

CHUKA



UNIVERSITY

PROPOSED NDAGANI CHIEF RELOCATION

Client: CHUKA UNIVERSITY

Contract Number: CU / OPNT / 69 / 2020 - 2021

Prepared by

Quantity Surveyor - Chuka University

June 2021

CONTRACT BILLS OF QUANTITIES

The contract for the proposed **Ndagani Chief Relocation** entered into onday of 20 by the under signed parties refers to these Bills of Quantities consisting of all the pages listed in the contents page of these Bills of Quantities and General Specifications dated 1976 all of which shall be read and construed as part of this contract.

SPECIAL NOTES

The contractor is required to check the number of pages of these Bills of Quantities together with all summaries and should he find any missing or indistinct, he must inform the Quantity Surveyor, Chuka University at once and have the same rectified.

Should the contractor be in any doubt of the precise meaning of any item or figure for any reason whatsoever, he must inform the Quantity Surveyor, Chuka University so that the correct meaning may be decided before the date of submission of tenders.

The contractor shall check the printed hard copy and compare it with the soft copy posted in the website of the Chuka University (www.chuka.ac.ke). Where there is a difference between the soft copy as posted in the website and the printed copy, the soft copy shall prevail. The contractor shall inform the Quantity Surveyor, Chuka University at once so that corrections are made, before submission of the tenders, in order to ensure that the hard copy is a replica of the soft copy.

Neither liability will be admitted nor claim allowed in respect of errors in the contractor's tender due to mistakes in the Bills of Quantities that could have been rectified in the manner described above.

SIGNATURE PAGE AND SPECIAL NOTES

POST QUALIFICATION FORMS

FORM OF TENDER

Tender for the

In accordance with the special specifications and the following drawings: -

To:

THE VICE CHANCELLOR,
CHUKA UNIVERSITY,
P.O. BOX 109 - 60400
CHUKA.

I/we

(contractors name), under and subject to the conditions of tendering annexed hereto, hereby tender and offer to execute and perform the works, provisions and supply all labour and materials and everything of every kind respectively named, shown, described and / or included to ,in or to be in inferred from the general conditions of contract, specifications and the drawings governing the contract between Chuka University and the main contractor, and in conformity with the said specifications conditions and drawings for the lump sum named herein below.

The undersigned agrees to be bound by and submit to the said general conditions of contract, specifications, and priced Bills of Quantities which shall form a basis for the valuation of interim certificates and any extra or omitted work which may from time to time be ordered by the Project Manager (P.M.)

The total sum of this tender in accordance with the specifications and/or Bills of Quantities is the lump sum of Kenya shillings

.....
...

Whereas it is understood that you reserve to yourself the right to agree or refuse this tender whether it is lower or higher than any other tender or of the same amount, the undersigned agrees that the tender shall remain valid and shall not be withdrawn within **One Hundred and Fifty (150) days** from the final date of submission of the tenders stipulated in the advertisement or letter of invitation to tender.

And further the undersigned agrees, in the event of your acceptance of this tender, to enter into a contract as herein before described within fifteen days of posting, or delivery if by hand, of Notification of Award.

Name and address of company.....

.....

Name of person signing on behalf of company.....

Date

Binding Signature

CONFIDENTIAL BUSINESS QUESTIONNAIRE**(FORM S 13)**

You are required to give the particulars indicated in part 1 and either part 2 (a), 2 (b), or 2 (c) 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
 Plot No.
 Postal address Tel. No.
 Nature of business
 Current consolidated license No. Expiring date
 Maximum value of business which you can handle at any one time (Kshs).....
 Name of your banker branch

Part 2 (a) Sole proprietorship

Your full name age
 Nationality country of origin
 *Citizenship details

Part 2 (b) partnership

Give details of partners as follows:

Name	Nationality	Citizenship Details	Shares
1			
2			

Part 2 (C) Registered Company

Public or private
 State the nominal and issued capital of the company
 Nominal (Kshs)
 Issued (Kshs)

Give details of all directors as follows;

Name	Nationality	Citizenship Details	Shares
1			
2			
3			

Date signature of tenderer

* Attach certified copy of records (Form CR 12) issued by the Registrar of Companies to proof the company directors.

FORM OF BOND

CONTRACT NO.

KNOW ALL MEN BY THESE PRESENTS that we

(surety) ofare bound to the Chuka for payment to them of shillings

(Kshs) **WHEREAS** by an agreement in writing of even date herewith

(contractor) of.....

contracted with the said Chuka University to (description of the works)
..... said agreement particularly described and conformable thereto.

NOW the condition of the above written bond is such that if the said

..... (contractor) its/their executors, administrators or assignees shall conform to the said agreement the above written bond to be void otherwise to remain in full force. Provided always and it is hereby agreed and declared that the liability of us the said

(surety) under the above-written bond shall not in any way be discharged or impaired by reason of breach or breaches (willful or otherwise) of the said agreement committed with or without the knowledge or consent of the said

(contractor) by or on behalf of or with the knowledge or consent of the said Chuka University.

in witness whereof we have hereunto set our hands this day of

..... two thousand and

..... (surety)

witness

*The full names of the parties must be inserted in the spaces left for the purpose.

To be filled if tendered is a awarded job

INSTRUCTION TO BIDDERS / TENDERERS

INSTRUCTIONS TO TENDERERS.

1. General/Eligibility/Qualifications/Joint venture/Cost of tendering

- 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 tender documents.
- 1.2 All tenderers shall provide the Qualification Information, a statement that the tenderer (including all members of a joint venture and subcontractors) is not associated, or has not been associated in the past, directly or indirectly, with the Consultant or any other entity that has prepared the design, specifications, and other documents for the project or being proposed as Project Manager for the Contract.. A firm that has been engaged by the Employer to provide consulting services for the preparation or supervision of the Works, and any of its affiliates, shall not be eligible to tender.
- 1.3 All tenderers shall provide in the Form of Tender and Qualification Information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.
- 1.4 In the event that pre-qualification of potential tenderers has been undertaken, only tenders from pre-qualified tenderers will be considered for award of Contract. These qualified tenderers should submit with their tenders any information updating their original pre-qualification applications or, alternatively, confirm in their tenders that the originally submitted pre-qualification information remains essentially correct as of the date of tender submission.
- 1.5 Where no pre-qualification of potential tenderers has been done, all tenderers shall include the following information and documents with their tenders , unless otherwise stated:
 - (a) copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the tender to commit the tenderer:
 - (b) total monetary value of construction work performed for each of the last five years:
 - (c) experience in works of a similar nature and size for each of the last five years, and details of work under way or contractually committed; and names and addresses of clients who may be contacted for further information on these contracts;
 - (d) major items of construction equipment proposed to carry out the Contract and an undertaking that they will be available for the Contract.
 - (e) qualifications and experience of key site management and technical personnel proposed for the Contract and an undertaking that they shall be available for the Contract.
 - (f) reports on the financial standing of the tenderer, such as profit and loss statements and auditor's reports for the past five years;
 - (g) evidence of adequacy of working capital for this Contract (access to line(s) of credit and availability of other financial resources);
 - (h) authority to seek references from the tenderer's bankers;
 - (i) information regarding any litigation, current or during the last five years, in which the tenderer is involved, the parties concerned and disputed amount; and
 - (j) proposals for subcontracting components of the Works amounting to more than 10 per cent of the Contract Price.
- 1.6 Tenders submitted by a joint venture of two or more firms as partners shall comply with the following requirements, unless otherwise stated:
 - (a) the tender shall include all the information listed in clause 1.5

above for each joint venture partner;

- (b) the tender shall be signed so as to be legally binding on all partners;
- (c) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;
- (d) one of the partners will be nominated as being in charge, authorised to incur liabilities, and receive instructions for and on behalf of all partners of the joint venture; and
- (e) the execution of the entire Contract, including payment, shall be done exclusively with the partner in charge.

1.7 To qualify for award of the Contract, tenderers shall meet the following minimum qualifying criteria;

- (a) experience as main contractor in the construction of at least one job of a nature and complexity equivalent to the Works over the last 10 years (to comply with this requirement, works cited should be at least 70 per cent complete);
- (b) proposals for the timely acquisition (own, lease, hire, etc.) of the essential equipment listed as required for the Works;
- (c) a Contract manager with experience in works of an equivalent nature and volume, and
- (d) liquid assets and/or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract

1.8 The figures for each of the partners of a joint venture shall be added together to determine the tenderer's compliance with the minimum qualifying criteria of clause 1.7 (a) and (e); however, for a joint venture to qualify, each of its partners must meet at least 25 per cent of minimum criteria 1.7 (a), (b) and (d) for an individual tenderer, and the partner in charge at least 40 per cent of those minimum criteria. Failure to comply with this requirement will result in rejection of the joint venture's tender. Subcontractors' experience and resources will not be taken into account in determining the tenderer's compliance with the qualifying criteria, unless otherwise stated.

1.9 Each tenderer shall submit only one tender, either individually or as a partner in a joint venture. A tenderer who submits or participates in more than one tender (other than as a subcontractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the tenderer's participation to be disqualified.

1.10 The tenderer shall bear all costs associated with the preparation and submission of his tender and the Employer will in not be responsible or liable for those costs.

1.11 The tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the tenderer's own expense.

1.12 The procuring entity's employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender.

1.13 The price to be charged for the tender document shall not exceed Kshs.1,000/=

1.14 The procuring entity shall allow the tenderer to review the tender document free of charge before purchase.

2. Tender Documents

2.1 The complete set of tender documents comprises the documents listed below and any addenda issued in accordance with Clause 2.4.

- (a) These Instructions to Tenderers
 - (b) Form of Tender and Qualification Information
 - (c) Conditions of Contract
 - (d) Appendix to Conditions of Contract
 - (e) Specifications
 - (f) Bills of Quantities
 - (g) Forms of Securities
- 2.2 The tenderer shall examine all Instructions, Forms to be filled and Specifications in the tender documents. Failure to furnish all information required by the tender documents, or submission of a tender not substantially responsive to the tendering documents in every respect will be at the tenderer's risk and may result in rejection of his tender.
- 2.3 A prospective tenderer making an inquiry relating to the tender documents may notify the Employer in writing or by cable, email or facsimile at the address indicated in the letter of invitation to tender. The Employer will only respond to requests for clarification received earlier than seven days prior to the deadline for submission of tenders. Copies of the Employer's response will be forwarded to all persons issued with 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, email 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 here below.

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) These Instructions to Tenderers, Form of Tender, Conditions of Contract, Appendix to Conditions of Contract and Specifications;
 - (b) Tender Security;
 - (c) Priced Bill of Quantities ;
 - (d) Qualification Information Form and Documents;
 - (e) Alternative offers where invited; and
 - (f) Any other materials required to be completed and submitted by the tenderers.
- 3.3 The tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items for which no rate or price is entered by the tenderer will not be paid for when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause relevant to 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 only be subject to adjustment during the performance of the Contract if provided for in the Appendix to Conditions of Contract and provisions made in the Conditions of Contract.
- 3.5 The unit rates and prices shall be in Kenya Shillings.
- 3.6 Tenders shall remain valid for a period of **One Hundred and Fifty (150) 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. A tenderer may refuse the request without forfeiting the Tender Security. A tenderer agreeing to the request will not be required or permitted to otherwise modify the tender, but will be required to extend the validity of Tender Security for the period of the extension, and in compliance with Clause 3.7 - 3.11 in all respects.

- 3.7 The tenderer shall furnish, as part of the tender, a Tender Security in the amount and form specified in the appendix to invitation to tenderers. This shall be in the amount not exceeding 2 per cent of the tender price.
- 3.8 The format of the Tender Security should be in accordance with the form of Tender Security included in the Standard forms or any other form acceptable to the Employer. Tender Security shall be valid for **One hundred and eighty (180)** from date of tender submission.
- 3.9 Any tender not accompanied by an acceptable Tender Security shall be rejected. The Tender Security of a joint venture must define as "Tenderer" all joint venture partners and list them in the following manner: a joint venture consisting of "....."; "....."; and ".....".
- 3.10 The Tender Securities of unsuccessful tenderers will be returned within 28 days of the end of the tender validity period specified in Clause 3.6.
- 3.11 The Tender Security of the successful tenderer will be discharged when the tenderer has signed the Contract Agreement and furnished the required Performance Security.
- 3.12 The Tender Security may be forfeited
 - (a) if the tenderer withdraws the tender after tender opening during the period of tender validity;
 - (b) if the tenderer does not accept the correction of the tender price, pursuant to Clause 5.7;
 - (c) in the case of a successful tenderer, if the tenderer fails within the specified time limit to
 - (h) sign the Agreement, or
 - (ii) furnish the required Performance Security.
- 3.13 Tenderers shall submit offers that comply with the requirements of the tendering documents, including the basic technical design as indicated in the Drawings and Specifications. Alternatives will not be considered, unless specifically allowed in the invitation to tender. If so allowed, tenderers wishing to offer technical alternatives to the requirements of the tendering documents must also submit a tender that complies with the requirements of the tendering documents, including the basic technical design as indicated in the Drawings and Specifications. In addition to submitting the basic tender, the tenderer shall provide all information necessary for a complete evaluation of the alternative, including design calculations, technical specifications, breakdown of prices, proposed construction methods and other relevant details. Only the technical alternatives, if any, of the lowest evaluated tender conforming to the basic technical requirements shall be considered.
- 3.14 The tenderer shall prepare one original of the documents comprising the tender documents as described in Clause 3.2 of these Instructions to Tenderers, bound with the volume containing the Form of Tender, and clearly marked "ORIGINAL". In addition, the tenderer shall submit copies of the tender, in the number specified in the invitation to tender, and clearly marked as "COPIES". In the event of discrepancy between them, the original shall prevail.
- 3.15 The original and all copies of the tender 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, pursuant to Clause 1.5 (a) or 1.6 (b), as the case may be. All pages of the tender where alterations or additions have been made shall be initialled by the person or persons signing the tender.
- 3.16 Clarification of tenders shall be requested by the tenderer to be received by the procuring entity not later than 7 days prior to the deadline for submission of tenders.
- 3.17 The procuring entity shall reply to any clarifications sought by the tenderer within 3 days of receiving the request to enable the tenderer to make timely submission of its tender.
- 3.18 The tender security shall be in the amount of 0.0 – 2.0 per cent of the tender price.

4. Submission of Tenders

- 4.1 The tenderer shall seal the original and all copies of the tender in two inner envelopes and one outer envelope, duly marking the inner envelopes as “**ORIGINAL**” and “**COPIES**” as appropriate. The inner and outer envelopes shall:
- (a) be addressed to the Employer at the address provided in the invitation to tender;
 - (b) bear the name and identification number of the Contract as defined in the invitation to tender; and
 - (c) provide a warning not to open before the specified time and date for tender opening.
- 4.2 Tenders shall be delivered to the Employer at the address specified above not later than the time and date specified in the invitation to tender. However, 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.
- 4.3 Any tender received after the deadline prescribed in clause 4.2 will be returned to the tenderer un-opened.
- 4.4 Tenderers may modify or withdraw their tenders by giving notice in writing before the deadline prescribed in clause 4.2. Each tenderer’s modification or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with clause 3.13 and 4.1, with the outer and inner envelopes additionally marked “**MODIFICATION**” and “**WITHDRAWAL**”, as appropriate. No tender may be modified after the deadline for submission of tenders.
- 4.5 Withdrawal of a tender between the deadline for submission and the expiry of the tender validity period specified in the invitation to tender or as extended pursuant to Clause 3.6 may result in the forfeiture of the Tender Security pursuant to Clause 3.11.
- 4.6 Tenderers may only offer discounts to, or otherwise modify the prices of their tenders by submitting tender modifications in accordance with Clause 4.4 or be included in the original tender submission.

5. Tender Opening and Evaluation

- 5.1 The tenders will be opened by the Employer, including modifications made pursuant to Clause 4.4, in the presence of the tenderers’ representatives who choose to attend at the time and in the place specified in the invitation to tender. Envelopes marked “**WITHDRAWAL**” shall be opened and read out first. Tenderers’ and Employer’s representatives who are present during the opening shall sign a register evidencing their attendance.
- 5.2 The tenderers’ names, the tender prices, the total amount of each tender and of any alternative tender (if alternatives have been requested or permitted), any discounts, tender modifications and withdrawals, the presence or absence of Tender Security, and such other details as may be considered appropriate, will be announced by the Employer at the opening. Minutes of the tender opening, including the information disclosed to those present will be prepared by the Employer.
- 5.3 Information relating to the examination, clarification, evaluation, and comparison of tenders and recommendations for the award of 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 To assist in the examination, evaluation, and comparison of tenders, the Employer at his discretion, may ask 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 email, telex or facsimile but no change in the price or substance of the tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered in the evaluation of the tenders in accordance with Clause 5.7.
- 5.5 Prior to the detailed evaluation of tenders, the Employer will determine whether each tender
- (a) meets the eligibility criteria defined in Clause 1.7;
 - (b) has been properly signed;

(c) is accompanied by the required securities; and

(d) is substantially responsive to the requirements of the tendering documents.

