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P.O Box 1699– 50200
Bungoma
Kenya

SCIENCE LABORATORY EQUIPMENT AT KIBABII UNIVERSITY.

TENDER NO. KIBU/26/2020-21

SPECIFICATIONS AND BILLS OF QUANTITIES

FOR

SUPPLY, INSTALL, TEST AND COMMISSION SCIENCE LABORATORY EQUIPMENT AT KIBABII UNIVERSITY

CLIENT:

The Vice Chancellor,
Kibabii University,
P.O. Box 1699-50200
Bungoma.

AUGUST, 2020

TABLE OF CONTENTS

PAGE

INTRODUCTION

1.1 This standard tender document for supply, installation and commissioning of plant and equipment has been prepared for use by public entities in Kenya.

1.2 The following general conditions should be observed when using the document.

a) Specific details should be furnished in the tender notice and in the special conditions of contract. The final document to be provided to the tenderers should not have blank spaces or give options.

b) The instructions to the tenderers and the general conditions of contract should remain unchanged. Any necessary amendments to these parts should be made through the special conditions of contracts and the appendix to instructions to the tenderers.

1.3 Information contained in the invitation to tender shall conform to the data and information in the tender documents to enable potential tenderers to decide whether or not to participate in the tender and shall indicate any important tender requirements.

1.4 The invitation to tender shall be issued as an advertisement in accordance with the regulations as a letter of invitation addressed to tenderers who have expressed interest following an advertisement of a prequalification tender.

1.5 The cover of the tender document shall be modified to include:

i. Tender number.
ii. Tender name.
iii. Name of procuring entity.
iv. Delete name and address of PPOA.

SECTION I

INVITATION FOR TENDERS

Kibabii University invites eligible Tenderers to tender for the works as indicated in the table below.

Tender Number	Tender Description	Tender Security	Tender Closing Date
KIBU/26/2020-21	Supply, Install, Test and Commission Science Laboratory Equipment at Kibabii University	2% of Tender Sum	17/9/2020

1 Interested eligible suppliers may obtain complete set of tender documents by downloading form the Kibabii University website (www.kibu.ac.ke) or the PPIP portal free of charge. Applicant who download the tender documents shall immediately email their details and tender number to procurement@kibu.ac.ke

2 Completed Tender Documents are to be enclosed in plain sealed envelopes, marked with the **Tender. No**. **KIBU/26/2020-21 SUPPLY, INSTALL, TEST AND COMMISSION SCIENCE LABORATORY EQUIPMENT AT KIBABII UNIVERSITY** shall be deposited in the Tender Box at the Administration Block, Main Campus OR send by registered mail to be received on or before the tender closing time. Bulky tenders which do not fit the tender box shall be registered at the Vice Chancellor Office on 1st floor of the Administration Block, all addressed to:

Vice Chancellor,
Kibabii University,
P.O Box 16699-50200
BUNGOMA

So as to be received on or before **Thursday, 17th September, 2020 at 10.00am**

Tenders will be opened immediately thereafter in the Senate Boardroom in the presence of bidders who choose to attend.

NOTE:

i. Tenderer/bidders must serialize/number all the pages and copies of documents attached and indicate the documents submitted on their own attached table of contents.

ii. All attachments shall be from the last page of this document, all paged in the order defined in the tender document.

SECTION I INVITATION TO TENDER

SECTION II - INSTRUCTIONS TO TENDERERS

Table of Clauses

SECTION II – INSTRUCTIONS TO TENDERERS

2.1 Eligible Tenderers

2.1.1 This Invitation for Tenders is open to all tenderers eligible as described in the Appendix to Instructions to Tenderers. Successful tenderers shall complete the supply, install and commissioning of the equipment by the intended completion date specified in the tender documents.

2.1.2 The procuring entity's employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender unless where specially allowed under section 131 of the Act.

2.1.3 Tenderers shall provide the qualification information statement that the tenderer (including all members of a joint venture and subcontractors) is not associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring entity to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods under this Invitation for tenders.

2.1.4 Tenderers involved in corrupt or fraudulent practices or debarred from participating in public procurement shall not be eligible.

2.2 Eligible Equipment

2.2.1 All equipment to be supplied and installed under the contract shall have their origin in eligible source countries.

2.2.2 For purposes of this clause, "origin" means the place where the equipment(s) are produced. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially-recognized product results that is substantially different in basic characteristics or in purpose or utility from its components

2.2.3 The origin of equipment is distinct from the nationality of the tenderer and shall be treated thus in the evaluation of the tender.

2.3 Cost of Tendering

2.3.1 The Tenderer shall bear all costs associated with the preparation and submission of its tender, and the procuring entity, will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

2.3.2 The price to be charged for the tender document shall not exceed Ksh 5000.00

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

2.4. Contents of Tender Document

2.4.1 The tender document comprises the documents listed below and addenda issued in accordance with clause 2.6 of these instructions to tenderers

(i) Invitation to Tender
(ii) Instructions to Tenderers
(iii) General Conditions of Contract
(iv) Special Conditions of Contract
(v) Schedule of requirements
(vi) Technical Specifications
(vii) Tender Form and Price Schedules
(viii) Tender Security Form
(ix) Contract Form
(x) Performance Security Form
(xi) Bank Guarantee for Advance Payment Form
(xii) Manufacturer's Authorization Form
(xiii) Confidential Business Questionnaire Form
(xiv) Declaration form
(xv) Request for Review Form

2.4.2 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the tender documents. Failure to furnish all information required by the tender documents or to submit a tender not substantially responsive to the tender documents in every respect will be at the tenderers risk and may result in the rejection of its tender.

2.5 Clarification of Tender Documents

2.5.1 A prospective tenderer making inquiries of the tender documents may notify the Procuring entity in writing or by post at the entity's address indicated in the invitation for tenders. The Procuring entity will respond in writing to any request for clarification of the tender documents, which it receives not later than seven (7) days prior to the deadline for the submission of tenders, prescribed by the procuring entity. Written copies of the Procuring entities response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective tenderers that have received the tender document.

2.5.2 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.

2.6 Amendment of Tender Documents

2.6.1 At any time prior to the deadline for submission of tender, the procuring entity, for any reason, whether at its own initiative or in response to a clarification requested by a prospective tenderer, may modify the tender documents by issuing an addendum.

2.6.2 All prospective tenderers that have obtained the tender documents will be notified of the amendment in writing or by post and will be binding on them.

2.6.3 In order to allow prospective tenderers reasonable time in which to take the amendment into account in preparing their tenders, the Procuring entity, at its discretion, may extend the deadline for the submission of tenders.

2.7 Language of Tender

2.7.1 The tender prepared by the tenderer, as well as all correspondence and documents relating to the tender exchange by the tenderer and the Procuring entity, shall be written in English language, provided that any printed literature furnished by the tenderer may be written in another language provided they are accompanied by an accurate English translation of the relevant passages in which case, for purposes of interpretation of the tender, the English translation shall govern.

2.8 Documents Comprising the Tender

2.8.1 The tender prepared by the tenderers shall comprise the following components.

(a) a Tender Form and a Price Schedule completed in accordance with paragraph 2.9, 2.10 and 2.11 below
(b) documentary evidence established in accordance with paragraph 2.12 that the tenderer is eligible to tender and is qualified to perform the contract if its tender is accepted;
(c) documentary evidence established in accordance with paragraph 2.13 that the goods and ancillary services to be supplied by the tenderer are eligible goods and services and conform to the tender documents; and
(d) tender security furnished in accordance with paragraph 2.14
(e) Confidential Business Questionnaire

2.9 Tender Form

2.9.1 The tenderer shall complete the Form of Tender and the appropriate Price Schedule furnished in the tender documents, indicating the equipment to be supplied, installed and commissioned and a brief description of the equipment, their country of origin, quantity, and prices.

2.10 Tender Prices

2.10.1 The tenderer shall indicate on the appropriate Price Schedule the unit prices where applicable and total tender price of the equipment and installation it proposes to supply under the contract.

2.10.2 Prices indicated on the Price Schedule shall be entered separately in the following manner:

(i) the price of the equipment quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable:
(ii) charges for inland transportation, insurance, and other local costs incidental to delivery of the goods to their final destination; and
(iii) installation charges shall also be indicated separately for each equipment

2.10.3 Prices quoted by the tender shall remain fixed during the Tender's performance of the contract. A tender submitted with an adjustable price quotation will be treated as non-responsive and will be rejected, pursuant to paragraph 2.22 unless otherwise agreed by the parties.

2.11 Tender Currencies

2.11.1 Prices shall be quoted in the following currencies:

(a) For equipment that the tenderer will supply from within Kenya, the prices shall be quoted in Kenya Shillings; and
(b) For equipment that the tenderer will supply from outside Kenya, the prices may be quoted in US Dollars or in another freely convertible currency.
(c) Cost of installation and commissioning will be in Kenya Shillings.

2.12 Tenderers Eligibility and Qualifications

2.12.1 Pursuant to paragraph 2.1. the tenderers shall furnish, as part of its tender, documents establishing the tenderers eligibility to tender and its qualifications to perform the contract if its tender is accepted.

