

LAIKIPIA



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OFFICE OF THE VICE CHANCELLOR

TENDER NO: LU/TEN/03/2018-2019:

**THE PROPOSED SCIENCE LABORATORY BLOCK
FOR LAIKIPIA UNIVERSITY MAIN CAMPUS**

CLOSING DATE:

TUESDAY, 20TH NOVEMBER 2018 AT 12:00 NOON



REPUBLIC OF KENYA

**MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING
AND URBAN DEVELOPMENT**
State Department of Public Works

BILLS OF QUANTITIES

FOR

**PROPOSED SCIENCE LABORATORIES
AT
LAIKIPIA UNIVERSITY MAIN CAMPUS**

PREPARED BY:

COUNTY WORKS OFFICER
STATE DEPARTMENT OF PUBLIC WORKS
P.O. BOX 782
NAKURU

CLIENT

THE VICE CHANCELLOR
LAIKIPIA UNIVERSITY
P.O. BOX 1100
NYAHURURU

OCTOBER 2018

REPUBLIC OF KENYA

**MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING
AND URBAN DEVELOPMENT**
State department of Public Works

**BILLS OF QUANTITIES
FOR
PROPOSED ERECTION AND COMPLETION OF SCIENCE
LABORATORIES
AT
LAIKIPIA UNIVERSITY**

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REPUBLIC OF KENYA
MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING
AND URBAN DEVELOPMENT
State department of Public Works

PROPOSED ERECTION AND COMPLETION OF SCIENCE
LABORATORIES
AT
LAIKIPIA UNIVERSITY

TENDER DOCUMENTS

Supplied as part of Contract No.....

Issued by:-
COUNTY WORKS OFFICER.
State department of Public Works
P O Box782
NAKURU.

The contract for the above mentioned works entered into this day of
200.....by the undersigned refers to these Bills of Quantities and the Ministry of Public Works
General Specification dated March, 1976 (together with any amendments issued thereto) shall be
read and construed as part of the said contract.

.....
C O N T R A C T O R

.....
THE VICE CHANCELLOR
LAIKIPIA UNIVERSITY
P.O Box 1100-20300
NYAHURURU

Date:

Date.....

Name of WitnessIn the presence of

Address.....

Signature

Date

Date:

SPECIAL NOTES

The Contractor is required to check the numbers of the pages of these Bills of Quantities and should he find any missing or in duplicate or figures indistinct he must inform the County Works officer – Nakuru County at once and have the same rectified.

Should the Contractor be in doubt about the precise meaning of any item or figure for any reason whatsoever, he must inform the County Works Officer, Ministry of Public Works, Nakuru in order that the correct meaning may be decided before the date for submission of tenders.

No liability will be admitted nor claim allowed in respect of errors in the Contractor's Tender due to mistakes in the Specifications which should have been rectified in the manner described above.

SIGNATURE PAGE AND NOTES

REPUBLIC OF KENYA



STANDARD TENDER DOCUMENT

FOR

**PROCUREMENT OF WORKS
(BUILDING AND ASSOCIATED
CIVIL ENGINEERING WORKS)**

**PUBLIC PROCUREMENT OVERSIGHT
AUTHORITY (PPOA)
P.O. BOX 30007 - 00200
NAIROBI.**

(REVISED OCTOBER 2006)

SECTION II

INSTRUCTIONS TO TENDERERS

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INSTRUCTIONS TO TENDERERS.

1. 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 percent 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) annual volume of construction work of at least 2.5 times the estimated annual cashflow for the Contract;
- (b) experience as main contractor in the construction of at least two works 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 percent complete);
- (c) proposals for the timely acquisition (own, lease, hire, etc.) of the essential equipment listed as required for the Works;
- (d) a Contract manager with at least five years' experience in works of an equivalent nature and volume, including no less than three years as Manager; and

- (e) liquid assets and/or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract, of no less than 4 months of the estimated payment flow under this 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 percent of minimum criteria 1.7 (a), (b) and (e) for an individual tenderer, and the partner in charge at least 40 percent 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 no case 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.5,000/=
- 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) Drawings

- (g) Bills of Quantities
- (h) 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, telex 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, telex or facsimile to all tenderers. Prospective tenderers shall acknowledge receipt of each addendum in writing to the Employer.
- 2.5 To give prospective tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend, as necessary, the deadline for submission of tenders, in accordance with Clause 4.2 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 sixty (60) 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 percent of the tender price
- 3.8 The format of the Tender Security should be in accordance with the form of Tender Security included in Section G - Standard forms or any other form acceptable to the Employer . Tender Security shall be valid for 30 days beyond the validity of the tender.
- 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
 - (i) 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 0.5 – 2 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 of tenders and the expiration of the period of tender validity 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 cable, 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 all Builder's Work (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuation of variations.
 - (f) The amount stated in the tender will be adjusted in accordance with the above procedure for the correction of errors and, with concurrence of the tenderer shall be considered as binding upon the tenderer. If the tenderer does not accept the corrected amount, the tender may be rejected and the Tender Security 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 or any obligation to inform the affected tenderer or tenderers of the grounds for the action.
- 6.3 The tenderer whose tender has been accepted will be notified of the award prior to expiration of the tender validity period in writing or by cable, telex or facsimile. This notification (hereinafter and in all Contract documents called the "Letter of Acceptance") will state the sum (hereinafter and in all Contract documents called the "Contract Price") 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 Within 21 days after receipt of the Letter of Acceptance, 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 specified form
- 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 Upon the furnishing by the successful tenderer of the Performance Security, the Employer will promptly notify the other tenderers that their tenders have been unsuccessful.
- 6.8 Preference where allowed in the evaluation of tenders shall not be allowed for contracts not exceeding one year (12 months)
- 6.9 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.
- 6.10 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.
- 6.11 Contract price variations shall not be allowed for contracts not exceeding one year (12 months)
- 6.12 Where contract price variation is allowed, the valuation shall not exceed 15% of the original contract price.
- 6.13 Price variation request shall be processed by the procuring entity within 30 days of receiving the request.
- 6.14 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 6.15 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.
- 6.16 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.

APPENDIX TO INSTRUCTIONS TO TENDERERS

1. **CLAUSE 1.3** – The clause is deleted
2. **CLAUSE 1.7** – Substitute – “(a) Annual volume of construction work of at least 2.5 times...” with (a) Annual volume of construction work of at least 1.0 times...”
3. **CLAUSE 3.6** – Substitute “Tenders shall remain valid for a period of 60 days...” with “Tenders shall remain valid for a period of 90 days...”
4. **CLAUSE 3.14 and 4.1- ORIGINAL** only to be submitted, **COPIES** will not be required.

SECTION III

CONDITIONS OF CONTRACT

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CONDITIONS OF CONTRACT

1. Definitions

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

“Bill of Quantities” means the priced and completed Bill of Quantities forming part of the tender.

“Compensation Events” are those defined in Clause 24 hereunder.

“The Completion Date” means the date of completion of the Works as certified by the Project Manager, in accordance with Clause 31.

“The Contract” means the agreement entered into between the Employer and the Contractor as recorded in the Agreement Form and signed by the parties including all attachments and appendices thereto and all documents incorporated by reference therein to execute, complete, and maintain the Works,

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

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

“The Contract Price” is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

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

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

“The Defects Liability Certificate” is the certificate issued by Project Manager upon correction of defects by the Contractor.

“The Defects Liability Period” is the period named in the Contract Data and calculated from the Completion Date.

“Drawings” include calculations and other information provided or approved by the Project Manager for the execution of the Contract.

“Dayworks” are Work inputs subject to payment on a time basis for labour and the associated materials and plant.

“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 the 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 Conditions of Contract.

2. Interpretation

- 2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. 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;
- (1) Agreement,
 - (2) Letter of Acceptance,
 - (3) Contractor's Tender,
 - (4) Appendix to Conditions of Contract,
 - (5) Conditions of Contract,
 - (6) Specifications,
 - (7) Drawings,
 - (8) Bill of Quantities,
 - (9) Any other documents 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.

4 Project Manager's Decisions

- 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 Delegation

- 5.1 The Project Manager may delegate any of his duties and responsibilities to others after notifying the Contractor.

6 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 the 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 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 his 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. 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. 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 program 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 Events.

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 give 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. Management Meetings

- 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 to deal with matters raised in accordance with the early warning procedure. The Project Manager shall record the minutes of management meetings and provide copies of the same to those attending the meeting and the Employer. The responsibility of the parties for actions 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 estimate shall be provided by the Contractor as soon as reasonably possible.

- 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 work 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 Defects 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 updated 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 work 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 Contractor's quotation is unreasonable, the Project Manager may order the variation and make a change to the Contract price, which shall be based on the Project Manager's own forecast of the effects of the variation on the Contractor's costs.
- 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 updated, 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 14 days. 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 Payments 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 any 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 his 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 advance 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 repaid 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%.

- d) 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 execution of the Works on time.
- (d) The Project Manager instructs the Contractor to uncover or to 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 tenderers (including the Site investigation reports), from information available publicly and from a visual inspection of the Site.

- (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 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 Work 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 information demonstrating the effect of each compensation event 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 inputs only if provided for in the Appendix to Conditions of Contract.
- 24.6 The Contractor shall give written notice to the Project Manager of his 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 net difference in the cost of such materials. Any amount from time to time 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 thereunder;
- (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 of Kenya (J.B.C.) 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 his pricing shall be attached in the Appendix to Conditions of Contract.
 - (ii) Upon J.B.C. 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 upon the difference, expressed as a percentage, between the rate set out in the schedule of basic rates issued 30 days before the date for submission of tenders and the rate published by the J.B.C. 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 17.0 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 J.B.C. 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 his pricing shall be attached in the Appendix to Conditions of Contract.
- 25.5 Upon the J.B.C. determining that any of the said basic prices are increased or decreased then the Contract Price 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 J.B.C. and applied to the

quantum of the relevant materials which have not been taken into account in arriving at the amount of any interim certificate under clause 23 of these Conditions 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 the date for Completion except during such other period as may be granted as an extension of time under clause 17.0 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. 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. On 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. Dayworks

29.1 If applicable, the Dayworks 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 work to be paid for as Dayworks 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 Work being done.
- 29.3 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks 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 Employer or by any person 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, Materials, 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 Start 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 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 authorised 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, goods, 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 the Work done, materials ordered, the reasonable cost of removal of equipment, 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 sell any such property of the Contractor, holding the proceeds less all costs incurred 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 the obtaining or execution of this or any other Contract for the Employer or for showing or forbearing to show favour or disfavor to any person in relation to this or any other contract for the Employer.
- (b) Enter into this or any other contract with the Employer in connection with which commission has been paid or agreed to be paid by him or on his behalf or to his 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.

Any breach of this Condition by the Contractor or by anyone employed by him or acting on his behalf (whether with or without the knowledge of the Contractor) shall be an offence under the provisions of the Public Procurement Regulations issued under The Exchequer and Audit Act Cap 412 of the Laws of Kenya.

37. Settlement Of Disputes

37.1 In case any dispute or difference shall arise between the Employer or the Project Manager on his 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 this Contract or on any matter or thing of whatsoever nature arising thereunder or in connection therewith, including any matter or thing left by this 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:

37.5.1 The appointment of a replacement Project Manager upon the said person ceasing to act.

- 37.5.2 Whether or not the issue of an instruction by the Project Manager is empowered by these Conditions.
- 37.5.3 Whether or not a certificate has been improperly withheld or is not in accordance with these Conditions.
- 37.5.4 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 in writing.
- 37.7 The Arbitrator shall, without prejudice to the generality of his powers, have powers to direct such measurements, computations, tests or valuations as may in his 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 his powers, have powers 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.

SECTION IV – APPENDIX TO CONDITIONS OF CONTRACT

THE EMPLOYER IS

Name: **THE VICE CHANCELLOR, LAIKIPIA UNIVERSITY**

Address: **P.O. BOX 1100 – 20300, NYAHURURU**

Name of Authorized Representative: **THE DEAN FACULTY OF SCIENCE, LAIKIPIA UNIVERSITY, P.O. BOX 1100, NYAHURURU**

Telephone:

Facsimile: _____

The Project Manager is

Name: **COUNTY WORKS OFFICER – NAKURU COUNTY , MINISTRY OF PUBLIC WORKS**

Address: **P.O. BOX 782 NAKURU**

Telephone:

Facsimile:

The name (and identification number) of the Contract is **PROPOSED ERECTION AND COMPLETION OF THREE STORIED LABORATORY BLOCK CONSISTING OF SCIENCE LABORATORIES AND ASSOCIATED OFFICE SPACE AT LAIKIPIA UNIVERISTY**

The Works consist of **ABOVE QUOTED.**

The Start Date shall be **AGREED WITH THE PROJECT MANAGER.**

The Intended Completion Date for the whole of the Works shall be **52 WEEKS** from the start date.

The following documents also form part of the Contract: **“AS LISTED IN CLAUSE 2.3 OF THE CONDITIONS OF CONTRACT”**

The Contractor shall submit a revised program for the Works within 7 days of delivery of the Letter of Acceptance.

The Site Possession Date shall be **AGREED WITH THE PROJECT MANAGER.**

The Site is located at **LAIKIPIA UNIVERSITY, MAIN CAMPUS – ALONG NAKURU – NYAHURURU ROAD APPROXIMATELY 50KM FROM GPO NAKURU.**

The Defects Liability period is **6 Months.**

Other Contractors, utilities etc., to be engaged by the Employer on the Site Include those for the execution of;

- 1.
- 2.
3. _____
4. _____

The minimum insurance covers shall be;

1. The minimum cover for insurance of the Works and of Plant and Materials in respect of the Contractor's faulty design is **NIL**
2. The minimum cover for loss or damage to Equipment is **NIL**
3. The minimum for insurance of other property is **NIL**
4. The minimum cover for personal injury or death insurance
 - For the Contractor's employees is **AS PER THE LAWS APPLICABLE**
 - And for other people is **AS PER THE LAWS APPLICABLE**

The following events shall also be Compensation Events:

1. **NONE (ONLY THOSE DEFINED IN CLAUSE 24 OF THE CONDITIONS OF CONTRACT)**
2. _____
3. _____
4. _____

The period between Program updates is _____7_____ days.

The amount to be withheld for late submission of an updated Program is **FULL CERTIFICATE**

The proportion of payments retained is _____10_____ percent.

Limit of retention 5% of the contract amount.

The Price Adjustment Clause _____ apply

The liquidated damages for the whole of the Works is **Kshs. 10,000.00** (per calendar week)

The Performance Security shall be for the following minimum amounts equivalent as a percentage of the Contract Price **5** percent (%)

The rate of exchange for calculation of foreign currency payments is **AS PER THE PREVAILING EXCHANGE RATE**

The schedule of basic rates used in pricing by the Contractor is as attached [*Contractor to attach*].

Advance Payment _____ **shall not** _____ be granted.

ADD CLAUSE 38.0

38.0 Alternative Dispute Resolution

- 38.1 In pursuant to clause 37 of these Conditions of Contract, it shall be a condition that no dispute shall be referred to arbitration unless and until the matter has been dealt with through Alternative Dispute Resolution (ADR) mechanism.
- 38.2 The person or persons to conduct the Alternative Resolution shall be agreed upon between the parties.
- 38.3 The Alternative Dispute Resolution shall involve Reconciliation, Mediation or Adjudication.

PARTICULARS OF INSERTIONS TO THE CONTRACT AGREEMENT

The following are the insertions to be made in the appendix to the Contract Agreement: -

Period of Final Measurement	6 Months from Practical completion
Defects Liability Period	6 Months from practical completion
Date for Possession	To be agreed with the Project Manager
Date for Completion	6 Weeks from date of Possession
Liquidated and Ascertained	At the rate of KShs 10,000.00 per week or part thereof
Prime cost sums for which the Contractor desires to tender
Period of Interim Certificates	Monthly
Period of Honoring Certificates	30 days
Percentage of Certified Value Retained	10%
Limit of Retention Fund	5%

SECTION VI – STANDARD FORMS

- (i) Form of Invitation for Tenders
- (ii) Form of Tender
- (iii) Letter of Acceptance
- (iv) Form of Agreement
- (v) Form of Tender Security
- (vi) Performance Bank Guarantee
- (vii) Bank Guarantee for Advance Payment
- (viii) Qualification Information
- (ix) Tender Questionnaire
- (xi) Confidential Business Questionnaire
- (x) Statement of Foreign Currency Requirement
- (xi) Details of Sub-Contractors

FORM OF INVITATION FOR TENDERS

_____ *[date]*

To: _____ *[name of Contractor]*

_____ *[address]*

Dear Sirs:

Reference: _____ *[Contract Name]*

You have been prequalified to tender for the above project.