A substantially responsive tender is one which conforms to all the terms, conditions and specifications of the tendering documents, without material deviation or reservation. A material deviation or reservation is one: -

(a) which affects in any substantial way the scope, quality, or performance of the works;

(b) which limits in any substantial way, inconsistent with the tendering documents, the Employer's rights or the tenderer's obligations under the Contract; or

(c) whose rectification would affect unfairly the competitive position of other tenderers presenting substantially responsive tenders.

5.6 If a tender is not substantially responsive, it will be rejected, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

5.7 Tenders determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows:

- (a) where there is a discrepancy between the amount in figures and the amount in words, the amount in words will prevail; and
- (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will prevail, unless in the opinion of the Employer, 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, 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 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 may be forfeited in accordance with clause 3.11.

5.8 The Employer will evaluate and compare only the tenders determined to be substantially responsive in accordance with Clause 5.5.

5.9 In evaluating the tenders, the Employer will determine for each tender the evaluated tender price by adjusting the tender price as follows:

- (a) making any correction for errors pursuant to clause 5.7;
- (b) excluding provisional sums and the provision, if any, for contingencies in the Bill of Quantities, but including Day-works where priced competitively.
- (c) making an appropriate adjustment for any other acceptable variations, deviations, or alternative offers submitted in accordance with clause 3.12; and
- (d) making appropriate adjustments to reflect discounts or other price modifications offered in accordance with clause 4.6

- 5.10 The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, and alternative offers and other factors which are in excess of the requirements of the tender documents or otherwise result in unsolicited benefits for the Employer will not be taken into account in tender evaluation.
- 5.11 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.
- 5.12 Firms incorporated in Kenya where indigenous Kenyans own 51% or more of the share capital shall be allowed a 10% preferential bias provided that they do not sub-contract work valued at more than 50% of the Contract Price excluding Provisional Sums to a non-indigenous sub-contractor.

6. Award of Contract

- 6.1 Subject to Clause 6.2, the award of the Contract will be made to the tenderer whose tender has been determined to be substantially responsive to the tendering documents and who has offered the lowest evaluated tender price, provided that such tenderer has been determined to be: -
 - (a) Eligible in accordance with the provision of Clauses 1.2, and
 - (b) Qualified in accordance with the provisions of clause 1.7 and 1.8.
 - 6.2 Notwithstanding 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.
 - 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 email, telex or facsimile. This notification (hereinafter and in all Contract documents called the "Letter of Notification of award") will state the sum (hereinafter and in all Contract documents called the "Contract Price or sum") that 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. At the same time, the other tenderers shall be informed that their tenders have not been successful.
- The contract shall be formed on the parties signing the contract.
- 6.4 The Agreement will incorporate all agreements between the Employer and the successful tenderer. Within 14 days of receipt the successful tenderer will sign the Agreement and return it to the Employer.
 - 6.5 Fifteen (15) days after receipt of the Letter of Notification of award, the successful tenderer shall deliver to the Employer a Performance Security in the amount stipulated in the Appendix to Conditions of Contract and in the form stipulated in the Tender documents. The Performance Security shall be in the amount and form specified
 - 6.6 Failure of the successful tenderer to comply with the requirements of clause 6.5 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Tender Security.
 - 6.7 Preference where allowed in the evaluation of tenders shall not be allowed for contracts not exceeding one year (12 months)
 - 6.8 The tender evaluation committee shall evaluate the tender within fifteen days from date of tender opening. The period for tender evaluation may be extended by an extra 30 days for complex projects or where there is a huge number of tenderers and it is not practically possible to examine all the tenders within 15 days after tender opening.
 - 6.9 The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.
 - 6.10 Contract price variations shall not be allowed for contracts not exceeding one year (12 months)
 - 6.11 Where contract price variation is allowed, the variation shall not exceed 25% of the original contract price.

- 6.12 Price variation request shall be processed by the procuring entity within 30 days of receiving the request.
- 6.13 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 6.14 The procuring entity shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 14 days of receiving the request from any tenderer.
- 6.15 A tenderer who gives false information in the tender document about its qualification or who refuses to enter into a contract after notification of contract award shall be considered for debarment from participating in future public procurement.

7. Corrupt and Fraudulent practices

- 7.1 The procuring entity requires that tenderers observe the highest standards of ethics during procurement process and execution of contracts. A tenderer shall sign a declaration that he has not and will not be involved in corrupt and fraudulent practices.

8. APPENDIX TO INSTRUCTIONS TO TENDERERS:

TENDER EVALUATION CRITERIA

Evaluation will be done as follows: -

- 1. Determination of responsiveness
- 2. Technical
- 3. Financial evaluation

1. STAGE ONE (TENDER RESPONSIVENESS)

i) The mandatory conditions to be complied with are: -

- a) Form of tender (properly filled and signed)
- b) Bid security (from approved institutions, proper validity period, as per the sample form)
- c) All documents shall be serialised and the total number of pages clearly stated.
- d) Class of registration with National Construction Authority as per the advertisement
- e) Current tax compliance certificate.
- f) Must have completed a similar construction work of at least 10 million tender sum.
- g) Must not have had a building project with Chuka University that has been terminated or current one that is behind schedule without approved extension of time.

ii) A company shall fulfil all the conditions above in order to proceed to technical evaluation.

iii) Any company that does not fulfil any of the above conditions shall be disqualified from further evaluation at this stage.

2. (TECHNICAL AND FINANCIAL ANALYSIS)

- i) The technical and financial analysis will be allocated 33 marks.

Stage A: Documents analysis

item	Criterion				Marks allocation	Total Score	
1	Similar Works (KES)		10 - < 15 Million		3	14	
			15 - < 20 Million		5		
			20 - < 25 Million		8		
			25 - < 30 Million		11		
			30 million and over		14		
2	Qualified personnel (Technical directors qualification in relevant trade)		Grade 1 certificate		1	3	
			Diploma		2		
			Degree and above		3		
3	Financial status KES	For limited companies	Accounts of 2019		1	3	
			Accounts of 2020		3		
		Current Asset base (KES)	0 - < 100,000		1	10	
			100,000 - < 200,000		3		
			200,000 - < 400,000		5		
			400,000 - < 600,000		7		
			Over 600,000		10		
			For business names	Attach bank statement for last three months showing three months (gross deposits or net bank balance as follows: KES)			0 - < 50,000
				50,000 - < 100,000	3		
				100,000 - < 200,000	5		
				200,000 - < 400,000	7		
				Over 400,000	10		
		4	Arithmetic errors				0 to - < 5% margin
5% and more	0						
Total score					33		

- iii) All bids that get a score of between 20 and 22 (out of 33) on items 1 to 3 above will be checked for arithmetic errors and awarded a score as per item 4
- iii) All companies that score 22 marks and below (out of 33) will be disqualified from further evaluation and will not proceed to financial analysis.
- iv) All companies that score 23 and above (out of 33) will proceed to financial analysis

3.0 FINANCIAL ANALYSIS

- i) The tenders will be ranked from the lowest to the highest
- ii) The three lowest ranked bid will be checked for arithmetic errors
- iii) An arithmetic error of more than 5 % may lead to disqualification of the tender

Due Diligence

Due diligence may be done on the lowest ranked bidder to confirm the correctness of the information submitted under technical evaluation and the ability of the company to perform the contract.

4. RECOMMENDATION FOR AWARD

The bidder with the lowest evaluated tender will be recommended for award if the tender figure is within the current market rate.

KES

Clause 1 (**General/Eligibility/Qualifications/Joint venture/Cost of tendering**)

Clause 2 (**Tender Documents**)

Clause 3 (**Preparation of Tender**)

Clause 4 (**Submission of Tenders**)

Clause 5 (**Tender Opening and Evaluation**)

Clause 6 (**Award of Contract**)

Clause 7 (**Corrupt and Fraudulent practices**)

Appendix to instructions to bidders

Total to collection

PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	KES
A.	<u>PARTICULAR PRELIMINARIES</u> PRICING OF PRELIMINARIES Prices SHALL BE INSERTED against the items of preliminaries in the bidder's priced Bills of Quantities. The contractor is advised to read and understand all preliminary items.	
B	SCOPE OF WORKS The works comprises the Construction of single storey offices for various National Government and Community offices that are being relocated to a new site in order to create room for the Proposed Chuka University Library.	
C.	LOCATION OF SITE The site is located at Ndagani area Near the slaughter House approximately 3 KM from Chuka Meru Road (A9)	
D	SIGN BOARD Erect a sign board as per the approved design.	
E	HOARDING The contractor shall allow for iron sheets hoarding all around the site as directed and shown by the project manager.	
F	SECURITY FOR THE WORKS 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.	
G	EXISTING SERVICES Prior to commencement of any works, the contractor shall ascertain from the relevant authorities the exact position, depth and level of all existing services in the area and shall make whatever provisions may be required by the authority concerned for the support, maintenance and protection of such services.	
H	OFFICE OF THE PROJECT MANAGER The contractor shall allow for a project manager's office as provided for in the general preliminaries. He shall also provide leather safety boots, Reflective Jackets and white helmets for the exclusive use of the Vice Chancellor, Architect, Quantity Surveyor and Clerk of works.	
	Total to collection	

ITEM	DESCRIPTION	KES
A	VALUE ADDED TAX (VAT) 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 its rates and prices for VAT and any other government and local authority taxes and levies currently in force. The VAT shall be added at the Grand Summary page. The contractor shall be responsible for submitting the VAT to the commissioner of VAT PROJECT MANAGER'S ACCOUNT The funds shall be disbursed as directed by the Project Manager. Coordinating team expenses (This team will comprise the university Architect, QS and Clerk of Works)	
B	Project Cellular phone airtime	15,000
C	Allow a sum for fuel and mileage allowance for the supervising team	25,000
	Total to collection	

GENERAL PRELIMINARIES

ITEM	DESCRIPTION	KES
	<u>GENERAL PRELIMINARIES</u> PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES Prices will be inserted against items of Preliminaries in the contractor's priced Bills of Quantities and specifications The contractor shall be deemed to have included in its prices or rates for the various items in the Bills of Quantities or specifications for all the costs involved in complying with all requirements for the proper execution of the whole of the works in this contract. ABBREVIATIONS Throughout these bills, the units of measurements and terms are abbreviated and shall be interpreted as follows: - C cm shall mean cubic metre D sm shall mean square metre E lm shall mean linear metre F mm shall mean millimetre G Kg shall mean kilogram H No. shall mean number J Prs shall mean pairs K B.S. shall mean the current British Standard Specification published by the British Standards Institute, 2 park street, London W.1, England L Ditto shall mean the whole of the preceding description except as qualified in the description in which it occurs. M m/s shall mean measured separately N a.b.d shall mean as before described P P.M. shall mean the Project Manager	
Total to collection		

ITEM	DESCRIPTION	KES
	EXCEPTIONS TO THE STANDARD METHOD OF MEASUREMENT A Attendance clause B19 (a) of the S.M.M. is deleted and the following clause is substituted: - B Attendance on nominated subcontractors shall be given as an item in each case and shall be deemed to: 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, off loading, facilities for storage, hoisting, providing electric power, and removing and replacing duct covers pipe casings and the like necessary for the execution and testing of the sub-contractors' work and being responsible for the accuracy of same. C Disposal of water clause 18(a) and (b) of the S.M.M. are deleted and the following clause is substituted; - D Keeping the excavations free from all water including spring and running water shall be given as an item, or alternatively shall be given in the description of the excavation. E Planking and strutting clause D 19 of the S.M.M. delete the words "shall be given as an item or", the clause will then read that planking and strutting shall be deemed to be included in all items of excavation. Fix only shall mean take delivery at the nearest railway station (unless otherwise stated), pay all the demurrage charges, load, and transport to site where necessary, unload, store, unpack, assemble, as necessary, distribute to position, hoist and fix only. EMPLOYER F The employer is the Chuka University, The term employer and Chuka University, whenever used in any contract document shall be synonymous. PROJECT MANAGER (P.M.) G The term the P.M. wherever used in these bills of quantities shall be deemed to imply the Project Manager as defined in the conditions of contract or such person or persons as may be fully authorised to represent him on behalf of the Chuka University.	
	Total to collection	

ITEM	DESCRIPTION	KES
A	ARCHITECT The term the "Architect" shall be deemed to mean University Architect whose address is P.O. Box 109 -60400, Chuka.	
B	QUANTITY SURVEYOR The term the "Quantity Surveyor" shall be deemed to mean University Quantity Surveyor whose address is P.O. Box 109 – 60400, CHUKA.	
C	ELECTRICAL ENGINEER The term the "Electrical Engineer" shall be deemed to mean the the Project Manager whose address is P.O. Box 109 – 60400, Chuka.	
D	STRUCTURAL / CIVIL ENGINEER The term the "Structural Engineer" shall be deemed to mean Project Manager whose address is P.O. Box 109 – 60400, Chuka.	
E	MECHANICAL ENGINEER The term the " Mechanical Engineer " shall be deemed to mean Project Manager whose address is P.O. Box 109 – 60400, Chuka.	
F	FORM OF CONTRACT The form of contract shall be as stipulated in the Republic of Kenya's standard Tender Document for Procurement of Building Works (2006 Edition and all amendments) included herein <i>Conditions of Contract</i> The conditions of contract are also included herein These are numbered from clause 1 to 38 as set out in these tender documents. A copy of the Conditions of Contract, form of bond, drawings and general specification may be seen at the Estates Department Office – Chuka on any working day until the time appointed for the submission of tenders.	
Total to collection		

ITEM	DESCRIPTION	KES
A	Particular insertions to be made in the appendix of the contract agreement will be found in the particular preliminaries of these Bills of Quantities.	
B	BOND The contractor shall find and submit on the form of tender the name of one surety who shall be an established bank, guarantee company or approved insurance company and who will be willing to be bound to the Employer in an amount equal to five per cent (5%) of the contract amount for the due performance of the contract up to the date of completion as certified by the P.M. and who will, when and if called upon to do so, sign a bond to that effect on the sample form provided (without the addition of any limitations) on the same day as the contract agreement is signed. In case of the surety named in the form of tender not being approved by the Employer, the contractor shall furnish within seven days another surety to the approval of the Chuka . PLANT, TOOLS AND VEHICLES.	
C	Allow for providing all the scaffolding, plant tools and vehicles required for the works except in so far as may be stated otherwise herein and except such items specifically and only required for the use of nominated sub-contractors as described herein. No timber used for scaffolding, form work or temporary works of any kind shall be used afterwards in the permanent work. TRANSPORT.	
D	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	
Total to collection		

ITEM	DESCRIPTION	KES
A	MATERIALS AND WORKMANSHIP. All materials and workmanship used in the execution of the works shall be of the best quality and description unless otherwise described. The contractor shall order all materials to be obtained from overseas immediately after the contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are on site when required for use in the works. The bills of quantities shall not be used for ordering the materials. SIGN FOR THE MATERIALS SUPPLIED. The contractor will be required to sign a receipt for all articles and materials supplied by the P.M. at the time of taking delivery 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 similar articles or materials as supplied by the P.M. at the current market prices including customs duty, all at the contractor's own costs and expenses, to the satisfaction of the P.M. STORAGE OF MATERIALS. The contractor shall provide at its own risk and cost where directed on site, weatherproof lockup sheds for the safe storage and custody of materials for the works and for the use of workmen engaged thereon and shall remove such sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the P.M. Nominated sub-contractors are to be made liable for the cost of any storage accommodation provided solely for their use. SAMPLES The contractor shall furnish at its own cost any samples of material or workmanship including concrete test cubes required for the works that may be called for by the P.M. for its approval or rejection and any further samples in case of rejection until such samples are approved by the P.M. and the P.M. may reject any materials or workmanship not in its opinion upto the approved samples.	
Total to collection		

ITEM	DESCRIPTION	KES
A	The P.M. may arrange for the testing of such materials as he may at its own discretion deem desirable, but the testing shall be made at the expense of PM and not at the expense of the contractor unless the materials fail to pass the test or are in the opinion of the P.M. not in accordance with the specification, in either case the contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Works. The procedure for submitting samples of materials for testing and the method of marking for identification shall be as lay down by the PM. The contractor shall allow in its tender for such samples and tests except those about nominated sub-contractor's work. GOVERNMENT ACTS REGARDING WORKPEOPLE ETC.	
B	Allow for complying with all Government of Kenya Acts, orders and regulations about 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 Occupational Safety and Health Act 2007 and any subsequent amendments or other revisions to date, and its tender must include all costs arising or resulting from compliance with any act, order, or regulation to the safety, health or welfare of the work people.	
C	The contractor must make himself acquainted with the 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 or control of labour etc., and allow accordingly in its tender. No claim in respect of want of knowledge in tits connection will be entertained. SECURITY OF WORKS ETC.	
D	The contractor shall be entirely responsible for all the security of all the works, stores, materials, plant personnel etc., both its 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 protection of the public. PUBLIC AND PRIVATE ROADS	
E	Maintain as required throughout the execution of the works and make good any damage to the public or private roads from or consequent upon the execution of the works to the satisfaction of the local or other competent authority and the PM.	
Total to collection		

