM		-
F	Soffits of slab	50	SM		-
G	Edge of slab	22	LM		-
	<u>Steel reinforcement as described including cutting to length, bending, hoisting and fixing including all necessary tying wires and spacing blocks (all provisional)</u>				
H	Assorted diameter (8-16)	1,700	KG		-
	TOTAL FOR RC SUPER-STRUCTURES CARRIED TO SUMMARY				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
A	200mm wide approved quality 3-ply bituminous felt damp proof course under walls	35	LM		-
	<u>Smooth chisel dressed natural stone walling in cement and sand (1:4) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course</u>				
B	200mm Thick walling externally	62	SM		-
	<u>Medium chisel dressed natural stone walling in cement and sand (1:4) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course</u>				
C	200mm Thick walling internally	17	SM		-
D	100mm Thick walling internally	36	SM		-
	<u>Permanent ventilation</u>				
E	Pair of permanent ventilation size 225 x 225 x 25mm thick fixed with and including mosquito wire gauze	0	NO		-
F	Leave or form hole in 200mm thick wall size 225 x 225mm wide	0	NO		-
G	Eave filling to 200mm thick wall extreme height 300mm	0	LM		-
	TOTAL FOR WALLING CARRIED TO SUMMARY				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4:</u> <u>DOORS</u>				
	<u>Standard section purpose made heavy duty glazed steel casement door in 200 x 250mm high panes prepared for glazing (m.s) complete with all requisite frame, sub-frames, mullions, transomes, fixing lugs cast on, 1 1/2 pairs heavy duty pin type hinges associated casement door lock and handles, 2 x 200mm wide x 16 gauge bottom plate, including one coat red oxide primer before fixing and mastic sealant all around as described in:</u>				
A	Door Size 1000 x 2500mm high overall single leaf <u>Flush doors to BS 459</u>	3	No		-
B	45 mm semi-solid core flush door faced both sides with mahogany skin veneered and hardwood lipped all round overall, size 900x 2100mm . <u>Doors, frames and finishing in wrot cypress</u>	10	No.		-
C	Frame to detail size, 150x50mm , with two labours	51	LM		-
D	Architrave to detail size, 50x25mm	51	LM		-
E	Quadrant bead, diameter 25mm	51	LM		-
	<u>supply and fix the following iron mongery with matching screws to timber doors as per "UNION" unless otherwise stated</u>				
F	125mm brass butt hinges	20	Prs		-
G	Three lever rebated mortice lock complete with furniture	3	No.		-
H	Two lever mortice lock with polished brass lever furniture	10	NO		-
J	Rubber door stop	3	No.		-
	<u>Painting</u> <u>Knot, prime and stop and prepare and apply one undercoat and two finishing coats of oil paint on:-</u>				
K	General surfaces of wood	40	SM		-
L	Metal doors	15	SM		-
	carried to collection				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Prime only back of frame with aluminium or equal and approved primer before fixing as described to:-</u>				
A	150x50mm surfaces not exceeding 100-200mm girth	51	LM		-
B	50x25mm surfaces not exceeding 100mm girth	51	LM		-
C	Quadrant bead 25mm diameter	51	LM		-
	Carried to collection below				-
	<u>Collection</u>				
	Brought forward from page 6				-
	Brought forward from above				-
	Total of Element 04 Carried to Summary				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>WINDOWS</u>				
	<u>Supply and fix the following standard mild steel casement windows comprising of standard Z- section framing; complete with aluminium fasteners, stays and all other necessary iron mongery; including burglar proofing and 75x3mm thick perforated permanent vent and hood at the top infilled with mosquito gauze wire and all primed in one coat red oxide primer before delivery to the site</u>				
A	Window size 1200 x 1500mm high	3	NO		-
B	Window size 400 x 900mm high	2	NO		-
C	Window size 1000 x 400mm high	2	NO		-
	<u>Glazing</u>				
	<u>4mm Thick clear sheet glass in metal putty in:-</u>				
D	Panes exceeding 0.1m square metres but not exceeding 0.5m square metres	3	SM		-
	<u>Approved obscure glass</u>				
E	4mm glass and glazing to metal with putty in panes not exceeding 0.1 square meter	4	SM		-
	<u>Sills</u>				
F	125x20mm Thick clay tile sill with one curved edge including bedding and pointing in cement and sand (1:3) mortar	7	LM		-
G	Make splay fair cut 50mm girth on natural stone wall to receive clay tile	7	LM		-
	<u>Window boards</u>				
H	145x25mm Thick wrot mahogany window board screwed to timber	0	LM		-
I	20x10mm Impregnated sawn cypress timber ground plugged	0	LM		-
TOTAL FOR WINDOWS CARRIED TO SUMMARY					-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>EXTERNAL FINISHINGS</u>				
	<u>Walls</u>				
A	Extra over walling for smooth chisel dressing with flush pointed vertical joints and recessed horizontal joints <u>15mm thick gauged lime (1:2:9) plaster to :</u>	62	SM		-
B	Ring Beam	19	SM		-
C	Columns	16	SM		-
	<u>Prepare and apply one undercoat and three finishing coats of exterior Ruff and Tuff paste to:</u>				
D	Plastered surfaces of ring beam	19	SM		-
E	Plastered surfaces of columns	16	SM		-
	TOTAL FOR EXTERNAL FINISHES CARRIED TO SUMMARY				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u> <u>INTERNAL FINISHES</u>				
	<u>FLOORS</u>				
A	<u>Cement and sand (1:4) screeding smooth trowelled</u> 32mm thick screed prepared to receive terrazo (m/s)	50	SM		
B	<u>20mm thick, 2 No. coat work terrazzo; approved colour; white cement and marble chippings (1:2); machine polished; to concrete or blockwork base generally to: -</u> To floors	50	SM		
C	100 x 8mm skirting	65	LM		
D	<u>Wall tiles</u> 300x300x8mm as manufactured by SAJ CERAMICS LTD. or other approved glazed white tiles bedded a in cement and sand 1:1 and pointed in whitecement grouting	136	SM		0.00
	<u>WALLS</u>				
E	<u>Cement and sand (1:4) Plaster</u> 15 mm thick two coat cement sand (1:4) plaster trowelled smooth and comprising of 12mm backing and 3mm finish coat	171	SM		-
F	<u>Prepare and apply three coats first grade plastic emulsion paint to:</u> Plastered walls	35	SM		-
G	<u>Cement and sand (1:3) plaster;</u> 25mm thick cement and sand Plaster to soffits of the suspended slab, finished with a steel float.	63	SM		
H	<u>Prepare and apply one undercoat and three coats of first quality emulsion paint to the following surfaces</u> Surface of suspended slabs	63	SM		
	TOTAL FOR INTERNAL FINISHES CARRIED TO SUMMARY				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SECTION SUMMARY</u>				
A	SUBSTRUCTURES.....	BWAB/3			-
B	SUPERSTRUCTURES.....	BWAB/4			-
C	WALLING.....	BWAB/5			-
E	DOORS.....	BWAB/7			-
F	WINDOWS.....	BWAB/8			-
G	EXTERNAL FINISHES.....	BWAB/9			-
H	INTERNAL FINISHES.....	BWAB/10			-
	TOTALS FOR ABLUTION BUILDERS WORK TO GRAND SUMMARY PAGE				-