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

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

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

Upon payment of a non-refundable fee of Kshs _____

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

_____ *[address and location]*

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

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

Yours faithfully,

_____ Authorized Signature

_____ *Name and Title*

FORM OF TENDER

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

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs. _____ [Amount in figures] Kenya Shillings _____ [Amount in words]
2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Project Manager's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix to Conditions of Contract.
3. We agree to abide by this tender until _____ [Insert date], and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 20_____

Signature _____ in the capacity of _____

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

Witness; Name _____

Address _____

Signature _____

Date _____

LETTER OF ACCEPTANCE

[letterhead paper of the Employer]

_____ [date]

To: _____
[name of the Contractor]

[address of the Contractor]

Dear Sir,

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

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

Authorized Signature

Name and Title of Signatory

Attachment: Agreement

FORM OF AGREEMENT

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

WHEREAS THE Employer is desirous that the Contractor executes

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

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and shall be read and construed as part of this Agreement i.e.
 - (i) Letter of Acceptance
 - (ii) Form of Tender
 - (iii) Conditions of Contract Part I
 - (iv) Conditions of Contract Part II and Appendix to Conditions of Contract
 - (v) Specifications
 - (vi) Drawings
 - (vii) Priced Bills of Quantities
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

The common Seal of _____

Was hereunto affixed in the presence of _____

Signed Sealed, and Delivered by the said _____

Binding Signature of Employer _____

Binding Signature of Contractor _____

In the presence of (i) Name _____

Address _____

Signature _____

[ii] Name _____

Address _____

Signature _____

FORM OF TENDER SECURITY

WHEREAS (Hereinafter called “the Tenderer”) has submitted his tender dated for the construction of
..... (Name of Contract)

KNOW ALL PEOPLE by these presents that WE having our registered office at(hereinafter called “the Bank”), are bound unto(hereinafter called “the Employer”) in the sum of Kshs..... for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors and assigns by these presents sealed with the Common Seal of the said Bank this Day of20.....

THE CONDITIONS of this obligation are:

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

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

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

[date]

[signature of the Bank]

[witness]

[seal]

PERFORMANCE BANK GUARANTEE

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

Dear Sir,

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

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

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

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

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

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

This guarantee shall be valid until the date of issue of the Certificate of Completion.

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____

BANK GUARANTEE FOR ADVANCE PAYMENT

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

Gentlemen,

Ref: _____ [name of Contract]

In accordance with the provisions of the Conditions of Contract of the above-mentioned Contract, We, _____ [name and Address of Contractor] (hereinafter called “the Contractor”) shall deposit with _____ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Contract in an amount of Kshs. _____ [amount of Guarantee in figures] Kenya Shillings _____ [amount of Guarantee in words].

We, _____ [bank or financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____ [name of Employer] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding Kshs _____ [amount of Guarantee in figures] Kenya Shillings _____ [amount of Guarantee in words], such amount to be reduced periodically by the amounts recovered by you from the proceeds of the Contract.

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

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

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

Yours faithfully,

Signature and Seal _____

Name of the Bank or financial institution _____

Address _____

Date _____

Witness: Name: _____

Address: _____

Signature: _____

Date: _____

QUALIFICATION INFORMATION

1. Individual Tenderers or Individual Members of Joint Ventures

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

Principal place of business _____

Power of attorney of signatory of tender _____

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

Year	Volume	
	Currency	Value

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

Project name	Name of client and contact person	Type of work performed and year of completion	Value of work performed and Contract
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

Item of Equipment	Description, Make and age (years)	Condition(new, good, poor) and number available	Owned, leased (from whom?), or to be purchased (from whom?)
_____	_____	_____	
_____	_____	_____	
_____	_____	_____	
(etc.)			

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

Position	Name	Years of experience (general)	Years of experience in proposed position
Project Manager			
_____	_____	_____	_____
_____	_____	_____	_____
(etc.)			

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

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

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

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

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

2 Joint Ventures

- 2.4 The information listed in 1.1 – 1.10 above shall be provided for each partner of the joint venture.

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

- 2.6 Attach the power of attorney of the signatory(ies) of the tender authorizing signature of the tender on behalf of the joint venture
- 2.7 Attach the Agreement among all partners of the joint venture (and which is legally binding on all partners), which shows that:
- a) All partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;
 - b) One of the partners will be nominated as being in charge, authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture; and
 - c) The execution of the entire Contract, including payment, shall be done exclusively with the partner in charge.

TENDER QUESTIONNAIRE

Please fill in block letters.

1. Full names of tenderer

.....

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

.....

3. Telephone number (s) of tenderer

.....

4. Telex address of tenderer

.....

5. Name of tenderer's representative to be contacted on matters of the tender during the tender period

.....

6. Details of tenderer's nominated agent (if any) to receive tender notices. This is essential if the tenderer does not have his registered address in Kenya (name, address, telephone, telex)

.....

.....

Signature of Tenderer

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

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2 (b) or 2 (c) and 2 (d) whichever applies to your type of business.

You are advised that it is a serious offence to give false information on this Form.

Part 1 – General

Business Name

Location of business premises; Country/Town.....

Plot No..... Street/Road

Postal Address..... Tel No.....

Nature of Business.....

Current Trade Licence No..... Expiring date.....

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

Name of your bankers.....

Branch.....

Part 2 (a) – Sole Proprietor

Your name in full..... Age.....

Nationality..... Country of Origin.....

*Citizenship details

Part 2 (b) – Partnership

Give details of partners as follows:

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

Part 2(c) – Registered Company:

Private or public.....

State the nominal and issued capital of the Company-

Nominal Kshs.....

Issued Kshs.....

Give details of all directors as follows:

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

1.
.....

2.
.....

3.
.....

4.
.....

Part 2(d) – Interest in the Firm:

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

I certify that the information given above is correct.

.....
(Title)

.....
(Signature)

.....
(Date)

- Attach proof of citizenship

STATEMENT OF FOREIGN CURRENCY REQUIREMENTS

(See Clause 23] of the Conditions of Contract)

In the event of our Tender for the execution of _____
_____ (name of Contract) being accepted, we would require in
accordance with Clause 21 of the Conditions of Contract, which is attached hereto, the
following percentage:

(Figures)..... (Words).....

of the Contract Sum, (Less Fluctuations) to be paid in foreign currency.

Currency in which foreign exchange element is required:

.....

Date: The Day of 20.....

Enter 0% (zero percent) if no payment will be made in foreign currency.

Maximum foreign currency requirement shall be _____(percent) of the
Contract Sum, less Fluctuations.

(Signature of Tenderer)

DETAILS OF SUB-CONTRACTORS

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

Failure to comply with this requirement may invalidate the tender.

(1) Portion of Works to be sublet:

[i] Full name of Sub-contractor
and address of head office:

.....

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

.....

.....

(2) Portion of Works to sublet:

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

.....

.....

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

.....

[Signature of Tenderer)

Date

LETTER OF NOTIFICATION OF AWARD

Address of Procuring Entity

To: _____

RE: Tender No. _____

Tender Name _____

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

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

(FULL PARTICULARS) _____

SIGNED FOR ACCOUNTING OFFICER

TECHNICAL EVALUATION CRITERIA

TENDER EVALUATION CRITERIA

After tender opening, the tenders will be evaluated in 4 stages, namely:

1. Determination of Responsiveness;
2. Detailed Technical Examination;
3. Financial Evaluation;
4. Combination of Technical, Tender Sums Comparison and Financial Score.

STAGE 1- DETERMINATION OF RESPONSIVENESS

A) PRELIMINARY EXAMINATION

This stage of evaluation shall involve examination of the qualification conditions as set out in the Tender Advertisement Notice or Letter of Invitation to Tender and any other conditions stated in the bid document.

These conditions may include the following:

- i) Category of Registration with National Construction Authority (NCA) in the relevant trade and category.
- ii) Proof of payment for tender document
- iii) Provision of Bid Security
- iv) Duly filled, signed and stamped or sealed Form of Tender
- v) Authentic tender documents that are duly completed signed and stamped.
- vi) Valid registration with Registrar of Companies
- vii) Any other conditions included in the advertisement notice/Invitation letter.
- viii) Tax Compliance

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

The award of points for the **STANDARD FORMS** considered in this section shall be as shown below

<u>PARAMETER</u>	<u>MAXIMUM POINTS</u>
(i) Statement of Compliance -----	3
(ii) Tender Questionnaire - -----	5
(iii) Confidential Business Questionnaire -----	10
(iv) Key Technical personnel - -----	20
(v) Contract Completed in the last Five (5) years - -----	15
(vi) Schedules of on-going projects -----	5
(vii) Schedules of contractor's equipment -----	10
(viii) Audited Financial Report for the last 3 years-----	10
(ix) Evidence of Financial Resources -----	5
(x) Name, Address and Telephone of Banks (Contractor to provide) -----	5
(xi) Litigation History-----	2
(xii) Sanctity of the tender document as <u>in accordance with clause 5 of instruction to tenderer -----</u>	<u>10</u>
TOTAL	100

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

TABLE 1

Item	Description	Point Scored	Max. Point
i	Statement of Compliance <ul style="list-style-type: none"> • Signed and stamped ----- 3 • Signed but not stamped or vice versa ----- 2 • Not signed nor stamped ----- 0 		
ii	Tender Questionnaire Form <ul style="list-style-type: none"> • Completely filled ----- 5 • Partially filled ----- 3 • Not filled ----- 0 		
iii	Confidential Business Questionnaire Form. <ul style="list-style-type: none"> • Completely filled ----- 10 • Partially filled ----- 5 • Not filled ----- 0 		
iv	Key Personnel (Attach evidence)		
	Director of the firm <ul style="list-style-type: none"> • Holder of degree or diploma in relevant Engineering field-----8 • -Holder of certificate in relevant Engineering field----- 4 • Holder of trade test certificate in relevant Engineering field-----2 • No relevant certificate -----0 		
	At least 1No. degree/diploma of key personnel in relevant Engineering field <ul style="list-style-type: none"> • With over 10 years relevant experience ----- 5 • With over 5 years relevant experience ----- 3 • With under 5 years relevant experience ----- 1 		
	At least 1No certificate holder of key personnel in relevant Engineering field <ul style="list-style-type: none"> • With over 5 years relevant experience ----- 4 • With over 3 years relevant experience ----- 2 • With under 2 years relevant experience -----1 		
	At least 2No artisan (trade test certificate in relevant Construction field) <ul style="list-style-type: none"> • 2No. Artisan with over 10 years relevant experience -----3 • 1No. Artisan with over 10 years relevant experience ----- 2 • Artisan with less than 10 years relevant experience ----- -1 		
v	Contracts completed in the last five (5) years (Min. of 2 No.) <ul style="list-style-type: none"> • 2No. Projects of similar nature, complexity & magnitude each higher or equal to the one in consideration -----15 • 2No. Projects of similar nature, complexity and magnitude <ul style="list-style-type: none"> - One higher or equal than the one in consideration. - One 70% lower than the one in consideration. lower value than the one in consideration----- 12 • 2 Projects of similar nature, complexity & magnitude Both lower by maximum 70% of the one in consideration -- 7 • 1No. Project of similar nature, complexity and magnitude Lower by maximum 70% of the one in consideration - --- 5 		
vi	On-going projects (Minimum of 2 No. Projects) <ul style="list-style-type: none"> • 2 Project of similar nature, complexity 		

	<ul style="list-style-type: none"> and magnitude ----- 5 • 2 Project of similar nature but of lower value than the one in consideration -----4 		
vii	Schedule of contractor's equipment and transport (proof or evidence of ownership / hire or lease agreements) <ul style="list-style-type: none"> • Means of transport owned or hired (Vehicle) ----- 5 • No means of transport ----- 0 For each specific equipment required in the execution of the works being tendered for. (Maximum 2No.) ----- 5		
viii	Financial report Audited financial report (last three (3) years) <ul style="list-style-type: none"> • Turnover of each year greater or equal to the cost of this project ----- 10 • Ditto 50% less than the cost of the project ----- 6 • Ditto 30% less than the cost of the project ----- 4 • No audited accounts ----- 0 		
ix	Evidence of Financial Resources (cash in hand, lines of credit, over- draft facility etc) <ul style="list-style-type: none"> • Commitment from the bank(s) to provide lines of credit & bank statements for the last 12 months with turnover of at least 30% of the tender price-----5 • Individual savings 10% contract price -----2 		
x	Name, Address and Telephone of Banks (Contractor to provide) <ul style="list-style-type: none"> • Provided ----- 5 • Not provided ----- 0 		
xi	<ul style="list-style-type: none"> • Litigation History • Filled -----2 • Not filled -----0 		
xii	Sanctity of the tender document <ul style="list-style-type: none"> • Having the document intact (not tempered with in any way) -----10 • Having mutilated or modified the tender document-----0 		
	TOTAL POINTS-----100		

Any bidder who scores 70 points and above shall be considered for further evaluation
STAGE 3 - FINANCIAL EVALUATION

The evaluation shall be in two sections

1. Preliminary examinations and
2. Tender sum Comparisons.

(A) PRELIMINARY EXAMINATIONS

The preliminary examination in the Financial Evaluation shall be in accordance with clause 26 of Instruction to Tenderers.

The parameter to be considered under this section includes the following:

- a) Arithmetic errors and
- b) comparison of rates

1) Arithmetic Errors

The bid shall be checked for arithmetic errors based on the rates and the total sums indicated in the bills of quantities.

Confirmation shall be sought in writing from the tenderers whose tender sums will be determined to have a significant arithmetic error to their disadvantage, to confirm whether they stand by their tender sums. The error shall be treated as per clause 25.2 of Instructions to Tenderers.

Non compliance with the above shall lead to automatic disqualification from further evaluation.

2) Comparison of rates

The evaluation committee will compare rates from different bidders and note consistency of rates and front loading. The evaluation committee will judge and make an appropriate decision giving evidence.

(B) TENDER SUMS COMPARISONS

In this section, tender sums will be compared to the average of all sums for bidders who have qualified from ABOVE STAGES and score awarded to a maximum of 30 as shown below.

1 Preliminary Average

- i. The tender sums of various bidders, who qualify at **STAGE 3A** and the engineer's estimates, shall be reduced by omitting PC sums, provisional sums and contingency from the respectful amounts. The **average** of the adjusted tender sums so obtained shall be calculated.
- ii. Any tenderer whose tender percentage deviation is 10% higher or lower than the average obtained above, will be deemed to be unreasonably high or low and shall not be included in determining the mean in table 3, However their bids will still be evaluated further. The Engineer's estimate will also be subjected to the same treatment.