2.12.1 The documentary evidence of the tenderers eligibility to tender shall establish to the Procuring entity's satisfaction that the tenderer, at the time of submission of its tender, is from an eligible source country as defined under paragraph 2.1

2.12.2 The documentary evidence of the tenderes qualifications to perform the contract if its tender is accepted shall establish to the Procuring entity's satisfaction;

(a) that, in the case of a tenderer offering to supply equipment under the contract which the tenderer did not manufacture or otherwise produce, the

tenderer has been duly authorized by the equipment, Manufacturer or producer to supply the equipment

(b) that the tenderer has the financial, technical, and production capability necessary to perform the contract;

(c) that, in the case of a tenderer not doing business within Kenya, the tenderer is or will be (if awarded the contract) represented by an Agent in Kenya equipped, and able to carry out the Tenderer's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications.

2.13 Goods Eligibility and Conformity to Tender Document

2.13.1 Pursuant paragraph 2.2 of this section, the tenderer shall furnish, as part of its tender documents establishing the eligibility and conformity to the tender documents of all equipment which the tenderer proposes to supply under the contract

2.13.2 The documentary evidence of the eligibility of the goods shall consist of statement in the Price Schedule of the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.

2.13.3 The documentary evidence of conformity of the equipment to the tender documents may be in the form of literature, drawings, and data, and shall consist of:

a) a detailed description of the essential technical and performance characteristic of the equipment
b) a list giving full particulars, including available source and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the equipment for a period of two (2) years, following commencement of the use of the equipment by the Procuring entity; and
c) a clause-by-clause commentary on the Procuring entity's Technical Specifications demonstrating substantial responsiveness of the goods and service to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.

2.13.4 For purposes of the commentary to be furnished pursuant to paragraph 2.13.3(c) above, the tenderer shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procurement entity in its Technical Specifications, are intended to be descriptive only and not restrictive. The tenderer may substitute alternative standards, brand names, and/or catalogue numbers in its tender, provided that it demonstrates to the Procurement entity's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

2.14 Tender Security

2.14.1 The tenderer shall furnish, as part of its tender, a tender security for the amount and form specified in the Appendix to Instructions to Tenderers.

2.14.2 The tender security shall be in the amount not exceeding 2 percent of the tender price.

2.14.3 The tender security is required to protect the Procuring entity against the risk of Tenderer's conduct which would warrant the security's forfeiture, pursuant to paragraph 2.14.7

2.14.4 The tender security shall be denominated in Kenya Shillings or in another freely convertible currency, and shall be in the form of

a) Cash
b) A bank guarantee
c) Such insurance guarantee approved by the Authority
d) Letter of credit.

2.14.5 Any tender not secured in accordance with paragraph 2.14.1 and 2.14.3 will be rejected by the Procuring entity as non responsive, pursuant to paragraph 2.22

2.14.6 Unsuccessful Tenderer's tender security will be discharged or returned as promptly as possible as but not later than thirty (30) days after the expiration of the period of tender validity prescribed by the Procuring entity.

2.14.7 The successful Tenderer's tender security will be discharged upon the tenderer signing the contract, pursuant to paragraph 2.27 and furnishing the performance security, pursuant to paragraph 2.28

2.14.8 The tender security may be forfeited:

a) if a tenderer withdraws its tender during the period of tender validity specified by the procuring entity on the Tender Form; or
b) in the case of a successful tenderer, if the tenderer fails:

    i) to sign the contract in accordance with paragraph 2.27
        1. or
    ii) to furnish performance security in accordance with paragraph 2.28
c) If the tenderer rejects correction of an arithmetic error in the tender.

2.15 Validity of Tenders

2.15.1 Tenderers shall remain valid for 60 days or as specified in the tender documents after date of tender opening prescribed by the Procuring entity, pursuant to

paragraph 2.20. A tender valid for a shorter period shall be rejected by the Procuring entity as non responsive.

2.15.2 In exceptional circumstances, the Procuring entity may solicit the Tenderer's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The tender security provided under paragraph 2.14 shall also be suitably extended. A tenderer may refuse the request without forfeiting its tender security. A tenderer granting the request will not be required nor permitted to modify its tender.

2.16 Format and Signing of Tender

2.16.1 The tenderer shall prepare two copies of the tender, clearly marking each "ORIGINAL TENDER" and "COPY OF TENDER," as appropriate. In the event of any discrepancy between them, the original shall govern.

2.16.2 The original and all copies of the tender shall be typed or written in indelible ink and shall be signed by the tenderer or a person or persons duly authorized to bind the tenderer to the contract. All pages of the tender, except for unamended printed literature, shall be initialed by the person or persons signing the tender.

2.16.3 The tender shall have no interlineations, erasures, or overwriting except as necessary to correct errors made by the tenderer, in which case such corrections shall be initialed by the person or persons signing the tender.

2.17 Sealing and Marking of Tenders

2.17.1 The Tenderer shall seal the original and each copy of the tender in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope.

2.17.2 The inner and outer envelopes shall:

(a) be addressed to the Procuring entity at the address given on he Invitation to Tender.

(b) bear the tender number and name in the Invitation to Tender and the words "DO NOT OPEN BEFORE (*day, date at time of closing)*

2.17.3 The inner envelopes shall also indicate the name and address of the tenderer to enable the tender to be returned unopened in case it is declared "late".

2.17.4 If the outer envelope is not sealed and marked as required by paragraph 2.17.2, the Procuring entity will assume no responsibility for the tender's misplacement or premature opening.

2.18 Deadline for Submission of Tenders

2.18.1 Tenders must be received by the Procuring entity at the address specified under paragraph 2.17.2 not later than (*the time and date specified*).

2.18.2 The Procuring entity may, at its discretion, extend this deadline for the submission of tenders by amending the tender documents in accordance with paragraph 2.6, in which case all rights and obligations of the Procuring entity and candidates previously subject to the deadline will therefore be subject to the deadline as extended

2.18.3 Bulky tenders which will not fit in the tender box shall be received by the procuring entity as provided for in the Appendix.

2.19 Modification and Withdrawal of Tenders

2.19.1 The tenderer may modify or withdraw its tender after the tender's submission, provided that written notice of the modification, including substitution or withdrawal of the tenders, is received by the Procuring entity prior to the deadline prescribed for submission of tenders.

2.19.2 The Tenderer's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of paragraph 2.17. A withdrawal notice may also be sent by cable, telex but followed by a signed confirmation copy, postmarked not later than the deadline for submission of tenders.

2.19.3 No tender may be modified after the deadline for submission of tenders.

2.19.4 No tender may be withdrawn in the interval between the deadline for submission of tenders and the expiration of the period of tender validity specified by the tenderer on the Tender Form. Withdrawal of a tender during this interval may result in the Tenderer's forfeiture of its tender security, pursuant to paragraph 2.14.7

2.20 Opening of Tenders

2.20.1 The Procuring entity will open all tenders in the presence of tenderers' representatives who choose to attend, at (*the time, on the date)* and in the following location.
(address of the procuring entity)

The tenderers' representatives who are present shall sign a tender opening register evidencing their attendance.

2.20.2 The tenderers' names, tender modifications or withdrawals, tender prices, discounts and the presence or absence of requisite tender security and such other details as the Procuring entity, at its discretion, may consider appropriate, will be announced at the opening.

2.20.3 The Procuring entity will prepare minutes of the tender opening.

2.21 Clarification of Tenders

2.21.1 To assist in the examination, evaluation and comparison of tenders the Procuring entity may, at its discretion, ask the tenderer for a clarification of its tender. The request for clarification and the response shall be in writing, and no change in the prices or substance of the tender shall be sought, offered, or permitted.

2.21.2 Any effort by the tenderer to influence the Procuring entity in the Procuring entity's tender evaluation, tender comparison or contract award decisions may result in the rejection of the tenderers' tender.

2.22 Preliminary Examination and Responsiveness

2.22.1 The Procuring entity will examine the tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the tenders are generally in order.

2.22.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the candidate does not accept the correction of the errors, its tender will be rejected, and its tender security may be forfeited. If there is a discrepancy between words and figures the amount in words will prevail

2.22.3 The Procuring entity may waive any minor informality or non-conformity or irregularity in a tender which does not constitute a material deviation, provided such waiver does not prejudice or effect the relative ranking of any tenderer.

2.22.4 Prior to the detailed evaluation, pursuant to paragraph 2.23 the Procuring entity will determine the substantial responsiveness of each tender to the tender documents. For purposes of these paragraphs, a substantially responsive tender is one, which conforms to all the terms and conditions of the tender documents without material deviations. The Procuring entity's determination of a tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.

2.22.5 If a tender is not substantially responsive, it will be rejected by the Procuring entity and may not subsequently be made responsive by the tenderer by correction of the non conformity.

2.23 Conversion to Single Currency

2.23.1 Where other currencies are used, the Procuring Entity will convert those currencies to Kenya Shillings using the selling exchange rate on the date of tender closing provided by the Central Bank of Kenya.

2.24 Evaluation and Comparison of Tenders

2.24.1 The Procuring entity will evaluate and compare the tenders which have been determined to be substantially responsive, pursuant to paragraph 2.22

2.24.2 The Procuring entity's evaluation of a tender will exclude and not take into account

(a) in the case of equipment manufactured in Kenya or equipment of foreign origin already located in Kenya, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the tenderer; and

(b) any allowance for price adjustment during the period of execution of the contract, if provided in the tender.

2.24.3 The comparison shall be of the ex-factory/ex-warehouse/off-the-shelf price of the goods offered from within Kenya, such price to include all costs, as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the goods.