ELECTRICAL WORK

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK
AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

SCHEDULE 1:- ELECTRICAL INSTALLATION BILL OF QUANTITIES

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	Supply,install,test and commission the following:				
1.00	GROUND FLOOR				
	LIGHTING POINTS				
1.01	Lighting points wired with 1.5 mm ² SC/PVC cables in 20mm diameter heavy gauge PVC conduits concealed in the fabric of the building including all accessories but excluding switches and lighting fittings for:				
	a) One way switching.	12	No		-
	b) Two way switching	7	No		-
2.00	SWITCHES				
2.01	5A plastic decorative switches as follows:-				
	a) one gang one way	6	No		-
	b) two gang one way	0	No		-
	c) one gang two way	1	No		-
	d) two gang two way	2	No		-
3.00	LIGHTING FITTINGS				
3.01	Supply and installation of lighting fittings and lamps of appropriate wattage and colour rendering as:				
	a)2 X 1200, 36W Surface mounted fluorescent batten cw mirrorbrite reflective louvrers	8	NO		-
	b)LED panel lights 12w	8	NO		-
	c)1 X 1200, 36W Surface mounted single, bare batten fluorescent fitting .	0	NO		-
	d)Type B-spherical screwneck with 6" opal glass sphere cw 60W BC GLS bulb as Micromark Astral or approved equivalent	1	NO		-
	e) 100w metal bulkhead fitting fitted with energy saving bulbs .	2	no		-
4.00	SOCKET OUTLETS				
4.01	Socket outlet points wired in 3x2.5 mm ² SC/ PVC copper cables drawn in 25mm diameter HG PVC conduits concealed in the fabric of the building as follows				
	a)Single outlet	0	NO		-
	b)Twin outlet	16	NO		-
	Sub-Total carried forward to page H2				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK
AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