3) Working mean

The detailed scoring plan shall be as shown in table 3 below:

TABLE 3

Item	Description	Max score
i	<p>Tender Sums: (The tender sums of binders, who qualify at STAGE 3A and the engineer's estimates, shall be reduced by omitting PC sums, provisional sums and contingency from the respectful amounts. The average of the adjusted tender sums so obtained shall be calculated. The deviation of the reduced amounts in respect of each bidder from the average shall then be worked out as a percentage of the average (Rounded off to one (1) decimal point) and scores allocated as follows :-)</p> <ul style="list-style-type: none"> o Deviation of between 0% and 2.5% ----- 30 o Deviation of between 2.5 and 5% ----- 20 o Deviation of between 5% and 7.5% ----- 10 o Deviation of between 7.5% and 10% ----- 5 o Deviation of above 10% ----- 0 	30
TOTAL		30

The Tender sum score will be carried forward to **STAGE 4**

(C) FINANCIAL SCORE

The financial score (Fs) will be determined by comparing tender sums from all responsive bidders using the formulae below. The financial score will be allocated a maximum of 20% .

$$Fs = 20 \times Fm/F$$

Where Fs is the financial score, Fm is the lowest priced responsive financial bid and F is the price of the bid under consideration

STAGE 4 - FINAL SCORE

The total score will be combined sums of Technical, Tender Sums Comparison and Financial marks as below:

$$\begin{aligned} & \text{Technical (Ts) + Tender Sums Comparison (TSC) + Financial (Fs)} \\ & = Ts + TSC + Fs \end{aligned}$$

RECOMMENDATION

The lowest responsive bidder with the highest score may be recommended for award

PARTICULAR PRELIMINARIES

PARTICULAR PRELIMINARIES

Item	DESCRIPTION	Kshs.	Cts
A	<p>PRICING ITEMS OF PRELIMINARIES Prices SHALL BE INSERTED against items of “preliminaries” in the tenderer’s priced Bills of Quantities. The Contractor is advised to read and understand all preliminary items.</p>		
B	<p>DESCRIPTION OF THE WORKS The works consist of election and completion of science laboratories at Laikipia Main Campus in Subukia.</p>		
C	<p>SCOPE OF WORKS The works to be carried out under this contract comprises of construction of laboratories, office space and associated electrical and mechanical Installations at Laikipia Main Campus in Subukia.</p>		
D	<p>MEASUREMENTS In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER . The discrepancies shall then be treated as a variation and be dealt with in accordance with the Conditions of Contract..</p>		
E	<p>LOCATION OF SITE The site of the proposed works is at the Laikipia University Main Campus which is approximately 50 Km from Nakuru Town, along Nakuru - Nyahururu The Contractor is advised to visit the site, to familiarize with the nature and position of the site. No claims arising from the Contractor’s failure to do so will be entertained.</p>		
F	<p>CLAIMS It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and/or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claims shall be entertained upon the expiry of the said contract period.</p>		
	Carried to Collection		
	PP1		

<p>A</p>	<p>PAYMENTS</p> <p>The Tenderers' attention is drawn to the fact that the GOVERNMENT OF KENYA MAKES NO ADVANCE PAYMENTS, pays for work done and materials delivered to site: all in accordance with the Clause 23 Conditions of Contract agreement. In order to facilitate this, a list of the general component elements for the works is given in the summary page of these specifications and the Tenderer is requested to break down his tender sum commensurate to the said elements</p>		
<p>B</p>	<p>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</p> <p>The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the Client. The Contractor shall allow in his rates any expense he deems necessary by taking such care within the site.</p>		
<p>C</p>	<p>WORKING CONDITIONS</p> <p>The Contractor shall allow in his rates for any interference that he may encounter in the course of execution of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed, as the residents will be occupying the premises as usual during the course of the contract.</p>		
<p>D</p>	<p>SIGNBOARD</p> <p>Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p>		
<p>E</p>	<p>LABOUR CAMPS</p> <p>The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.</p>		
<p>Carried to Collection</p> <p>PP2</p>			

Item	DESCRIPTION	Kshs.	Cts
A	<p>MATERIALS FROM DEMOLITIONS</p> <p>Any materials arising from demolitions and not re-used shall become the property of the Laikipia University..</p>		
B	<p>PRICING RATES</p> <p>The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing, all to comply with the Conditions of Contract.</p>		
C	<p>BID SECURITY</p> <p>The tenderer shall furnish, as part of his bid, a bid security in the sum prescribed. The bid security shall, at the tenderer's option be in the form of a certified Cheque, Bank draft, stand by Letter of Credit or Guarantee from an approved bank/insurance co. located in Kenya or a foreign bank that has been determined to be acceptable to the government of Kenya. The format of the bank guarantee shall be in accordance with one of the sample forms of bid security included in the post qualification. Other formats may be permitted subject to prior approval of the government Letters of Credit, bank guarantee issued, as security for bid shall be valid for 30 days beyond the validity of the bid.</p>		
D	<p>URGENCY OF THE WORKS</p> <p>The Contractor is notified that these “Works are Urgent” and should be completed within the period state in these Particular Preliminaries. The Contractor shall allow in his rates for any costs he deems that he/she may incur by having to complete the works within the stipulated contract period.</p>		
E	<p>PAYMENT FOR MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.</p>		
	<p>Carried to Collection</p> <p>PP3</p>		

Item	DESCRIPTION	Kshs.	Cts
<p>A</p>	<p>EXISTING SERVICES</p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p>		
<p>B</p>	<p>PERFORMANCE BOND</p> <p>A bond of 5% of the contract sum will be required in accordance with Conditions of Contract on award of contract of the Instructions to Tenderers. No payment on account for the works executed will be made to the contractor until he has submitted the Performance Bond to the Project Manager duly signed, sealed and stamped from an approved Bank.</p>		
<p>C</p>	<p>TENDER DOCUMENTS</p> <p>Tender documents are as listed in Clause 3 of the preparation of tenders Page 7</p>		
<p>D</p>	<p>DELIVERY OF TENDER</p> <p>Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents or as indicated in the advertisement.</p> <p>Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the advertisement. Tenders delivered or received later than the above time will not be opened.</p>		
	<p style="text-align: center;">Carried to Collection</p> <p style="text-align: center;">PP4</p>		

Item	DESCRIPTION		Kshs.	Cts
A	<p>VALUE ADDED TAX</p> <p>The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1st September, 1993 which requires payment of VAT on all contracts. The tenderer is advised to include his tax in the grand summary page as indicated.</p>			
	<p style="text-align: center;">Carried to Collection</p> <p style="text-align: center;">PP5</p>			

Item	DESCRIPTION		Kshs.	Cts
	<p><u>SPECIAL PRELIMINARIES</u> MOBILE PHONE AIR TIME FOR OFFICERS</p>			
A	<p>LUNCH FOR THE PROJECT TEAM</p> <p>Provide lunches per person per visit and meeting for 8 No. design team members and 4 No. clients representatives for the duration of the contract at least once in two weeks 12x26xKshs 3,000.00</p>	SUM	936,000	00
B	<p>Include a percentage Sum for the Contractors administration costs and profit</p>	%		
C	<p>LAP TOPS</p> <p>Purchase and provide 6 no personal laptop HP Envyx360 15-BP 100 core 17</p>	SUM	600,000	00
D	<p>Include a percentage Sum for the Contractors administration on finance charges costs</p>	%		
E	<p>Supply 3 No. digital camera as Cannon EOS 1300D with 20 effective megapixels or other equal and approve</p>	SUM	150,0000	00
F	<p>Allow a percentage sum for contractor's administration on costs and finance charges</p>	%		
	<p>Carried to collection</p> <p>PP6</p>			00

<p>A</p> <p>B</p>	<p>LASER JET PRINTER Provide 4 No laser jet printer Up to 32 ppm 160MB or higher ,expandable to 544 MB HP PCL 6,HP PCL 5c,HP Postscript level 3 Emulation,PDF 1.3,2100 standard feeding tray including envelopes,labels, transparencies and special media. Output tray Up to 250 sheets Letter, legal, executive, A4,A3 Plain paper, envelopes, transparencies, copier, bond (60 to 200g/m2) IEEE 1284-C compliant bi-directional parallel port, Universal Serial Bus (USB), Smart switch printer language sensing, Linux compatible via enhanced UNIX drive, Drivers for Windows 95/98/ME/NT/2000/XP</p> <p>Include a percentage for the Contractors administration costs ...%</p>		<p>100,000</p>	<p>00</p>
<p>PP7</p>				

	<p>Carried to collection</p> <p><u>COLLECTION</u></p> <p>Brought forward from page PP/1</p> <p>Brought forward from page PP/2</p> <p>Brought forward from page PP/3</p> <p>Brought forward from page PP/4</p> <p>Brought forward from page PP/5</p> <p>Brought forward from page PP/6</p> <p>Brought forward from page PP/7</p>			
	<p>TOTAL FOR PATICULAR PRELIMINARIES CARRIED TO GRAND SUMMARY</p>			

GENERAL PRELIMINARIES

ITEM	DESCRIPTION	KSHS	CTS
-	<p style="text-align: center;">GENERAL PRELIMINARIES</p> <p>A. PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</p> <p>Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.</p> <p>The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.</p> <p>B. ABBREVIATIONS</p> <p>Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:-</p> <p>C.M. Shall mean cubic metre S.M. Shall mean square metre L.M. Shall mean linear metre MM Shall mean Millimetre Kg. Shall mean Kilogramme No. Shall mean Number Prs. Shall mean Pairs B.S. Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I., England.</p> <p>Ditto Shall mean the whole of the preceding description except as qualified in the description in which it occurs.</p> <p>m.s. Shall mean measured separately. a.b.d Shall mean as before described.</p>		
GP/1	<i>Carried to collection</i>		

ITEM	DESCRIPTION	KSHS	CTS
<p>A.</p>	<p>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT <i>Attendance</i> ; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:- Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of the same. Fix Only:- "Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p> <p>B. EMPLOYER The "Employer" is VICE CHANCELLOR LAIKIPIA UNIVERSITY - MAIN CAMPUS The term "Employer" and "Laikipia University" wherever used in the contract document shall be synonymous</p> <p>C. PROJECT MANAGER The term "P.M." wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorised to represent him on behalf of the Government. In this project the PM is the County Works Officer - Nakuru</p> <p>D. ARCHITECT The term "Architect" shall be deemed to mean "The Project Architect." whose address unless otherwise notified is State Department of Public Works, P.O. Box 660 NAKURU.</p> <p>E. QUANTITY SURVEYOR The term "Quantity Surveyor" shall be deemed to mean "The Project Quantity Surveyor" whose address unless otherwise notified is State department of Public Works, P.O. Box 660 NAKURU.</p>		
<p>GP/2</p>	<p><i>Carried to collection</i></p>		

A.	ELECTRICAL ENGINEER		
	<p>The term "Electrical Engineer" shall be deemed to mean "The Project Electrical Engineer." whose address unless otherwise notified is State Department of Public Works, P.O. Box 660 NAKURU</p> <p>B. MECHANICAL ENGINEER The term "Mechanical Engineer" shall be deemed to mean "The Project Mechanical Engineer" whose address unless otherwise notified is State Department of Public Works, P.O. Box 660 NAKURU.</p> <p>C STRUCTURAL ENGINEER The term "Structural Engineer" shall be deemed to mean "The Project Structural Engineer." whose address unless otherwise notified is State Department of Public Works, P.O. Box 660 NAKURU.</p> <p>D FORM OF CONTRACT The Form of Contract shall be as stipulated in the Conditions of Contract The Conditions of Contract are also included herein</p> <p>Particulars of insertions to be made in the Appendix to the Contract Agreement will be</p> <p>found in the Particular Preliminaries part of these Bills of Quantities</p>		
GP/3	<i>Carried to collection</i>		

ITEM	DESCRIPTION	KSHS	CTS
<p>A.</p> <p>PLANT, TOOLS AND VEHICLES</p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p> <p>B.</p> <p>TRANSPORT.</p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p> <p>C.</p> <p>MATERIALS AND WORKMANSHIP.</p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p> <p>D.</p> <p>SIGN FOR MATERIALS SUPPLIED.</p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER</p> <p>E.</p> <p>STORAGE OF MATERIALS</p> <p>The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>			
GP/4	<i>Carried to collection</i>		

ITEM	DESCRIPTION	KSHS	CTS
A.	SAMPLES		
	<p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Public Works. The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p> <p>B. GOVERNMENT ACTS REGARDING WORK, PEOPLE ETC. Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps, passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p> <p>C. SECURITY OF WORKS ETC. The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.</p>		
	<p><i>Carried to collection</i></p> <p>GP/5</p>		

ITEM	DESCRIPTION	KSHS	CTS
<p>A.</p> <p>PUBLIC AND PRIVATE ROADS.</p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER</p> <p>B.</p> <p>EXISTING PROPERTY.</p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER</p> <p>C.</p> <p>VISIT SITE AND EXAMINE DRAWINGS.</p> <p>The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p> <p>D.</p> <p>ACCESS TO SITE AND TEMPORARY ROADS.</p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads (approximately 70 metres long) for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER</p> <p>E.</p> <p>AREA TO BE OCCUPIED BY THE CONTRACTOR</p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER</p>			
GP/6	<i>Carried to collection</i>		

ITEM	DESCRIPTION	KSHS	CTS
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p> <p>E.</p>	<p>OFFICE ETC. FOR THE PROJECT MANAGER The Contractor shall provide, erect and maintain where directed on site a properly ventilated lockable office for the consultants, having a minimum floor area of 40 Square Metres complete with furniture (Tables, chairs e.t.c). Provision shall be made for artificial lighting and cleaning facilities for the duration of the works. Upon completion the Contractor shall dismantle and clear away the office He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape.</p> <p>WATER AND ELECTRICITY SUPPLY FOR THE WORKS The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER. The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub--contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p> <p>SANITATION OF THE WORKS The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER</p> <p>SUPERVISION AND WORKING HOURS The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.</p> <p>PROVISIONAL SUMS. 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 the conditions of Contract. Such sums are net and no addition shall be made to them for profit.</p>		
GP/7	<i>Carried to collection</i>		

ITEM	DESCRIPTION	KSHS	CTS
<p>A.</p> <p>PRIME COST (OR P.C.) SUMS. The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement mentioned in Condition No. 16 of the conditions of Contract. Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p> <p>B.</p> <p>PROGRESS CHART. The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p> <p>C.</p> <p>ADJUSTMENT OF P.C. SUMS. In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (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 this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them. Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p>			
<p>GP/8</p>	<p style="text-align: center;"><i>Carried to collection</i></p>		

ITEM	DESCRIPTION	KSHS	CTS
<p>A.</p> <p>ADJUSTMENT OF PROVISIONAL SUMS. In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued as described for Variations in Conditions No. 13 of the Conditions of Contract, but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p> <p>B.</p> <p>NOMINATED SUB-CONTRACTORS When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance".</p> <p>C.</p> <p>DIRECT CONTRACTS Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p> <p>D.</p> <p>ATTENDANCE UPON OTHER TRADESMEN, ETC. The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>			
<p>GP/9</p>	<p><i>Carried to collection</i></p>		

ITEM	DESCRIPTION	KSHS	CTS
<p>A.</p> <p>INSURANCE The Contractor shall insure as required in Conditions No 30 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.</p> <p>B.</p> <p>PROVISIONAL WORK All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p> <p>C.</p> <p>ALTERATIONS 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 his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p> <p>D.</p> <p>BLASTING OPERATIONS Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p>			
	<i>Carried to collection</i>		
GP/10			

ITEM	DESCRIPTION	KSHS	CTS
<p>A.</p> <p>MATERIALS ARISING FROM EXCAVATIONS</p> <p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p> <p>B.</p> <p>PROTECTION OF THE WORKS.</p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including casing, casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.</p> <p>C.</p> <p>WORKS TO BE DELIVERED UP CLEAN</p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash(except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER</p>			
<p>GP/11</p>	<p><i>Carried to collection</i></p>		

ITEM	DESCRIPTION	KSHS	CTS
<p>A.</p> <p>GENERAL SPECIFICATION. For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p> <p>B</p> <p>TRAINING LEVY The Contractor's attention is drawn to the legal notice which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than KShs. 1,000,000.00 in value.</p> <p>C.</p> <p>MATERIALS ON SITE All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.</p> <p>D.</p> <p>HOARDING The Contractor shall enclose the site or part of the works under construction with a hoarding 2400 mm high consisting of iron sheets on 100 x 50 mm timber posts firmly secured at 1800 mm centres with two 75 x 50 mm timber rails. The Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.</p> <p>E.</p> <p>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>			
<p>GP/12</p>	<p><i>Carried to Collection</i></p>		

ITEM	DESCRIPTION	KSHS	CTS
	<p><u>COLLECTION</u></p> <p>Brought Forward From Page GP/1</p> <p>Brought Forward From Page GP/2</p> <p>Brought Forward From Page GP/3</p> <p>Brought Forward From Page GP/4</p> <p>Brought Forward From Page GP/5</p> <p>Brought Forward From Page GP/6</p> <p>Brought Forward From Page GP/7</p> <p>Brought Forward From Page GP/8</p> <p>Brought Forward From Page GP/9</p> <p>Brought Forward From Page GP/10</p> <p>Brought Forward From Page GP/11</p> <p>Brought Forward From Page GP/12</p>		
	<p>TOTAL FOR GENERAL PRELIMINARIES CARRIED TO BILL GRAND SUMMARY</p>		

GP/13

PREAMBLES

PREAMBLES AND PRICING NOTES

A. GENERALLY

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

B. MANUFACTURERS' NAMES

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

C. 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.

PN/1

A. JOINERY

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

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

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

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

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

B. IRONMONGERY

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

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

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

C. STRUCTURAL STEELWORK

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

PN/2

A. PLASTERWORK AND OTHER FINISHES

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

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

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

B. GLAZING

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

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

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

C. PAINTING

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

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

MEASURED WORKS

PROPOSED SCIENCE LABORATORIES AT LAIKIPIA UNIVERSITY MAIN CAMPUS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.0	<u>LOWER GROUND FLOOR</u>				
	<u>ELEMENT NO. 1</u>				
	SUBSTRUCTURES				
	(All provisional)				
A	Clear site of all grass and small trees not exceeding 600mm girth and cart away or burn arisings	3022	Sm		
B	Cut down trees exceeding girth over 2400mm grub up roots and stumps chop to required lengths and hand over to client	5	No		
C	Excavate oversite to remove vegetable top soil average 250mm deep and cartaway to spoil heaps as directed on site	3022	Sm	,	
D	Excavate to reduce level not exceeding 1.5m deep from stripped level and cart away	4533	Cm		
E	Ditto 1.50 to 3.0m deep ditto	4080	Cm		
F	Excavate for foundation strip footing in normal soil not exceeding 1.5m deep from reduced level	1122	Cm		
G	Ditto; but for column bases	973	Cm		
H	Ditto 1.50 - 3.0m deep	102	Cm		
J	Return fill and ram selected excavated material around foundations	1665	Cm		
K	Load, wheel and cart away from site surplus excavated material and deposit in approved dumping area	531	Cm		
L	Extra over all kinds of excavation for excavating in soft rock	645	Cm		
M	Ditto; in hard rock	2950	Cm		
N	Allow for keeping excavations free from all water by pumping or otherwise		Item		
P	Ditto; for plunking and strutting to sides of excavations		Item		
	Total to collection				