2.24.4 The Procuring entity's evaluation of a tender will take into account, in addition to the tender price and the price of incidental services, the following factors, in the manner and to the extent indicated in paragraph 2.23.5 and in the technical specifications:

(a) delivery and installation schedule offered in the tender;

(b) deviations in payment schedule from the specifications in the Special Conditions of Contract;

(c) the cost of components, mandatory spare parts and service;

(d) the availability in Kenya of spare parts and after-sales service for the equipment offered in the tender;

2.24.5 Pursuant to paragraph 2.24.4 the following evaluation methods will be applied

(a) *Delivery schedule*

(i) The Procuring entity requires that the equipment under the Invitation for Tenders shall be delivered at the time specified in the Schedule of Requirements. Tenders offering deliveries longer than the procuring

entity's required delivery time will be treated as non-responsive and rejected.

(b) *Deviation in payment schedule*
Tenderers shall state their tender price for the payment of schedule outlined in the special conditions of contract. Tenders will be evaluated on the basis of this base price. Tenderers are, however, permitted to state an alternative payment schedule and indicate the reduction in tender price they wish to offer for such alternative payment schedule. The Procuring entity may consider the alternative payment schedule offered by the selected tenderer.

(c) *Spare parts and after sales service facilities*
Tenderers must offer items with service and spare parts back-up. Documentary evidence and locations of such back-up must be given. Where a tenderer offers items without such back-up in the country, he must give a documentary evidence and assurance that he will establish adequate back-up for items supplied.

2.24.6 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.

2.24.7 Preference where allowed in the evaluation of tenders shall not exceed 15%

2.25 Contacting the Procuring Entity

2.25.1 Subject to paragraph 2.21 no tenderer shall contact the Procuring entity on any matter related to its tender, from the time of the tender opening to the time the contract is awarded.

2.25.2 Any effort by a tenderer to influence the Procuring entity in its decisions on tender, evaluation, tender comparison, or contract award may result in the rejection of the Tenderer's tender.

2.26 Award of Contract

(a) **Post-Qualification**

2.26.1 In the absence of pre-qualification, the Procuring entity will determine to its satisfaction whether the tenderer that is selected as having submitted the lowest evaluated responsive tender is qualified to perform the contract satisfactorily.

2.26.2 The determination will take into account the tenderer financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the tenderers qualifications submitted by the tenderer, pursuant to paragraph 2.12.3 as well as such other information as the Procuring entity deems necessary and appropriate.

2.26.3 An affirmative determination will be a prerequisite for award of the contract to the tenderer. A negative determination will result in rejection of the Tenderer's tender, in which event the Procuring entity will proceed to the next lowest evaluated tender to make a similar determination of that Tenderer's capabilities to perform satisfactorily.

(b) **Award Criteria**

2.26.4 The Procuring entity will award the contract to the successful tenderer(s) whose tender has been determined to be substantially responsive and has been determined to be the lowest evaluated tender, provided further that the tenderer is determined to be qualified to perform the contract satisfactorily.

2.26.5 To qualify for contract awards, the tenderer shall have the following:

a) Necessary qualifications, capability experience, services, equipment and facilities to provide what is being procured.
b) Legal capacity to enter into a contract for procurement
c) Shall not be insolvent, in receivership, bankrupt or in the process of being wound up and is not the subject of legal proceedings relating to the foregoing.
d) Shall not be debarred from participating in public procurement.

(c) Procuring Entity's Right to Accept or Reject Any or All Tenders

2.26.6 The Procuring entity reserves the right to accept or reject any tender, and to annul the tendering process and reject all tenders at any time prior to contract award, without thereby incurring any liability to the affected tenderer or tenderer of the grounds for the procuring entity's action

2.26.7 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination

2.26.8 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.

2.26.9 A tenderer who gives false information in the tender document about is 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.

2.27 Notification of Award

2.27.1 Prior to the expiration of the period of tender validity, the Procuring entity will notify the successful tenderer in writing that its tender has been accepted.

2.27.2 The notification of award will signify the formation of the Contract but will have to wait until the contract is finally signed by both parties. Simultaneous other tenderers shall be notified that their tenders have not been successful.

2.27.3 Upon the successful Tenderer's furnishing of the performance security pursuant to paragraph 2.29, the Procuring entity will simultaneously inform the other tenderers that this tenders have not been successful

2.28 Signing of Contract

2.28.1 At the same time as the Procuring entity notifies the successful tenderer that its tender has been accepted, the procuring entity will simultaneously inform the other tenderers that their tenders have not been successful.

2.28.2 Within fourteen (14) days of receipt of the Contract Form, the successful tenderer shall sign and date the contract and return it to the Procuring entity.

2.28.3 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.

2.29 Performance Security

2.29.1 Within Thirty (30) days of the receipt of notification of award from the Procuring entity, the successful tenderer shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the tender documents, or in another form acceptable to the Procuring entity.

2.29.2 Failure of the successful tenderer to comply with the requirements of paragraph 2.28 or paragraph 2.29 shall constitute sufficient grounds for the annulment of the award and forfeiture of the tender security, in which event the Procuring entity may make the award to the next lowest evaluated Candidate or call for new tenders.

2.30 Corrupt or Fraudulent Practices

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

3.30.2 The Procuring entity will reject a proposal for award if it determines that the tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

3.30.3 Further a tenderer who is found to have indulged in corrupt or fraudulent practices risks being debarred from participating in public Procurement in Kenya.

APPENDIX TO INSTRUCTIONS TO TENDERERS

Notes on the Appendix to the Instructions to Tenderers

1. The Appendix to instructions to the tenderers is intended to assist the procuring entity in providing specific information in relation to corresponding clause in the instructions to Tenderers including in Section II and has to be prepared for each specific procurement.

2. The procuring entity should specify in the appendix information and requirement specific to the circumstances of the procuring entity, the goods to be procured and the tender evaluation criteria that will apply to the tenders.

3. In preparing the Appendix the following aspects should be taken into consideration;

(a) The information that specifies and complements provisions of Section II to be incorporated

(b) Amendments and/or supplements if any, to provisions of Section II as necessitated by the circumstances of the goods to be procured to be also incorporated

4. Section II should remain unchanged and can only be amended through the Appendix.

5. Clauses to be included in this part must be consistent with the public procurement law and the regulations.

APPENDIX TO INSTRUCTIONS TO TENDERERS

The following information regarding the particulars of the tender shall complement supplement or amend the provisions of the instructions to tenderers. Wherever there is a conflict between the provision of the instructions to tenderers and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the instructions to tenderers.

THE EMPLOYER IS: The Vice Chancellor,

Kibabii University,
P.O. Box 1699-50200
Bungoma.

The name (and identification number) of the project is: **Supply, Install, Test and Commission Science Laboratory Equipment at Kibabii University**

Tender No. KIBU/26/2020-21

The Works consist of Supply, Install, Test and Commission Laboratory Equipment at Kibabii University.

The Start Date shall be **as notified by the Employer.**

The Intended Completion Date for the whole of the Works shall be **Thirty Two (32) Weeks from date of site possession.**

The following documents also form part of the Contract: **add Notification of Award.**

The Site Possession Date shall be **as be as notified by the Employer.**

The Site is located **Within Kibabii University, off the Kanduyi-Chwele Road, Bungoma.**

The Defects Liability Period is **12 Months from practical completion date.**

Amount of Tender Security is Two Percent of Tender Sum and shall be in Kenya shillings in form of a bank guarantee.

Tender validity period shall be 90days from days of tender closing and opening.

Bulky documents to be registered as described in the tender invitation notice.

Remove 2.24,2,3,7

Prices indicated in the price schedule shall be a total of the following;

1) Price of equipment inclusive all applicable taxes, levies and duties.
2) Charges for transport, insurance, local incidental costs and delivery to the University.

3) Installation, testing and commissioning
4) All applicable appliances, connection systems to the existing electrical and electronic systems in the University laboratories.
5) Warrant in the defects liability period of one year from date of practical completion.
6) Training of relevant University staff on the use and maintenance of equipment including the source of spares available in the Republic of Kenya.
7) Licenses and or authority from relevant manufactures as case may be for the equipment and or Software supplied.
8) Approval of equipment by Kenya Bureau of Standards (KEBS).
9) All applicable brochures, catalogues, manuals as case may be. All of these must be in English.
10) Servicing of the equipment and all back up services in the first one year of installation
11) All software to have license of minimum two years from the date of practical completion of the project.

The prices quoted shall be in Kenya shillings whether the equipment is from within or outside the country.

The name and Address of the Employer's representative for the purposes of submission of tenders is:

The Vice Chancellor,
Kibabii University,
P.O. Box 1699-50200
Bungoma.

The tender opening date and time is **as per tender invitation notice.**

The Project Manager shall be appointed by the Employer who shall be an Engineer. The Engineer herein shall be a person registered by the Engineers Board of Kenya as a Professional Engineer.

Period between program updates is: **7 days**

The amount to be withheld for late submission of an updated program is **1% of certified amount to be paid to the contractor.**

The Price Adjustment clause **SHALL NOT** apply

Advance payment **SHALL NOT be** granted

The rate of exchange for calculation of foreign currency payment is – **Not applicable**

The minimum insurance covers shall be:

1. Minimum cover for insurance of the works, equipment and material in respect of the supplier's faulty design is……

2. The minimum cover for loss or damage to equipment is……

3. The minimum for insurance of other property is……..

4. The minimum cover for personal injury or death insurance

for the supplier's employee is……

and for other people is……

SECTION III: GENERAL CONDITIONS OF CONTRACT

Table of Clauses

SECTION III- GENERAL CONDITIONS OF CONTRACT

3.1 Definitions

3.1.1 In this Contract, the following terms shall be interpreted as indicated:-

(a) "The Contract" means the agreement entered into between the Procuring entity and the tenderer, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

(b) "The Contract Price" means the price payable to the tenderer under the Contract for the full and proper performance of its contractual obligations

(c) "The Goods" means all of the equipment, machinery, and/or other materials, which the tenderer is required to supply to the Procuring entity under the Contract.