H1

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	Sub-Total carried forward from page H1				-
4.02	13A socket outlet plates as crabtree or approved equivalent, flush mounted				
	a) Twin switched	16	NO		-
4.03	a)20A, DP power point wired in 3 x 2.5mm ² SC/PVC insulated copper conductor cables all drawn in 25mm diameter Heavy Gauge PVC conduit concealed in the fabric of the Building including all accessories but excluding the socket outlet plate	1	No		-
	b) 20A switched DP switch with neon light	1	No		-
4.04	Lay 32 mm diameter PVC ducts complete with draw wire drawn concealed in the fabric of the building from the draw in box and link to the Meter box in Ground floor.	10	M		-
5.00	POWER DISTRIBUTION				
5.01	a) 4-way TPN Distribution board with 100A integral isolator as crabtree or approved equivalent	0	No		-
5.01	a) 10-way SPN consumer unit with 100A integral isolator as crabtree or approved equivalent	1	No		-
5.02	Miniature circuit breakers for 7.10 (a & b) above				
	a) 10A	5	NO		-
	b) 20A	0	NO		-
	c) 30A	1	NO		-
	f) Blanking plates for 7.10 above	4	NO		-
5.03	Meter Board to accommodate 1No Three phase meter, 1no, 100A 4pole MCB and KP cut outs It should be made of 16 gauge mild steel panels, spray painted and semi-recessed in the wall to engineers approval	0	NO		-
5.04	Submain wiring from the Meter Box /DB to consumer unit in 2 x 16mm ² and 1 x 10mm ² ECC PVC insulated copper conductor cables all drawn in 32mm dia PVC Heavy gauge conduit	15	M		-
	<u>EARTHING</u>				
6.04	a) 300 x 300 x 300mm concrete earthing chamber complete with concrete cover Head for Earth rod	1	No		-
	b) Earth rod (16mm dia 1500mm long) with Earth rod cable clamp and Driving Head for Earth rod	1	No		-
	c) Earth lead 10mm ² SC/PVC copper cable drawn in 20mm dia. HG PVC conduit concealed in the fabric of the building from the consumer unit to the earth pit	1	M		-
A	Sub-Total carried forward price summary page.				-

H2

SCHEDULE 1:- ELECTRICAL INSTALLATION BILL OF QUANTITIES

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	Supply,install,test and commission the following:				
1.00	ABLUTION BLOCK				
	LIGHTING POINTS				
1.01	Lighting points wired with 1.5 mm ² SC/PVC cables in 20mm diameter heavy gauge PVC conduits concealed in the fabric of the building including all accessories but excluding switches and lighting fittings for:				
	a) One way switching.	11	No		-
	b) Two way switching	2	No		-
2.00	SWITCHES				
2.01	5A plastic decoreative switches as follows:-				
	a) one gang one way	3	No		-
	b) two gang one way	0	No		-
	c) one gang two way	0	No		-
	d) two gang two way	2	No		-
3.00	LIGHTING FITTINGS				
3.01	Supply and installation of lighting fittings and lamps of appropriate wattage and colour rendering as:				
	a)2 X 1200, 36W Surface mounted fluorescent batten cw mirrorbrite reflective lourvrers	0	NO		-
	b)LED panel lights 12w	0	NO		-
	c)1 X 1200, 36W Surface mounted single, bare batten flourescent fitting .	10	NO		-
	d)Type B-spherical screwneck with 6" opal glass sphere cw 60W BC GLS bulb as Micromark Astral or approved equivalent	0	NO		-
	e) 100w metal bulkhead fitting fitted with energy saving bulbs .	3	no		-
4.00	SOCKET OUTLETS				
4.01	Socket outlet points wired in 3x2.5 mm ² SC/ PVC copper cables drawn in 25mm diameter HG PVC conduits concealed in the fabric of the building as follows				
	a)Single outlet	0	NO		-
	b)Twin outlet	0	NO		-
	Sub-Total carried forward to page H4				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK
AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