LSC/01

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	300mm Thick (average) approved broken quarry stone hardcore filling in two equal layers well rolled and compacted	1558	Sm		
B	Form sinking size 500mm (average)wide x 300mm deep in hardcore including forming splayed sides	101	Lm		
C	Well compacted imported granular material fill to make up levels	500	Cm		
D	50mm thick stone dust blinding to surface of hardcore	1558	Sm		
	<u>Concrete works</u>				
	50mm plain concrete mix (1:3:6 - class 15/20mm) blinding under:				
E	Strip footing	445	Sm		
F	Column bases	373	Sm		
G	Wall Base	290	Sm		
	Vibrated Reinforced Contrete mix (1: 1 1/2 :3) class 25/20mm in:				
H	Strip footing	112	Cm		
J	Column bases	152	Cm		
K	Wall base	87			
L	150mm thick floor bed	1558	Sm		
M	Column	15	Cm		
N	250mm thick wall	265	Cm		
P	Steel fabric mesh reinforcement type A142 weighing 2.22kg to BS 4483 with 150mm side laps (measured ne -no allowance for laps)	1558	Sm		
Q	Extra for 500mm (average) thickenssing under beds 300mm deep	101	Lm		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Expansion joint</u>				
A	25mm thick Aeroflex filler	45	Sm		
B	25 x 25mm "Expendite" sealer	27	Lm		
	<u>Sawn formwork to:</u>				
C	Sides of strip footing	404	Sm		
D	Sides of column bases	361	Sm		
F	Sides of column	162	Sm		
G	Sites of columns curved to 150mm radii	19	Sm		
H	Ditto curved to 125mm radii	44	Sm		
J	Sides of wall	2118	Sm		
K	Sides of wall bases	90	Sm		
L	Edges of ground floor bed exceeding 75mm but not exceeding 150mm wide	396	Lm		
	<u>MASONRY</u>				
M	200mm thick natural stone walling; quarry dressed bedded and jointed in cement sand(1:3) mortar; reinforced with hoop iron at alternate courses	1040	Sm		
N	200mm thick skin wall	1059	Sm		
	Total to collection				

LSC/03

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SURFACE TREATMENT				
A	"Dragnet" or other equal and approved antitermite insecticide treatment to blinded hardcore surfaces applied in accordance with manufacturer's instructions	1558	Sm		
B	1000 gauge polythene sheeting laid under concrete floor bed	1558	Sm		
	<u>Reinforcement</u>				
	<u>Ribbed bars as described in</u>				
C	32mm diameter bars in columns	344	Kgs		
D	20mm Ditto in column	4695	Kgs		
E	16mm Ditto in columns bases	12446	Kg		
F	16mm Ditto; in columns	4851	Kgs		
G	10mm Ditto in strip footing	5295	Kgs		
H	8mm Ditto in columns	514	Kgs		
I	12mm in wall and wall base	42240	Kgs		
	<u>Tanking and water proofing</u>				
J	Vandex super 1.5Kg per square metre applied as per manufacturer's printed instructions	1059	Sm		
K	200mm thick PVC water bar embedded in concrete between floor and wall joints	186	Lm		
L	30 x 30mm integral angle fillets at junction of wall and floor	186	Lm		
M	300mm reglet band at floor and wall junction	186	Lm		
	Total to collection				

LSC/04

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p><u>Cement sand (1:4) screed backing:</u> 25mm screed backing to receive water proofing treatment</p>	1059	Sm		
B	12mm thick to plinth surfaces wood floated	180	Sm		
C	<p>Prepare and apply three coats of bitumastic paint to rendered surfaces</p> <p>Carried to collection below</p> <p><u>Collection</u></p> <p>Brought forward from Page LSC/01 Brought forward from Page LSC/02 Brought forward from Page LSC/03 Brought forward from Page LSC/04 Brought down from above LSC/05</p>	180	Sm		
	Total element 01 to summary				

LSC/05

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT 02</u>				
	<u>REINFORCED CONCRETE</u>				
	Superstructures				
	Vibrated reinforced concrete (1:1 1/2:3)				
	Class 25/20mm in:				
A	Beams	45	Cm		
B	Ring beam	42	Cm		
C	Columns	27	Cm		
D	Suspended slabs, thickness 150mm	1524	Sm		
E	200mm thick kerb	51	Sm		
	<u>Reinforcement (all provisional)</u>				
	<u>Ribbed bars as described in:</u>				
F	8mm diameter bars in beams	4206	Kgs		
G	16mm ditto in beams	4419	Kgs		
H	20mm ditto in beams	9180	Kgs		
I	8mm ditto; in column	727	Kgs		
J	16mm ditto in column	3092	Kgs		
K	25mm ditto;	2940	Kgs		
L	32mm ditto	3060	Kgs		
M	10mm ditto in suspended flow slab	30500	Kgs		
	Carried to collection				-

LSC/06

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Sawn formwork to:</u>				
A	Sides and soffites of beams	547	Sm		
B	Sides and soffites of ring beams	386	Sm		
C	Sides of columns	266	Sm		
D	Ditto curved 150mm radii	31	Sm		
E	Sides of columns circular on plan to 125mm	72	Sm		
F	Soffites of suspended slabs	1524	Sm		
G	Sides and soffites of kerb	18	Sm		
H	Edges of suspended slab 150-225mm wide	340	Lm		
	Total carried to collection				
	<u>Collection</u>				
	Brought forward from page LSC/06				
	Brought forward from page LSC/07 Above				
	Total element 02 summary				

LSC/07

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT 03</u>				
	<u>WALLING</u>				
	<u>External walls</u>				
	<u>Hessian based Bituminous Damp Proof Course bedded and jointed in cement sand mortar 1:3</u>				
A	200mm wide	577	Lm		
B	150mm wide	62	Lm		
C	Ditto; 100mm wide	101	Lm		
D	200mm thick natural stone walling; medium chiseled dressed; bedded and jointed in cement and (1:3) mortar	509	Sm		
E	200mm thick precast concrete louvre block walling jointed and bedded in cement mortar (1:4)	70	sm		
	<u>Internal walls</u>				
	<u>Approved load bearing machine dressed "Thika" natural stone walling bedded and jointed in cement sand (1:3) mortar with 20mm wide hoop irons in every alternate course</u>				
F	200mm thick walling	148	Sm		
G	150mm thick ditto	157	Sm		
H	100mm thick	173	Sm		
	<u>Curtain walling</u>				
I	Powder coated anodised aluminium curtain walling comprising 100 x 50mm extruded aluminium frame sections at 900mm vertical centers and 1050mm horizontal centres; panell infilled with and including 6mm clear sheet glass; 2850mm high overall	32	Lm		
K	Ditto 2400mm high overall	84	LM		
	Total element 03 to summary				

LSC/08

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT 04				
	DOORS				
	Mild steel casement				
A	Double griled door comprising 50 x 50 x 3mm rolled hollow section frame all round in filled with 30 x 30 x 2mm thick RHS vertical baluster 150mm center and similar horizontal member at 150mm centers in a straggered configuration overall size 1800 x 2400mm in 2 No equal leaves	2	No		
B	Ditto 3000mmx2400mm high	2	No		
C	Mild steel pannel double door overall size 1200x2400mm high in 2No. equal leaves each leaf comprising of 50x50x3mm RHS framing and metal lugs including purpose made hanging and locking accessories once primer before delivery to the site	4	No		
	Aluminium				
D	Aluminium sections 2mm thick 50 x 50mm extrusions in top bottom and stiles and 100 x 50mm middle rail resulting bottom panel infilled with 25mm thick blockboard laminate faced both sides and top panel left open for glazing (m/s) in door overall size 900x 2850mm high comprising 900 x 750mm high top fanlight and 900 x 2100mm openable leaf complete with and including locking devices	8	No		
E	Ditto double doors in 2No. Equal leaves overall size 1200 x 3050mm high	0	No		
	Timber doors				
F	50mm thick solid double paneled door overall size 1200 x 2400mm high all in solid mahogany in two equal leaves each leaf comprising 150mm top rail and stiles 200mm middle and bottom rail resulting both panels instilled with bevel raised and fielded panels	2	No		
G	50mm thick ditto size 1200x2850mm high	2	No		
	Total carried to collection				

LSC/09

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	HDF Mahogany veneered timber door				
A	45mm thick moulded panel door as supplied by BG Bison or other equal approved overall size 900 x 2850mm high with 750mm top fanlight	3	No		
B	45mm ditto 900x2400mm high with 300mm ditto	36	No		
C	45mm thick moulded panelled double door in two equal leaves overall size 1200 x 2850mm high comprising of 750 x mm high glazed fan light at top (m/s) 2100mm high openable leaves each faced with interior quality mahogany veneer both sides and hard wood lipped all round	1	No		
D	Ditto 1200x2400mm high	5	No		
	Flush doors				
E	45mm thick semi solid cored flush double door in 2No. Equal leaves hardwood lipped size 1800 x 2850mm high faced both sides with interior quality plywood facing both sides with 1800 x 750 high glazed fanlight at top	0	No		
F	Ditto 1300 x 2100mm high double leaf	10	No		
G	Size 900 x 2100mm ditto	10	No		
	The following in wrot mahogany				
H	150 x 50mm thick door frame with one labour plugged	267	Lm		
J	150 x 50mm transome, 2 labours	45	Lm		
K	100 x 50mm frame one labours plugging	126	Lm		
L	100 x 50mm transome with two labours	3	Lm		
M	40 x 15mm architrave with one labour	393	Lm		
N	25mm quadrant	393	Lm		
P	25 x 25mm glazing beads	117	Lm		
	Total carried to collection				

LSC/10

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	4mm thick clear sheet glass to wood:				
A	Panes 0.5 to 1.00 square meters	5	Sm		
B	Panels 0.10 to 0.50 square meters	13	Sm		
	<u>4mm thick clear sheet to metal with glazing compound</u>				
C	Panes 0.5 to 1.00 square metres	2	Sm		
	6mm thick tinted glass to aluminium with tack-on wash leather				
D	Panes 0.5 to 1.00 square meters	13	Sm		
	Ironmongery				
	Supply and fix the following ironmongery as "union" or other equal and approved to wood with matching screws				
E	Cylinder Bathroom lock set with turn handle and rose in satin anodized aluminium set of lever furniture Ref. Toucan DS-051	23	No		
F	Double cylinder lock set with handle on plate complete with lever furniture ditto. Ref. Elegance LS-C85-306 SN	36	No		
G	Deadlock to steel door	2	No		
H	Double cylinder lock set for double door with satin anodized aluminium set of lever furniture Ref. Elegance LS-C85-306 SN	10	No		
J	100mm stainless steel bearing butt hinges Ref. BB-403030-SS	45	Prs		
K	100mm brass parliament butt hinges Ref. P-404040-SS	82.5	Prs		
L	Steel door lock	4	No		
	Total carried to collection				

LSC/11

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Door closer as Union Ref. 8834	10	No		
B	38mm diameter rubber door stopper plugged to floor	101	No		
C	150mm long lever action flush bolt Ref. No U8052	20	No		
Total carried to collection					
<u>Collection</u>					
Brought forward from page LSC/09					
Brought forward from page LSC/10					
Brought forward from page LSC/11					
Brought forward from page LSC/12					
above					
Total element o4 carried to summary					

LSC/12

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p><u>Element 05</u> WINDOWS Fine chiseled "Blue Njiru" stone walling in cement mortar 150 x 22mm cill, bedded and jointed in cement and sand 1:1 and pointed in coloured cement mortar</p> <p>Supply and fix double metal curtain rods from "Challenge Engineering" or other equal and approved comprising of 25mm diameter wrought iron front 16mm diameter rear rail complete with fixing brackets, curtain holding rings and decorative end stops and all necessary paintwork</p>	125	Lm		
B	Curtain rods	120	Lm		
	Total to collection				

LSC/ 13

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p>Supply, assemble and fix the following purpose-made mild steel OUTWARD OPENABLE windows casement complete with all opening accessories, 50 x 50mm thick frame units; including "snap on" 30mm wide permanent vent; building in ligs to jambs; plugging and screwing head and cill; bedding frames in waterproof cement mortar and pointing in approved mastic externally; fixing 6mm thick reflective glass m.s oiling, easing and adjusting as described in the following overall sizes</p>				
A	2000 x 1800mm high	30	No		
B	2000 x 1500mm high	22	No		
C	900 x 900mm high	23	No		
	Glazing				
E	4mm thick clear sheet glass and glazing in panes 0.1-1.0sm with glazing putty compound	174	Sm		
F	Ditto obscured glass	19	Sm		
	Total carried to collection Collection				
	Brought forward from page LSC/13				
	Brought forward from page LSC/14				
	Total element 05 to summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT 06				
	EXTERNAL FINISHES				
	Wall Finishes				
A	Extra over natural stone walling for neat flush horizontal and vertical joints in coloured cement mortar	0	Sm		
	Cement and sand (1:4)				
B	15mm thick cement sand (1:4) render to columns	205	Sm		
C	Ditto beam	211	Sm		
D	Ditto soffities and sides of gutter beam	0	Sm		
E	Screeding to receive brick facing	509	SM		
	<u>Ruff and Tuff Wall Finish</u>				
F	Prepare and apply ruff and tuff exterior wall finish as "Crown paints" or equivalent and to approved colour	1547	Sm		
	<u>Hand scratched burnt clay</u>				
G	250x75x35mm thick brick facing in cement mortar	509	SM		
	Precast paving slabs				
H	Excavate on normal soil not exceeding 300mm deep; backfill with murrum to form base to receive PCC paving slabs (m/s) and cart away arisings	342	Sm		
J	Approved weed killer applied according to manufacturer's instructions	342	Sm		
K	Premise 200" Anti-termite treatment to murrum	342	Sm		
L	600 x 600 x 50mm thick PCC slabs on and including 50mm sand bed jointed and pointed in cement sand 1:3 mortar	342	Sm		
	Total to collection				

LSC/15

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p>Eurocon tiles</p> <p>Cement and sand (1:4) screed</p> <p>A Screed backing in floor finished with wood float, thickness 20mm</p> <p>Floor tiles</p> <p>B 330 x 330 x 20mm eurocon tiles laid to screed backing (m.s) in approved colour and pattern</p> <p>C Skirting 100 x 20mm square top edge</p> <p>Total carried to collection</p> <p>Brought forward from page LSC/15</p> <p>Brought forward from page LSC/16 ABOVE</p>	<p>348</p> <p>348</p> <p>78</p>	<p>Sm</p> <p>Sm</p> <p>Lm</p>		
	Total element 06 to summary				

LSC/16

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT 07				
	INTERNAL FINISHES				
	Cement and sand (1:4) screed				
A	Screed backing under floors finished with wood float, thickness 32mm to receive ceramic tiles (m/s)	651	Sm		
B	Ditto 20mm thick to floor to receive terrazzo (m/s)	905	Sm		
	FLOOR				
	Floor tiles				
C	330 X 330 X 8mm thick ceramic tiles as manufactured by "Flamingo Tiles" or other approved non-slip tiles fixed with approved adhesive in approved	261	Sm		
D	100mm high ditto skirting	20	Lm		
	Polished white cement based terrazo				
E	20mm thick paving to floor polished smooth including 40x4mm thick white plastic dividing strips	905	Sm		
F	100mm high ditto skirting 12mm thick	732	Lm		
	Floor Tiles				
G	450x450x10mm thick polished green or other approved classic colours granito tiles fixed with an approved adhesive in approved pattern	390	Sm		
H	Extra over for decorative tile in different colour to approval 450mm wide	183	Lm		
J	Ditto 100mm high skirting	183	Lm		
	Total to collection				

LSC/17

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	WALL AND CEILING FINISHES				
	Wall finishes				
	Cement and sand (1:4) screed				
A	Screed backing to walls wood floated thickness 15mm	382	Sm		
	Coloured glazed ceramic wall tiles and fittings (cloakrooms)				
B	200 x 300 x 6mm as manufactured by "Flamingo Tiles" or other approved coloured tiles bedded and jointed in cement and sand 1:1 and pointed in coloured cement grouting	382	Sm		
C	Extra for 200 x 50 x 6mm thick border tile with approved patterns	0	Lm		
	Lime plaster; 15mm thick (1:2:9)				
D	Plaster to wall	1260	Sm		
E	Ditto concrete surfaces	72	Sm		
	Lime plaster; 15mm thick (1:2:9)				
F	To soffites of suspended slabs	1524	Sm		
	Cornice				
G	100x25mm Gypsum cornice	825	Lm		
	Total Carried to Collection				
	Brought forward from page LSC/17				
	Brought forward from page LSC/18				
	Above				
	Total element 07 to summary				