(d) "The Procuring entity" means the organization purchasing the Goods under this Contract.

(e) "The Tenderer' means the individual or firm supplying the Goods under this Contract.

3.2 Application

3.2.1 These General Conditions shall apply in all Contracts made by the Procuring entity for the procurement installation and commissioning of equipment to the extent that they are not superceded by provisions of other part of contract.

3.3 Country of Origin

3.3.1 For purposes of this clause, "Origin" means the place where the Goods were mined, grown or produced.

3.3.2 The origin of Goods and Services is distinct from the nationality of the tenderer and will be treated thus in the evaluation of the tender.

3.4 Standards

3.4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications.

3.5 Use of Contract Documents and Information

3.5.1 The Candidate shall not, without the Procuring entity's prior written consent, disclose the Contract, or any provision therefore, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring entity in connection therewith, to any person other than a person employed by the tenderer in the performance of the Contract.

3.5.2 The tenderer shall not, without the Procuring entity's prior written consent, make use of any document or information enumerated in paragraph 3.5.1 above

3.5.3 Any document, other than the Contract itself, enumerated in paragraph 3.5.1 shall remain the property of the Procuring entity and shall be returned (all copies) to the Procuring entity on completion of the Tenderer's performance under the Contract if so required by the Procuring entity

3.6 **Patent Rights**

3.6.1 The tenderer shall indemnify the Procuring entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring entity's country

3.7 **Performance Security**

3.7.1 Within twenty eight (28) days of receipt of the notification of Contract award, the successful tenderer shall furnish to the Procuring entity the performance security where applicable in the amount specified in Special Conditions of Contract.

3.7.2 The proceeds of the performance security shall be payable to the Procuring entity as compensation for any loss resulting from the Tenderer's failure to complete its obligations under the Contract.

3.7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the procuring entity and shall be in the form of

a) Cash
b) Bank guarantee
c) Such insurance guarantee approved by the Authority
d) Letter of credit

3.7.4 The performance security will be discharged by the Procuring entity and returned to the Candidate not late than thirty (30) days following the date of completion of the Tenderer's performance obligations under the Contract, including any warranty obligations, under the Contract

3.8 **Inspection and Tests**

3.8.1 The Procuring entity or its representative shall have the right to inspect and/or to test the equipment to confirm their conformity to the Contract specifications. The Procuring entity shall notify the tenderer in writing in a timely manner, of the identity of any representatives retained for these purposes.

3.8.2 The inspections and tests may be conducted in the premises of the tenderer. All reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring entity.

3.8.3 Should any inspected or tested equipment fail to conform to the Specifications, the Procuring entity may reject the equipment, and the tenderer shall either replace the rejected equipment or make alterations necessary to make specification requirements free of costs to the Procuring entity.

3.8.4 The Procuring entity's right to inspect test and where necessary, reject the equipment after the equipment arrival and installation shall in no way be limited or waived by reason of the equipment having previously been inspected, tested and passed by the Procuring entity or its representative prior to the equipment delivery.

3.8.5 Nothing in paragraph 3.8 shall in any way release the tenderer from any warranty or other obligations under this Contract.

3.9 **Packing**

3.9.1 The tenderer shall provide such packing and packaging of the equipment as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract.

3.9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract

3.10 **Delivery and Documents**

3.10.1 Delivery of the equipment, documents and installation of the same shall be made by the tenderer in accordance with the terms specified by Procuring entity in its Schedule of Requirements and the Special Conditions of Contract

3.11 **Insurance**

3.11.1 The equipment supplied under the Contract shall be fully insured against loss or damage incidental to manufacturer or acquisition, transportation, storage, and delivery in the manner specified in the Special conditions of contract.

3.12 **Payment**

3.12.1 The method and conditions of payment to be made to the tenderer under this Contract shall be specified in Special Conditions of Contract

3.12.2 Payments shall be made promptly by the Procuring entity as specified in the contract

3.13 Prices

3.13.1 Prices charged by the tenderer for equipment delivered and installation performed under the Contract shall not, with the exception of any price adjustments authorized in Special Conditions of Contract, vary from the prices by the tenderer in its tender.

3.13.2 Contract price variations shall not be allowed for contracts not exceeding one year (12 months)

3.13.3 Where contract price variation is allowed, the variation shall not exceed 10% of the original contract price.

3.13.4 Price variation requests shall be processed by the procuring entity within 30 days of receiving the request.

3.14. Assignment

The tenderer shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring entity's prior written consent

3.15. Subcontracts

3.15.1 The tenderer shall notify the Procuring entity in writing of all subcontracts awarded under this Contract if not already specified in the tender. Such notification, in the original tender or later, shall not relieve the tenderer from any liability or obligation under the Contract

3.16. Termination for Default

3.16.1 The Procuring entity may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the tenderer, terminate this Contract in whole or in part

(a) if the tenderer fails to deliver any or all of the equipment within the periods) specified in the Contract, or within any extension thereof granted by the Procuring entity

(b) if the tenderer fails to perform any other obligation(s) under the Contract

(c) if the tenderer, in the judgment of the Procuring entity has engaged in corrupt or fraudulent practices in competing for or in executing the Contract

3.16.2 In the event the Procuring entity terminates the Contract in whole or in part, it may procure, upon such terms and in such manner as it deems appropriate, equipment

similar to those undelivered, and the tenderer shall be liable to the Procuring entity for any excess costs for such similar equipment.

3.17. Termination for convenience

3.18. Liquidated Damages

3.18.1 If the tenderer fails to deliver and/or install any or all of the items within the period(s) specified in the contract, the procuring entity shall, without prejudice to its other remedies under the contract, deduct from the contract prices liquidated damages sum equivalent to 0.5% of the delivered price of the delayed items up to a maximum deduction of 10% of the delayed goods. After this the tenderer may consider termination of the contract.

3.19. Resolution of Disputes

3.19.1 The procuring entity and the tenderer shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the contract

3.19.2 If, after thirty (30) days from the commencement of such informal negotiations both parties have been unable to resolve amicably a contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the SCC.

3.20. Language and Law

3.20.1 The language of the contract and the law governing the contract shall be English language and the Laws of Kenya respectively unless otherwise specified in the SCC

3.21. Force Majeure

3.21.1 The Tenderer shall not be liable for forfeiture of its performance security or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

3.22 Notices

3.22.1 Any notice given by one party to the other pursuant to this contract shall be sent to other party by post or by fax or Email and confirmed in writing to the other party's address specified.

3.22.2 A notice shall be effective when delivered or on the notices effective date, whichever is later.

SPECIAL IV - SPECIAL CONDITIONS OF CONTRACT

Notes on Special Conditions of Contract

4.1 The clauses in this section are intended to assist the procuring entity in providing contract-specific information in relation to corresponding clauses in the General Conditions of Contract

4.2 The provisions of Section IV complement the General Conditions of Contract included in Section III, specifying contractual requirements linked to the special circumstances of the procuring entity and the goods being procured. In preparing Section IV, the following aspects should be taken into consideration.

(a) Information that complement provisions of Section III must be incorporated and

(b) Amendments and/or supplements to provisions of Section III, as necessitated by the circumstances of the goods being procured must also be incorporated.

SPECIAL CONDITIONS OF CONTRACT

Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, between the GCC and the SCC, the provisions of the SCC herein shall prevail over these in the GCC.

Special conditions of contract as relates to the GCC

The payments shall be paid upon the Project Manager issuing an interim certificate for certified installed, tested and commissioned works.

The amount of performance security is **Ten (10%) percent** of Tender Sum in form bank guarantee.

Liquidated and Ascertained damages**: at the rate of Ksh 50,000/= (Fifty Thousands) per day.**

Period of honoring certificate: **60 days**

Percentage of certified value retained: **10%**

Limit of certified value retained : **5%**

SECTION - V- SCHEDULE OF REQUIREMENTS AND PRICES

Notes on Schedule of Requirements and Prices

5.1 The Procuring entity must state whether the contract is for procurement, installation and commissioning OR whether it is for installation and commissioning only, in which case, the equipment will have been procured separately.