ITEM	DESCRIPTION	KES
A	EXISTING PROPERTY 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 its own expense to the satisfaction of the PM.	
B	VISIT SITE AND EXAMINE DRAWINGS. The contractor is recommended to examine drawings and visit site location, which is described in the particular preliminaries hereof. He shall be deemed to have acquainted himself therewith as to the nature, position, means of access or any other matter which may affect its tender. No claim arising from this failure to comply with this recommendation will be considered.	
C	ACCESS TO SITE AND TEMPORARY ROADS Means of access to the site shall be agreed with the PM prior to the commencement of the work and the contractor must allow for building any necessary temporary access roads for the transport of 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.	
D	Upon completion of the works, the contractor shall remove such temporary culverts, crossings, bridges and make good and reinstate all works and surfaces disturbed to the satisfaction of the PM.	
E	AREA TO BE OCCUPIED BY THE CONTRACTOR. The PM shall define the area of the site that may be occupied by the contractor for use of storage and for erecting workshops, etc. on the site.	
F	OFFICE ETC FOR THE P.M. The Contractor shall provide, erect and maintain where directed on site and afterwards clear a two storey Site Office of the <i>Type A</i> design measuring 12000 x 4000 mm, complete with furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys, provide the services of cleaner and pay all conservancy charges and keep office in a clean and sanitary condition from the commencement to the completion of the works and dismantle and make good disturbed surfaces. The office 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 "P.M" modern and accurate testing equipment capable of testing all the tests that may be required.	
Total to collection		

ITEM	DESCRIPTION	KES
A	The contractor shall make available on the site as and when required by the PM a modern and accurate level together with levelling staff, ranging rods one 50-meter metallic linen tape and industrial safety boots for the sole use of the project supervisors.	
	WATER AND ELECTRICITY SUPPLY FOR THE WORKS	
B	Unless otherwise stated in the particular preliminaries hereof, the following requirement shall apply: -	
C	The contractor shall provide, at its own risk and cost, all the necessary water, electric light and power required for use in the works.	
D	The contractor must make its own arrangements for the connection to the nearest suitable water mains and for metering the water used.	
E	He must also provide water tanks and meters as required at its own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PM the contractor shall pay all charges herewith.	
F	No guarantee is given or implied that sufficient water will be available from the mains and the contractor must make its own arrangements for augmenting his supply at its own cost if necessary.	
G	Nominated sub-contractors are to be made liable for the cost of water and / or electric power used for any installation provided especially for their own use.	
	SANITATION OF THE WORKS	
H	The sanitation for the works shall be arranged and maintained by the contractor to the satisfaction of the Chuka and / or local authorities, labour department and the PM.	
	SUPERVISION AND WORKING HOURS	
J	The work shall be executed under the direction and to the entire satisfaction in all aspects of the P.M. who shall be at all times during the 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 contract.	
Total to collection		

ITEM	DESCRIPTION	KES
A	The working hours shall be those generally worked by good employers in the building and civil engineering trades in Kenya. No work shall be carried out at night or on gazetted holidays unless the PM shall so direct. No work shall be covered up nor shall any concreting be carried out in the absence of the clerk of works without the prior approval of the PM. in writing. PROVISIONAL SUMS	
B	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 mentioned in condition no. 16 of these conditions of contract. Such items are net and no addition shall be made for profit. PRIME COST (OR P.C.) SUMS	
C	The term "prime cost 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 PM to execute work or to provide and fix materials or goods as stated in Clause no. 8 of the Conditions of Contract are described herein as nominated sub-contractors. Persons or firms so nominated to supply goods or materials are described as nominated suppliers. PROGRESS CHART	
D	The contractor shall provide within two weeks of possession of the site and in agreement with the PM. a progress chart for the whole of the works including the work of nominated sub-contractors, one copy to be handed to the PM. and a further copy to be retained on site. Progress to be recorded and the chart to be amended as necessary as the work proceeds. ADJUSTMENT OF P.C. SUMS	
E	In the final account all PC sums shall be deducted ant the amount properly expended upon the PM's order in respect of each of them added to the contract sum. The contractor shall produce to the PM such quotations, invoices or bills properly receipted, as may be necessary to show the actual details of the sums paid to the contractor. Items of profit upon P.C. shall be adjusted in the final accounts pro rata to the amount paid. Items of attendance (as previously described) following P.C. sums shall be adjusted pro rata to the physical extent of the work executed (not pro rata to the amount paid.) and tits shall apply even though the contractors priced bills shows a percentage in the column in respect of them.	
Total to collection		

ITEM	DESCRIPTION	KES
A	Should the contractor be permitted to tender and its tender be accepted for any work for which a P.C. sum is included in the bills of quantities, profit and attendance will be allowed at the same rates as it would be if the work were executed by a nominated sub-contractor. ADJUSTMENT OF PROVISIONAL SUMS	
B	In the final accounts, all provisional sums shall be deducted and the value of work properly done upon the PM's order added to the contract sum. Such work shall be valued as described for variations in Condition No.13 of the conditions of contract, should any part of the work be executed by a nominated sub-contractor, or any articles for the work 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. NOMINATED SUB-CONTRACTORS	
C	When work is ordered by the PM. to be executed by a nominated sub-contractor the contractors shall enter into sub-contracts as described in as described in Condition No. 8 of conditions of contracts and shall thereafter be responsible for such sub-contract in every respect. Unless otherwise described the contractor is to provide such sub-contractors any or facilities described in these preliminaries. The contractor should price for these with the nominated sub-contractors work concerned in the P.C. sum under the description "Add for attendance". DIRECT CONTRACTS	
D	Notwithstanding the foregoing conditions, Chuka 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 bill of quantities and to pay for the same direct. In any such instance, profit relative to the P.C. sum in the priced bills of quantities will be adjusted as described for the P.C. sums and allowed. ATTENDANCE UPON OTHER TRADESMEN	
E	The contractor shall allow for the attendance of trade upon trade and shall afford any tradesman or any other person employed for the execution of any work not included in its contract every facility for carrying out the work and also for the use of its ordinary scaffolding. The contractor, however, shall not be required to erect any special scaffolding for them. The contractor shall perform such cutting away and making good after the work of such tradesmen or persons as may be ordered by the PM. and the work will be measured and paid for to the extent executed at the rates provided in the bills of quantities.	

ITEM	DESCRIPTION	KES
A	INSURANCE The contractor shall insure as required in condition no.30 of the conditions of contract. No payments on account of work executed will be made to the contractor until he has satisfied the PM. either by production of an insurance policy or by an insurance certificate that the provisions of the foregoing insurance clauses have been complied with in all aspects. Thereafter the PM. shall from time to time ascertain that the contractor who shall, if called upon to do so, produce receipted premium renewals for the PM's inspection duly pays up premiums. PROVISIONAL WORK All work described as provisional in these bills of quantities is subject to re-measurement in order to ascertain the actual quantity executed for which payment will be made. All provisional and other works liable to adjustment under this contract shall be left uncovered for a reasonable time to allow all measurements needed for such adjustments to be taken by the PM. Immediately the work is ready for measuring, the contractor shall give notice to the PM If the contractor makes default in these respects he shall, if the PM so directs uncover the work to enable all measurements to be taken and afterwards reinstate at its own expense. ALTERATION TO BILLS, PRICING ETC. 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 its pricing generally to cover any item against which no price has inserted in the priced bills of quantities. All items of measured work shall be priced in detail and tender 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. BLASTING OPERATIONS Blasting will only be allowed with the express permission of the PM in writing. All blasting operations shall be carried out at the contractors' sole risk and cost in accordance with any Chuka regulations in force for the time being, and any special regulations laid down by the PM governing the use and storage of explosives.	
	Total to collection	

ITEM	DESCRIPTION	KES
A	MATERIALS ARISING FROM EXCAVATION Materials of any kind obtained from the excavation shall be the property of the Chuka University. Unless the P.M. 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 P.M. 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. PROTECTION OF THE WORKS C Provide protection for the whole of the works contained in the bills of quantities, including casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the P.M. and remove such protection when no longer required and make good any damage which may have been done at completion free of charge to Chuka University . REMOVAL OF RUBBISH D Remove all rubbish and debris from the buildings and site as it accumulates and at completion of the works and remove all plant, scaffolding, and unused materials at completion. WORKS TO BE DELIVERED UPON CLEAN E 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, glasses inside and outside, and any other part of the works which may require it; remove all marks, blemishes, stains and defects from joinery fittings and decorated surfaces generally, polish door furniture and bright parts of metal work and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PM.	
	Total to collection	

ITEM	DESCRIPTION	KES
	GENERAL SPECIFICATIONS	
A	For the full description of materials and workmanship, method of execution of the work and notes on pricing; the contractor is referred to the ministry of works general specifications for building works 1976 and any subsequent revision thereof which is issued as a separate document, and which shall be followed in all respects unless it conflicts with the general preliminaries, trade preambles or other items in these bills of quantities, in which case the contents of the bills of quantities shall apply	
	TRAINING LEVY	
B	The contractors 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 0.25% of the contract sum on all contracts more than KSHS 50,000/= in value and its tender must include for all costs arising or resulting there from.	
	MATERIALS ON SITE	
C	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 PM. Tits is to include the materials of main contractor, nominated sub-contractors and nominated suppliers.	
	HOARDING	
D	The contractor shall enclose the site or part of the works under construction with a hoarding 2400mm high consisting of iron sheets on 100x50mm timber posts firmly secured on at 1800mm centres with two 75x50mm 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 site.	
	CONTRACTOR'S SUPERINTENDENT/SITE AGENT	
E	The contractor shall keep constantly on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give its 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 P.M. and such directions shall be deemed to have been given to the contractor in accordance with the Conditions of Contract	
Total to collection		

SUMMARY PAGE FOR PARTICULAR AND GENERAL PRELIMINARIES

Total from page	19
Total from page	20
Total from page	21
Total from page	22
Total from page	23
Total from page	24
Total from page	25
Total from page	26
Total from page	27
Total from page	28
Total from page	29
Total from page	30
Total from page	31
Total from page	32
Total from page	33
Total from page	34

Total carried to Preliminaries Summary (KES)

CONDITIONS OF CONTRACT

CONDITIONS OF CONTRACT

1.0 Definitions

“Employer” or the **“Procuring entity”** as defined in the Public Procurement Regulations (i.e. Central or local Government administration, Universities, public Institutions and Corporations, etc) 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.

“The Intended Completion Date” is the date on which it is intended that the Contractor shall complete the works. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order.

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

“Plant” is any integral part of the works that shall have a mechanical, electrical, chemical, or biological function.

“Project Manager” is the person named in the Appendix to Conditions of Contract (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the works and administering the Contract and shall be an "Architect" or a "Quantity Surveyor" registered under the Architects and Quantity Surveyors Act Cap 525 or an "Engineer" registered under Engineers Registration Act Cap 530.

“Site” is the area defined as such in the Appendix to Condition of Contract.

“Site Investigation Reports” are those reports that may be included in the tendering documents which are factual and interpretative about the surface and subsurface conditions at the site.

“Specifications” means the specifications of the works included in the Contract and any modification or addition made or approved by the Project Manager.

“Start Date” is the latest date when the Contractor shall commence execution of the works. It does not necessarily coincide with the site possession date(s).

“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 Project Manager, which varies the works

“The Works” are what the contract requires the contractor to construct, Install, and turnover to the Employer, as defined in the Appendix to the Conditions of Contract.

2.0 Interpretation

2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way round. Headings have no significance. Words have their normal meaning in English Language unless specifically defined. The Project Manager will provide instructions clarifying queries about these Conditions of Contract.

2.2 If sectional completion is specified in the Appendix to Conditions of Contract, reference in the Conditions of Contract to the works, the Completion Date and the Intended Completion Date apply to any section of the works (other than references to the Intended Completion Date for the whole of the works).

2.3 The following documents shall constitute the Contract documents and shall be interpreted in the following order of priority:

- (i) Agreement
- (ii) Letter of Acceptance.
- (iii) Contractor's Tender,
- (iv) Appendix to Conditions of Contract,
- (v) Conditions of Contract,
- (vi) Specifications,
- (vii) Drawings,
- (viii) Bill of Quantities.
- (ix) Any other document listed in the Appendix to Conditions of Contract as forming part of the Contract.

Immediately after the execution of the Contract, the Project Manager shall furnish both the Employer and the Contractor with two copies each of all the Contract documents. Further, as and when necessary the Project Manager shall furnish the Contractor (always with a copy to the Employer) with three (3) copies of such further drawings or details or descriptive schedules as are reasonably necessary either to explain or amplify the Contract drawings or to enable the Contractor to carry out and complete the works in accordance with these Conditions.

3 Language and Law

- 3.1 Language of the Contract and the law governing the Contract shall be English Language and the Laws of Kenya Respectively unless otherwise stated.
Except where otherwise specifically stated the Project Manager will decide contractual matters between the employer and the contractor in the role representing the Employer.

4.0 Project Manager's Decision

- 4.1 Except where otherwise specifically stated, the Project Manager will decide contractual matters between the Employer and the Contractor in the role representing the employer

5.0 Delegation.

- 5.1 The Project Manager may delegate any of its duties and responsibilities to other person after notifying the Contractor.

6.0 Communications

- 6.1 Communication between parties shall be effective only when in writing. A notice shall be effective only when it is delivered.

7. Subcontracting.

- 7.1 The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations.

8 Other Contractors:

- 8.1 The Contractor shall cooperate and share the site with other contractors, public authorities, utilities etc. as listed in the Appendix to Conditions of Contract and also with the Employer, as per the directions of Project Manager. The Contractor shall also provide facilities and services for them. The Employer may modify the said List of Other Contractors etc., and shall notify the Contractor of any such modification.

9 Personnel:

- 9.1 The Contractor shall employ the key personnel named in the Qualification Information, to carry out the functions stated in the said Information or other personnel approved by the Project Manager. The Project Manager will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are substantially equal to or better than those of the personnel listed in the Qualification Information. If the Project Manager asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the site within seven days and has no further connection with the work in the Contract.

10. The Works

- 10.1 The Contractor shall construct and install the Works in accordance with the specifications and drawings. 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 Project Manager, and complete them by the Intended Completion Date.

11. Safety and Temporary Works.

- 11.1 The Contractor shall be responsible for the design of temporary works. However before erecting the same, he shall submit its designs including specifications and drawings to the Project Manager and to any other relevant third parties for their approval. No erection of temporary works shall be done until such approvals are obtained.

- 11.2 The Project Manager's approval shall not alter the Contractor's responsibility for design of the Temporary works and all drawings prepared by the Contractor for the execution of the temporary or permanent works, shall be subject to prior approval by the Project Manager before they can be used.
- 11.3 The Contractor shall be responsible for the safety of all activities on the site.

12.0 Discoveries:

- 12.1 Anything of historical or other interest or of significant value unexpectedly discovered on site shall be the property of the Employer. The Contractor shall notify the Project Manager of such discoveries and carry out the Project Manager's instructions for dealing with them.

13.0 Work Program:

- 13.1 Within the time stated in the Appendix to Conditions of Contract, the Contractor shall submit to the Project Manager for approval a program showing the general methods, arrangements, order, and timing for all the activities in the works. An Update of the program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.

The Contractor shall submit to the Project Manager for approval an updated program at intervals no longer than the period stated in the Appendix to Conditions of Contract. If the Contractor does not submit an updated program within this period, the Project Manager may withhold the amount stated in the said Appendix from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue program has been submitted. The Project Manager's approval of the programme shall not alter the Contractor's obligations. The contractor may revise the program and submit it to the Project Manager again at any time. A revised program shall show the effect of Variations and Compensation Event:

14 Possession of Site.

- 14.1 The Employer shall give possession of all parts of the site to the contractor. If possession of a part is not given by the date stated in the appendix to Conditions of Contract, the Employer will be deemed to have delayed the start of the relevant activities, and this will be a Compensation Event

15. Access to Site

- 15.1 The Contractor shall allow the project Manager and any other person authorized by the Project Manager, 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.

16. Instructions

- 16.1 The Contractor shall carry out all instructions of the project Manager, which are in accordance with the Contract

17. Extension or Acceleration of Completion Date

- 17.1 The Project Manager shall extend the Intended Completion date if a Compensation Event occurs or a variation is issued which makes it impossible for completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost. The Project Manager shall decide whether and by how much to extend the Intended Completion date within 21 days of the Contractor asking the Project Manager in writing for a decision upon the effect of a compensation Event or Variation and submitting full supporting information. If the Contractor has failed to file early warning of a delay or has failed to cooperate in dealing with a delay, the delay caused by such failure shall not be considered in assessing the new (extended) completion date.
- 17.2 No bonus for early completion of the works shall be paid to the Contractor by the Employer.

18.0 Management Meeting.

- 18.1 A contract management meeting shall be held monthly and attended by the Project Manager and the Contractor. Its business shall be to review the plans for the remaining work and deal matters raised in accordance with the early warning

procedure. The Project Manager shall record minutes of the management meetings and provide copies of the same to those attending the meeting and the employer. The responsibilities for the parties for action to be taken shall be decided by the Project Manager either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

19 Early Warning:

- 19.1 The Contractor shall warn the Project Manager at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price or delay the execution of the works. The Project Manager may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The contractor as soon as reasonably possible shall provide the estimate.
- 19.2 The Contractor shall cooperate with the Project Manager in making and considering proposals on how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instructions of the Project Manager.