LSC/18

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 08				
	BALUSTRADING & RAILINGS				
	Wrot mahogany				
A	100 x 50mm hand rail 3mm thick mild steel circular hollow extrusion tubes Composite balustrading comprising 50mm diameter x 3mm thick top rail welded onto 25mm x 3mm secondary baluster 200mm long at 450mm long; 50mm diameter primary baluster at 900mm centres and 30mm diameter x 2mm horizontal braces at 250mm centres to detail including grinding welds smooth fixing to concrete plinth and kerb and end to walling	41	Lm		
B	Staircase railing horizontal 1250mm high	14	Lm		
C	Staircase railing raking 1250mm high Mild Steel Rectangular Hollow Tubes	27	Lm		
D	Security grille comprising 50x50x3mm thick RHS frame all round; horizontal rails at 1050mm centres and vertical mullions at 1100mm centres resulting panels infilled with 30x30x2mm thick RHS balustrades at 110mm centres both ways in an approved staggered configuration	30	Sm		
	Total element 08 to summary				

LSC/19

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 09				
	PAINTING & DECORATING				
	ROOF				
	Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:				
A	General surface of roof steel work	0	SM		
B	General surfaces of 100mm diameter down pipe	0	Lm		
	WINDOWS				
	Prepare and supply two undercoats stainer and two finishing coats of vanish to:-				
C	Surface exceeding 100 but not exceeding 200mm girth window cill	125	Lm		
	Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:-				
D	Metal Casement surface girth over 300mm internally	193	Sm		
E	Ditto Externally	193	sm		
	Total to collection				

LSC/20

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	DOOR				
	Prepare and apply two undercoats stainer and two finishing coats of vanish to:-				
A	General surface of doors	232	Sm		
B	Surface not exceeding 100mm girth	651	Lm		
C	Surface 100 to 200mm girth	0	Lm		
D	Surface exceeding 200 but n.e. 300mm girth	312	Lm		
	Prepare and apply one undercoat and two finishing coats of gloss oil paint to:				
E	General surface of doors both side measured	93	Sm		
F	Surface not exceeding 100mm girth	252	LM		
G	Surface exceeding 100 but not exceeding 200mm girth	129	Lm		
H	Surfaces excceding 200 but not exceeding 300mm girth	0	lm		
	Touch up primer and apply one undercoats and two finishing coasts of 1st qualtiy supergloss paint to:				
J	General surfaces of metal (b.s.m.)	40	Sm		
	EXTERNAL FINISHES				
	Prepare and apply one undercoat and two finishing coats of crown emulsion paint to:				
K	General rendered surface externally	416	Sm		
L	Louvre block walling	70	Sm		
	Total carried to collection				

LSC/21

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	INTERNAL FINISHES				
	Prepare and apply one undercoat and two finishing coats of 1st quality silk vinyl paint to:-				
A	General plastered surfaces	1332	Sm		
B	General plastered surfaces of horizontal suspended soffits	1524	Sm		
C	General plastered surfaces of sloping soffits	0	Sm		
D	General surfaces of louvre block walling	70	Sm		
E	Surface not exceeding 100mm girth of cornice	825	Lm		
	JOINERY FIXTURES				
	Prepare and apply two undercoats stainer and two finishing coats of vanish to:-				
F	General surface of timber	0	Sm		
G	Surface not exceeding 100mm girth	0	Lm		
H	Surfaces exceeding 100 but not exceeding 200mm girth	0	Lm		
	Total collection				

LSC/22

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Metal work				
	Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint paint to:-				
A	General surface of stair balustrading	103	sm		
B	Ditto grilled surface	60	Sm		
	Prepare and apply two undercoats stainer and two finishing coats of varnish to:-				
B	Surface of rails exceeding 200mm but not exceeding 300mm girth	41	Lm		
	Total carried to collection below				
	<u>Collection page</u>				
	Brought forward from page LSC/20				
	Brought forward from page LSC/21				
	Brought forward from page LSC/22				
	Brought down from LSC/23 above				
	Total element 09 to summary				

LSC/23

LOWER GROUND FLOOR

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
1	Substructures	LSC/05			
2	Reinforced concrete superstructure	LSC/07			
3	Walling	LSC/08			
5	Doors	LSC/12			
6	Windows	LSC/14			
7	External Finishes	LSC/16			
8	Internal Finishes	LSC/18			
9	Balustrading & Railings	LSC/19			
10	Painting and Decorating	LSC/23			
	SUB TOTAL				
11	Provide a sum of Kenya Shillings Three million (Kshs. 3,000,000/=) for electrical works				
12	Provide a sum of Kenya Shillings Three million (Kshs. 3,000,000/=) for mechanical works				
	Total carried to main summary				

LSC/24

2 UPPER GROUND FLOOR

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT 01</u>				
	<u>REINFORCED CONCRETE</u> <u>SUPERSTRUCTURE</u>				
	Vibrated reinforced concrete (1:1 1/2:3) Class 25/20mm in:				
A	Beams	45	Cm		
B	Ring beam	42	Cm		
C	Columns	27	Cm		
D	Suspended slabs, thickness 150mm	1524	Sm		
E	200mm thick kerb	51	Sm		
	<u>Reinforcement (all provisional)</u>				
	Ribbed bars as described in:				
F	8mm diameter bars in beams	4206	Kgs		
G	16mm ditto in beams	4419	Kgs		
H	20mm ditto in beams	9180	Kgs		
I	8mm ditto; in column	727	Kgs		
J	16mm ditto in column	3092	Kgs		
K	25mm ditto;	2940	Kgs		
L	32mm ditto	3060	Kgs		
M	10mM ditto in suspended floor slab	30500	Kgs		
	Carried to collection				-

LSC/25

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Sawn formwork to:</u>				
A	Sides and soffites of beams	547	Sm		
B	Sides and soffites of ring beams	386	Sm		
C	Sides of columns	266	Sm		
D	Ditto curved 150mm radii	31	Sm		
E	Sides of columns circular on plan to 125mm	72	Sm		
F	Soffites of suspended slabs	1524	Sm		
G	Sides and soffites of kerb	18	Sm		
H	Edges of suspended slab 150-225mm wide	340	Lm		
	Total carried to collection				
	<u>Collection</u>				
	Brought forward from page LSC/25				
	Brought forward from page LSC/26 Above				
	Total element 01 summary				

LSC/26

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT 02</u>				
	<u>WALLING</u>				
	<u>External walls</u>				
A	200mm thick natural stone walling; medium chiseled dressed; bedded and jointed in cement and (1:3) mortar	475	Sm		
B	200mm thick precast concrete louvre block walling jointed and bedded in cement mortar (1:4)	70	sm		
	<u>Internal walls</u>				
	Approved load bearing machine dressed "Thika" natural stone walling bedded and jointed in cement sand (1:3) mortar with 20mm wide hoop irons in every alternate course				
C	200mm thick walling	140	Sm		
D	150mm thick ditto	148	Sm		
E	100mm thick	173	Sm		
	<u>Curtain walling</u>				
F	Powder coated anodised aluminium curtain walling comprising 100 x 50mm extruded aluminium frame sections at 900mm vertical centers and 1050mm horizontal centres; panell infilled with and including 6mm clear sheet glass; 2850mm high overall	80	Lm		
G	Ditto 2400mm high overall	0	Lm		
	Total element 02 to summary				

LSC/27

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT 03				
	DOORS				
	Mild steel casement				
A	Double griled door comprising 50 x 50 x 3mm rolled hollow section frame all round in filled with 30 x 30 x 2mm thick RHS vertical baluster 150mm center and similar horizontal member at 150mm centers in a straggered configuration overall size 1800 x 2400mm in 2 No equal leaves	2	No		
B	Ditto 3000mmx2400mm high	2	No		
C	Mild steel pannel double door overall size 1200x2400mm high in 2No. equal leaves each leaf comprising of 50x50x3mm RHS framing and metal lugs including purpose made hanging and locking accessories once primer before delivery to the site	8	No		
	Aluminium				
D	Aluminium sections 2mm thick 50 x 50mm extrusions in top bottom and stiles and 100 x 50mm middle rail resulting bottom panel infilled with 25mm thick blockboard laminate faced both sides and top panel left open for glazing (m/s) in door overall size 900x 2850mm high comprising 900 x 750mm high top fanlight and 900 x 2100mm openable leaf complete with and including locking devices	10	No		
E	Ditto double doors in 2No. Equal leaves overall size 1200 x 3050mm high	0	No		
	Timber doors				
F	50mm thick solid double paneled door overall size 1200 x 2400mm high all in solid mahogany in two equal leaves each leaf comprising 150mm top rail and stiles 200mm middle and bottom rail resulting both panels instilled with bevel raised and fielded panels	2	No		
G	50mm thick ditto size 1200x2850mm high	2	No		
	Total carried to collection				

LSC/28

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	HDF Mahogany veneered timber door				
A	45mm thick moulded panel door as supplied by BG Bison or other equal approved overall size 900 x 2850mm high with 750mm top fanlight	20	No		
B	45mm ditto 900x2400mm high with 300mm ditto	2	No		
C	45mm thickmoulded panelled double door in two equal leaves overall size 1200 x 2850mm high comprising of 750 x mm high glazed fan light at top (m/s) 2100mm high openable leaves each faced with interior quality mahogany veneer both sides and hard wood lipped all round	6	No		
D	Ditto 1200x2400mm high	2	No		
	Flush doors				
E	45mm thick semi solid cored flush double door in 2No. Equal leaves hardwood lipped size 1800 x 2850mm high faced both sides with interior quality plywood facing both sides with 1800 x 750 high glazed fanlight at top	0	No		
F	Ditto 1300 x 2100mm high double leaf	8	No		
G	Size 900 x 2100mm ditto	8	No		
	The following in wrot mahogany				
H	150 x 50mm thick door frame with one labour plugged	77	Lm		
J	150 x 50mm transome, 2 labours	15	Lm		
K	100 x 50mm frame one labours plugging	233	Lm		
L	100 x 50mm transome with two labours	20	Lm		
	40 x 15mm architrave with one labour				
M		311	Lm		
N	25mm quadrant	311	Lm		
P	25 x 25mm glazing beads	228	Lm		
	Total carried to collection				

LSC/29

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	4mm thick clear sheet glass to wood: Panels 0.5 to 1.00 square meters	21	Sm		
B	Panels 0.10 to 0.50 square meters	2	Sm		
	<u>4mm thick clear sheet to metal with glazing compound</u>				
C	Panels 0.5 to 1.00 square metres	3	Sm		
	6mm thick tinted glass to aluminium with tack-on wash leather				
D	Panels 0.5 to 1.00 square meters	16	Sm		
	Ironmongery Supply and fix the following ironmongery as "union" or other equal and approved to wood with matching screws				
E	Cylinder Bathroom lock set with turn handle and rose in satin anodized aluminium set of lever furniture Ref. Toucan DS-051	16	No		
F	Double cylinder lock set with handle on plate complete with lever furniture ditto. Ref. Elegance LS-C85-306 SN	22	No		
G	Deadlock to steel door	4	No		
H	Double cylinder lock set for double door with satin anodized aluminium set of lever furniture Ref. Elegance LS-C85-306 SN	12	No		
J	100mm stainless steel bearing butt hinges Ref. BB-403030-SS	36	Prs		
K	100mm brass parliament butt hinges Ref. P-404040-SS	69	Prs		
L	Steel door lock	8	No		
	Total carried to collection				

LSC/30

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Door closer as Union Ref. 8834	4	No		
B	38mm diameter rubber door stopper plugged to floor	100	No		
C	150mm long lever action flush bolt Ref. No U8052	20	No		
	Total carried to collection				
	<u>Collection</u>				
	Brought forward from page LSC/28				
	Brought forward from page LSC/29				
	Brought forward from page LSC/30				
	Brought forward from page LSC/31 above				
	Total element 03 carried to summary				

LSC/31

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p><u>Element 04</u></p> <p>WINDOWS</p> <p>Fine chiseled "Blue Njiru" stone walling in cement mortar</p> <p>A 150 x 22mm cill, bedded and jointed in cement and sand 1:1 and pointed in coloured cement mortar</p> <p>Supply and fix double metal curtain rods from "Challenge Engineering" or other equal and approved comprising of 25mm diameter wrought iron front 16mm diameter rear rail complete with fixing brackets, curtain holding rings and decorative end stops and all necessary paintwork</p> <p>B Curtain rods</p>	126	Lm		
	Total to collection				

LSC/32

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p>Supply, assemble and fix the following purpose-made mild steel <u>OUTWARD OPENABLE</u> windows casement complete with all opening accessories, 50 x 50mm thick frame units; including "snap on" 30mm wide permanent vent; building in ligs to jambs; plugging and screwing head and cill; bedding frames in waterproof cement mortar and pointing in approved mastic externally; fixing 6mm thick reflective glass m.s oiling, easing and adjusting as described in the following overall sizes</p>				
A	2000 x 1800mm high	32	No		
B	2000 x 1500mm high	22	No		
C	900 x 900mm high	20	No		
	Glazing				
D	4mm thick clear sheet glass and glazing in panes 0.1-1.0sm with approved glazing putty compound	181	Sm		
E	Ditto; obscured glass	16	Sm		
	<p>Total carried to collection Collection</p>				
	Brought forward from page LSC/32				
	Brought forward from page LSC/33 above				
	Total element 04 to summary				

LSC/33

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT 05</u>				
	EXTERNAL FINISHES				
	Wall Finishes				
A	Extra over natural stone walling for neat flush horizontal and vertical joints in coloured cement mortar	0	Sm		
	Cement and sand (1:4)				
B	15mm thick cement sand (1:4) render to columns	205	Sm		
C	Ditto beams	211	Sm		
D	Ditto soffities and sides of gutter beam	0	Sm		
E	Screeding to receive brick facing	475	SM		
	<u>Rough and Tough wall finish</u>				
F	Prepare and apply rough and touch exterior wall finish as "Crown paints" or equivalent and to approved colour	1289	Sm		
	<u>Hand scratched burnt clay</u>				
G	250x75x35mm thick brick facing in cement mortar	475	SM		
	Eurocon tiles				
	Cement and sand (1:4) screed				
H	Screed backing in floor finished with wood float, thickness 20mm	348	Sm		
J	330 x 330 x 20mm eurocon tiles laid to screed backing (m.s) in approved colour and pattern	348	Sm		
K	Skirting 100 x 20mm square top edge	78	Lm		
	Total Element 05 to Summary				

LSC/34

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT 06				
	INTERNAL FINISHES				
	Cement and sand (1:4) screed				
A	Screed backing under floors finished with wood float, thickness 32mm to receive ceramic tiles (m/s)	261	Sm		
B	Ditto 20mm thick to floor to receive terrazzo (m/s)	905	Sm		
	FLOOR				
	Floor tiles				
C	330 X 330 X 8mm thick ceramic tiles as manufactured by "Flamingo Tiles" or other approved non-slip tiles fixed with approved adhesive in approved	261	Sm		
D	100mm high ditto skirting 8mm thick	20	Lm		
	Polished white cement based terrazo				
E	20mm thick paving to floor polished smooth including 40x4mm thick white plastic dividing strips	905	Sm		
F	100mm high ditto skirting 12mm thick	400	Lm		
	Floor Tiles				
G	450x450x10mm thick polished green or other approved classic colours granito tiles fixed with an approved adhesive in approved pattern	0	Sm		
H	Extra over for decorative tile in different colour to approval 450mm wide	0	Lm		
J	Ditto 100mm high skirting	0	Lm		
	Total to collection				

LSC/35

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	WALL AND CEILING FINISHES				
	Cement and sand (1:4) screed				
A	Screed backing to wall wood floated thickness 15mm	382	Sm		
	Coloured glazed ceramic wall tiles and fittings (cloakrooms)				
B	200 x 300 x 6mm as manufactured by "Flamingo Tiles" or other approved coloured tiles bedded and jointed in cement and sand 1:1 and pointed in coloured cement grouting	382	Sm		
	Lime plaster; 15mm thick (1:2:9)				
C	Plaster to wall	1182	Sm		
D	Ditto concrete surface	72	Sm		
E	Ditto to soffites of suspended slabs	1480	Sm		
	Sawn cypress				
F	Branding size 50 x 50mm	280	Lm		
G	Branding plugged size 75 x 50mm	40	Lm		
H	Suspended acoustic boards suspended to steel truss complete with corner panel suspensions, and flush jointing 12mm thick	1524	Sm		
J	19mm gypsum lining to soffites in approved pattern to branding (m/s)	45	Sm		
K	Extra over for forming trap door size 600 x 600mm	2	No		
L	100 x 25mm gypsum cornice	498	Lm		
	Total to collection below				
	COLLECTION				
	Brought forward from page LSC/35				
	Brought down from above				
	Total element 06 to summary				