5.2 The tenderers may use additional paper as will be necessary to indicate the details of their costing.

BILL OF QUANTITIES FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SCIENCE LABORATORY EQUIPMENT AT KIBABII UNIVERSITY

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Schedule 1: Preliminaries				
A	Temporary suppliers store for storage and assembly of equipment		Item		
B	Firm price clause		Item		
C	Government legislation		Item		
D	Mobilization and demobilization		Item		
E	Working drawings and manuals.		Item		
F	Project Management Costs				800,000
G	Stationary for Project Manager				50,000
H	Attendance to item E and F above		sum		
J	Allow for training of at least two staff in each laboratory on the use, maintenance and basic servicing of the equipment and or software.		Item		
	Carried to Collection Summary				

P1

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Schedule 2: Agriculture Laboratory Equipment (All Provisional) **All equipment shall be surge protected; English language manual** **(Prices to include; supplying, installation, testing and commissioning; all the accessories and connection items to the existing Electrical and Electronic systems in existence at the laboratory(s); KEBS certification; one year warrant; manufacturers license or software license)**				
1	**Block digester (Automatic Kjeldahl Digestion)** VELP Automatic Kjeldahl Digestion Units - DKL Series Fully Automatic Kjeldahl Digestion Units for nitrogen analysis and protein determination that incorporate the revolutionary TEMS™ technology for unprecedented Savings in terms of Time, Energy - as much as 35%, Money and Space. High Technology Microprocessor control of precise block temperature Real time display of process steps 54 programs (30 pre-installed, 24 customizable) Automated Operation Calibration automatic for top precision & repeatability No hands lowering and lifting of test tubes Auto separation of manifold from the rack Outstanding Reliability Aluminum block for absolute temperature homogeneity Unmatched conductivity for fast response up to 450 °C Conforms to Good Laboratory Practice standard Premium quality consumables Practical Functionality	1	No		
	Carried to Agriculture Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Agriculture Laboratory Equipment cont; LCD display for immediate understanding Up to 6 languages available from a wide selection All necessary items supplied in one package Very small footprint Optimized Selection Choice of models for different workloads DKL 8 (8-position with 250 ml tubes, Ø 42 mm) DKL 12 (12-position with 250/400 ml tubes, Ø 42 mm) DKL 20 (20-position with 250/400 ml tubes, Ø 42 mm) DKL 42/26 (42-position with 100 ml tubes, Ø 26 mm) Incorporates TEMS technology				
2	**pH meter** Range: ±399.9 mV (HI 2211 only) ±2000 mV (HI 2211 only) Resolution: 0.1 mV (HI 2211 only) 1 mV (HI 2211 only) Accuracy @ 20°C/68°F: ±0.2 mV (HI 2211 only) ±1 mV (HI 2211 only) pH Calibration: 1- or 2-point calibration, 5 buffers available (4.01, 6.86, 7.01, 9.18, 10.01) Temperature compensation: Manual or Automatic from: –9.9 to120.0°C (14.2-248.0°F) pH Electrode: HI 1131B (included) Dimensions: 240x182x74 mm Environment: 0 to 50 °C (32 to 122 °F) max. 95% RH non-condensing	2	No.		
	Carried to Agriculture Laboratory Equipment Collections				

AG2 OF 7

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Agriculture Laboratory Equipment cont;				
3	**Microwave Oven** Large capacity – At least 38 lit capacity; Power level switch; Energy efficient.	1	No.		
4	**Combination Fridge /Freezer** At least 600 lit capacity –upright (vertical) Separate fridge (4◦C) and deep freezer (-20◦C) compartments Equipped with solid shelves of a suitable material Digital temperature display and controls on outside Energy star certified.	2	No.		
5	**Gel Electrophoresis Chamber** HORIZONTAL; 15 x 15 cm Enduro MidiPlus Horizontal Gel Box, 16, 20, 28 Tooth Combs Electrophoresis Power Supply (item #213704) and 2 Carolina Deluxe Gel Electrophoresis Chambers (item #213710)." Includes base unit, safety lid, two casting trays with aluminum gates (one for 6 × 7 cm and one for 6 × 10 cm gels), and two combs (1.0 mm × 8 sample wells and 1.0 mm × 12 sample wells). Horizontal gel tank; Gell dimensions at least 130mm x 150 mm (w x d) Buffer volume; 900 ml to 1,200ml Equipped with at least 4 comb positions Removable gel casting tray Includes buffer recirculation ports to prevent buffer depletion Include 2mm combs for different number of wells (12, 16, 24 28 samples) 2 for each	1	No.		
	Carried to Agriculture Laboratory Equipment Collections				

AG3 OF 7

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Agriculture Laboratory Equipment cont.				
6	**Microscope Omega**				
	Head: Binocular Digital observation, inclined 30° and rotatable 360°. Eyepiece: Widefield WF10X/20 with field number 20. Nosepiece: Quadruple revolving, rotation on ball bearings. Objectives: E-Plan 4x (0.10), 10x (0.25), 40x (0.65), 100X (1.25). Working stage: Double layer with mechanical sliding stage, size 150x133mm,X-Y Movement range 75x50mm, specimen holder for one slide. Belt drive in X direction. Condenser: Abbe condenser, N.A. 1,25 precentered Focusing system: Coaxial coarse and fine, with focusing stop mechanism Illumination: Light source X-LED type with white LED; light intensity control using a knob on left side of the frame. LED power 3.6W, comparable to a 50W halogen bulb Tablet Specifications; Operating system - OS Windows 8.1 Processor and chipset Processor manufacturer Intel Processor Type Bay Trail Model Z3735F Speed 1,83 GHz Processor Core Quad core MEMORY Standard Memory- 2 GB; Memory Technology-LPDDR3; Memory Card Reader-Yes Supported memory; microSD storage - Capacity flash memory 16+16 GB Display and Graphics Screen Size; 8.9” Screen Type ;LCD color TFT Screen Mode; Full HD Screen Resolution; 1920 x 1200 Backlight technology; LED	1	No.		

AG4 OF 7

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Agriculture Laboratory Equipment cont. Touchscreen; Multi-touch screen Graphics Controller Manufacturer Intel Graphics Controller Model HD Graphics Graphics Memory Technology LPDDR3 Graphics Memory Accessibility Shared Network & Communication LAN wireless Wireless LAN standard IEEE 802.11a/g/n Bluetooth Standard Bluetooth; Bluetooth 4.0 Interfaces / Ports - HDMI input Devices - Keyboard Type Touchscreen built -in Devices - Microphone Software Operating System Windows 8.1 32-bit Software Microsoft Office (1 year) Image Analysis software OPTIKA VISION LITE Battery Information Number of Cells 2-cell Battery Chemistry Lithium ION Battery Capacity 6000 mAh power Description Maximum Power Supply Wattage 10 W Weight and dimensions; Thickness 9,5 mm Width 220 mm Height 157 mm Features: Maintenance free: Microprocessor controlled unit 16×2 LCD Display Digital speed selection Highly accurate speeds- 0.12,0.25,0.50,0.75,1.00,1.25,2.50 mm/sec Digital Timer & Time multiplier with Audio & Visual Alarm Very low power consumption Easy height adjustment of drum Auto concentration response curve(CRC) mode & Normal mode Sturdy, corrosion resistant body Battery backup(optional)				
	Carried to Agriculture Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Agriculture Laboratory Equipment cont;				
7	**Electrophoresis UV Transilluminator** Transmission size(W×L): 200×150mm Source ultraviolet wavelength: 302(nm) Reflectance UV wavelength: 254,365(nm) Transmission UV lamp power: 8(W) Reflectance UV lamp power: 254nm(11W),365 nm(11W) Volume(L×W×H): 435×295×490(mm) Weight: 16.9kg Characteristic feature No need for darkroom, can be used for all-weather. With the operation of export for cutting the gel Using the UV filter glass, quartz ultraviolet la mp, long service life, light uniform.	1	No.		
8	**PCR Machine (Thermocycler)** Gradient Module Block: 6*16wells*0.2 individual module, six different annealing temperatures could be set for each zone Tube Type: 0.2ml PCR tubes, 8/12 Strips, 96 wells PCR plate Peltier Technology: New Generation Peltier Technology Display: 7” Color Touch Screen, graphically display the realtime protocols and running status Language: Full English Communications Ports: 2 USB and 1 LAN Venting System: Front air in and back air out, two cyclers can be placed side by side	1	No.		
	Carried to Agriculture Laboratory Equipment Collections				