20 Defects

- 20.1 The Project Manager shall inspect the Contractor's works and notify the Contractor of any defects that are found. Such inspection shall not affect the Contractor's responsibilities. The Project Manager may instruct the contractor to search for a defect and to uncover and test any work that the Project Manager 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.
- 20.2 The Project Manager shall give notice to the Contractor of any defects before the end of the Liability Period, which begins at Completion, and is defined in the Appendix to Conditions of Contract. The defects Liability period shall be extended for as long as defects remain to be corrected.
- 20.3 Every time notice of a defect is given, the Contractor shall correct the notified defect within the length of time specified by the Project Manager's notice. If the Contractor has not corrected a defect within the time specified in the project Manager's notice, the project Manager 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.

21. Bills of Quantities

- 21.1 The Bills of Quantities shall contain items for the construction, installation, testing and commissioning of the work to be done by the Contractor. The Contractor will be paid for the quantity of the work done at the rate in the Bills of Quantities for each item.
- 21.2 If the final quantity of the work done differs from the quantity in the Bills of Quantities for the particular item by more than 25 percent and provided the change exceeds 1 percent of the Initial Contract price, the project Manager shall adjust the rate to allow for the change.
- 21.3 If requested by the project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the Bills of Quantities.

22. Variations:

- 22.1 All variations shall be included in update programs produced by the Contractor.
- 22.2 The Contractor shall provide the Project Manager with a quotation for carrying out the variations when requested to do so. The Project Manager shall assess the quotation, which shall be given within seven days of the request or within any longer period as may be stated by the Project Manager and before the Variation is ordered.
- 22.3 If the work in the variation corresponds with an item description in the Bills of Quantities and if in the opinion of the Project Manager, the quantity of work is not above the limit stated in Clause 21.2 or the timing of its execution does not cause the cost per unit of quantity to change, the rate in the Bills of Quantities shall be used to calculate the value of the variation. If the cost per unit of quantity changes, or if the nature or timing of the works in the variation does not correspond with items in the Bills of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.

- 22.4 If the nature or timing of the variation does not correspond with items in the Bills of Quantities, the quotation by the contractor shall be in the form of new rates for the relevant item of Works.
- 22.5 If the Project Manager decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the variation shall be treated as a Compensation Event.
- 22.6 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.
- 22.7 When the program is update, the Contractor shall provide the Project Manager with an updated cash flow forecast.

23. Payment Certificates, Currency of Payments and Advance Payments:

- 23.1 The Contractor shall submit to the project Manager monthly applications for payment giving sufficient details of the work done and materials on site and the amounts which the Contractor considers himself to be entitled to. The Project Manager shall check the monthly application and certify the amount to be paid to the Contractor within 14days. The value of work executed and payable shall be determined by the project Manager.
- 23.2 The value of work executed shall comprise the value of the quantities of the items in the Bills of Quantities completed, materials delivered on site, variations and compensation events, such materials shall become the property of the Employer once the Employer has paid the Contractor for their value. Thereafter, they shall not be removed from site without the Project Manager's instructions except for use upon the works.
- 23.3 Payment shall be adjusted for deductions for retention. The Employer shall pay the Contractor the amounts certified by the Project Manager within 30 days of the date of issue of each certificate. If the employer makes a late payment, the Contractor shall be paid simple interest on the late payment in the next payment. Interest shall be calculated on the basis of number of days delayed at a rate three percentage points above the Central Bank of Kenya's average rate for base lending prevailing as of the first day the payment becomes overdue.
- 23.4 If an amount certified is increased in a later certificate or as a result of an award by an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.
- 23.5 Items of the works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.
- 23.6 The Contract price shall be stated in Kenya Shillings. All payments to the Contractor shall be made in Kenya Shillings and foreign currency in the proportion indicated in the tender, or agreed prior to the execution of the contract agreement and indicated therein. The rate of exchange for the calculation of the amount of foreign currency payment shall be the rate of exchange indicated in the appendix to conditions of contract. If the contractor indicated foreign currencies for payment other than the currencies of the countries of origin of related goods and services. The Employer reserves the right to pay the equivalent at the time of payment in the currencies of the countries of such goods and services. The employer and the Project Manager shall be notified promptly by the Contractor of a changes in the expected foreign currency requirements of the contractor during the execution of the works as indicated in the Schedule of Foreign Currency Requirements and the foreign and local currency portions of the balance of the contract price shall then be amended by agreement between Employer and the Contractor in order to reflect appropriately such changes.
- 23.7 In the event that an advance payment is granted the following shall apply: -
- a) On signature of the Contract, the Contractor shall at its request, and without furnishing proof of expenditure, be entitled to an advance of 10% (ten percent) of the original amount of the Contract. The advance shall not be subject to retention money.
 - b) No advance payment may be made before the Contractor has submitted proof of the establishment of deposit or a directly liable guarantee satisfactory to the Employer in the amount of the advance payment. The guarantee shall be in the same currency as the advance.
 - c) Reimbursement of the lump sum shall be made by deductions from the interim payments and where applicable from the balance owing to the Contractor. Reimbursement shall begin when the amount of the sums due under the Contract reaches 20% of the original amount of the Contract. It shall have been completed by the time 80% of this amount is reached.

The amount to be paid by way of successive deductions shall be calculated by means of the formula: -

$$R = \frac{A(X^1 - X^{11})}{80 - 20}$$

Where:

- R = the amount to be reimbursed.
- A = the amount of the advance which has been granted.
- X¹ = the amount of proposed cumulative payments as a percentage of the original amount of the Contract. This figure will exceed 20% but not exceed 80%
- X¹¹ = the amount of the previous cumulative payments as a percentage of the original amount of the Contract. This figure will be below 80% but not less than 20%

- b) With each reimbursement the counterpart of the directly liable guarantee may be reduced accordingly.

24. Compensation Events:

24.1 The following issues shall constitute Compensation Events: -

- a) The Employer does not give access to a part of the site by the site Possession Date stated in the appendix to Conditions of Contract.
- b) The Employer modifies the list of other Contractors, etc., in a way that affects the work of the Contractor under the Contract.
- c) The Project Manager orders a delay or does not issue drawings, specifications or instructions required for the execution of the work on time.
- d) The Project Manager instructs the contractor to uncover or carry out additional tests upon the work, which is then found to have no defects.
- e) The Project Manager unreasonably does not approve a subcontract to be let.
- f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to tenderer (including the site investigation reports), from information available publicly and from visual inspection.
- g) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Employer or additional work required for safety or other reasons.
- h) Other contractors, public authorities, utilities or the Employer does not work within the dates and other constraints stated in the contract, and they cause a delay or extra cost to the contractor.
- i) The effects on the contractor of any of the Employer's risks.
- j) The Project Manager unreasonably delays issuing a certificate of completion.
- k) Other compensation events described in the contract or determined by the Project Manager shall apply.

24.2 If a compensation event would cause additional cost or would prevent the works being completed before the Intended Completion Date, the Contract Price shall be increased and / or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended..

24.3 As soon as the information demonstrating the effect of each compensation effect upon the Contractor's forecast cost has been provided by the contractor, it shall be assessed by the Project Manager, and the contract price shall be adjusted accordingly. If the contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project manager will assume that the contractor will react competently and promptly to the event.

- 24.4 The Contractor shall not be entitled to compensation to the extent that the employer's interests are adversely affected by the Contractor not having given early warning or not having co-operated with the Project Manager.
- 24.5 Prices shall be adjusted for fluctuations in the cost of input only if provided for in the Appendix to Conditions of Contract.
- 24.6 The Contractor shall give written notice to the Project Manager of its intention to make a claim within thirty days after the event giving rise to the claim has first arisen. The claim shall be submitted within thirty days thereafter.

Provided always that should the event giving rise to the claim of continuing effect, the Contractor shall submit an interim claim within the said thirty days and a final claim within thirty days of the end of the event giving rise to the claim.

25. Price Adjustment

- 25.1 The Project Manager shall adjust the Contract Price if taxes, duties and other levies are changed between the date 30 days before the submission of tenders for the Contract and the date of Completion. The adjustment shall be the change in the amount of tax payable by the Contractor.
- 25.2 The Contract Price shall be deemed to be based on exchange rates current at the date of tender submission in calculating the cost to the Contractor of materials to be specifically imported (by express provisions in the Contract Bills of Quantities or specifications) for permanent incorporation in the works. Unless otherwise stated in the Contract, if at any time during the period of the Contract exchange rates shall be varied and this shall affect the cost to the Contractor of such materials, then the Project Manager shall assess the varying amount from time to time and the amount so assessed shall be added to or deducted from the Contract Price as the case may be.
- 25.3 Unless otherwise stated in the Contract, the Contract Price shall be deemed to have been calculated in the manner set out below and in sub-clauses 25.4 and 25.5 and shall be subject to adjustment in the events specified hereunder: -
- (i) The prices contained in the Contract Bills of Quantities shall be deemed to be based upon the rates of wages and other emoluments and expenses as determined by the Joint Building Council (JBC) and set out in the schedule of rates issued 30 days before the date of submission of tenders. A copy of schedule used by the contractor in its pricing shall be attached in the appendix to Conditions of Contract.
 - (ii) Upon JBC determining that any of the said rates of wages or other emoluments and expenses are increased or decreased, then the contract price shall be increased or decreased by the amount assessed by the Project Manager based on the difference, expressed as a percentage, between the rates set out in the schedule of basic rates issued 30 days before the date for submission of tenders and the rate published by the JBC and applied to the quantum of labour incorporated within the amount of work remaining to be executed at the date of publication of such increase or decrease.
 - (iii) No adjustment shall be made in respect of changes in the rates of wages and other emoluments and expenses which occur after the date of completion except during such other period as may be granted as an extension of time under clause 17 of these conditions.
- 25.4 The prices contained in the Contract Bills of Quantities shall be deemed to be based upon the basic prices of materials to be permanently incorporated in the works as determined by the JBC and set out in the schedule of basic rates issued 30 days before the date for submission of tenders. A copy of the schedule used by the contractor in its pricing shall be attached in the appendix to conditions of contract.
- 25.5 Upon the JBC determining that any of the said basic prices are increased or decreased then the Contract Prices shall be increased or decreased by the amount to be assessed by the Project Manager based upon the difference between the price set out in the schedule of basic rates issued 30 days before the date for submission of tenders and the rate published by the JBC and applied to the quantum of relevant materials which have not been taken into account in arriving at the amount of any interim certificate under clause 23 of these conditions of contract issued before the date of publication of such increase or decrease.

- 25.6 No adjustment shall be made in respect of changes in basic prices of materials which occur after date for Completion except during such other period as may be granted as extension of time under clause 17 of these conditions.
- 25.7 The provisions of sub-clause 25.1 to 25.2 herein shall not apply in respect of any materials included in the schedule of basic rates.

26.0 Retention

- 26.1 The Employer shall retain from each payment due to the Contractor the proportion stated in the Appendix to Conditions of Contract until Completion of the whole of the works, half the total amount retained shall be repaid to the Contractor and the remaining half when the Defects Liability Period has passed and the Project Manager has certified that all defects notified to the Contractor before the end of this period have been Corrected.

27. Liquidated Damages

- 27.1 The Contractor shall pay liquidated damages to the Employer at the rate stated in the Appendix to conditions of Contract for each day that the actual completion date is later than the intended completion date. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not alter the Contractor's liabilities.
- 27.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rate specified in Clause 23.30.

28. Securities.

- 28.1 The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a reputable bank acceptable to the Employer, and denominated in Kenya Shillings. The Performance Security shall be valid until a date 30 days beyond the date of issue of the Certificate of Completion.

29. Day works:

- 29.1 If applicable, the Day Works rates in the Contractor's tender shall be used for small additional amounts of work only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.
- 29.2 All works to be paid for as Day Works shall be recorded by the Contractor on Forms approved by the Project Manager- Each completed form shall be verified and signed by the Project Manager within two days of the works being done.
- 29.3 The contractor shall be paid for day-works subject to obtaining signed Day-works forms

30. Liability and Insurance

- 30.1 From the Start Date until the Defects Correction Certificate has been issued, the following are the Employer's risks:
- (a) The risk of personal injury, death or loss of or damage to property (excluding the works, plant, materials and equipment), which are due to: -
 - (i) Use or occupation of the site by the works or for the purpose of the works, which is the unavoidable result of the *works*, or
 - (ii) Negligence, breach of statutory duty or interference with any legal right by the people employed by or contracted to him except the contractor.
 - (b) The risk of damage to the works, plant, materials, and equipment to the extent that it is due to a fault of the employer or in employer's design, or due to war or radioactive contamination directly affecting the place where the works are being executed.

- 30.2 From the Completion Date until the Defects Correction Certificate has been issued, the risk of loss of or damage to the works, plant and materials is the Employer's risk except loss or damage due to:-
- (a) a defect which existed on or before the Completion date.
 - (b) An event occurring before the completion date, which was not itself, the Employer's risk.
 - (c) The activities of the contractor on the site after the completion date.
- 30.3 From the start date until the defects correction certificate has been issued, the risks of personal injury, death and loss of or damage to property (including, without limitation, the works, plant, material and equipment) which are not Employer's risk are contractor's risks
- The Contractor shall provide, in the joint names of the Employer and the contractor, insurance cover from the start date to the end of the Defects Liability Period, in the amounts stated in the Appendix to Conditions of Contract for the following events:-
- (a) loss of or damage to the works, plant and materials.
 - (b) loss of or damage to equipment.
 - (c) loss of or damage to property (except the works, plant, materials and equipment) in connection with the contract and
 - (d) personal injury or death.
- 30.4 Policies and certificates for insurance shall be delivered by the Contractor to the Project Manager for the Project Manager's approval before the state date. All such insurance shall provide for compensation required to rectify the loss or damage incurred.
- 30.5 If the Contractor does not provide any of the policies and certificates required, the Employer may effect the insurance which the contractor should have provided and recover the premiums from payments otherwise due to the contractor or, if no payment is due, the payment of the premiums shall be a debt due.
- 30.6 Alterations to the terms of insurance shall not be made without the approval of the Project Manager. Both parties shall comply with any conditions of insurance policies.

31. Completion and Taking over,

- 31.1 Upon deciding that the works are complete, the Contractor shall issue a written request to the Project Manager to issue a certificate of completion of the works. The Employer shall take over the site and the works within seven (7) days of the Project Manager's issuing a Certificate of Completion.

32. Final Account:

- 32.1 The contractor shall issue the Project Manager with a detailed account of the total amount that the Contractor considers payable to him by the Employer under the Contract before the end of the Defects Liability period. The Project Manager shall issue a Defects 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 Project Manager shall issue within 30 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 Project Manager shall decide on the amount payable to the Contractor and issue a Payment Certificate. The Employer shall pay the Contractor the amount due in the Final Certificate within 60 days.

33. Termination:

- 33.1 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 when no stoppage of work is shown on the current program and the stoppage has not been authorized by the Project Manager;

- (b) the Project Manager instructs the Contractor to delay the progress of the works, and the instruction is not withdrawn within 30 days;
 - (c) the Contractor is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
 - (d) a payment certified by the Project Manager is not paid by the Employer to the Contractor within 30 days (for Interim Certificate) or 60 days (for Final Certificate) of issue.
 - (e) The Project Manager 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 determined by the Project Manager;
 - (f) The Contractor does not maintain a security, which is required.
- 33.2 When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under Clause 33.1 above, the Project Manager shall decide whether the breach is fundamental or not.
- 33.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.
- 33.4 If the Contract is terminated, the Contractor shall stop work immediately, make the site safe and secure, and leave the site as soon as reasonably possible. The Project Manager shall immediately thereafter arrange for a meeting for the purpose of taking record of the works executed and materials, foods, equipment and temporary buildings on site.

34. Payment upon Termination:

- 34.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the work done and materials ordered and delivered to site up to the date of the issue of the certificate. Additional liquidated damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor the difference shall be a debt payable by the Contractor.
- 34.2 If the contract is terminated for the employer's convenience or because of a fundamental breach of contract by the employer, the Project Manager shall issue a certificate for the value of work done, materials on site, the reasonable cost of removal of equipment from the site repatriation of the Contractor's personnel employed solely on the works, and the Contractor's costs of protecting and securing the works.
- 34.3 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 the site, plant, equipment and temporary works.
- 34.4 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 Project Manager may in writing specify, any temporary buildings, plant, machinery, appliances, goods or materials belonging to or hired by him and in default the Employer may without being responsible for any loss or damage remove and dispose of the same and the proceeds less all costs incurred shall be to the credit of the Contractor.

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 therefore the Project Manager 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.

35 Release from Performance:

- 35.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Project Manager shall certify that the Contract has been frustrated. The Contractor shall make the site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it.

36. Corrupt gifts and payments, of commission:

The Contractor shall not:-

- a) Offer or give or agree to give to any person in the service of the Employer any gift 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 obtaining or execution of tits contract for the employer or for showing or forbearing to show favour or disfavour to any person in relation to tits or any other contract for the Employer.
- (b) Enter into tits or any other contract with the Employer in connection with which commission has been paid or agreed to be paid by him or on its behalf or to its knowledge, unless before the Contract is made particulars of any such commission and of the terms and conditions of any agreement for the payment thereof have been disclosed in writing to the Employer.
- (c) Any breach of tits Condition by the Contractor or by anyone employed by him or acting on its behalf (whether with or without the knowledge of the Contractor) shall be an offence under the provisions of the Public Procurement Regulations issued under the exchequer and Audit Act Cap 412 of the Law of Kenya.