LSC/36

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 07				
	BALUSTRADING & RAILINGS				
	Wrot mahogany				
A	100 x 50mm hand rail 3mm thick mild steel circular hollow extrusion tubes Composite balustrading comprising 50mm diameter x 3mm thick top rail welded onto 25mm x 3mm secondary baluster 200mm long at 450mm long; 50mm diameter primary baluster at 900mm centres and 30mm diameter x 2mm horizontal braces at 250mm centres to detail including grinding welds smooth fixing to concrete plinth and kerb and end to walling	0	Lm		
B	Staircase railing horizontal 1250mm high	0	Lm		
C	Staircase railing horizontal curved to 1500mm radii 1250mm high	0	Lm		
D	Balustrades railing horizontal 1250mm high	150	Sm		
	Total element 07 to summary				

LSC/37

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 08				
	PAINTING & DECORATING				
	ROOF				
	Prepare prime and apply one undercoat and two finishing coats of 1st quality super gloss paint to:-				
A	Timber surfaces of fascia/barge board exceeding 200mm but not exceeding 300mm girth	0	Lm		
	Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:				
B	General surfaces of 100mm diameter down pipe	0	Sm		
	WINDOWS				
	Prepare and supply two undercoats stainer and two finishing coats of varnish to:-				
C	Surface exceeding 100 but not exceeding 200mm girth window cill	126	Lm		
	Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:-				
D	Prepare and apply three coats of gloss oil paint to window casements exceeding 300mm girth internal	198	Sm		
E	Ditto external	198	Sm		
	Total to collection				

LSC/38

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	DOOR				
	Prepare and apply two undercoats stainer and two finishing coats of vanish to:-				
A	General surface of doors	189	Sm		
B	Surface not exceeding 100mm girth	680	Lm		
C	Surface 100 to 200mm girth	0	Lm		
D	Surface exceeding 200 but n.e. 300mm girth	92	Lm		
	Prepare and apply one undercoat and two finishing coats of gloss oil paint to:				
E	General surface of doors both side measured	74	Sm		
F	Surface not exceeding 100mm girth	170	LM		
G	Surface exceeding 100 but not exceeding 200mm girth	253	Lm		
H	Surfaces excceding 200 but not exceeding 300mm girth	0	Lm		
	Touch up primer and apply one undercoats and two finishing coasts of 1st quality supergloss paint to:				
J	General surfaces of metal (b.s.m.)	92	Sm		
	EXTERNAL FINISHES				
	Prepare and apply one undercoat and two finishing coats of Crown Emulsion paint to:				
K	General rendered surface externally	416	Sm		
L	Louvre block walling	70	Sm		
	Total carried to collection				

LSC/39

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	INTERNAL FINISHES				
	Prepare and apply one undercoat and two finishing coats of 1st quality silk vinyl paint to:-				
A	General plastered surfaces	1254	Sm		
B	General plastered surfaces of horizontal suspended soffits	1480	Sm		
C	General plastered surfaces of sloping soffits	0	Sm		
D	General surfaces of gypsum ceiling	1524	Sm		
E	General surfaces of louvre block walling	70	Sm		
F	Surface not exceeding 100mm girth of cornice	498	Lm		
	JOINERY FIXTURES				
	Prepare and apply two undercoats stainer and two finishing coats of vanish to:-				
F	General surface of timber	0	Sm		
G	Surface not exceeding 100mm girth	0	Lm		
H	Surfaces exceeding 100 but not exceeding 200mm girth	0	Lm		
	Total collection				

LSC/40

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Metal work				
	Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint paint to:-				
A	General surface of stair balustrading	189	sm		
B	Ditto grilled surface	0	Sm		
	Prepare and apply two undercoats stainer and two finishing coats of varnish to:-				
C	Surface of rails exceeding 200mm but not exceeding 300mm girth	0	Lm		
	Total carried to collection below				
	<u>Collection page</u>				
	Brought forward from page LSC/38				
	Brought forward from page LSC/39				
	Brought forward from page LSC/40				
	Brought down from LSC/41 above				
	Total element 08 to summary				

LSC/41

UPPER GROUND FLOOR

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
1	Reinforced concrete superstructure	LSC/26			
2	Walling	LSC/27			
3	Doors	LSC/31			
4	Windows	LSC/33			
5	External Finishes	LSC/34			
6	Internal Finishes	LSC/36			
7	Balustrading & Railings	LSC/37			
8	Painting and Decorating	LSC/41			
	SUB TOTAL				
9	Provide a sum of Kenya Shillings Two million (Kshs. 2,000,000/=) for electrical works				
10	Provide a sum of Kenya Shillings Two million (Kshs.2,000,000/=) for mechanical works				
	Total carried to main summary				

LSC/42

LAIKIPIA UNIVERSITY SCIENCE LABORATORIES

FIRST FLOOR

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT 01</u>				
	<u>REINFORCED CONCRETE</u>				
	SUPERSTRUCTURE				
	Vibrated reinforced concrete (1:1.5:3) Class				
	25/20mm in:				
A	Beams and ring beam	105	Cm		
B	Columns	27	Cm		
C	Gutter beam - 150mm thick	617	Sm		
D	Suspendend roof slabs, thickness 150mm	264	Sm		
	<u>Reinforcement (all provisional)</u>				
	Ribbed bars as described in:				
E	8mm diameter bars in gutters beam	4575	Kgs		
F	10mm ditto; in gutter beam	8358	Kgs		
G	8mm ditto in beams	4206	Kgs		
H	20mm ditto in beams	9180	Kgs		
J	16mm ditto in beams	9670	Kgs		
K	8mm ditto; in column	727	Kgs		
L	16mm ditto; in column	3092	Kgs		
M	25mm ditto in column	2940	Kgs		
N	32mm ditto in column	3060	Kgs		
P	10mm ditto in suspended roof slab	5100	Kgs		
	Total to collection				

LSC/43

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Sawn formwork to:</u>				
A	Sides and soffits of beams	1225	Sm		
B	Sides and soffites of gutter beams requiring strutting 3.50 to 7.00m high	538	Sm		
C	Sides of columns	251	Sm		
D	Ditto circular on plan 150mm radii	31	Sm		
E	Ditto 125mm radii	72	Sm		
F	Soffites of suspended slabs	254	Sm		
G	Edges of suspended slabs 150-225mm wide	94	Lm		
	Total to collection below				
	COLLECTION				
	Brought forward from page LSC/43				
	Brought down from page above				
	Total element 01 summary				

LSC/44

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT 02</u>				
	<u>WALLING</u>				
	<u>External walls</u>				
A	200mm thick natural stone walling; medium chiseled dressed; bedded and jointed in cement and (1:3) mortar	475	Sm		
C	190mm thick precast concrete louvred block jointed and bedded in cement sand mortar (1:4) mortar	70	Sm		
	<u>Internal walls</u>				
	Approved load bearing machine dressed "Thika" natural stone walling bedded and jointed in cement sand (1:3) mortar with 20mm wide hoop irons in every alternate course				
D	200mm thick walling	140	Sm		
E	150mm thick ditto	148	Sm		
F	100mm thick ditto	173	Sm		
	<u>Curtain walling</u>				
G	Powder coated anodised aluminium curtain walling comprising 100 x 50mm extruded aluminium frame sections at 900mm vertical centers and 1050mm horizontal centres; panell infilled with and including 6mm clear sheet glass; 2850mm high overall	80	Lm		
	Total element 02 to summary				

LSC/45

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p>ELEMENT NO. 03</p> <p>ROOFING</p> <p><u>Mild steel trusses</u> (All provisional)</p> <p><u>Thoroughly wirebrush steel to remove rust and mill scale, remove grease with white spirit and prime with one coat of red oxide primer all before installation. After installation, apply one undercoat and three coats of supergloss oil paint allowing 24 hours drying period between coats, of supergloss oil paint allowing 24 hours drying period between coats, all to 'crown' paints written instruction or other equal and approved</u></p> <p><u>Framed weldable</u></p> <p><u>The following in 41No. Truss type T1 overall span 13700 x 1835mm rise in 75 x 50 x 3mm RHS joists, rafters and 50 x 50 x 3mm RHS struts and set approx 7000mm above ground level, all fillet welded all to structural engineer's details</u></p>				
A	75 x 50 x 3mm RHS bottom chord (5.37kgs/m)	3104	Kg		
B	Ditto top chord 5.37kg/m)	3122	Kg		
C	50 x 50 x 3mm SHS struts and ties (4.43Kg/m)	2716	Kg		
D	Ditto king post (4.43kg/m)	64	Kg		
	<u>Accessories</u>				
E	8mm thick end plate welded to RHS joist and rafter	82	No		
F	400 x 200 x 12mm thick plate bolted to ringbeam	82	No		
G	75 x 75 x 3mm thick angle cleat welded onto plates	164	No		
	Total Carried to collection				

LSC/46

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Bolts grade 4-6 to BS 41900 with nut and washer</u>				
A	20mm diameter 300mm long Y-bolts grouted into concrete	328	No		
	<u>Holes</u>				
B	Drill holes in 12mm thick plate for 20mm diameter bolts	328	No		
	<u>The following in 4No. Truss type T2 overall span 9687 x 1835mm rise in 75 x 50 x 3mm RHS joists, rafters and 50 x 50 x 3mm RHS struts and set 7000mm above ground level, all fillet welded all to structural engineer's details</u>				
C	75 x 50 x 3mm RHS bottom chord (5.37kg/m)	211	Kg		
D	Ditto top chord (5.37kg/m)	212	Kg		
E	50 x 50 x 3mm SHS struts and ties (4.43kg/m)	197	Kg		
F	Ditto king post (4.43kg/m)	6	Kg		
	<u>Accessories</u>				
G	8mm thick end plat welded to RHS joist and rafter	4	No		
H	400 x 200 x 12mm thick plate to ringbeam	4	No		
J	75 x 75 x 3mm thick angle cleat welded onto plates	8	No		
	<u>Bolts grade 4-6 to BS 4190 with nut and washer</u>				
K	20mm diameter 300mm long Y-bolts embeded in concrete	16	No		
	Total carried to collection				

LSC/47

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Holes</u>				
A	Drill holes in 12mm thick plate for 20mm diameter bolts	16	No		
	<u>The following in 4No Truss T3 overall</u>				
	<u>Span4525 x 871mm high in 75 x 50 x</u>				
	<u>3mm RHS joist, rafters, and 50 x 50 x</u>				
	<u>3mm SHS struts and set 7000Mm above</u>				
	<u>ground level, all fillet welded all to</u>				
	<u>structural engineer's details</u>				
B	75 x 50 x 3mm RHS bottom chord (5.37kg/m)	98	Kg		
C	Ditto top chord (5.37kg/m)	99	Kg		
D	50 x 50 x 3mm SHS struts and ties (4.43kg/m)	74	Kg		
E	Ditto king post (4.43kg/m)	6	Kg		
	<u>Accessories</u>				
F	8mm thick end plate welded to RHS joist and rafter	4	No		
G	400 x 200 x 12mm thick plate bolted to ringbeam	4	No		
H	75 x 75 x 3mm thick angle cleat welded onto plates	8	No		
	<u>Bolts grade - 4-6 to BS 4190 with nut and washer</u>				
J	20mm diameter 300mm long Y-bolts embedded in concrete	16	No		
	<u>Holes</u>				
K	Drill holes in 12mm thick plate for 20mm diameter bolts	16	No		
	Total Carried to collection				

LSC/48

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>The following in 2No. Truss type T4 overall clear span 6600 x 871mm rise in 75x 50 x 3mm RHS joist, rafter and 50 x 50 x 3mm RHS struts and set 7000mm above ground level, all fillet welded all to structural engineer' details</u>				
A	75 x 50 x 3mm RHS bottom chord (5.37kg/m)	71	Kg		
B	Ditto top chord (5.37kg/m)	73	Kg		
C	50 x 50 x 3mm SHS struts and ties (4.43kg/m)	58	Kg		
D	Ditto king post (4.43kg/m)	8	Kg		
	<u>Accessories</u>				
E	8mm thick end plate welded to rHS joist and rafter	4	No		
F	400 x 200 x 12mm thick plate bolted to ringbeam	4	No		
G	75 x 75 x 3mm thick angle cleat welded onto plates <u>Bolt grade 4-6 to BS 4190 with nuts and washers</u>	8	No		
H	20mm diameter 300mm long Y-bolts embedded in concrete <u>Holes</u>	16	No		
J	Drill holes in 12mm thick plate for 20mm diameter bolts	16	No		
	Total carried to collection				

LSC/49

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>The following in 4No. Truss type T5 overall Span 4525 x 884mm rise in 75 x 50 x 3mm SHS joists, rafters and 50 x 50 x 3mm RHS struts and set 7000mm above ground level, all structural engineer's details</u>				
	75x 50 x 3mm RHS bottom chord				
A	(5.37kg/m)	98	Kg		
B	Ditto top chord (5.37kg/m)	100	Kg		
C	50 x 50 x 3mm SHS struts and ties (4.43kg/m)	78	Kg		
D	Ditto king post (4.43kg/m)	6	Kg		
	<u>Accessories</u>				
E	8mm thick end plate welded to RHS joist and rafter	4	No		
F	400 x 200 x 12mm thick plate bolted to ringbeam	4	No.		
G	75 x 75 x 3mm thick angle cleat welded onto plates	8	No		
	<u>Bolts grade 4-6 to BS 4190 with nuts and washers</u>				
H	20mm diameter 300mm long Y-bolts embedded in concrete	16	No		
	<u>Holes</u>				
J	Drill holes in 12mm thick plate for 20mm diameter bolts	16	No		
	Total carried to collection				

LSC/50

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>The following in 12No. Truss type T6 overall span 4300 x 1576mm rise in 75x 50 x 3mm RHS joists, rafters and 50 x 50 x 3mm RHS struts and set 7000mm above ground level, all fillet welded all to structural engineer's details</u>				
A	75 x 50 x 3mm RHS bottom chord (5.37kg/m)	277	Kg		
B	Ditto top chord (5.37kg/m)	287	Kg		
C	50 x 50 x 3mm SHS struts and ties (4.43kg/m)	180	Kg		
D	Ditto king post (4.43kg/m)	31	Kg		
	<u>Accessories</u>				
E	8mm thick end plate welded to RHS joist and rafter	12	No		
F	400 x 200 x 12mm thick plate bolted to ringbeam	12	No.		
G	75 x 75 x 3mm thick angle cleat welded onto plates <u>Bolts grade 4-6 to BS 4190 with nuts and washers</u>	24	No		
H	20mm diameter 300mm long Y-bolts embedded in concrete <u>Holes</u>	48	No		
J	Drill holes in 12mm thick plate for 20mm diameter bolts	48	No		
	Total carried to collection				

LSC/51

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>The following in 4No. Truss type T7 overall Span 3600 x 482mm rise in 75 x 50 x 3mm RHS joists, rafters and 50 x 50 x 3mm RHS struts and set 3450mm above ground level, all fillet welded all to structural engineer's details</u>				
A	75 x 50 x 3mm RHS bottom chord (5.37kg/m)	116	Kg		
B	Ditto top chord (5.37kg/m)	120	Kg		
C	50 x 50 x 3mm SHS struts and ties (4.43kg/m)	75	Kg		
D	Ditto king post (4.43kg/m)	9	Kg		
	<u>Accessories</u>				
E	8mm thick end plate welded to RHS joist and rafter	4	No		
F	400 x 200 x 12mm thick plate bolted to ringbeam	4	No.		
G	75 x 75 x 3mm thick angle cleat welded onto plates <u>Bolts grade 4-6 to BS 4190 with nuts and washers</u>	8	No		
H	20mm diameter 300mm long Y-bolts embedded in concrete <u>Holes</u>	16	No		
J	Drill holes in 12mm thick plate for 20mm diameter bolts <u>Unframed; weldable</u>	16	No		
K	75 x 50 x 3mm RHS rafters (5.37kg/m)	414	LM		
	Total carried to collection				

LSC/52

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Ditto ridge line, hip and valley line s	320	Lm		
B	Zs 2-Purlins (Weight 3.34 Kg/m)	1533	Lm		
	<u>Rainwater disposal</u>				
	<u>24g galvanized mild steel sheeting</u>				
C	Raking flashing overall 400mm girth top and turned and wedged into and including 50 x 50mm mortice in stone or concrete and rin in with cement and sand (1:3) mortar and bottom edge dressed over roofing	184	Lm		
	<u>26g galvanized mild steel sheeting; all welds ground smooth</u>				
D	100mm dia fulbora Outlet	46	No		
E	100mm dia rain water downpipe fixed with and including mild steel straps at 900mm centres, plugged and screwed to wall	140	Lm		
F	Extra; swanneck bend with 1135mm projection	46	No		
K	Extra horse shoe bend	46	No		
L	100mm grating	46	No		
	Total carried to collection				