AG6 OF 7

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
9	**Agriculture Laboratory Equipment cont;** **Vortex mixer/machine Automatic** Touch start Small footprint (to fit inside small PCR hoods) Adjustable speed ranging from 0 to 2,500 rpm	1	No.		
	Carried to Agriculture Laboratory Equipment Collections				
	Schedule 2: Agriculture Laboratory Equipment Collections From page AG1 From page AG2 From page AG3 From page AG4 From page AG5 From page AG6 From page AG7 above				
	Carried to Laboratory Equipment Collections Summary				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Schedule 3: Biological and Nursing Equipment (All Provisional) **All equipment shall be surge protected; English language manual** **(Prices to include; supplying, installation, testing and commissioning; all the accessories and connection items to the existing Electrical and Electronic systems in existence at the laboratory(s); KEBS certification; one year warrant; manufacturers license or software license)**				
1	**Thermo-mixer, Block and Adapters.** Heats, cools and mixes; Cools to -10°C; Adapters that can handle the following tubes-5.0ml falcon tubes,15ml falcon tubes, 2ml cryotubes, 0.2ml PCR tubes.	1	No.		
2	**Orbital Shaker.** Orbital movement; shaker diameter-10mm; permissible shaking weight (including attachment)-7.5kg; motor rating input-45W; motor rating output-10W; permissible ON time-100%; minimum speed (adjustable)-50rpm; Speed range- 0-500rpm; Speed display- LED line; Timer- yes; Time setting range- 5-50min; Operating mode-timer and continuous operation; dimensions-360x98x420mm; Weight-8.5kg; Permissible ambient temperature-5-50°C; permissible relative humidity-80%; Protection glass according to DIN IP 2160529; Analog output-Yes; Voltage- 220-240/100-120V; frequency-50/60Hz; Power output- 45W	1	No.		
3	**Circulating Water Bath.** Splash proof key pad for fast and easy setting; multi-display LED for 5 or more different temperatures values; high/low temperature warning function; RS 232 interface; main switch integrated keypad foil; temperature stability of ±0.2°C; capacity 20litres; dimensions at least 560x350x330mm; with a lift up markrolon bath cover.	1	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
4	**Nematode extraction test sieves**				
	300m diameter- 25, 38, 60, 90, 120 250, 450, 600, 900 and 1,500 microns aperture size.	1	No.		
5	**Microwave oven**				
	2.0cu capacity; size(wxdxh)- 8”x16”x16”; multistage cooking-3 stages; power output 1200w; sensor- Yes; 10 power level; kitchen timer; child safety lock; quick defrost; auto defrost; sensor touch; push out type; tunable radius 406mm; 3 year warrant	1	No.		
6	**Leaf Juice Press**				
	Power supply; 400 VAC3/50Hz Roller Revolutions; 1. step 57 Rpm, 2. step 104 Rpm Water Connection; Gardena 1/2“hose nozzle, max. 5 bar Rinsing time; 1-10 sec. Dimensions(wxdxh); 250mm x 500mm x 500mm Weight; 24kg (1.0211+1.0212) 27kg(1.0200)	1	No.		
7	**Stereo Microscope as Leica M205 C with Universal Stand**	5	No.		
	Leica LED5000 MCI Illumination and DFC Camera. Complete with Associated desktop computer; Core i7 processor; 6GB Ram, 500GB HD and at least 25 inch flat screen and software. Combines Full Apochromatic 20.5:1 Zoom and FusionOptics Technology. Manual adjustment with Leica Trinocular Ergo Tube.				
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
8	**Incubated shaker stackable** Maximum vessel size :6L Erlenmeyer flask Available universal platforms: 18 x 18 in., dual stack 18 x 18 in. (purchase of two platforms and adapter set required for stacking) Speedstacked: 15 to 300 ±1rpm unstacked: 15 to 500rpm ±1rpm Temperature : 15°C below ambient to 80°C Exterior dimensions : (H x W x D) 40.5 x 27 x 33 in. (102.9 x 69.9 x 83.8cm) HEPA filtration No Orbit: .75 in. (1.9cm) Weight capacity: 35 lb. (15.9kg) Stacking kit: Available Accessories: Platforms ›Clamps ›Racks & Misc ›	1	No.		
9	**Inverted Microscope** Equipped with the following accessories; As model Axio Vert.A1 from Carl Zeiss Complete with associated desktop computer - Core i7 processor; 6GB ram, 500GB HD and at least 25 inch flat screen. Software - ZEN Pro Software FL-LED transmitted light and LED fluorescence LD Plan-NEOFLUAR Objectives	2	No.		
10	**Blender** Heavy duty as Waring Complete with all accessories High speed knife blender Seven speed selection (3,000 to 24,000 rpm) Push fit knife assembly and hinged lid for easy cleaning Fitted with heavy duty glass vessel Spare knife, and heavy duty glass vessel	1	No.		
	Carried to Biological and Nursing Equipment Collections.				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
11	**Compound Microscope** As Axio Imager M2 from Carl Zeiss. Complete with associated computer- Core i7 processor, 6GB ram, 500GB HD and at least 25 inch flat screen and software. Fully automated with touchscreen TFT · motorized tube lens turret 6x motorized reflector turret 6x motorized HD, DIC, ACR nosepiece Motorized modulator turret for C-DIC/TIC LED transmitted light. Motorized double filter wheel for transmitted light Fluorescence attenuator Motorized mechanical stage Motorized condenser	5	No.		
12	**Top loading Balance** Capacity; 4 kg. Readability; 0.01gm. Repeatability; 0.005 gm. Stainless steel weighing pan.	1	No.		
13	**Drying oven** For drying glassware and drying glass slides Ventilated Hot air sterilizer with forced air movement; equipped with a sterilization cycle Chrome plated shelves. At least 150 litre capacity. Temperature range 5◦C to 300◦C.	1	No.		
14	**Top Loading Balance** For weighing samples; Maximum capacity; 6kg. Large weighing pan; Automatic calibration with internal calibration weight; Readability; 0.01g Bidirectional RS-232 interface for GLP compliant documentation; Date and time stamp facility	1	No.		
	Carried to Biological and Nursing Equipment Collections.				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
15	**Vacuum Concentrator (centrifuge) and associated rotors as the Eppendorf "Concentrator 5301"- complete with integrated vacuum pump and accessories** Equipped with rotors that can handle the following; at least 48 x 2.0 ml tubes and; 15 ml (17 x 120 mm) tubes; 8-tube PCR strips; 96 well PCR plates; Work frame and tray for spinning down; individual PCR tubes and strips. Complete with integrated vacuum pump Motorless drive and sealed chamber for trouble free operation Fitted with automatic vacuum aeration to prevent condensation Fitted with membrane buttons (not knobs) RPM - at least 1,400 rpm Can accommodate 2.0 ml tubes, 8-tube PCR strip, 15 ml falcon tubes and 96 well PCR plates	1	No.		
16	**Combination Fridge /Freezer** At least 600 litre capacity –upright (vertical) Separate fridge (4◦C) and deep freezer (-20◦C) compartments. Equipped with solid shelves of a suitable material. Digital temperature display and controls on outside.	1	No.		
	Carried to Biological and Nursing Equipment Collections.				

BN5 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
17	**Refrigerated Micro-centrifuge and associated rotors** · Max Speed; 24000r/min Max RCF; 47800xg Max Capacity; 4 x 100ml Speed Accuracy; ±20r/min Temp Accuracy; ±1°C Temp Range; -20°C ~ +40°C Timer Range; 0~99min Motor Microprocessor control, Frequency conversion motor Noise ≤60dB(A) Power Supply; AC220V&110V 50-60Hz 18A Dimension; 610x622x360mm(LxWxH) Weight; 85kg· Equipped with rotors that can handle the following; at least 24 x 2.0 ml tubes and Can handle at least 24 X 2.0 ml tubes, 8-tube PCR strip and 96 well PCR plates; 8-tube PCR strips; 96 well PCR plates; 15 ml centrifuge tubes; 50 ml centrifuge tubes; Compact with small footprint; Fitted with membrane buttons (not knobs) RPM - at least 15,000 rpm.	1	No.		
18	**Laboratory Freezer** Upright freezer (-20◦C) Equipped with temperature recorder and accessories At least 600 litre capacity –upright (vertical) Equipped with solid shelves of a suitable material Digital temperature display and controls Audible temperature and voltage alarm Equipped with temperature recorder and accessories. Energy star rating.	1	No.		
	Carried to Biological and Nursing Equipment Collections.				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
19	**High Speed Knife Mill**				
	High speed knife mill as Grindomix GM 200 or equal and approved equivalent with accessories as Retsch GmbH High speed (2,000 to 10,000 rpm) knife blender Push fit knife assembly and hinged lid for easy cleaning Equipped with a gravity lid to avoid contamination	1	No.		
20	**High speed knife mill accessories specific for high speed knife mill above in (18) as "Grindomix GM 200" mill**				
	Polypropylene Gravity lid to avoid contamination	1	No.		
	Spare knife, made of titanium with PVDF knife cylinder.	1	No.		
	Scraper for recovery of sticky samples from container	1	No.		
	Stainless steel container – can be autoclaved and sterilized	1	No.		
	Polypropylene lid for reduction of chamber to 300 ml	1	No.		
	Standard Polypropylene lid for use with large samples	1	No.		
	Glass Containers and associated lids– can be autoclaved and sterilized	1	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
21	**Acid storage cabinet** Polyurethane acid storage cabinet. One-piece molded polyethylene body for maximum protection against chemicals leaks Under counter model with Capacity of Thirty 1-Liter Bottles Include easy-clean slide-out spill trays Accepts padlock locking for added security Two Manual Closing Doors Adjustable Shelves Equipped with Vent Holes	2	No.		
22	**Microplate Sealer** Automated Adhesive Sealer as Thermo Scientific Microplate sealer for adhesive films Equipped with 96 and 384 well PCR plate carrier Fully automated heat-free sealing Suitable adhesive film roll as ABsolute TM QPCR Seal roll. Complete with all necessary accessories	1	No.		
23	**Accessories for the Microplate Sealer above in (22)** 384 well PCR plate carrier 96 well PCR plate carrier Adhesive rolls	 2 2 2	 No. No. No.		
24	**Self Cleaning Dry Vacuum Pump** Self Cleaning dry vacuum pump as Welch (Rietschle Thomas) 2027 complete with accessories such as hoses and valves	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN8 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
25	**Anti vibration (vibration isolation) weighing tables for balances** Anti vibration (vibration isolation) weighing tables for balances as Series 2500 Vibration Isolation Table Designed to provide suitable working environment for devises that are sensitive to vibrations and shocks eg balances. Equipped with an internal working surface consisting of a large mass mounted on rubber shock absorbing mounts or similar	2	No.		
26	**Data logger for freezers and ovens/incubators** For monitoring and recording temperatures inside freezers and ovens Wireless connection to computer Temperature range at least -90○C to +300 At least 2 channels and can store at least 10,000 measurements per channel RS232 Interface and associated windows software Warning alarm with High/Low setting MAX/MIN with time and date stamp	1	No.		
27	**Hand Held Digital Thermometer** Hand held digital thermometer as Hart Scientific 1522 or RS Components (SA) RS507-5790 Dual Channel Battery powered with rechargeable battery Temperature range at least -90◦C to +300 Data logging capacity -at least 7,500 measurements with associated Windows software and RS232 Interface or equivalent Warning alarm with High/Low setting MAX/MIN with time and date stamp Choice of display in °C,°F or °K Backlit LCD display	10	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
28	**Associated temperature probes specific for the above thermometer in (27**) High accuracy and chemical resistant probes (for placing inside freezers and ovens	5	No.		
29	**Vortex Mixers** Automatic touch start Small footprint to fit inside small PCR hoods Adjustable speed ranging from 0 to 2,500 rpm	2	No.		
30	**Stomacher blender** Stomacher blender and associated bags as Brinkmann Instruments Lab Blender Model 400 Circulator. Sample volume between 80 to 400 mL User-programmable timer and speed and digital timer Complete with accessories as Sample bag rack (10 place) for above bags	2	No.		
31	**PH Meter** Range; Ph -2.00 to 16.00 pH; mV ± 699.9 mV; ± 2000 mV; Temperature -20.0 to 120.0°C Resolution; pH- 0.01 pH; mV 0.1 mV (± 699.9 mV); 1 mV (± 2000 mV); Temperature- 0.1 °C Accuracy; pH ± 0.01 pH; mV ± 0.2 mV (± 699.9 mV); ± 1 mV (± 2000 mV); Temperature ± 0.2 °C (excluding probe error) pH Calibration - Up to 5 point calibration, 7 standard buffers available (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) Temperature Compensation is manual or automatic from -20 to 120°C Supplied complete with refillable pH electrode (glass-body, BNC & Pin with 1 m cable), stainless steel temperature probe, electrode holder, pH 4 and pH 7 buffer sachets, electrode refilling solution, 12Vdc power adapter and instructions	2	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
32	**Ultrasonic bath with heating and degassing capability**				
	(a) At least 45 litre capacity Equipped with at least two cleaning modes (between 25 and 140 kHz) Built in timer with digital display and controls Heating capacity to at least 90◦C Degassing function for degassing cleaning liquids Equipped with a drain tap	1	No.		
	(b) Separate Accessories to (a) above				
	(i) Stainless steel Mesh baskets	4	No.		
	(ii) Tight fitting and water proof Lid	4	No.		
33	**Laboratory Gas Burner, Hose and Foot Switch**				
	Laboratory gas burner, hose and foot switch as WLD-TEC "Gasprofi" Series 2 SCS Burners with push button ignition Equipped with timer and infrared sensor IR sensor equipped with "double click" action to prevent accidental ignition Easy to clean stainless steel construction Equipped with Safety Control System (SCS) which monitors ignition and flame, features overheating protection and a Burner Head Control (BHC). BHC to ensure the flame will be extinguished after a set time (e.g. 30 seconds) if the burner head is dirty. An automatic shut-off system when a flame is accidentally left burning.	2	No.		
	Carried to Biological and Nursing Equipment Collections				