37. Settlement of Disputes:

- 37.1 In case any dispute or difference shall arise between the Employer or the Project Manager on its behalf and the Contractor, either during the progress or after the completion or termination of the works such dispute shall be notified in writing by either party to the other with a request to submit it to arbitration and to concur in the appointment of an Arbitrator within thirty days of the notice. The dispute shall be referred 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 or Vice Chairman of any of the following professional institutions:-

- (i) Architectural Association of Kenya
- (ii) Institute of Quantity Surveyors of Kenya
- (iii) Association of Consulting Engineers of Kenya
- (iv) Chartered Institute of Arbitrators (Kenya branch)
- (v) Institution of Engineers of Kenya

on the request of the applying party. The institution written to first by the aggrieved party shall take precedence over all other institutions.

- 37.2 The arbitration may be on the Construction of tits contract or any matter or thing whatsoever nature arising there under or in connection therewith, including any matter or thing left by tits Contract to the discretion of the Project Manager, or the withholding by the Project Manager of any certificate to which the Contractor may claim to be entitled to or the measurement and valuation referred to in clause 23.0 of these conditions, or the rights and liabilities of the parties subsequent to the termination of Contract.
- 37.3 Provided that no arbitration proceedings shall be commenced on any dispute or difference where notice of a dispute or difference has not been given by the applying party within ninety days of the occurrence or discovery of the matter or issue giving rise to the dispute.
- 37.4 Notwithstanding the issue of a notice as stated above, the arbitration of such a dispute or difference shall not commence unless an attempt has in the first instance been made by the parties to settle such dispute or difference amicably with or without the assistance of third parties. Proof of such attempt shall be required.
- 37.5 Notwithstanding anything stated herein, the following matters may be referred to arbitration before the practical completion of the works or abandonment of the works or termination of the Contract by either party
- (i) The appointment of a replacement Project Manager upon the said person ceasing to act.
 - (ii) Whether or not the issue of an instruction by the Project Manager is empowered by these Conditions.
 - (iii) Whether or not a certificate has been improperly withheld or is not in accordance with these Conditions.
 - (iv) Any dispute or difference arising in respect of war risks or war damage.

- 37.6 All other matters shall only be referred to arbitration after the completion or alleged completion of the works or termination or alleged termination of the Contract, unless the employer and the Contractor agree otherwise.
- 37.7 The Arbitrator shall, without prejudice to the generality of its powers, have powers to direct such measurements, computation, tests or valuations as may in its opinion be desirable in order to determine the rights of the parties and assess and award any sums which ought to have been the subject of or included in any certificate.
- 37.8 The Arbitrator shall, without prejudice to the generality of its powers, have power to open up, review and revise any certificate, opinion, decision, requirement or notice and to determine all matters in dispute which shall be submitted to him in the same manner as if no such certificate, opinion, decision, requirement or notice had been given.
- 37.9 The award of such Arbitrator shall be final and binding upon the parties.

Appendix to conditions of contract

1. Clause 37 is deleted and substituted with the following: -

a) Settlement of Disputes

In case any dispute or difference shall arise between the Employer or the Project Manager on its behalf and the Contractor, either during the progress or after the completion or termination of the works such dispute shall be notified in writing by either party to the other with a request to submit it to a **competent law courts**

b). Alternative Dispute Resolution

It shall be a condition that no dispute shall be referred to the laws courts unless and until the matter has been dealt with through Alternative Dispute Resolution (ADR) mechanism.

- (i) The person or persons to conduct the Alternative Dispute shall be agreed upon between the parties.
- (ii) The Alternative Dispute Resolution shall involve Reconciliation, Mediation or Adjudication

Item	Description	KES
	<u>Table of Contents</u>	
	1. Definitions	
	2. Interpretation	
	3. Language and law	
	4. Project Manager's Decisions	
	5. Delegation	
	6. Communications	
	7. Subcontracting	
	8. Other contractors	
	9. Personnel	
	10. Works	
	11. Safety and Temporary Works	
	12. Discoveries	
	13. Work program	
	14. Possession of Site.....	
	15. Access to Site	
	16. Instructions	
	17. Extension or Acceleration of Completion Date	
	18. Management Meetings	
	19. Early Warning	
	20. Defects	
	21. Bills of Quantities	
	22. Variations	

Item	Description	KES
	23. Payment certificates 24. Compensation Events 25. Price Adjustments 26. Retention 27. Liquidated Damages 28. Securities 29. Day Works 30. Liability and Insurance 31. Completion and Taking over 32. Final Account 33. Termination 34. Payment upon Termination 35. Release from Performance 36. Corrupt Gifts and Payment of Commissions Appendix to conditions of contract Clauses 1. Dispute resolution 2. Alternative Dispute Resolution	

Item	Description	KES
	<u>APPENDIX TO CONDITIONS OF CONTRACT</u> The Employer is: Name: Vice Chancellor, Chuka University P.O. Box 109 - 060400, CHUKA Name of Authorized Representative: Deputy Vice Chancellor (AFP&D), Chuka University, P.O. BOX 109 – 60400, CHUKA. Telephone: +254 61304004. The Project Manager is: - Name: University Architect (Moses Kirimi Tel. 0721- 218525) Address P.O. Box 109- 60400, Chuka. . Name of Authorized Representative: Name: University Quantity Surveyor (Elias Nyaga Tel. 0722- 670935) Address P.O. Box 109- 60400, Chuka The Works consist of: Construction of Single Storey Offices to completion 1. Clause 2.2 (Sectional Completion) - the work shall be constructed in one phase unless ordered otherwise by the Project Manager - Completion date shall be 20 weeks from date of site possession 2. Clause 8.0 (Other contractors to share site) - Any contractor that the Project Manager may Nominate 3. Clause 13.0 (Works program) - (i) to be provided within 7 days of site possession. (ii) Updated program to be supplied monthly. (iii) Amount to withdraw from next payment for non-submission of updated program - 10% of valuation certificate. 4. Clause 14 (Site possession) - To be agreed with Project Manager 5. Clause 20 (Defects liability Period) - Six months from date of completion date 6. Clause 23 (Interim certificates) - (i) Valuation done – Monthly	

Item	Description	KES
	- (ii) Period of honouring certificate – 60 days	
	- (iii) Advance payment – shall not apply	
7. Clause 26 (Retention money)	- (i) Percentage retained – 10%	
	- (ii) Limit of retention – 5% of contract price	
8. Clause 27 (Liquidated damages)	- At the rate of KES 1,000/- per week or part thereof	
9. Clause 24.5 (Fluctuations)	- Shall not apply	
10. Clause 25.2 (Materials to be specifically imported) -	Exchange rate is KES 110 per US\$	
11. Clause 28 (performance security)	5 % of the contract price	
12. Clause 30 (Liability and insurance)	- Minimum cover for other properties is Kenya shillings one million	
	- Minimum cover for other people is Kenya shillings one million	

Collection page for Conditions of Contract

Total from page 58

Total from page 59

Total from page 60

Total from above

Total carried to Summary for Conditions of Contract

PREAMBLES AND PRICING NOTES

PREAMBLES AND PRICING NOTES

A. GENERALLY

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

B. MANUFACTURERS' NAMES

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

C. WALLING

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 first grade in accordance with the latest grading rules of the Kenya Government.

Where Mahogany is specified, it refers to prime grade only. The Contractor may with the approval of the Project Manager; use either Msharagi or Mvule 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, labelling all keys, and for fixing to hardwood, softwood, concrete or block work.

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 domestic sub-contractor.

A. PLASTERWORK AND OTHER FINISHES

All finishing 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, it 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 premium quality and applied in accordance with the manufacturers’ instructions unless specified in these Bills of Quantities.

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.

PRELIMINARIES SUMMARY

KES

Total from page (Instructions to bidders)

Total from page (Particular and General Preliminaries)

Total from page (Conditions of contract)

Total to grand summary page for preliminaries

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	NDAGANI CHIEFS' OFFICES				
	<u>SUBSTRUCTURES</u> <u>(ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear the site of all grasses, shrubs and cart away the arising and burn	208	sm		
B	Cut small trees and grab up the root, chop into manageable portions and dispose off as directed (girth not exceeding 400mm diameter)	1	no		
C	Cut big trees and grab up the root, chop into manageable portions and dispose off as directed (girth exceeding 400mm diameter)	1	no		
	<u>Excavations and earthworks</u>				
	<u>Stripping</u>				
D	Excavate oversite to remove vegetable top soil 150mm thick, load wheel and cart away to temporary spoils approximately 50 metres away.	208	sm		
E	Excavate oversite to reduce levels average 1200mm thick	1500	cm		
	<u>Trench excavation</u>				
F	Excavate foundation trenches depth not exceeding 1.5 metres from reduced level	46	cm		
G	Return fill in and ram imported red materials soil or murrum or hardcore	38	cm		
H	Load and cart away excavation materials	1550	cm		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>Substructures continued</u>				
	Excavations and earthworks continued				
A	Load wheel away and level on site as directed on site	70	cm		
	Blinding				
B	50mm thick concrete 1:4:8 mix blinding in trenches	2	cm		
	Strip concrete				
C	Vibrated reinforced concrete 1:2:4 mix in trenches	6	cm		
	Subwall				
D	200mm thick natural quarry stone Subwalling in mortar 1:4 mix	66	sm		
	Form work				
	Sawn form work to: -				
E	: edges 150 - 225mm	114	lm		
F	: edges 75 - 150mm	57	lm		
	Reinforcement				
G	10mm diameter high tensile square twisted bar reinforcement	169	kg		
	BRC				
H	Fabric mesh reinforcement ref. No. 66 with 150mm side and head laps	126	sm		
	Hardcore				
I	200mm thick hardcore fill hand compacted in 150mm layers	126	sm		
	Blinding				
J	50mm thick sand or murram blinding to surfaces of hardcore	126	sm		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	<u>Insecticide</u> Treat the surfaces of blinded hardcore with Termidor' insecticide as per manufacturer's printed instructions or other equal and approved insecticide	126	sm		
B	<u>Ground slab</u> 100mm thick ground slab in concrete 1:3:6 mix	126	sm		
C	<u>Damp proof course</u> 150mm thick polythene sheeting damp proof course	56	lm		
D	Allow a sum of two hundred and fifty thousand for extra foundation works, retaining walls and levelling	1	Item		
Total to collection					

SUB - STRUCTURES COLLECTION PAGE

Total from page 1

Total from page 2

Total from above

Total carried to summary for sub - structures

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>SUPERSTRUCTURES</u>				
	<u>External wall</u>				
A	150mm thick natural stone walling in mortar 1:4 mix	146	sm		
B	Raking cutting to 150mm thick stone walling	26	lm		
C	Fill in the eaves with broken stone bedded in mortar 1:4 mix	28	lm		
	<u>Internal walls</u>				
D	150mm thick natural stone walling in mortar 1:4 mix	30	sm		
	<u>Ring Beam</u>				
E	Sawn form work to sides and soffites of ring beam	31	sm		
F	10mm diameter high tensile square twisted bar reinforcement	138	kg		
G	6mm diameter round mild steel stirrups	35	kg		
G	Vibrated reinforced concrete 1:2:4 mix in ring beam	2	cm		
	<u>Steel posts</u>				
H	3100x3x75mm diameter ungalvanised steel posts with one end welded with pinning rags and the other spit and drilled to receive rafters including benching 400mm deep with and including concrete 1:2:4 mix	12	no		
	<u>Stairs and ramp</u>				
	<i>Vinrated reinforced concrete 1:2:4 mix in</i>				
J	150 mmm thick landings	9	sm		
K	150mm thick sloping staircase string and risers	4	cm		
L	Ditto landings	9	sm		
Total to Summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	Formwork				
A	Sloping soffits of stairs string	18	sm		
B	Edges of risers (edge 150 - 225mm)	128	lm		
C	Stair string waist cut to profile (300 - 375mm)	24	LM		
D	Edges of slab (edge 150 - 225mm)	82	sm		
	Tiling				
E	300x300mm precast concrete eurocon tiles bedded into existing screed	44	sm		
F	Ditto in treads and risers	10	sm		
	Steel balustrading				
	<i>All in standard hollow sections</i>				
	<i>Standard sections 50x2mm thick vertical member at 1000mm centres, bottom and top rail, 2 number 25mm diameter middle members all welded flush including rounding and smothering edges.</i>				
G	Size 1000mm high	75	LM		
	ROOFING				
	Roof construction				
	(All timber shall be well cured sawn cypress treated with approved wood preservative)				
	<i>The following in 7 number trusses spanning approximately 8 metres including hoisting approximately 3 metres from ground level and maintaining in position until fixing.</i>				
H	100x50mm rafters	117	lm		
J	100x50mm tie beam	82	lm		
K	100x50mm struts and ties	75	lm		
	End of trusses				
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	<u>Purlins</u> 75x50mm purlins	155	lm		
B	<u>Wall plate</u> 100x50mm sawn podo wall plate including hoop iron fixing brackets bedded onto wall	46	lm		
C	<u>Fascia board</u> 200x25mm wrot podocarpus fascia board with one labour	49	lm		
D	<u>Roof covering</u> Gauge 28 IT 5 prepainted iron sheeting	165	sm		
E	Gauge 28 matching ridge capping	23	lm		
F	<u>Doors</u> Standard purpose made steel metal door size	5	no		
	<u>Windows</u> The following in standard steel sections casements including cutting, pinning rugs, approved 10mm diameter round bars burglar proofing and factory priming with 2 coats of red oxide primer.				
G	1500x1200mm side hung casement in two openable lights	4	no		
H	2000x1200mm side hung casement in two openable and one fixed light	1	no		
J	<u>Stays and fasteners</u> Standard approved brass fasteners	10	no		
K	Standard approved brass stays	10	no		
L	<u>Glazing</u> 3mm thick clear sheet glass and glazing to metal with putty (panes 0 - 0.1sm)	9	sm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	4mm thick obscure sheet glass and glazing to metal with putty (panes 0 - 0.1sm)	1	sm		
	<u>Window cills</u>				
B	125x50mm thick concrete 1:2:4 mix window cill cast in situ once throated and weathered on top including forming drainers in and including screed 1:3 steel trowelled smooth with cement / red oxide paste	9	lm		
	<u>Jambs</u>				
C	Make good 150mm wide jambs of windows and doors with mortar 1:3 mix including forming all necessary moulds	50	lm		
	FINISHES				
	Plaster				
D	12mm thick plaster in cement/lime/sand 1:1:4 mix to natural stone walling steel trowelled smooth with cement/ lime 1:1 paste	191	sm		
	External pointing				
E	Dress smoothly natural stone walling and point all the joints with neat recessed joints including applying 2 coats of bituminous paint to approval	131	sm		
	Render				
F	12mm thick render 1:1:4 mix to natural stone walling finished with smooth steel trowel	23	sm		
G	Hack concrete ring beam and plinth and 12mm thick render 1:1:4 mix finished with smooth steel trowel	32	sm		
H	Form groove in wet render including making good	64	lm		
J	25mm thick screed 1:4 mix finished to receive ceramic tiles	126	sm		
	<u>Screed</u>				
	300x300mm glazed ceramic tiles bedded with cement	126	sm		
	<u>Skirting</u>				
J	100mm wide ditto skirting	66	lm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>Ceiling finish</u>				
A	50x50mm sawn cypress bandering at 600mm centres	548	lm		
B	75x25 mm coved cypress cornice	56	lm		
C	8mm thick chip board ceiling finished with v-joints	126	sm		
D	Extra over the ceiling finish for 600x600mm access trap	2	no		
	<u>PAINTING</u>				
	Prepared and apply: -				
E	3 coats emulsion paint to plastered surfaces internally	191	sm		
F	3 coats emulsion paint to rendered surfaces externally	55	sm		
G	2 coats of bituminous paint externally	32	sm		
H	3 coats gloss paint to timber internally and externally	11	sm		
J	3 coats gloss enamel paint to timber surfaces externally	49	sm		
K	Ditto to metal surfaces internall and externally (over glass and burglarproofing)	20	sm		
	Electrical works				
L	Allow a provisional sum of Kenya shillings fifty thousand for electrical works	1	item		
Total to summary					