LSC/53

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p>Anchor bolts</p> <p>12mm x 50 x 2mm diameter "J" bolts, 400mm long with head nut and washers cast into concrete</p>	594	No		
B	<p>Covering</p> <p>Gauge 26 resincoat galvanized mild steel troughed IT4 roof sheeting fixed to purlins at 1350mm general spacing with J bolts</p>	1537	Sm		
C	<p>Standard barrel half round ridge tile to match 333mm girth</p>	122	Lm		
D	<p>Ditto hip cap</p>	106	Lm		
E	<p>- Extra over roofing cover for raking cutting</p>	308	Lm		
F	<p>Rainwater Goods</p> <p>Extra over gutter for 100mm diameter fulbora outlet</p>	32	No		
	Total carried to collection				

LSC/54

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	100mm diameter UPVC rain water downpipe fixed to wall with holder bats at 900mm centres	198	Lm		
B	- Extra over downpipe for swan neck projecting 600mm	32	No		
C	Ditto shoe	32	No		
Galvanised mild steel sheet 22 gauge					
D	900mm girth lining to slopping gutters with 200mm laps comprising 150 x 200mm gutter and 200mm integral flashing each side	48	Lm		
Total element 03 to summary					

LSC/55

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION</u>				
	From page LSC/46				
	From page LSC/47				
	From page LSC/48				
	From page LSC/49				
	From page LSC/50				
	From page LSC/51				
	From page LSC/52				
	From page LSC/53				
	From page LSC/54				
	From page LSC/55				
	Total element 03 to summary				

LSC/56

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT 04				
	DOORS				
	Mild steel casement				
A	Double griled door comprising 50 x 50 x 3mm rolled hollow section frame all round in filled with 30 x 30 x 2mm thick RHS vertical baluster 150mm center and similar horizontal member at 150mm centers in a straggered configuration overall size 1800 x 2400mm in 2 No equal leaves	2	No		
B	Ditto 3000mmx2400mm high	2	No		
C	Mild steel pannel double door overall size 1200x2400mm high in 2No. equal leaves each leaf comprising of 50x50x3mm RHS framing and metal lugs including purpose made hanging and locking accessories once primer before delivery to the site	8	No		
	Aluminium				
D	Aluminium sections 2mm thick 50 x 50mm extrusions in top bottom and stiles and 100 x 50mm middle rail resulting bottom panel infilled with 25mm thick blockboard laminate faced both sides and top panel left open for glazing (m/s) in door overall size 900x 2850mm high comprising 900 x 750mm high top fanlight and 900 x 2100mm openable leaf complete with and including locking devices	10	No		
E	Ditto double doors in 2No. Equal leaves overall size 1200 x 3050mm high	0	No		
	Timber doors				
F	50mm thick solid double paneled door overall size 1200 x 2400mm high all in solid mahogany in two equal leaves each leaf comprising 150mm top rail and stiles 200mm middle and bottom rail resulting both panels instilled with bevel raised and fielded panels	2	No		
G	50mm thick ditto size 1200x2850mm high	2	No		
	Total carried to collection				

LSC/57

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	HDF Mahogany veneered timber door				
A	45mm thick moulded panel door as supplied by BG Bison or other equal approved overall size 900 x 2850mm high with 750mm top fanlight	20	No		
B	45mm ditto 900x2400mm high with 300mm ditto	2	No		
C	45mm thickmoulded panelled double door in two equal leaves overall size 1200 x 2850mm high comprising of 750 x mm high glazed fan light at top (m/s) 2100mm high openable leaves each faced with interior quality mahogany veneer both sides and hard wood lipped all round	6	No		
D	Ditto 1200x2400mm high	2	No		
	Flush doors				
E	45mm thick semi solid cored flush double door in 2No. Equal leaves hardwood lipped size 1800 x 2850mm high faced both sides with interior quality plywood facing both sides with 1800 x 750 high glazed fanlight at top	0	No		
F	Ditto 1300 x 2100mm high double leaf	8	No		
G	Size 900 x 2100mm ditto	8	No		
	The following in wrot mahogany				
H	150 x 50mm thick door frame with one labour plugged	77	Lm		
J	150 x 50mm transome, 2 labours	15	Lm		
K	100 x 50mm frame one labours plugging	233	Lm		
L	100 x 50mm transome with two labours	20	Lm		
M	40 x 15mm architrave with one labour	311	Lm		
N	25mm quadrant	311	Lm		
P	25 x 25mm glazing beads	228	Lm		
	Total carried to collection				

LSC/58

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	4mm thick clear sheet glass to wood:				
A	Panes 0.5 to 1.00 square meters	21	Sm		
B	Panels 0.10 to 0.50 square meters	2	Sm		
	<u>4mm thick clear sheet to metal with glazing compound</u>				
C	Panes 0.5 to 1.00 square metres	3	Sm		
	6mm thick tinted glass to aluminium with tack-on wash leather				
D	Panes 0.5 to 1.00 square meters	16	Sm		
	Ironmongery				
	Supply and fix the following ironmongery as "union" or other equal and approved to wood with matching screws				
E	Cylinder Bathroom lock set with turn handle and rose in satin anodized aluminium set of lever furniture Ref. Toucan DS-051	16	No		
F	Double cylinder lock set with handle on plate complete with lever furniture ditto. Ref. Elegance LS-C85-306 SN	22	No		
G	Deadlock to steel door	4	No		
H	Double cylinder lock set for double door with satin anodized aluminium set of lever furniture Ref. Elegance LS-C85-306 SN	12	No		
J	100mm stainless steel bearing butt hinges Ref. BB-403030-SS	36	Prs		
K	100mm brass parliament butt hinges Ref. P-404040-SS	69	Prs		
L	Steel door lock	8	NO		
	Total carried to collection				

LSC/59

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Door closer as Union Ref. 8834	4	No		
B	38mm diameter rubber door stopper plugged to floor	100	No		
C	150mm long lever action flush bolt Ref. No U8052	20	No		
	Total carried to collection				
	<p><u>Collection</u></p> <p>Brought forward from page LSC/57</p> <p>Brought forward from page LSC/58</p> <p>Brought forward from page LSC/59</p> <p>Brought forward from page LSC/60 above</p>				
	Total element o4 carried to summary				

LSC60

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Element 05</u>				
	WINDOWS				
	Fine chiseled "Blue Njiru" stone walling in cement mortar				
A	150 x 22mm cill, bedded and jointed in cement and sand 1:1 and pointed in coloured cement mortar	126	Lm		
	Supply and fix double metal curtain rods from "Challenge Engineering" or other equal and approved comprising of 25mm diameter wrought iron front 16mm diameter rear rail complete with fixing brackets, curtain holding rings and decorative end stops and all necessary paintwork				
B	Curtain rods	62	Lm		
	Total to collection				

LSC/ 61

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p>Supply, assemble and fix the following purpose-made mild steel <u>OUTWARD OPENABLE</u> windows casement complete with all opening accessories, 50 x 50mm thick frame units; including "snap on" 30mm wide permanent vent; building in ligs to jambs; plugging and screwing head and cill; bedding frames in waterproof cement mortar and pointing in approved mastic externally; fixing 6mm thick reflective glass m.s oiling, easing and adjusting as described in the following overall sizes</p>				
A	2000 x 1800mm high	32	No		
B	2000 x 1500mm high	22	No		
C	900 x 900mm high	20	No		
	Glazing				
D	4mm thick clear sheet glass and glazing in panes 0.1-1.0sm with putty compound	181	Sm		
E	Ditto; obscured glass	16	Sm		
	Total carried to collection Collection				
	Brought forward from page LSC/61				
	Brought forward from page LSC/62				
	Total Element 05 to summary				

LSC/62

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT 06</u>				
	EXTERNAL FINISHES				
	Wall Finishes				
A	Extra over natural stone walling for neat flush horizontal and vertical joints in coloured cement mortar	0	Sm		
	Cement and sand (1:4)				
B	15mm thick cement sand (1:4) render to column surfaces wood floated	205	Sm		
C	Ditto beams	0	Sm		
D	Ditto sides and soffites of gutter beams	621	Sm		
E	Screeding to receive brick facing	475	Sm		
	Ruff and Tuff Wall Finish				
F	Prepare and apply Rough and Tough exterior wall finish as "Crown Paints" or equivalent and approved colour	1289	Sm		
	Hand scratched burnt clay				
G	250x75x35mm thick brick facing in cement mortar	475	Sm		
	<u>Floor tiles</u>				
	Cement and sand (1:4) screed				
H	Screed backing under floors finished with wood float thickness 20mm	348	Sm		
	Eurocon tiles				
J	330x 330 x 20mm Eurocon tiles laid to screed backing (m.s) in approved colour and pattern	348	Sm		
K	Skirting 100 x 19mm square top edge	78	Lm		
	Total to collection				

LSC/63

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Roof finishes				
A	Form groove in concrete for edge of felt roofing and grout in cement sand mortar (1:4) including forming bell mouth joint <u>Supply and fit APP water proofing membrane (m/s) as Italbuild Ltd laid strictly in accordance with manufacturer's printed instructions</u>	383	Lm		
B	Gutter cover laid to fall and cross fall on sceed	211	Sm		
C	600mm high with top edge dressed into groove (m/s) and bottom edge jointed to felt	383	Lm		
D	Dress felt around 100mm rain water outlet <u>Light weight roof screeds consisting of cement, sand and pumice (1:3:7) with 6mm layer of cement and sand topping laid to falls and crossfalls.</u>	32	No		
E	25mm screed on concrete to receive felt roofing sloping < 45 degrees from horizontal	211	Sm		
F	50 x 50mm triangular fillet	303	Lm		
G	Work screed around 100mm rainwater outlet <u>Precast concrete class 20/12mm fair faced finished smooth</u>	32	No		
H	250x50mm capping sunk weathered both surfaces ad twice throated bedded and jointed in cement mortar (1:3)	396	Lm		
	Total carried to collection				

LSC/64

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION</u>				
	Brought forward from page LSC/63				
	Brought forward from page LSC/64				
	Total element 06 to summary				

LSC/65

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT 07				
	INTERNAL FINISHES				
	Cement and sand (1:4) screed				
A	Screed backing under floors finished with wood float, thickness 32mm to receive ceramic tiles (m/s)	261	Sm		
B	20mm thick to floor to receive terrazzo (m/s)	905	Sm		
	FLOOR				
	Floor tiles				
C	300 X 300 X 8mm thick ceramic tiles as manufactured by "Flamingo Tiles" or other approved non-slip tiles fixed with approved adhesive in approved pattern	261	Sm		
D	100mm high ditto skirting	20	Lm		
	Polished white cement based terrazzo				
E	20mm thick paving to floor polished smooth including 40x4mm thick white plastic dividing strip	905	Sm		
F	100mm high ditto skirting 12mm thick	400	Lm		
	Total to collection				

LSC/66

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	WALL AND CEILING FINISHES				
	Cement and sand (1:4) screed				
A	Screed backing to wall wood floated thickness 15mm	382	Sm		
	Coloured glazed ceramic wall tiles and fittings (cloakrooms)				
B	200 x 300 x 6mm as manufactured by "Flamingo Tiles" or other approved coloured tiles bedded and jointed in cement and sand 1:1 and pointed in coloured cement grouting	382	Sm		
	Lime plaster; 15mm thick (1:2:9)				
C	Plaster to wall	1182	Sm		
D	Ditto concrete surface	72	Sm		
E	Ditto to soffitEs of suspended slabs	254	Sm		
	Sawn cypress				
F	Branding size 50 x 50mm	0	Lm		
G	Branding plugged size 75 x 50mm	0	Lm		
H	Suspended acoustic boards suspended to steel truss complete with corner panel suspensions, and flush jointing12mm thick	1270	Sm		
J	19mm gypsum lining to soffites in approved pattern to branding (m/s)	0	Sm		
K	Extra over for forming trap door size 600 x 600mm	8	No		
L	100 x 25mm gypsum cornice	458	Lm		
	Total to collection below				
	COLLECTION				
	Brought forward from page LSC/66				
	Brought down from above				
	Total element 07 to summary				

LSC/67

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 08				
	BALUSTRADING & RAILINGS				
	Wrot mahogany				
A	100 x 50mm hand rail	0	Lm		
	3mm thick mild steel circular hollow extrusion tubes				
	Composite balustrading comprising 50mm diameter x 3mm thick top rail welded onto 25mm x 3mm secondary baluster 200mm long at 450mm long; 50mm diameter primary baluster at 900mm centres and 30mm diameter x 2mm horizontal braces at 250mm centres to detail including grinding welds smooth fixing to concrete plinth and kerb and end to walling				
B	Staircase railing raking 1250mm high	0	Lm		
C	Staircase railing horizontal curved to 1500mm radii 1250mm high	0	Lm		
D	Balustrades railing horizontal 1250mm high	150	Lm		
	Total element 08 to summary				

LSC/68

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 09				
	PAINTING & DECORATING				
	ROOF				
	Prepare prime and apply one undercoat and two finishing coats of 1st quality super gloss paint to:-				
A	Timber surfaces of fascia/barge board exceeding 200mm but not exceeding 300mm girth	0	Lm		
	Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:				
B	General surfaces of 100mm diameter down pipe	0	Sm		
	WINDOWS				
	Prepare and supply two undercoats stainer and two finishing coats of vanish to:-				
C	Surface exceeding 100 but not exceeding 200mm girth window cill	126	Lm		
	Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:-				
D	Prepare and apply three coats of gloss oil paint to window casements exceeding 300mm girth internal	198	Sm		
E	Ditto external	198	Sm		
	Total to collection				

LSC/69

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>DOOR</u>				
	Prepare and apply two undercoats stainer and two finishing coats of vanish to:-				
A	General surface of doors	189	Sm		
B	Surface not exceeding 100mm girth	680	Lm		
C	Surface 100 to 200mm girth	0	Lm		
D	Surface exceeding 200 but n.e. 300mm girth	92	Lm		
	Prepare and apply one undercoat and two finishing coats of gloss oil paint to:				
E	General surface of doors b/s measured	74	Sm		
F	Surface not exceeding 100mm girth	170	Lm		
G	Surface exceeding 100 but not exceeding 200mm girth	253	Lm		
H	Surface exceeding 200 but not exceeding 300mm girth	0	Lm		
	Touch up primer and apply one undercoat and two finishing coats of 1st quality super gloss paint to:				
J	General surfaces of metal both side measured	92	Sm		
	EXTERNAL FINISHES				
	Prepare and apply one undercoat and two finishing coats of crown emulsion paint to:				
K	General rendered surface externally	814	Sm		
L	Louvre block walling	70	Sm		
	Total carried to collection				

LSC/70

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	INTERNAL FINISHES				
	Prepare and apply one undercoat and two finishing coats of 1st quality silk vinyl paint to:-				
A	General plastered surfaces	1254	Sm		
B	General plastered surfaces of horizontal suspended soffits	254	Sm		
C	General plastered surfaces of sloping soffits	0	Sm		
D	General surface of gypsum ceiling	1270	Sm		
E	General surface of louvre block walling	70	Sm		
	Prepare and apply two undercoats stainer and two finishing coats of vanish to:-				
F	Surfaces not exceeding 100mm girth of cornice	458	Lm		
	Prepare and apply two undercoats stainer and two finishing coats of vanish to:-				
G	General surface of timber	0	Sm		
H	Surface not exceeding 100mm girth	0	Lm		
J	Surfaces exceeding 100 but not exceeding 200mm girth	0	Lm		
	Total to collection				

LSC/71

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BALUSTRADING				
	Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:-				
A	General surface of balcony/passage balustrading (B.S.M)	189	Sm		
B	General surface of grille services (B.S.M)	0	Sm		
	Prepare and apply two undercoats stainer and two finishing coats of varnish to:-				
C	Surface of rails exceeding 200mm but not exceeding 300mm girth	0	Lm		
	Total carried to collection below				
	<u>Collection page</u>				
	Brought forward from page MCH/69				
	Brought forward from page MCH/70				
	Brought forward from page MCH/ 71				
	Brought down from above				
	Total element 12 to summary				

LSC/72

ITEM	DESCRIPTION	QTY			AMOUNT
	1ST FLOOR SUMMARY				
1	Reinforced Concrete Superstructure	LSC/44			
2	Walling	LSC/45			
3	Roofing	LSC/56			
4	Doors	LSC/60			
5	Windows	LSC/62			
6	External Finishes	LSC/65			
7	Internal Finishes	LSC/67			
8	Balustrading & Railings	LSC/68			
9	Painting and Decorating	LSC/72			
	SUB TOTAL				
10	Provide a sum of Kenya Shillings Two million (Kshs. 2,000,000/=) for electrical works				
11	Provide a sum of Kenya Shillings Two million (Kshs. 2,000,000/=) for mechanical works				
	Total carried to main summary				