BN11 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
34	**Tripod Stand**				
	Tripod stand suitable for use with the burner in (33) above Easy to clean stainless steel construction (or other suitable material) Adjustable height	2	No.		
35	**Automatic Microplate Washer**				
	Automatic Microplate washer/filler equipped with a 24 channel washer Digital settings and display (can be integrated with a robot Accommodates 96 and 384 well microplates Complete with all necessary accessories eg pumps and reagent reservoirs RS232 interface or similar Equipped with all necessary reservoirs for washing fluid and waste. Both automatic and manual use. Equipped with aerosol cover.	4	No.		
	Carried to Biological and Nursing Equipment Collections				

BN12 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
36	**Automatic Microplate Washer** Automatic Microplate washer/filler equipped with a 24 channel washer Digital settings and display (can be integrated with a robot Accommodates 96 and 384 well microplates Complete with all necessary accessories eg pumps and reagent reservoirs · RS232 interface or similar Equipped with all necessary reservoirs for washing fluid and waste. Both automatic and manual use. Equipped with aerosol cover.	1	No.		
37	**Autoclave** Chamber volume 310 liters; Design pressure meets ASME and PED requirements; Temperature range 105°C(221 °F) to 138°C (280°F);18 kW/27kW integral electrical steam generator or external steam source; User friendly control system with touch screen display; 30 Programs: 8 factory set programs, 2 test programs, 20 programmable cycle programs; Built-in printer Ethernet connection port for PC access via network; USB port to download cycle data to memory device; Pressure gauges on front panel 316L stainless steel chamber and door; Chamber has a mirror-like finish; Stainless steel piping; Conforms to Medical Device Directive 93/42 EEC and PED 97/23 EC, FDA Clearance; Conforms to standards: ASME, AAMI/ANSI-ST8, EN 285,UL; Company approved for 21 CFR 820, ISO 9001:2008 and ISO 13485:2003 (Medical Devices)	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN13 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
38	**Cryogenic Dewars** Cryogenic dewars (2 to 4 litre capacity) for storing liquid nitrogen on benchtop as Diflvac dewars Made of stainless steel (not glass) Double layered and with high vacuum, Shock and vibration proof Equipped with clamped lid and handle Fitted with an airtight cap (suitable for storage and dispensing N2 – not for transporting samples)	5	No.		
39	**Sequemcer** Sequemcer as Applied Biosystems 3500 genetic analyser complete with sequence analysis software and associated PC desktop compute At least 8-capillary System Single-line 505 nm, solid-state long-life laser—utilizes a standard power supply; requires no heat removal Powerful, integrated data collection and primary analysis software	1	No.		
40	**UV Crosslinker** UV crosslinker as Stratagene UV Stratalinker 2400 equipped with the following specifications; Shortwave 254nm UV: UV crosslinking membranes Longwave 365nm UV: UV curing, non-destructive testing Midrange 302nm UV: Photochemical reactions, UV crosslinking complete with UV meters and UV blocking eyewear.	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN14 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
41	**Cooled Incubator** Cooled Incubator as Model LMS Series Four 1200 (1200 litre capacity) with Built in Chart Recorder LMS Series Four Cooled Incubator Temperature controlled cabinet (-10°C to +50°C) Stainless steel Construction 1200 litre Interior – stainless steel Insulation – foamed polyurethane	1	No.		
42	**Soil Sample Extractor** Soil sample extractor as MEKU Germany complete with high pressure rinsing pump and accessories For separation of cysts from wet and dry soil samples, controlled by microprocessor, automatically working cycle-with variable rinsing time, acrylic glass can and accessories	2	No.		
43	**Fenwick-can** Fenwick-can as MEKU Germany with acrylic glass 5mm, rinsing cone of stainless steel	1	No.		
44	**ViiA TM 7 Real-Time PCR System** ViiA TM 7 Real-Time PCR System with Standard 96-Well Block Module and Desktop Computer. Includes: Instrument with standard 96-well thermal cycling block, halogen lamp, OptiFlex Detection System, Windows XP based desktop PC,17'' flat panel monitor, Sequence Detection Software, PRIMER EXPRESS Oligonucleotide design software,	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN15 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
45	**Qubit 2.0 Flourometer as Thermo Fisher Scientific** For DNA, RNA and Protein Quantification instrument complete with the kits as Qubit for DNA, RNA and protein qualification complete with kits. The Qubit 2.0 Fluorometer should be easy-to-use, analytical instrument designed to work seamlessly with the Qubit assays (previously known as Quant-iT™ assays) for DNA, RNA, and protein quantitation. The integrated design of the instrument and assays results in the Qubit® 2.0 Sensitive Fluorometer that is accurate than UV absorbance helping to avoid repetition of experiments due to inaccurate nucleic acid, protein and down to 1ul fluorimetric measurements. It should be ideal for cloning, sequencing, transfection, qPCR, microarrays, protein gels, Western blots, and protein activity assays. The Quantitation Starter Kit Contains 1 Fluorometer, 4 Assays and 500 Assay tubes. Includes: One 2.0 Fluorometer (Cat. No. Q32866) Assay tubes (set of 500) (Cat. No. Q32856) dsDNA BR Assay Kit, 100 assays (Cat. No. Q32850) dsDNA HS Assay Kit, 100 assays (Cat. No. Q32851) RNA Assay Kit, 100 assays (Cat. No. Q32852) Protein Assay Kit, 100 assays (Cat. No. Q33211)"	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN16 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
46	**Steam Scrubber Dishwashers** Steam Scrubber Dishwashers with two racks for General Purpose Labware ED displays program selected or details of the program. Flexible cycle options allow you to change wash and dry cycle duration and number of rinses. Upper and lower rotating wash arms with adjustable height center tower distribute up to 60 gallons (227 liters) of water per minute.• Tower adjusts to accommodate various glassware heights. Built-in forced air drying system Dual heaters boost water and glassware temperatures: With minimum inlet temperature of 120° F (49° C), the sump heater elevates water temperature approximately 20° F (11° C) Dry or liquid detergent dispenser	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN17 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
47	**Micro-Pipettes**				
	Micro-pipettes; Adjustable volume; complete with suitable stands/ holders; Adjustable volume pipettes; 0.5 to 10 ul capacity; Complete with micropipette holder/stand suitable for wall/upright mounting	3	No.		
	Adjustable volume pipettes; 10 to 100 ul capacity; Complete with micropipette holder/stand suitable for wall/upright mounting	3	No.		
	Adjustable volume pipettes; Upto 1 ml capacity; Complete with micropipette holder/stand suitable for wall/upright mounting	3	No.		
48	**Carousel (Upright) Stands**				
	Carousel (upright) stands for at least 6 micropipettes together; suitable for all of the above in (43) micropipettes; easy to clean	2	No.		
49	**2000 Geno/Grinder**				
	2000 Geno/Grinder Automated mechanical disruption of plant and animal tissue; DNA/RNA and protein extraction from plants, yeast, and bacteria; standard clamp holds two deep-well; 96-well titer plates; strong vertical clamp movement at 500-1700 strokes/minute; rapid throughput of seeds, plant and animal tissues; 1-2 minute typical running time; digital timer; lockdown lid; safety interlocks; 115V, 60Hz, 8A.	1	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