Total carried to Grand Summary

Total for sub-structures from page 3

Total from page 4

Total from page 5

Total from page 6

Total from page 7

Total from page 8

Sub total

VAT

Total to Grand Summary

=====

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	NDAGANI ELDER'S OFFICES				
	<u>SUBSTRUCTURES</u> <u>(ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear the site of all grasses, shrubs and cart away the arising and burn	307	sm		
B	Cut small trees and grab up the root, chop into manageable portions and dispose off as directed (girth not exceeding 400mm diameter)	1	no		
C	Cut big trees and grab up the root, chop into manageable portions and dispose off as directed (girth exceeding 400mm diameter)	1	no		
	<u>Excavations and earthworks</u>				
	<u>Stripping</u>				
D	Excavate oversite to remove vegetable top soil 150mm thick, load wheel and cart away to temporary spoils approximately 50 metres away.	307	sm		
E	Excavate oversite to reduce levels average 200mm thick, load,wheel and cart away and spread on site as directed	47	cm		
	<u>Trench excavation</u>				
F	Excavate foundation trenches depth not exceeding 1.5 metres from reduced level	68	cm		
G	Return fill in and ram imported red materials soil or murrum or hardcore	56	cm		
H	Load wheel away and level on site as directed on site	104	cm		
	<u>Blinding</u>				
J	50mm thick concrete 1:4:8 mix blinding in trenches	3	cm		
	<u>Strip concrete</u>				
K	Vibrated reinforced concrete 1:2:4 mix in trenches	9	cm		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	<u>Subwall</u> 200mm thick natural quarry stone Subwalling in mortar 1:4 mix	98	sm		
B	<u>Form work</u> Sawn form work to: - : edges 150 - 225mm	169	lm		
C	: edges 75 - 150mm	84	lm		
D	<u>Reinforcement</u> 10mm diameter high tensile square twisted bar reinforcement	250	kg		
E	<u>BRC</u> Fabric mesh reinforcement ref. No. 66 with 150mm side nad head laps	187	sm		
F	<u>Hardcore</u> 200mm thick hardcore fill hand compacted in 150mm layers	187	sm		
G	<u>Blinding</u> 50mm thick sand or murram blinding to surfaces of harcove	187	sm		
H	<u>Insecticide</u> Treat the surrfaces of blinded harcove with 'Termidor' insecticide as per manufacturer's printed instructions or other equal and approved insecticide	187	sm		
J	<u>Ground slab</u> 100mm thick ground slab in concrete 1:3:6 mix	187	sm		
K	<u>Damp proof course</u> 150mm thick polythene sheeting damp proof course	83	lm		
L	Allow a sum of three hundred thousand for extra	1	Item		
Total to collection					

SUB - STRUCTURES COLLECTION PAGE

Total from page 1

Total from above

Total carried to summary for sub - structures

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>SUPERSTRUCTURES</u>				
	<u>External wall</u>				
A	150mm thick natural stone walling in mortar 1:4 mix	216	sm		
B	Raking cutting to 150mm thick stone walling	38	lm		
C	Fill in the eaves with broken stone bedded in mortar 1:4 mix	38	lm		
	<u>Internal walls</u>				
	150mm thick natural stone walling in mortar 1:4 mix	46	sm		
	<u>Ring Beam</u>				
D	Sawn form work to sides and soffites of ring beam	46	sm		
E	10mm diameter high tensile square twisted bar reinforcement	204	kg		
F	6mm diameter round mild steel stirrups	52	kg		
G	Vibrated reinforced concrete 1:2:4 mix in ring beam	3	cm		
	<u>ROOFING</u>				
	<u>Roof construction</u> (All timber shall be well cured sawn cypress treated with approved wood preservative) <i>The following in ... number trusses spanning approximately 8 metres including hoisting approximately 3 metres from ground level and maintaining in position until fixing.</i>				
H	100x50mm rafters	173	lm		
J	100x50mm tie beam	121	lm		
K	100x50mm struts and ties	111	lm		
	End of trusses				
	<u>Purlins</u>				
L	75x50mm purlins	229	lm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	<u>Wall plate</u> 100x50mm sawn cypress wall plate including hoop iron fixing brackets bedded onto wall	38	lm		
B	<u>Fascia board</u> 200x25mm wrot cypress fascia board with one labour	66	lm		
C	<u>Roof covering</u> Gauge 28 I.T. 5 prepainted iron sheeting	244	sm		
D	Gauge 28 matching ridge capping	38	lm		
E	<u>Doors</u> Standard purpose made steel metal door size 900x2500mm complete with frame, locking devices, factory priming and applying 3 coats of gloss enamel paint all to approval	4	no		
F	Ditto double door size 1600x2500mm ditto	1	no		
	<u>Windows</u> The following in standard steel sections casements including cutting, pinning rugs, approved 10mm diameter round bars burglar proofing and factory priming with 2 coats of red oxide primer.				
G	1500x1200mm side hung casement in two openable lights	3	no		
H	2000x1500mm side hung casement in two openable and one fixed light	9	no		
J	<u>Stays and fasteners</u> Standard approved brass fasteners	24	no		
K	Standard approved brass stays	24	no		
L	<u>Glazing</u> 3mm thick clear sheet glass and glazing to metal with putty (panes 0 - 0.1sm)	25	sm		
M	4mm thick obscure sheet glass and glazing to metal with putty (panes 0 - 0.1sm)	7	sm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	<u>Window cills</u> 125x50mm thick concrete 1:2:4 mix window cill cast in situ once throated and weathered on top including forming drainers in and including screed 1:3 steel trowelled smooth with cement / red oxide paste	24	lm		
B	<u>Jambs</u> Make good 150mm wide jambs of windows and doors with mortar 1:3 mix including forming all necessary moulds	97	lm		
	FINISHES				
C	<u>Plaster</u> 12mm thick plaster in cement/lime/sand 1:1:4 mix to natural stone walling steel trowelled smooth with cement/ lime 1:1 paste	283	sm		
D	<u>External pointing</u> Dress smoothly natural stone walling and point all the joints with neat recessed joints including applying 2 coats of bituminous paint to approval	194	sm		
E	<u>Render</u> 12mm thick render 1:1:4 mix to natural stone walling finished with smooth steel trowel	34	sm		
F	Hack concrete ring beam and plinth and 12mm thick render 1:1:4 mix finished with smooth steel trowel	48	sm		
G	Form groove in wet render including making good	95	lm		
H	<u>Screed</u> 25mm thick screed 1:4 mix finished to receive ceramic tiles	187	sm		
	300x300mm glazed ceramic tiles bedded with cement paste and pointed in tile grout	187	sm		
J	<u>Skirting</u> 100mm wide ditto skirting	98	lm		
K	<u>Ceiling finish</u> 50x50mm sawn cypress bandering at 600mm	811	lm		
L	75x25 mm coved cypress cornice	83	lm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>Ceiling finish</u>				
A	8mm thick chip board ceiling finished with v-joints	187	sm		
B	Extra over the ceiling finish for 600x600mm access trap door	3	no		
	<u>PAINTING</u>				
	Prepared and apply: -				
C	3 coats emulsion paint to plastered surfaces internally	282	sm		
D	3 coats emulsion paint to rendered surfaces externally	81	sm		
E	2 coats of bituminous paint externally	48	sm		
F	3 coats gloss paint to timber internally and externally	16	sm		
G	3 coats gloss enamel paint to timber surfaces external	73	sm		
H	Ditto to metal surfaces internal and externally (over glass and burglarproofing)	30	sm		
	Hall entrance foyer				
J	Allow a sum of fifty thousand for landscaping at the entrance foyer of the hall	1	item		
	Pondium				
K	Allow a sum of one hundred thousand for extra works at the raised pondium of the hall.	1	item		
	Electrical works				
L	Allow a sum of one hundred thousand for electrical works	1	Item		
Total to summary					

SUMMARY PAGE FOR ELDERS OFFICES

Total for sub-structures from page 3
Total from page 4
Total from page 5
Total from page 6
Total from page 7

Sub total

VAT

Total carried to Grand Summary

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
NDAGANI DAIRY GROUP OFFICES					
<u>SUBSTRUCTURES</u>					
<u>(ALL PROVISIONAL)</u>					
<u>Site clearance</u>					
A	Clear the site of all grasses, shrubs and cart away the arising and burn	152	sm		
B	Cut small trees and grab up the root, chop into manageable portions and dispose off as directed (girth not exceeding 400mm diameter)	1	no		
C	Cut big trees and grab up the root, chop into manageable portions and dispose off as directed (girth exceeding 400mm diameter)	1	no		
<u>Excavations and earthworks</u>					
<u>Stripping</u>					
D	Excavate oversite to remove vegetable top soil 150mm thick, load wheel and cart away to temporary spoils approximately 50 metres away.	152	sm		
E	Excavate oversite to reduce levels average 200mm thick, load, wheel and cart away and spread on site as directed	23	cm		
<u>Trench excavation</u>					
F	Excavate foundation trenches depth not exceeding 1.5 metres from reduced level	33	cm		
G	Return fill in and ram imported red materials soil or murrum or hardcore	28	cm		
H	Load wheel away and level on site as directed on site	51	cm		
<u>Blinding</u>					
J	50mm thick concrete 1:4:8 mix blinding in trenches	2	cm		
<u>Strip concrete</u>					
K	Vibrated reinforced concrete 1:2:4 mix in trenches	8	cm		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>Substructures continued</u>				
	<u>Subwall</u>				
A	200mm thick natural quarry stone Subwalling in mortar 1:4 mix	71	sm		
	<u>Form work</u>				
	Sawn form work to: -				
B	: edges 150 - 225mm	83	lm		
C	: edges 75 - 150mm	41	lm		
	<u>Reinforcement</u>				
D	10mm diameter high tensile square twisted bar reinforcement	177	kg		
	<u>BRC</u>				
E	Fabric mesh reinforcement ref. No. 66 with 150mm side and head laps	93	sm		
	<u>Hardcore</u>				
F	200mm thick hardcore fill hand compacted in 150mm layers	93	sm		
	<u>Blinding</u>				
G	50mm thick sand or murram blinding to surfaces of hardcore	93	sm		
	<u>Insecticide</u>				
H	Treat the surfaces of blinded hardcore with 'Termidor' insecticide as per manufacturer's printed instructions or other equal and approved insecticide	93	sm		
	<u>Ground slab</u>				
J	100mm thick ground slab in concrete 1:3:6 mix	93	sm		
	<u>Damp proof course</u>				
K	150mm thick polythene sheeting damp proof course	77	lm		
L	Allow a sum of Kenya Shillings fifty thousand for extra foundation works	1	Item		
Total to collection					

SUB - STRUCTURES COLLECTION PAGE

Total from page 1

Total from page 2

Total carried to summary for sub - structures

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>SUPERSTRUCTURES</u>				
	<u>External wall</u>				
A	150mm thick natural stone walling in mortar 1:4 mix	107	sm		
B	Raking cutting to 150mm thick stone walling	19	lm		
C	Fill in the eaves with broken stone bedded in mortar 1:4 mix	40	lm		
	<u>Internal walls</u>				
D	150mm thick natural stone walling in mortar 1:4 mix	70	sm		
	<u>Ring Beam</u>				
E	Sawn form work to sides and soffites of ring beam	33	sm		
F	10mm diameter high tensile square twisted bar reinforcement	145	kg		
G	6mm diameter round mild steel stirrups	64	kg		
H	Vibrated reinforced concrete 1:2:4 mix in ring beam	2	cm		
	<u>ROOFING</u>				
	<u>Roof construction</u> (All timber shall be well cured sawn cypress treated with approved wood preservative) <i>The following in number trusses spanning approximately 8 metres including hoisting approximately 3 metres from ground level and maintaining in position until fixing.</i>				
J	100x50mm rafters	86	lm		
K	100x50mm tie beam	60	lm		
L	100x50mm struts and ties	55	lm		
	End of trusses				
	<u>Purlins</u>				
M	75x50mm purlins	114	lm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	<u>Wall plate</u> 100x50mm sawn cypress wall plate including hoop iron fixing brackets bedded onto wall	40	lm		
B	<u>Fascia board</u> 200x25mm wrot cypress fascia board with one labour	36	lm		
C	<u>Roof covering</u> Gauge 28 IT 5 prepainted iron sheeting	121	sm		
D	Gauge 28 matching ridge capping	17	lm		
E	<u>Doors</u> Standard purpose made steel metal door size 900x2500mm complete with frame, locking devices, factory priming and applying 3 coats of gloss enamel paint all to approval	4	no		
F	Ditto double door size 1500x2500mm ditto	1	no		
G	Ditto double door size 2500x3000mm ditto	1	no		
H	<u>Door frames</u> 100x50mm rebated wrot cypress door frame with two labours	10	lm		
J	<u>Architraves</u> 25x12mm moulded wrot cedar architrave to approval	10	lm		
K	<u>Quadrants</u> 25x12mm moulded wrot cedar quadrants to approval	10	lm		
L	<u>Door leaf</u> 50mm thick Semi solid core flush door size 900x2100mm comprising externally finished with moulded mahogany veneer	2	no		
M	<u>Fixing Cramps</u> Standard frame fixing steel cramps to approval	12	no		
N	<u>Hinges</u> 100mm pressed steel butt hinges	3	prs		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	Mortice lock 2 lever mortice lock as 'Union' or other equal and approved	2	no		
	<u>Windows</u> The following in standard steel sections casements including cutting, pinning rugs, approved 10mm diameter round bars burglar proofing and factory priming with 2 coats of red oxide primer.				
B	1500x1200mm side hung casement in two openable lights	4	no		
C	2000x1200mm side hung casement in two openable and one fixed light	2	no		
	<u>Stays and fasteners</u>				
D	Standard approved brass fasteners	12	no		
E	Standard approved brass stays	12	no		
	<u>Glazing</u>				
F	3mm thick clear sheet glass and glazing to metal with putty (panes 0 - 0.1sm)	10	sm		
G	4mm thick obscure sheet glass and glazing to metal with putty (panes 0 - 0.1sm)	2	sm		
	<u>Window cills</u>				
H	125x50mm thick concrete 1:2:4 mix window cill cast in situ once throated and weathered on top including forming drainers in and including screed 1:3 steel trowelled smooth with cement / red oxide paste	15	lm		
	<u>Jambs</u>				
J	Make good 150mm wide jambs of windows and doors with mortar 1:3 mix including forming all necessary moulds	40	lm		
	FINISHES				
	Wall finishes				
	Plaster				
K	12mm thick plaster in cement/lime/sand 1:1:4 mix to natural stone walling steel trowelled smooth with cement/ lime 1:1 paste	247	sm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	External pointing Dress smoothly natural stone walling and point all the joints with neat recessed joints including applying 2 coats of bituminous paint to approval	100	sm		
B	Render 12mm thick render 1:1:4 mix to natural stone walling finished with smooth steel trowel	7	sm		
C	Hack concrete ring beam and plinth and 12mm thick render 1:1:4 mix finished with smooth steel trowel	23	sm		
D	Form groove in wet render including making good	47	lm		
E	Screed 25mm thick screed 1:4 mix finished to receive ceramic tiles	93	sm		
F	300x300mm glazed ceramic tiles bedded with cement paste and pointed in tile grout	93	sm		
G	Skirting 100mm wide ditto skirting	48	lm		
H	Ceiling finish 50x50mm sawn cypress brandering at 600mm centres both ways	401	lm		
J	75x25 mm coved cypress cornice	41	lm		
K	8mm thick chip board ceiling finished with v-joints	93	sm		
L	Extra over the ceiling finish for 600x600mm access trap door	3	no		
	PAINTING				
M	Prepared and apply: - 3 coats emulsion paint to plastered surfaces internally	247	sm		
N	3 coats emulsion paint to rendered surfaces externally	47	sm		
P	2 coats of bituminous paint externally	23	sm		
Q	3 coats gloss paint to timber internally and externally	8	sm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	3 coats gloss enamel paint to timber surfaces externally	36	sm		
B	Ditto to metal surfaces internall and externally (over glass and burglarproofing)	20	sm		
	Electrical works				
C	Allow a provisional sum of Kenya shillings one hundred thousand for electrical works	1	item		
Total to summary					

Summary

Total for sub-structures from page 3

Total from page 4

Total from page 5

Total from page 6

Total from page 7

Total from page 8

Sub total

VAT

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	Police station				
	<u>SUBSTRUCTURES</u> <u>(ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear the site of all grasses, shrubs and cart away the arising and burn	283	sm		
B	Cut small trees and grab up the root, chop into manageable portions and dispose off as directed (girth not exceeding 400mm diameter)	1	no		
C	Cut big trees and grab up the root, chop into manageable portions and dispose off as directed (girth exceeding 400mm diameter)	1	no		
	<u>Excavations and earthworks</u>				
	<u>Stripping</u>				
D	Excavate oversite to remove vegetable top soil 150mm thick, load wheel and cart away to temporary spoils approximately 50 metres away.	283	sm		
E	Excavate oversite to reduce levels average 200mm thick, load,wheel and cart away and spread on site as directed	43	cm		
	<u>Trench excavation</u>				
F	Excavate foundation trenches depth not exceeding 1.5 metres from reduced level	61	cm		
G	Return fill in and ram imported red materials soil or murrum or hardcore	52	cm		
H	Load wheel away and level on site as directed on site	95	cm		
	<u>Blinding</u>				
J	50mm thick concrete 1:4:8 mix blinding in trenches	5	cm		
	<u>Strip concrete</u>				
K	Vibrated reinforced concrete 1:2:4 mix in trenches	17	cm		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	<u>Subwall</u> 200mm thick natural quarry stone Subwalling in mortar 1:4 mix	132	sm		
	<u>Form work</u> Sawn form work to: -				
B	: edges 150 - 225mm	154	lm		
C	: edges 75 - 150mm	76	lm		
D	<u>Reinforcement</u> 10mm diameter high tensile square twisted bar reinforcement	329	kg		
E	<u>BRC</u> Fabric mesh reinforcement ref. No. 66 with 150mm side nad head laps	173	sm		
F	<u>Hardcore</u> 200mm thick hardcore fill hand compacted in 150mm layers	173	sm		
G	<u>Blinding</u> 50mm thick sand or murram blinding to surfaces of harcure	173	sm		
H	<u>Insecticide</u> Treat the surrfaces of blinded harcure with Termidor' insecticide as per manufacturer's printed instructions or other equal and	173	sm		
J	<u>Ground slab</u> 100mm thick ground slab in concrete 1:3:6 mix	173	sm		
K	<u>Damp proof course</u> 150mm thick polythene sheeting damp proof course	153	lm		
L	Allow a sum of Kenya Shillings one hundred andd fifty thousand for extra foundation works	1	Item		
Total to collection					