H3

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	Sub-Total carried forward from page H3				-
4.02	13A socket outlet plates as crabtree or approved equivalent, flush mounted				
	a) Twin switched	0	NO		-
7.01	a)20A, DP power point wired in 3 x 2.5mm ² SC/PVC insulated copper conductor cables all drawn in 25mm diameter Heavy Gauge PVC conduit concealed in the fabric of the Building including all accessories but excluding the socket outlet plate	3	No		-
	b) 20A switched DP switch with neon light	3	No		-
4.04	Lay 32 mm diameter PVC ducts complete with draw wire drawn concealed in the fabric of the building from the draw in box and link to the Meter box in Ground floor.	10	M		-
5.00	POWER DISTRIBUTION				
5.01	a) 10-way SPN consumer unit with 100A integral isolator as crabtree or approved equivalent	1	No		-
5.02	Miniature circuit breakers for above				
	a) 10A	2	NO		-
	b) 20A	3	NO		-
	c) 30A	1	NO		-
	f) Blanking plates for 7.10 above	4	NO		-
5.04	Submain wiring from the Meter Box /DB to consumer unit in 2 x 16mm ² and 1 x 10mm ² ECC PVC insulated copper conductor cables all drawn in 32mm dia PVC Heavy gauge conduit	25	M		-
A	Sub-Total carried forward price summary page.				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK
AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

H4

h) SUMMARY PAGE FOR ELECTRICAL INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	COST	TOTAL
1	Sub-total brought forward from page (H2) ADMIN BLOCK	1		-
2	Sub-total brought forward from page (H4) ABLUTION BLOCK	1		-
3	contigencies			-
4	Provision for Kenya power line connection			-
H	Total for Electrical Installation Works carried to grand summary page			-

H5

MECHANICAL WORK

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

MECHANICAL WORKS BILLS OF QUANTITIES

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>INTERNAL PLUMBING</u>				
	<i>Supply and install in INDO Green PPR pipes</i>				
A	20mm dia pipe chased in walls/floors	10	Lm		-
B	25mm -ditto-	40	Lm		-
C	32mm -ditto-	10	Lm		-
	<u>Extra-over PPR pipework for the following:-</u>				
	<u>Bends/elbows</u>				
D	20mm dia bend	17	No		-
E	25mm -ditto-	12	No		-
G	32 x 25mm female elbow	2	No		-
	<u>Tees</u>				
H	32mm diameter equal tee	1	No		-
I	25x20mm diameter unequal tee	17	No		-
J	32x20mm ditto	0	No		-
	<u>Reducers</u>				
K	25x20mm dia reducers	2	No		-
L	32x25mm dia ditto	2	No		-
	<u>Male Sockets</u>				
M	32 x 25mm Male sockets	0	No		-
N	25mm x 20mm ditto	5	No		-
	<u>Male Adoptor sockets</u>				
O	32 x 25mm male adaptor sockets	6	No		-
	<u>Plain Sockets</u>				
P	32mm dia plain sockets	0	No		-
Q	25mm plain sockets	12	No		-
	<u>Gate valves</u>				
R	25mm dia gate valve as peglar.	3	No		-
S	32mm ditto	1	No		-
T	20mm ditto	0	No		-
U	20mm dia Longthread nipples	3	No		-
V	20mm dia backnut	6	No		-
	<u>Ball valve</u>				
W	15mm diameter medium pressure ball valve brass stem and plastic float, screwed to threaded socket of tank including union	2	No		-
	<u>Water storage tank</u>				
X	1000Litres capacity plastic water storage tank complete with cover and having screwed connections for inlet (25mm), outlet (25mm), overflow (32mm) and 20mm	2	No		-
TOTAL FOR PLUMBING WORKS TO SUMMARY					-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>INTERNAL DRAINAGE.</u>				
	Supply and fix u PVC soil system and u PVC waste systems to with screwed and socketed joints				
A	100mm diameter golden brown UPVC class 'D' pipes	30	Lm		-
B	100mm diameter grey class 'D' pipes	12	Lm		-
C	50mm diameter waste pipes	36	Lm		-
	<u>Extra over UPVC pipework for the following:-</u>				-
D	100mm diameter access bends	4	No.		-
E	100mm diameter sweep bends	2	No.		-
F	100mm diameter access cap	4	No.		-
G	100mm diameter long radius bends	2	No.		-
H	100 mm diameter WC connector bend with provision for appropriate adaptation for conversion to S-trap	11	No.		-
I	100mm diameter WC manifold capable of connection to horizontal soil pipe. Complete with pan seal to fit pan outlet	11	No.		-
J	100mm diameter weathering slate and vent cowl	2	No.		-
K	100x50mm diameter trapped floor trap complete with grating and cover	3	No.		-
L	100x40mm diameter boss connector	0	No.		-
M	50mm diameter sweep Tees	5	No.		-
N	50mm diameter sweep bends	14	No.		-
O	40mm diameter acces plug	3	No.		-
	<u>BELOW GROUND DRAINAGE WORKS</u>				-
P	Excavate trench for large diameter pipe average width 600mm and depth not exceeding 1.5m from the original ground level in black cotton soil, lay pipe and backfill with suitable material.	12	LM		-
Q	100mm high duty diameter golden brown uPVC waste pipe laid in the trench.	12	LM		-
	<u>Manhole Construction</u>				
R	Excavate and construct Man hole in natural stone blocks size 700 x 650mm and depth not exceeding 1.5m including plastering and benching.	2	No		-
S	Supply and fit Medium Duty Cast Iron manhole cover.	2	No		-
	TOTAL FOR DRAINAGE WORKS TO SUMMARY				-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