LSC/73

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	- <u>STAIR CASE - 2 NO</u> <u>Insitu concrete (1:2:4) reinforcement</u> <u>Normal class 20/20mm vibrated</u>				
A	- Stairs	3	Cm		
B	150mm thick landing	7	SM		
C	Stair beam	1	CM		
	Bars: Ribbedsteel: cold worked: B.S 4461 including bends, hooks tying wire, distance block and spacers				
D	16mm diameter bars	52	KG		
E	12mm diameter bars	336	KG		
F	10mm diameter bars	104	KG		
G	8mm diameter bars	31	KG		
	<u>Sawn formwork to:</u>				
H	Sloping soffits of stairs	12	SM		
J	Horizontal soffits of landings	7	SM		
K	Ditto edge of landing 75-150mm	10	LM		
L	Ditto sides and soffites of stair beam	12	SM		
M	Riser girth over 75mm - 150mm high	34	LM		
N	Sides and soffites of beam	12	SM		
P	Open string of staircase 335mm external height including cutting to profile of treads and riser	14	LM		
	Carried to collection				

LSC/74

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>12mm thick cement sand (1:6) plaster to:</u>				
A	Stair beam	12	SM		
B	Sloping soffits of stairs	12	SM		
C	horizontal soffit of landing	7	SM		
	<u>20mm thick cement sand (1:3) screed trowelled rough to receive terrazzo on:</u>				
D	Tread 300mm wide	24	LM		
E	Riser 150mm high	38	LM		
F	Landing	7	SM		
G	Edge of upto stair string 300mm wide	14	LM		
	<u>20mm polished terrazzo on:</u>				
H	Tread 300mm wide	34	LM		
J	Riser 150mm high	38	LM		
K	Landing	7	SM		
L	Edge of stair 300mm wide	14	LM		
M	20x100mm polished terrazzo skirting	21	LM		
N	Non slip carborundum inset to treads	34	LM		
	<u>Prepare and apply one undercoat and two finishing coats of vinyl matt plastic emulsion</u>				
P	Stair beam	12	SM		
Q	Sloping soffits of stairs	12	SM		
R	Horizontal soffit of landing	7	SM		
	CARRIED TO COLLECTION				
	<u>COLLECTION</u>				
S	Brought forward from page LSC/74				
T	Brought forward from page LSC/75				
	SUB-TOTAL Multiply by two (2)				
	Total for element No. 10 2 No. Stair Case carried to Summary				

LSC/75

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>RAMP -1 NO.</u>				
	<u>EARTHWORKS (All Provisional)</u>				
A	Clear site of all shrubs undergrowth including grubbing up roots and dispose off as directed	0	SM		
B	Cut down trees not exceeding 600mm girth, grub up roots and stumps and store on site as directed	0	NO		
C	Excavate oversite average 200mm deep and cart away	0	SM		
D	Excavate to reduce level not exceeding 1.5 metres deep	0	CM		
E	Excavate trenches for strip foundation not exceeding 1.5 metres fro reduced level	83	CM		
F	Ditto for column bases	52	CM		
G	Ditto 1.50 to 30 meters deep	7	CM		
	<u>Filling and carting away</u>				
H	Return fill and ram with selected and approved excavated material around foundations	101	CM		
J	Load and cart away excavated materials from site	41	CM		
K	Approved hardcore bed handpacked, well watered and compacted leveled to receive concrete 300mm deep	21	CM		
L	50mm selected line material to hardcore surfaces well rolled and leveled to receive concrete	71	SM		
M	Apply 'Termidor' or any other similar and approved termite chemical treatment on blinded surfaces	71	SM		
N	500 gauge polythene sheeting with sides and end laps as described laid on blinded surface	71	SM		
	Total carried to Collection				

LSC/76

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	- <u>Plain concrete class Q mix 1:3:6 in:-</u>				
A	50mm thick blinding under foundation footing	32	SM		
B	Ditto column bases	15	SM		
	<u>Vibrated reinforced concrete grade 20/20 (1:2;4) in</u>				
C	Column bases	15	CM		
D	Strip footings	6	CM		
E	Columns	1	CM		
F	150mm thick ground floor bed	71	SM		
	<u>Sawn formwork</u>				
G	Sides of column bases	24	SM		
H	Sides of strip footing	27	SM		
J	Sides of column curved to 100mm radii	15	SM		
K	Edges of floor bed 75-150mm high	32	LM		
L	Ditto curved to 1500mm radii	7	LM		
	<u>Steel reinforcement as described including cutting to length bending and fixing including all necessary tying wires etc</u>				
M	8mm diameter ribbed square twisted steel bar in strip footing	87	KG		
N	10mm ditto in strip footing	183	KG		
P	8mm ditto in column	30	KG		
Q	16mm ditto in column	438	KG		
R	16mm ditto in column base	675	KG		
S	20mm ditto	787	KG		
	<u>Steel fabric BRC mesh reinforcement to B.S 4483</u>				
T	No. 142 fabric weighing 2.22Kg/sm laid in bed a.b.d	71	SM		
	Total Carried to Collection				

LSC/77

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	- <u>Natural stone walling roughly squared in cement and sand (1;3) mortar and including reinforcing with 20x3mm thick hoop iron in every alternate course</u>				
A	200mm thick foundation walling <u>Plinths</u>	83	SM		
B	12mm thick cement and sand (1:3) render to plinths	24	SM		
C	Prepare and apply three coats bituminous paint to rendered plinths	24	SM		
	Total carried to collection				

LSC/78

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Reinforced concrete</u>				
	<u>1:2:4 in</u>				
	-				
A	Roof beams	8	CM		
B	Beams raking	8	CM		
C	Beams horizontal	2	CM		
D	Columns	6	CM		
E	175mm thick suspended ramp	63	SM		
F	Ditto horizontal	8	SM		
	<u>Sawn formwork to:</u>				
G	Sides and soffites of beams, horizontal	18	SM		
H	Ditto, raking	90	SM		
J	Ditto curved to 1500mm radii	10	SM		
	Vertical side columns curved to 100mm				
K	radii	66	SM		
L	Soffites of raking suspended ramp slabs	63	SM		
M	Ditto horizontal	8	SM		
N	Edges of suspended slab 150 to 75mm wide	66	LM		
P	Ditto curved to 1500mm radii	10	LM		
	-				
	-				
	Carried to collection				

LSC/79

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Steel reinforcement as described including cutting to length bending hoisting and fixing including all necessary tying wires and spacing blocks (all provisional)</u>				
	<u>Ribbed bars</u>				
A	8mm diameter bars columns	118	KG		
B	8mm diameter bars beams	676	KG		
C	12mm ditto in beam	0	KG		
D	16mm ditto in columns	750	KG		
E	16mm ditto in beams	557	KG		
F	20mm Ditto	1301	KG		
G	10mm diameter bars in suspended ramp	1420	KG		
	Carried to collection				

LSC/80

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>Roof Covering</u> Gauge 26 IT4 resincot roofing sheet nailed to purlins at 1350mm general spacing	90	SM		
	<u>Accessories,fixing as necessary to roof covering</u>				
B	Standard barrel half round ridge tile to match 2000 mm long x 333mm girth to ridge cap,and fixing to position	14	LM		
C	Ditto hip cap ditto	14	LM		
	<u>Construction</u> <u>Trusses - 9 No.</u> <u>The following in 9 No. trusses at 1800mm general spacing pressure impregnated first grade cypress timber and hoisting 6300mm Approx above ground floor level</u>				
D	150x50mm Rafters	51	LM		
E	150x50mm tie beams	39	LM		
F	150x50mm king post	8	LM		
G	100x50mm struts and ties	25	LM		
H	100x50mm Collar splices	36	LM		
	<u>Other Roof members</u>				
J	75x50mm purlins	152	LM		
K	150x50mm purlins	0	LM		
L	150x50mm common rafters	23	LM		
M	150x50mm hip rafters	0	LM		
N	100x50mm wall plate bolted to wall with and including 12mm diameter bolts 60mm long at 1000mm centres	33	LM		
P	200x50mm Ridge board	14	LM		
Q	225x25mm wrot cypress fascia berge board	33	LM		
	Carried to collection				

LSC/81

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Rain Water Goods and Accessories</u>				
A	150mm diameter UPVC gutters and fixing to fascia with brackets at 900mm centres	28	LM		
B	Ditto curved to 1500mm radius	45	LM		
	<u>Extra for;</u>				
C	Bend	8	NO		
D	Stopped end	2	NO		
E	75mm outlet	4	NO		
F	75mm diameter UPVC down pipe and fixing to wall with holder bats at 900mm centre	25	LM		
	<u>Extra for:</u>				
G	Swaneck offset	4	NO		
H	Shoe	4	NO		
	<u>Decoration and painting</u>				
	<u>Knot ,stain prepare and apply three coats oil gloss paint to:</u>				
J	Surface of timber 200-300 mm girth	33	LM		
	Carried to collection				

LSC/82

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Ramp finishes</u>				
	<u>12mm thick cement sand (1:6) plaster to:</u>				
	-				
A	Beams	118	SM		
B	Sloping soffits of ramp	63	SM		
C	Horizontal soffits of ramp	8	SM		
D	Vertical sides of column	68	SM		
E	Raking edges of ramp	13	SM		
	<u>20mm thick cement sand (1:3) screed backing trowelled rough to receive terrazzo on:</u>				
	-				
F	Horizontal floor bed	8	SM		
G	Sloping ramp	63	SM		
	-				
H	Edge of kerb 300mm wide	72	LM		
	<u>20mm polished terrazzo on:</u>				
	-				
H	Floors level	8	SM		
J	Ramp	63	SM		
K	Edge of ramp 300mm wide	72	LM		
L	40x4mm thick white pvc dividing strip	150	LM		
	<u>Prepare and apply one undercoat and two finishing coats of vinyl matt plastic emulsion</u>				
	-				
M	Beam	118	SM		
N	Sloping and horizontal soffits of ramp	71	SM		
P	Column surfaces	68	SM		
Q	Raking edges of ramp	13	SM		
	Total carried to Collection				

LSC/83

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Ceiling</u>				
A	50x50mm sawn celcured cypress timber brandering	232	LM		
B	75x50mm ditto but plugged	82	LM		
C	12mm thick gypsum board ceiling screwed to timber brandering (m/s).	71	SM		
D	Extra over celotex ceiling for trap door size 600x450mm wide comprising with and including 50x50mm timber framing.	1	NO		
E	75x25mm thick wrot softwood moulded cornice	82	LM		
	<u>Prepare and apply 3 No. coats matt vinyl plastic emulsion paint to:</u>				
F	Celotex ceiling surfaces	71	SM		
G	Timber surfaces not exceeding 100mm girth	82	LM		
	Carried to collection				
	<u>COLLECTION</u>				
	Brought forward from page LSC/76				
	Brought forward from page LSC/77				
	Brought forward from page LSC/78				
	Brought forward from page LSC/79				
	Brought forward from page LSC/80				
	Brought forward from page LSC/81				
	Brought forward from page LSC/82				
	Brought forward from page LSC/83				
	Brought forward from page LSC/84 above				
	Sub-Total or 1 No. Ramp				
	Multiply by two (2)				
	Total for 2 No ramps carried to summary				

LSC 84

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	STAIRS AND RAMPS				
	SUMMARY				
1	Stair case - 2 No	LSC/75			
2	Ramp - 2 No.	LSC/84			
	SUB TOTAL				
3	Provide a sum of Kenya Shillings One million (Kshs. 1,000,000/=) for electrical works				
	Total carried to main summary				

LSC 85

PROVISIONAL SUMS

ITEM	DESCRIPTION			AMOUNT
PROVISIONAL SUM				
A	Allow provisional sum of Kshs. Nine million and eight hundred thousand (Kshs. 9,800,000.00) only for joinery works in fixtures and fittings		Sum	9,800,000.00
B	Allow provisional Sum of Kshs.Six Million (Kshs. 6,000,000.00) only for project management and transport expenses		Sum	6,000,000.00
C	Allow for profit		%	
D	Allow provisional Sum of Kshs. Eight hundred thousand (Kshs. 800,000.00) only for Clerk of Works expenses		Sum	800,000.00
E	Allow for profit		%	
F	Provide a provisional sum of kenya shillings Four million, five hundred thousand (Kshs. 4,500,000.00) for temporary roads and parkings		Sum	4,500,000.00
G	Provide a provisional sum of Kenya shillings twelve million (kshs. 12,000,000.00) for foul and chemical waste drainage		Sum	12,000,000.00
H	Provide a provisional sum of Kenya shillings Fifteen million, (Ksh. 15,000,000.00) for contingencies		Sum	15,000,000.00
J	Provide a provisional sum of Kenya shillings five million (Kshs. 5,000,000.00) for structured cabling		Sum	5,000,000.00
K	Provide a provisional sum of kenya shillings five million (Kshs. 5,000,000.00) for provision of fume chambers		Sum	5,000,000.00
L	Provide a sum of Kenya Shilings Seven million (Kshs. 7,000,000) for rain water harvesting and associated water storage tank		Sum	7,000,000.00
Carried to collection				

PS/01

Item				Kshs
	<p><u>Project vehicle</u> The contractor shall provide a 4 door 4x4 wheel drive project supervision vehicle with a capacity to comfortably carry five (5) passengers fully registered with one year warranty and conform to the following:</p> <p>(i) Engine turbo 3000 cc diesel engine displacement (ii) Transmission - 5 - speed manual gear box (iii) Suspension - front 4x4 coil spring & rear leaf spring (iv) Fully loaded and accessorised</p> <p>The contractor shall provide comprehensive insurance cover for the vehicle and maintain all necessary licences and routine service for the entire duration of the contract</p> <p>The contractor shall provide a fully qualified and competent driver</p> <p>The vehicle shall be stationed at Laikipia University during normal Government working hours. The vehicle shall be used for supervision of the project at the direction of the Project Manager</p> <p>A Initial cost for providing a brand new 4x4 wheel drive double cabin as "Isuzu Dmax " pickup including charges thereof in connection with registration</p> <p>B Allow for administrative on costs and finance charges thereto</p> <p>C Allow for providing full comprehensive insurance during the contract period or any other as may be extended</p> <p>D 2years @ Ksh per year Allow for providing a competent full-time, driver as described herebefore.</p> <p>24 Months @ Kshs Per month</p>		Sum % Sum Sum	
	CARRIED FORWARD TO PS/03			
	PS/02			

Brought Forward from PS/02			
E	Allow regular maintenance, fuel, lubricants, spares and tyres for distances travelled for the first 100,000 Kilometers 100,000 Km @ Ksh Per kilometer		Sum
F	Allow for regular maintenance fuel, lubricants, spares and tyres for distances travelled above the 100,000 Kilometers range 50,000 Km @ Kshs Per kilometer		Sum
G	Allow for reconditioning the engine, chasis, bodywork and upholstery and for reverting ownership to Laikipia University inclusive of all Government taxes		Sum
Carried to collection below			
<u>Collection</u>			
Brought forward from page PS/01			
Brought forward from page PS/03 above			
PROVISIONAL SUMS CARRIED TO GRAND SUMMARY			
PS/03			

PRIME COST

ITEM	DESCRIPTION			AMOUNT
	<u>PRIME COST SUMS</u>			
	<u>Specialised Equipments</u>			
A	Provide a sum of kenya shillings Twenty five millionn(kshs. 25,000,000.00) only for specilized laboratory equipments			25,000,000.00
B	Add for profits		%	
C	Allow for attendance		Sum	
	Solar Water Heating			
D	Provide a sum of Kenya shillings Three million (Kshs. 3,000,000/=) for Solar Lighting			3,000,000.00
E	Add for profits		%	
F	Allow for attendance		Sum	
	CARRIED TO GRAND SUMMARY			

PC/01

GRAND SUMMARY

**PROPOSED SCIENCE LABORATORIES AT LAIKIPIA UNIVERSITY
MAIN CAMPUS**

ITEM	DESCRIPTION	FROM PAGE	FOR OFFICIAL USE ONLY (Kshs)	FOR TENDERERS' USE ONLY (kshs)	
	<u>GRAND SUMMARY</u>	-			
A	Particular Preliminaries	PP/8			
B	General Preliminaries	GP13			
C	Total for Lower Ground Floor	LSC/24			
D	Total for Upper Ground Floor	LSC/42			
E	Total for 1st Floor	LSC/73			
F	Total for Stairs and Ramps	LSC/85			
G	Provisional sums	PS/03			
	Sub-Total 01				
	ADD 16% V.A.T				
H	Prime cost	PC/01			
	GRAND TOTAL				
	CARRIED TO FORM OF TENDER				
<p>Contract Period52 weeks.....</p> <p>Amount in words</p> <p>.....</p> <p>Tenderers Name</p> <p>.....</p> <p>Address</p> <p>.....</p> <p>SignatureDate.....</p> <p>.....</p>					
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GS/I					