SUB - STRUCTURES COLLECTION PAGE

Total from page 1

Total from page 2

Total carried to summary for sub - structures

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>SUPERSTRUCTURES</u>				
	<u>External wall</u>				
A	150mm thick natural stone walling in mortar 1:4 mix	199	sm		
B	Raking cutting to 150mm thick stone walling	35	lm		
C	Fill in the eaves with broken stone bedded in mortar 1:4 mix	56	lm		
	<u>Internal walls</u>				
D	150mm thick natural stone walling in mortar 1:4 mix	260	sm		
	<u>Ring Beam</u>				
E	Sawn form work to sides and soffites of ring beam	61	sm		
F	10mm diameter high tensile square twisted bar reinforcement	270	kg		
G	8mm diameter round mild steel stirups	120	kg		
H	Vibrated reinforced concrete 1:2:4 mix in ring beam	5	cm		
	<u>Suspended slab</u>				
J	Sawn formwork to soffites of suspended slab	58	sm		
K	Sawn formwork to edges of suspended slab	20	sm		
L	Vibrated reinforced concrete 1:2:4 mix in 150mm thick suspended slab	58	sm		
M	Plaster 1:4 mix in suspended soffits steel trowelled smooth	58	sm		
N	Prepare and apply 3 coats vinyl matt emulsion paint to plastered soffites internally	58	sm		
P	10mm diameter Steel reinforcement	1044	kg		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	Trusses continued				
	<u>ROOFING</u>				
	<u>Roof construction</u>				
	(All timber shall be well cured sawn cypress treated with approved wood preservative)				
	<i>The following in 7 number trusses spanning approximately 8 metres including hoisting approximately 3 metres from ground level and maintaining in position until fixing.</i>				
A	100x50mm rafters	160	lm		
B	100x50mm tie beam	112	lm		
C	100x50mm struts and ties	102	lm		
	End of trusses				
	<u>Purlins</u>				
D	75x50mm purlins	212	lm		
	<u>Wall plate</u>				
E	100x50mm sawn cypress wall plate including hoop iron fixing brackets bedded onto wall	54	lm		
	<u>Fascia board</u>				
F	200x25mm wrot cypress fascia board with one labour	54	lm		
	<u>Roof covering</u>				
G	Gauge 28 IT 5 prepainted iron sheeting	225	sm		
H	Gauge 28 matching ridge capping	25	lm		
	<u>Doors</u>				
J	Standard purpose made steel metal door size 900x2500mm complete with frame, locking devices, factory priming and applying 3 coats of gloss enamel paint all to approval	12	no		
K	Ditto double door size 1500x2500mm ditto	1	no		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	Reinforced steel door 900 x 2100mm comprising 50 x 25 x 3mm thick square hollow section stiles, top rail, middle rail, bottom rail and braces, 3mm thick flat sheet plate welded onto both faces of the door, 3no. Pin type hinges, 3no. pad bolts fabricated from 3mm thick flat bars and 12mm diameter high tensile bar, complete with 75 x 75 x 3mm thick steel angle framing and pinning rugs all welded together and primed with one coat of red oxide primer	2	no		
B	Door frames 100x50mm rebated wrot cypress door frame with two labours	60	lm		
C	Architraves 25x12mm moulded wrot cedar architrave to approval	60	lm		
D	Quadrants 25x12mm moulded wrot cedar quadrants to approval	60	lm		
E	Door leaf 50mm thick Semi solid core flush door size 900x2100mm comprising externally finished with moulded mahogany veneer	12	no		
F	Fixing cramps Standard frame fixing steel cramps to approval	60	no		
G	Hinges 100mm pressed steel butt hinges	18	prs		
H	Mortice lock 2 lever mortice lock as 'Union' or other equal and approved	18	no		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>Windows</u> The following in standard steel sections casements including cutting, pinning rugs, approved 10mm diameter round bars burglar proofing and factory priming with 2 coats of red oxide primer.				
A	1500x1200mm side hung casement in two openable lights	6	no		
B	2000x500mm purpose made grill window fabricated from 16mm diameter steel bars at 100mm centres vertically and one number middle bar horizontally.	4	no		
	<u>Stays and fasteners</u>				
C	Standard approved brass fasteners	12	no		
D	Standard approved brass stays	12	no		
	<u>Glazing</u>				
E	3mm thick clear sheet glass and glazing to metal with putty (panes 0 - 0.1sm)	10	sm		
F	4mm thick obscure sheet glass and glazing to metal with putty (panes 0 - 0.1sm)	1	sm		
	<u>Window cills</u>				
G	125x50mm thick concrete 1:2:4 mix window cill cast in situ once throated and weathered on top including forming drainers in and including screed 1:3 steel trowelled smooth with cement / red oxide paste	10	lm		
	<u>Jambs</u>				
H	Make good 150mm wide jambs of windows and doors with mortar 1:3 mix including forming all necessary moulds	85	lm		
	FINISHES				
	Wall finishes				
	Plaster				
J	12mm thick plaster in cement/lime/sand 1:1:4 mix to natural stone walling steel trowelled smooth with cement/ lime 1:1 paste	650	sm		
K	Ditto but finished to receive wall tiles	67	sm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	External pointing Dress smoothly natural stone walling and point all the joints with neat recessed joints including applying 2 coats of bituminous paint to approval	199	sm		
B	Wall tiling 200x300mm glazed ceramic wall tiling including pointing with tile grout and chrome corner and edge strips.	69	sm		
C	Render 12mm thick render 1:1:4 mix to natural stone walling finished with smooth steel trowel	7	sm		
D	Hack concrete ring beam and plinth and 12mm thick render 1:1:4 mix finished with smooth steel trowel	43	sm		
E	Form groove in wet render including making good	87	lm		
F	Screed 25mm thick screed 1:4 mix finished to receive ceramic tiles	173	sm		
G	300x300mm glazed ceramic tiles bedded with cement paste and pointed in tile grout	173	sm		
H	Skirting 100mm wide ditto skirting	90	lm		
J	Ceiling finish 50x50mm sawn cypress brander at 600mm centres both ways	500	lm		
K	75x25 mm coved cypress cornice	51	lm		
L	8mm thick chip board ceiling finished with v-joints	115	sm		
M	Extra over the ceiling finish for 600x600mm access trap door	3	no		
	PAINTING				
N	Prepared and apply: - 3 coats emulsion paint to plastered surfaces internally	650	sm		
P	3 coats emulsion paint to rendered surfaces externally	49	sm		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	Painting continued 2 coats of bituminous paint externally	43	sm		
B	3 coats gloss paint to timber internally and externally	15	sm		
C	3 coats gloss enamel paint to timber surfaces externally	67	sm		
D	Ditto to metal surfaces internall and externally (over glass and burglarproofing)	22	sm		
E	Electrical works Allow a provisional sum of Kenya shillings one hundred and fifty thousand for electrical works	1	item		
F	Plumbing works Allow a provisional sum of Kenya shillings two hundred thousand for electrical works	1	Item		
G	Entrance foyer Allow a sum of Kena shillings one hundred thousand for the entrance foyer.	1	item		
Total to summary					

Summary

Total for sub-structures from page3

Total from page 4

Total from page 5

Total from page 6

Total from page 7

Total from page 8

Total from above

Sub total

VAT

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
KK MWENDWA WATER PROJECT OFFICES					
<u>SUBSTRUCTURES</u>					
<u>(ALL PROVISIONAL)</u>					
<u>Site clearance</u>					
A	Clear the site of all grasses, shrubs and cart away the arising and burn	237	sm		
B	Cut small trees and grab up the root, chop into manageable portions and dispose off as directed (girth not exceeding 400mm diameter)	1	no		
C	Cut big trees and grab up the root, chop into manageable portions and dispose off as directed (girth exceeding 400mm diameter)	1	no		
<u>Excavations and earthworks</u>					
<u>Stripping</u>					
D	Excavate oversite to remove vegetable top soil 150mm thick, load wheel and cart away to temporary spoils approximately 50 metres away.	237	sm		
E	Excavate oversite to reduce levels average 200mm thick, load,wheel and cart away and spread on site as directed	37	cm		
<u>Trench excavation</u>					
F	Excavate foundation trenches depth not exceeding 1.5 metres from reduced level	52	cm		
G	Return fill in and ram imported red materials soil or murrum or hardcore	43	cm		
H	Load wheel away and level on site as directed on site	80	cm		
<u>Blinding</u>					
J	50mm thick concrete 1:4:8 mix blinding in trenches	2	cm		
<u>Strip concrete</u>					
K	Vibrated reinforced concrete 1:2:4 mix in trenches	7	cm		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>SUPERSTRUCTURES</u>				
	<u>External wall</u>				
A	150mm thick natural stone walling in mortar 1:4 mix	167	sm		
B	Raking cutting to 150mm thick stone walling	30	lm		
C	Fill in the eaves with broken stone bedded in mortar 1:4 mix	32	lm		
	<u>Internal walls</u>				
D	150mm thick natural stone walling in mortar 1:4 mix	34	sm		
	<u>Ring Beam</u>				
E	Sawn form work to sides and soffites of ring beam	35	sm		
F	10mm diameter high tensile square twisted bar reinforcement	157	kg		
G	8mm diameter round mild steel stirrups	71	kg		
H	Vibrated reinforced concrete 1:2:4 mix in ring beam	2	cm		
	<u>Steel posts</u>				
J	3100x3x75mm diameter ungalvanised steel posts with one end welded with pinning rags and the other split and drilled to receive rafters including benching 400mm deep with and including concrete 1:2:4 mix	14	no		
	<u>ROOFING</u>				
	<u>Roof construction</u> (All timber shall be well cured sawn cypress treated with approved wood preservative) <i>The following in number trusses spanning approximately 8 metres including hoisting approximately 3 metres from ground level and maintaining in position until fixing.</i>				
K	100x50mm rafters	134	lm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	Trusses continued				
A	100x50mm tie beam	94	lm		
B	100x50mm struts and ties	86	lm		
	End of trusses				
	<u>Purlins</u>				
C	75x50mm purlins	177	lm		
	<u>Wall plate</u>				
D	100x50mm sawn cypress wall plate including hoop iron fixing brackets bedded onto wall	50	lm		
	<u>Fascia board</u>				
E	200x25mm wrot cypress fascia board with one labour	50	lm		
	<u>Roof covering</u>				
F	Gauge 28 I.T. 5 prepainted iron sheeting	188	sm		
G	Gauge 28 matching ridge capping	35	lm		
	<u>Doors</u>				
	Standard purpose made steel metal door size 900x2500mm complete with frame, locking devices, factory priming and applying 3 coats of gloss enamel paint all to approval	9	no		
	<u>Windows</u>				
	The following in standard steel sections casements including cutting, pinning rugs, approved 10mm diameter round bars burglar proofing and factory priming with 2 coats of red oxide primer.				
J	1500x1200mm side hung casement in two openable lights	7	no		
K	1200x1200mm side hung casement in two openable and one fixed light	4	no		
	<u>Stays and fasteners</u>				
L	Standard approved brass fasteners	22	no		
M	Standard approved brass stays	22	no		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>Glazing</u>				
A	3mm thick clear sheet glass and glazing to metal with putty (panes 0 - 0.1sm)	18	sm		
B	4mm thick obscure sheet glass and glazing to metal with putty (panes 0 - 0.1sm)	1	sm		
	<u>Window cills</u>				
C	125x50mm thick concrete 1:2:4 mix window cill cast in situ once throated and weathered on top including forming drainers in and including screed 1:3 steel trowelled smooth with cement / red oxide paste	16	lm		
	<u>Jambs</u>				
D	Make good 150mm wide jambs of windows and doors with mortar 1:3 mix including forming all necessary moulds	98	lm		
	FINISHES				
	Wall finishes				
	Plaster				
E	12mm thick plaster in cement/lime/sand 1:1:4 mix to natural stone walling steel trowelled smooth with cement/ lime 1:1 paste	217	sm		
	External pointing				
F	Dress smoothly natural stone walling and point all the joints with neat recessed joints including applying 2 coats of bituminous paint to approval	149	sm		
	Render				
G	12mm thick render 1:1:4 mix to natural stone walling finished with smooth steel trowel	26	sm		
H	Hack concrete ring beam and plinth and 12mm thick render 1:1:4 mix finished with smooth steel trowel	37	sm		
J	Form groove in wet render including making good	73	lm		
	<u>Screed</u>				
K	25mm thick screed 1:4 mix finished to receive ceramic tiles	143	sm		
L	300x300mm glazed ceramic tiles bedded with	143	sm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>Skirting</u>				
A	100mm wide ditto skirting	75	lm		
	<u>Ceiling finish</u>				
B	50x50mm sawn cypress brandering at 600mm	625	lm		
C	75x25 mm coved cypress cornice	64	lm		
D	8mm thick chip board ceiling finished with v-joints	143	sm		
E	Extra over the ceiling finish for 600x600mm access	2	no		
	<u>PAINTING</u>				
	Prepared and apply: -				
F	3 coats emulsion paint to plastered surfaces internally	217	sm		
G	3 coats emulsion paint to rendered surfaces externally	63	sm		
H	2 coats of bituminous paint externally	37	sm		
J	3 coats gloss paint to timber internally and externally	13	sm		
K	3 coats gloss enamel paint to timber surfaces externally	56	sm		
L	Ditto to metal surfaces internall and externally (over glass and burglarproofing)	23	sm		
	Electrical works				
M	Allow a provisional sum of Kenya shillings fifty thousand for electrical works	1	item		
Total to summary					

Total carried to Grand Summary

Total for sub-structures from page 2

Total from page 3

Total from page 4

Total from page 5

Total from page 6

Sub total

VAT

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	TOILET BLOCK				
	<i>The following in one number Toilet block (Size 6150x3250mm, 4 WCs, 2 WHBs, 2 urinal bowls)</i>				
	Site clearance				
A	Clear the site of all grasses, shrubs etc. and cart away the arising.	47	sm		
	Excavations and earth works				
	Trench excavation				
B	Excavate trenches depth not exceeding 1.5m from existing level	22	cm		
C	Extra over excavation for excavating in rock	1	cm		
	<u>Sub-wall</u>				
D	150mm thick natural stone walling in trenches bedded in mortar 1:4 mix .	18	sm		
	<u>Concrete</u>				
	<i>Vibrated reinforced concrete 1:2:4 in:-</i>				
E	Strip foundations	2	cm		
F	300x200mm slab thickenssing	11	lm		
G	100mm thick ground slab	20	sm		
	<i>Vibrated reinforced concrete 1:2:4 in:-</i>				
H	: Beams	2	cm		
J	Sawn formwork to sides of beams	20	sm		
K	Assorted sizes steel reinforcement	97	kg		
L	500 gauge polythene sheet damp proof course	42	lm		
M	150mm thick natural stone walling bedded in mortar 1:4 mix .	46	sm		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	Super wall				
A	100mm thick natural stone walling bedded in mortar 1:4 mix	15	sm		
B	Raking cutting to 150mm thick natural stone walling	5	lm		
C	Eaves filling with broken stones in mortar	12	lm		
	Ring beam				
	Form work				
D	Sawn formwork to sides and soffites of ring beam	20	sm		
	Reinforcement				
E	10mm diameter high tensile square twisted bar reinforcement	71	kg		
F	8mm mild steel bar stirrups	57	kg		
	Concrete				
	<i>Vibrated reinforced concrete 1:2:4 in:-</i>				
G	300mm thick ring beams	1	cm		
H	200mm thick concrete suspended slab	20	sm		
J	Sawn formwork to soffits of suspended slab	20	sm		
K	12mm thick plaster to soffits of suspended slab	20	sm		
L	Prepare and apply 3 coats vinyl matt emulsion paint internally	20	sm		
M	50mm thick cement sand 1:3 mix laid to fall including waterproofing cement.	20	sm		
	<u>Door</u>				
N	100x50mm rebated wrot cedar door frame	40	lm		
P	50mm thick ledged and braced standard wrot eucalyptus door size 2100x900mm comprising 100x25mm ledges and braces, and 25mm thick v-jointed matchboards	2	no		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	Hollow core flush doors size 900x2100mm	4	no		
	<u>Window</u>				
B	Standard steel casement window size 900x600mm in two lights; one fixed light glazed and two openable lights complete with all stays and fasteners	6	no		
C	4mm thick obscure glass and glazing to metal	10	sm		
D	4mm thick clear glass and glazing to metal	6	sm		
E	5mm thick obscure glass and glazing to metal	4	sm		
	<u>Ironmongery</u>				
F	Standard steel frame fixing cramps	48	no		
G	100mm pressed steel door hinges	12	pairs		
H	100mm steel pad bolt	4	no		
J	2 lever bathroom door lock as 'Union'	4	no		
K	Automatic door closer hold open power 2/3 'Union' ref. 8823	2	no		
	<u>Finishes</u>				
	<u>Walls</u>				
	<u>Plaster</u>				
L	12mm thick plaster 1:4 mix to masonry wall steel trowelled smooth with cement paste	82	sm		
	<u>Tiling</u>				
M	200x300mm ceramic wall tiles bedded onto walls with approved tile grout and pointed in white cement	30	sm		
	<u>Pointing</u>				
N	Medium dressing to natural stone walling and finish with neat recessed horizontal joints as work proceeds	40	sm		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	Floor				
	<u>Screed</u>				
A	25mm thick screed 1:3 mix finished to receive tiles	20	sm		
	<u>Floor tiles</u>				
B	300x300mm ceramic non slip tiles bedded in approved tile grout	20	sm		
C	100mm wide ceramic tile skirting ditto	42	lm		
	<u>Soffites</u>				
D	Plaster 1:4 mix steel trowelled smooth with cement paste.	20	sm		
	<u>Roof slab</u>				
E	50mm thick (average) screed 1:3 mix finished to to fall	20	sm		
	<u>Floor tiles</u>				
F	300x300mm ceramic tiles bedded in approved tile grout properly waterproofed and sloped	20	sm		
	<u>Painting</u>				
G	Prepare and apply 2 undercoats and one finishing coat gloss oil paint to plastered walls internally	52	sm		
H	Ditto soffites ditto	20	sm		
	<i>Prime knot and stop, prepare and apply 3 coats gloss oil paint to:-</i>				
J	General surfaces of timber internally	18	sm		
K	General surfaces of timber externally	3	sm		
L	General surfaces of timber internally (girth 100-200mm)	27	lm		
M	General surfaces of timber externally (girth 200-300mm)	21	lm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	Prepare and apply 3 coats of gloss oil paint to metal window externally (measured over glass)	4	sm		
B	Ditto internally	4	sm		
	<u>Wash hand basins</u>				
C	White glazed wash hand basin size 635 x 457mm complete with plastic plug and chain 20mm diameter plastic	2	no		
D	Chrome plated pillar taps as 'cobra' or other equal and approved	4	no		
E	Squatting type water closet pan	4	no		
F	50mm flush valve as 'Docol' or other equal and approved	5	no		
G	Ceramic urinal bowls fixed on walls compete with PPR flush pipes	2	no		
H	300x200x5mm plate glass mirrors fixed to walls	2	no		
J	2500 litre plastic water tank.	2	no		
	Provisional sums				
K	Allow a provisional sum of kenya shillings eighty thousand for piping and water reticulation.	1	item		
L	Allow a provisional sum of Kenya shillings fifty thousand for electrical works	1	item		
Total to collection					