IT EM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SANITARY FITTINGS AND APPLIANCES</u> Allow for fixing, testing and commissioning of the following sanitary appliances complete with all the connections to services, waste, jointing to supply overflows and plugging and scewing to the floors.				
	<u>Water closet</u>				
A	Supply and install vitreous China "Sahar" squatting pan type and WC 4090WH, complete with loose type VC 4522WH, 6L high level cistern and fill SSO type CX7610WH cistern, brackets – SR 1300xx inlet connector, CF 4220xx clip, plastic type CF 6415WH including screwing cistern to wall and supported on brackets.	10	No		-
	<u>Wash Hand Basin</u>				
B	Wash hand basin of size 585x450mm with 1No. tap holes and chain stay hole in approved colour. To be complete with wall support, wall bolts.	5	No		-
	<u>Toilet Roll holder.</u>				
C	Toilet roll holder in vitreous China of size 165x165 mm in approved colour.	0	No	2,500	-
	<u>Robe Hook</u>				
D	Vitreous China in approved colour mounted onto walls or flush doors.	11	No		-
	<u>Mirrors</u>				
E	4mm thick polished plate glass, silver backed mirror, size 610x497mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.	3	No		-
	<u>Urinal</u>				
F	Supply and install Stainless steel urinal slab (2800mmx100x1200mm complete with matching automatic cistern.	1	No		-
G	Supply and fix 15mm diameter angle valve.	17	No		-
H	32mm diameter viega bottle trap	5	No		-
I	15mm diameter pillar tap	5	No		-
	<u>Flex Tubing.</u>				
J	15mm diameter 300mm long flex tubing	17	No		-
Total Carried Forward Summary Page					-

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

SUMMARY PAGE

ITE	DESCRIPTION	AMOUNT
1	INTERNAL PLUMBING WORKS	-
2	INTERNAL AND BELOW GROUND PLUMBING WORKS	-
3	SANITARY FITTINGS	-
TOTAL FOR MECHANICAL WORKS TO GRAND SUMMARY PAGE		-

PROVISIONAL SUMS

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION
BLOCK AT GITUAMBA SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<p><u>PRIME COSTS & PROVISIONAL SUMS</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>The following provisional sums are to be measured on completion and priced in accordance with the rates contained in these bills of quantities or prorata thereto or deducted in whole if not required</u></p>				
A	Allow for Kenya Shillings Three Hundred thousands (Kshs 300,000.00) only for Contingencies		ITEM		300,000.00
	TOTAL FOR P.C. & PROVISIONAL SUMS CARRIED TO GRAND SUMMARY				300,000.00

GRAND SUMMARY

PROPOSED CONSTRUCTION GROUND FLOOR ADMINISTRATION BLOCK AND 10 NO. DOOR ABLUTION BLOCK AT GITUAMBA
SECONDARY SCHOOL IN KASARANI CONSTITUENCY-NAIROBI

ITEM	DESCRIPTION	SHS	SHS
		FOR OFFICIAL USE	FOR CONTRACTOR'S USE
	MAIN SUMMARY		
1	PARTICULAR PRELIMINARIES		
2	GENERAL PRELIMINARIES		
3	BUILDERS WORK (ADMIN BLOCK) ABBLUTION BLOCK		
5	ELECTRICAL WORKS		
6	MECHANICAL WORKS		
7	PROVISIONAL SUMS PS/1		
	TOTAL CARRIED TO FORM OF TENDER KSHS		
<p>CONTRACTOR'S NAME,.....</p> <p>ADDRESS,.....</p> <p>DATE ,.....</p> <p>SIGNATURE ,.....</p> <p>WITNESS NAME,.....</p> <p>.....</p> <p>DATE,</p> <p>SIGNATURE</p>			