SUMMARY

Total from page 1

Total from page 2

Total from page 3

Total from page 4

Total from page 5

Subtotal for one toilet _____

Allow for 2 toilet blocks

X 2

**Total to summary for 2 number Ablution blocks
carried to Grand Summary**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>VIP LATRINE SIZE 4000X5400MM</u>				
	<i>The following in one number Exhaustible VIP Pit Latrines</i>				
	<u>Site clearance</u>				
A	Clear the site of all grasses, shrubs etc and cart away the arising.	60	sm		
	<u>Excavations and earth works</u>				
	<i>Pit excavation</i>				
B	0-1.5m	24	cm		
C	1.5-3.0m	24	cm		
D	3.0 - 4.5m	9	cm		
	<u>Trench excavation</u>				
E	Excavate trenches depth not exceeding 1.5m from existing level	11	cm		
F	Extra over excavation for excavating in rock	1	cm		
G	Return fill in and ram excavated materials	8	cm		
H	Cart away the excavated materials and spread on site approximately 5m from the site	60	cm		
	<u>Sub-wall</u>				
J	150mm thick natural stone walling in trenches bedded in mortar 1:4 mix .	9	sm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<i>Vibrated reinforced concrete 1:2:4 in:-</i>				
A	:150mm thick suspended slab	11	sm		
D	:150x600mm strip foundation	20	lm		
E	Form or leave 300x200mm long drop opening	5	no		
G	Permanent sawn formwork to soffites of slab	11	sm		
H	Assorted sizes steel reinforcement	212	kg		
J	500 gauge polythene sheet damp proof course	26	lm		
	<u>Super wall</u>				
K	150mm thick natural stone walling bedded in mortar 1:4 mix .	70	sm		
L	Raking cutting to 150mm thick natural stone walling	4	lm		
M	Eaves filling with broken stones in mortar	11	lm		
	Ring beam				
	Form work				
N	Sawn formwork to sides and soffites of ring beam	7	sm		
	Reinforcement				
P	10mm diameter high tensile square twisted bar reinforcement	35	kg		
Q	8mm mild steel bar stirrups	23	kg		
	Concrete				
R	<i>Vibrated reinforced concrete 1:2:4 in:-</i> 150x200mm ring beam	15	lm		
Total to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
	<u>Roofing</u>				
A	75x50mm sawn treated cypress rafters, tie beam, struts, ties and wall plate	30	lm		
B	200x25mm wrot cypress fascia board	16	lm		
C	Gauge 28 IT 5 prepainted iron sheeting	16	sm		
	<u>Door</u>				
D	100x50mm rebated wrot cypress door frame	29	lm		
E	Ditto transome	5	lm		
F	50mm thick framed, ledged and braced standard wrot cypress door size 2100x900mm comprising 100x25mm framing, ledges and braces, and 25mm thick v-jointed matchboards	5	no		
	<u>Window</u>				
G	Standard steel casement window size 600x500mm in two lights; one fixed light glazed with 5mm thick obscure glass and the other screened with metalic fly screen complete with making good jambs	5	no		
H	4mm thick obscure glass and glazing to metal	2	sm		
J	Ditto glazing to timber with beads (ms)	1	sm		
K	25mm diameter quarter round cypress beading	12	lm		
	<u>Ironmongery</u>				
L	Standard steel frame fixing cramps	30	no		
M	100mm pressed steel door hinges	8	pairs		
N	100mm steel pad bolt	5	no		
P	75mm steel tower bolt	5	no		
	<u>Finishes</u>				
	<u>Plaster</u>				
Q	12mm thick plaster 1:4 mix to natural stone walling steel trowelled smooth with cement paste	117	sm		

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	<u>Tiling</u> 200x300mm ceramic wall tiles bedded onto walls with approved tile grout and pointed in white cement	28	sm		
B	<u>Pointing</u> Medium dressing to natural stone walling and finish with neat recessed horizontal joints as work proceeds	38	sm		
C	<u>Screed</u> 25mm thick screed 1:3 mix steel trowelled smooth with and including coloured cement paste.	22	sm		
D	<u>Floor tiles</u> 300x300mm ceramic non slip tiles bedded in approved tile grout	22	sm		
E	100mm wide ceramic tile skirting ditto	23	lm		
H	<u>Vent pipe</u> 4000x110mm diameter stabilised medium grade grey PVC vent pipe complete with holder butts and plastic cowl	2	no.		
J	<u>Painting</u> Prepare and apply 2 undercoats and one finishing coat gloss oil paint to plastered surfaces internally	48	sm		
	<i>Prime knot and stop, prepare and apply 3 coats gloss oil paint to:-</i>				
K	General surfaces of timber internally	9	sm		
L	General surfaces of timber externally	9	sm		
M	General surfaces of timber internally (girth 100-200mm)	34	lm		
N	General surfaces of timber externally (girth 200 - 300mm)	16	lm		

ITEM	DESCRIPTION	QTY	UNIT	RATE	KES
A	Prepare and apply 3 coats of gloss oil paint to metal window size 600x500mm (measured over glass)	2	sm		
B	Prepare and apply 3 coats of gloss oil paint to metal window size 600x500mm externally (measured over glass)	2	sm		
	Electrical and plumbing works				
E	Allow a provisional sum of Kenya shillings twenty thousand for electrical and plumbing works	1	item		
Total to summary					

Summary for VIP Latrine

Total from page 01

Total from page 02

Total from page 03

Total from page 04

Total from Above

Total for 1NO. Latrine Block

VAT

Item	Description	Qty	Unit	Rate	KES
	External works (All provisional)				
	FOUL DRAINAGE AND SEPTIC TANK				
A	Excavate trench average 1000mm deep but not exceeding 1.50 metres part return fill in and ram and part cart away.	100	LM		
	Pipe runs:-				
B	110mm diameter unplasticised golded brown pvc diameter pipe.	100	LM		
	Sundries.				
C	Make hole in 150mm thick quarry stone walling for large pipes and make good finished.	46	NO.		
D	Ditto in 200 walling ditto.	5	NO.		
	<u>Manholes.</u>				
	<i>The following in 23No. manholes complete with:-</i>				
	<i>(i) excavations of pits , part return fill and ram and part carry away.</i>				
	<i>(ii) concrete (1:3:6) to bases and bedding (1:2:4) to cover slabs including screed.</i>				
	<i>(iii) 200mm thick masonry walling plastered to the inside with water proofing cement.</i>				
	<i>(iv) Heavy duty plastic manhole covers and frame.</i>				
E	Rectangular manhole size 600x450x1000mm deep	20	NO.		
	Rectangular manhole size 600x450x1500mm deep	3	NO.		
	<u>Septic tank</u>				
F	Clear site of all bushes shrubs etc and cart away and burn	23	sm		
G	Pit excavation level depth not exceeding 1.5m from existing level	36	cm		
H	Pit excavation level depth 1.5 - 3.0m	24	cm		
J	150mm thick bottom slab in concrete 1:2:4 mix	10	sm		
K	150mm thick bottom slab thickenssing in concrete 1:2:4 mix	1	cm		
L	150mm quarry stone walling in mortar 1:4 mix including hoop iron every two courses	36	sm		
Total to collection					

Item	DESCRIPTION	QTY	UNIT	Rate	KES
A	Sawn formwork to soffites of suspended slab	10	sm		
B	Sawn formwork to edges of top and bottom slab (edges 75 - 150mm)	28	sm		
C	Precast concrete scum baffle size 2000mm x 150mm x 100mm thick complete with BRC ref. A142 reinforcement	1	no		
D	Precast concrete scum baffle size 2000mm x 800mm x 100mm thick complete with BRC ref. A142 reinforcement	1	no		
E	Vibrated reinforced concrete 1:2:4 mix in 150mm thick suspended slab	10	sm		
F	12mm thick plaster 1:4 mix steel trowelled smooth	36	sm		
G	25mm thick screed 1:4 mix in bottom and suspended slab	20	sm		
H	Purpose made precast concrete manhole cover size 600x450mm comprising weld mesh welded onto 25mm steel angle framing, 25mm steel angle frame bedded onto masonry complete with greasing	2	no		
J	10mm diameter high tensile reinforcement bars	70	kg		
	Inlet and Outlet Manholes <i>The following in 2 number man holes size 1000x600x800mm deep complete</i>				
K	Pit excavate depth not exceeding 1.5m from existing level	2	cm		
	Allow a sum of kenya shillings one hundred thousand for extra foul drainage and septic tank works	1	item		
Total to collection					

Item	DESCRIPTION	QTY	UNIT	Rate	KES
A	Cart away excavated material	2	cm		
B	Benching concrete 1;3;6 mix	1	cm		
C	150mm thick masonry walling in mortar 1;3 mix.	4	sm		
D	12mm thick plaster 1;5 mix	4	sm		
E	Purpose made precast concrete manhole cover size 600x450mm comprising weld mesh welded onto 25mm steel angle framing, 25mm steel angle frame bedded onto masonry complete with greasing	2	no		
F	Built in end of big pipe to manhole	4	no		
G	Mould wet benching concrete to pipe profile	2	no		
H	Formwork to edges of top slab (0-100mm)	4	lm		
J	Excavate 600mm x 1400mm deep trenches, grade bottoms and return fill and ram. End of septic tank	5	cm		
	<u>Soak pit</u>				
	<u>The following in 1 number soak pits</u>				
K	Excavate 0-1.5m	3	cm		
L	Excavate 1.5-3.0m	3	cm		
M	Excavate 3.0-4.5m	3	cm		
N	Excavate 4.5-6.0m	3	cm		
P	Extra over excavation for excavating in rock	1	cm		
Q	Spread the excavated materials on site	12	cm		
R	Return fill in and ram	1	cm		
S	Approved hardcore fill	11	cm		
Total to collection below					

Item	DESCRIPTION	QTY	UNIT	Rate	KES
A	150mm thick natural stone walling in mortar 1;4 mix	10	sm		
B	Mass concrete 1;3;6 in strip foundations	1	cm		
C	BRC mesh ref. 142	4	sm		
D	Vibrated reinforced concrete 1;2;4 in 150mm thick suspended slab	4	sm		
E	Permanent sawn formwork to suspended slab	4	sm		
F	Purpose made precast concrete manhole cover size 600x450mm comprising weld mesh welded onto 25mm steel angle framing, 25mm steel angle frame bedded onto masonry complete with greasing	1	no		
Total to collection below					

FOUL DRAINAGE AND SEPTIC TANK

Total from page 1

Total from page 2

Total from page 3

Total from above

Total to Summary

ITEM	DESCRIPTION	QTY	UNIT	Rate	KES
	Storm water drainage and Roadworks (All provisional)				
	STORM WATER DRAINAGE				
	Storm Drainage Around Buildings-(Shallow I.B.D)				
A	Excavate trench for shallow invert block drain, average 800x200mm deep, cart away excavated material to tips as directed	100	lm		
B	Ditto but not exceeding 1.5m, (av. depth 1.0m) ditto to MOW detail (50) 5329 'B'.	38	lm		
C	Provide,lay and joint 800 x 500 x 175mm Shallow invert block drain to match paving around building to detail (50)5353	30	lm		
D	Ditto but two side slabs ditto.	30	lm		
	<u>HEADWALLS</u>				
E	Provide all materials and construct head walls to detail (50) 5318 including excavations,150mm concrete base backfilling along the sides and dispose excess material.	2	no		
	<u>CULVERTS</u>				
F	Excavate trench for 300mm dia. Concrete pipe not exceeding 1.5m deep starting from ground level average depth 1.0m, backfill after laying the pipe and disposal of excess material.	7	lm		
G	Provide, lay and joint in trench; 600mm diameter concrete pipe as culvert between headwalls including 150mm concrete bed and surround (concrete 1:3:6) any necessary formwork to detail (50) 5310 'C'.	7	lm		
	LANDSCAPING AND FENCING				
H	Cultivate within landscaped area,provide and spread 100mm thick layer of red soil mixed with manure (ratio manure:red soil=1:6)	400	SM		
J	Provide and plant <i>paspalum</i> grass and maintain till well established	400	SM		
Total to collection					

ITEM	DESCRIPTION	QTY	UNIT	Rate	KES
A	Fencing 2.4M high x 14 gauge chainlink complete with 12 1/2 gauge 6x 6 strads galvanised plain wire fencing with 100x100mm precast concrete posts cranked one end at 2.5m centres including benching in concrete 1:2:4 mix surround Extra over the fencing for: -	318	lm		
B	Straining posts to match	16	no		
C	Ditto end and corner posts ditto	6	no		
D	Ditto struts appropriately moulded and connected	38	no		
E	Retaining walls Allow a sum of Kenya shillings one hundred thousand for retaining walls	1	item		
F	ACCESS ROAD AND PARKING Clear the site of all tea bushes and dispose off as directed by the P.M.	450	SM		
G	Excavate to remove vegetable soil not exceeding 0,5 m starting from stripped level and cart materials to tips as directed	450	SM		
H	Excavate to formation level ,depth not exceeding 0.5m (average depth 0.35m) from the reduced level.	160	cm		
J	Cart away excavated materials	160	cm		
K	Provide, lay and compact 150mm thick approved murram/gravel as road sub-base to 98% BS.	450	sm		
L	Trim and compact formaton to correct falls and crossfalls	450	SM		
M	Treat the surfaces of base with approved herbicide	450	SM		
N	Provide, lay and compact 150mm thick approved murram subbase	450	SM		
P	Provide and lay 60mm thick light duty precast concrete paving blocks (minimum strength 35 N/mm2)	450	sm		
Carried to collection					

ITEM	DESCRIPTION	QTY	UNIT	Rate	KES
A	KERBS AND CHANNEL Provide, lay and joint along edge of the road and parking 250 x 125mm kerb in 450 x 350mm bed and haunch (concrete mix 1:3:6) and channel size 125x100mm including any necessary formwork to detail (50)5332"B"	45	LM		
B	FOOTPATHS PAVING Excavate 300mm deep to remove vegetable soil and cart away	360	SM		
C	Provide, lay and compact 200mm thick red soil fill material	360	sm		
D	Provide and lay 600X600X50mm thick precast concrete paving slabs laid on and including 50mm thick sand bed and pointed in cement grout	360	SM		
Total carried to collection					

COLLECTION FOR ROADWORKS AND LANDSCAPING

Total from page 1

Total from page 2

Total from above

Total for road works carried to Summary

SUMMARY FOR EXTERNAL WORKS

Septic tank and foul drainage

Roadworks and landscaping

VAT

Total to Grand Summary

GRAND SUMMARY

- 1 Preliminaries from page
- 2 Chief's offices
- 3 Elders' offices
- 4 Dairy's offices
- 5 Police station
- 6 KK Water project offices
- 7 Ablution blocks
- 8 Latrine block
- 9 External works

Total Carried to form of tender

Amount in words (Kenya shillings)

Name and address of bidder

Signature Date