50	**Complete Electrophoresis Tank And Power Supply** Complete Electrophoresis tank and power supply Horizontal gel tank Gell dimensions at least 130mm x 150 mm (w x d) Buffer volume 900 ml to 1,200ml Equipped with at least 4 comb positions Removable gel casting tray Includes buffer recirculation ports to prevent buffer depletion Include 2mm combs for different number of wells (12, 16, 24 28 samples) 2 for each	1	No.		
51	**Power supply suitable for above electrophoresis tanks** Power supply suitable for above electrophoresis tanks which also can run 3 similar tanks at the same time to produce at least 600 volts and 2,000 milliamps ; equipped with audible alarm and auto-start function in case of power failure.	1	Lot		
52	**Analytical Balance** Readability: 0.01 mg – 0.1 mg Weighing capacity: 120 g – 520 g Weighing pan dimensions: 85 × 85 mm MCA models include QApp software Integrated ionizer in glass draft shield eliminates electrostatic charges Weighing Capacity: 120 g, 220 g Readability: 0.01 mg Balance Type: Semi-Micro Pan Size: 85 mm Voltage: 120/240 V Draft Shield Type: Glass/Automatic+Ionizer, Glass/Manual	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN19 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
53	**Biosafety Cabinet class 11** Biosafety Cabinet class 11 Depth (Metric) Interior 46.5 cm Electrical Requirements 230V 50/60Hz Exhaust Air Filter H14 HEPA EN 1822 Filter Efficiency 99.995% at the most penetrating particle size (MPPS) Filter Type H14 HEPA EN 1822, 99.995% at the most penetrating particle size (MPPS) Heat Output (English) 265w Height (Metric) Exterior 158.6cm Height (Metric) Interior 78cm Hertz 50/60Hz Length (Metric) Exterior 80cm Lighting >1250 lx Load Bearing Capacity (English) 110 lb. Load Bearing Capacity (Metric) 51kg Net Weight (Metric) 230kg Ports 4 access (2 on each side wall) Service Fixtures Up to 4 through access ports; up to 6 on rear wall Shipping Weight (Metric) 260kg Voltage : 100/230 V Certifications/Compliance :CE Marked Noise Level 56 or 58dbA, depending on model Outlets: One duplex on each side wall Power Consumption 265w Sash Opening 20cm; 77.3cm max Type II Volume (Metric) Exhaust 483 cu. m (284cfm)/hr. Width (English) Interior5 ft. Width (Metric) Exterior 160cm Width (Metric) Interior 150cm	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN20 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
54	**Refrigerated Centrifuge** Technical Data; Measuring range 4*90° Measuring accuracy < 0.1° ; operating temperature region error (temperature drift)<0.05° ; long time disperse< 0.1° Working temperature -10°～ +45℃ °/℃ Storage temperature -20℃--+80℃ Working current <100 uA Working humid <950x %RH Display resolution 0.1 ° Repetitive error <0.07° ° ZERO temperature drift 0.05 to 0.005%F.S/℃ %F.S/℃ Power 9V PP3 alkaline battery V Stand-by time; 700 Day Power consumption <100 mW Shell material ABS Plastic Dimension L160*W52.5*H21.5 mm Weight; 104 g Parameters SP-2 U	1	No.		
55	**Colony Counters** Minimum size of detected colony: 0.05 mm Camera: 1.2 megapixels - zoom x 28 Counting on Ø 55 - 90 mm round Petri dishes Counting on pour, surface, Spiral, circle mode plated Petri dishes Counting on chromogenic agar, PetriFilmTM, MC-media PadsTM, Compact DryTM, filtration membranes" Language: English	2	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
56	**Incubator** Type : Automated Incubator Access Time : 12 sec Certifications/Compliance :CE Marked Depth (English): 20.1 in. Depth (Metric) : 511 mm Temperature Range (Metric) : Ambient +10°C to 50°C Relative Humidity : >95% Features : Incubation and Storage Unit; Humidity up to 95% r.H. CO2 range of 0-20 Vol. %; Includes decontamination routine-ContraCon Electrical Requirements : 100-230V; 50/60 Hz For Use With (Application) : Incubation and storage for cell culture applications Ambient +10°C to 50°C" Height (English): 35.6 in. Height (Metric) : 905 mm Holds: 56 Pc. 1536-Well Plates, 42 Pc. 96-Well or 384-Well Plates, 30 Pc Transwell or Insert Plates, 20 Pc. Deep-Well Model : Cytomat 2 C-LiN Series Automated incubator Voltage : 100/230 V Weight (Metric) : 80 kg Width (English) : 22.5 in. Width (Metric) : 572 mm Unit Size : Each	1	No.		
57	**Multichannel Pipettes Assorted as Transferpette 703730** Channel: 12-Channel pipette Volume : Adjustable 5-50µl Volume : Adjustable 20-200 µl	 1 1	 No. No.		
	Carried to Biological and Nursing Equipment Collections				

BN22 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
58	**Digital Compound Microscope With Screen** Head: Binocular Digital observation head, inclined 30° and rotatable 360°. Eyepiece: Widefield eyepieces WF10X/20 with field number 20. Nosepiece: Quadruple revolving nosepiece, rotation on ball bearings. Objectives: E-Plan 4x (0.10), 10x (0.25), 40x (0.65), 100X (1.25). Working stage: Double layer with mechanical sliding stage, size 150x133mm, X-Y movement range 75x50mm, specimen holder for one slide. Belt drive in X direction. Condenser: Abbe condenser, N.A. 1,25 precentered Focusing system: Coaxial coarse and fine, with focusing stop mechanism Illumination: Light source X-LED³ type with white LED; light intensity control using a knob on left side of the frame. LED power 3.6W, comparable to a 50W halogen bulb" Tablet Specifications Operating system; OS Windows 8.1; Processor and chipset; Processor manufacturer Intel; Processor Type Bay Trail; Model Z3735F; Speed 1,83 GHz; Processor Core; Quad core Memory; Standard Memory 2 GB; Memory Technology LPDDR3; Memory Card Reader ; Supported memory microSD Storage; Capacity flash memory 16+16 GB Display and Graphics; Screen Size 8.9”; Screen Type LCD color TFT; Screen Mode Full HD; Screen Resolution 1920 x 1200; Backlight technology LED; Touchscreen; Multi-touch screen	2	No.		
	Carried to Biological and Nursing Equipment Collections				

BN23 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont. Graphics Controller Manufacturer as Intel Graphics Controller Model HD Graphics Graphics Memory Technology LPDDR3 Graphics Memory Accessibility Shared Network & Communication; LAN wireless; Wireless LAN standard IEEE 802.11a/g/n Bluetooth; Standard Bluetooth; Bluetooth 4.0 Interfaces/Ports; HDMI; input Devices; Keyboard Type Touchscreen; built -in Devices Microphone Software; Operating System Windows 8.1 32-bit Software Microsoft Office(1 year); Image Analysis software OPTIKA VISION LITE Battery Information; Number of Cells 2-cell; Battery Chemistry Lithium ION; Battery Capacity 6000 mAh Power Description; Maximum Power Supply Wattage 10W; Weight and dimensions Thickness 9.5mm; Width 220mm; Height 157mm Features: • Maintenance free: Microprocessor controlled unit • 16×2 LCD Display • Digital speed selection • Highly accurate speeds 0.12, 0.25, 0.50, 0.75, 1.00, 1.25, 2.50 mm/sec • Digital Timer & Time multiplier with Audio & Visual Alarm • Very low power consumption • Easy height adjustment of drum • Auto concentration response curve(CRC) mode & Normal mode • Sturdy, corrosion resistant body • Battery backup(optional)				
	Carried to Biological and Nursing Equipment Collections				

BN24 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
59	**Spectrophotometer** Wavelength range : 190 nm - 1,100 nm Photometric accuracy (K2Cr2O7) : ±0.01A Wavelength accuracy : ±1.0nm Resolution (Toluene in hexane) : >1.5 Stray light (KCl, 198nm): >2 Options: Printer; Cuvettes; Cuvette Changer; Barcode Reader; Fingerprint Reader; FillPal Mini; CertiRef; LabX PC Software" Shortcuts per user: 24 Max. Number of Methods : 20 User Identification : yes Languages : English Minimal Scan time : 1 s Display: 7 inch QVGA Color TFT touch sensitive screen Displayed Resolution : 800x400 Dimensions (DxHxW) : 10.04 in x 8.98 in x 8.19 in (255 mm x 228 mm x 208 mm) Weight (incl. Terminal) : 6.4 kg	1	No.		
60	**Analytic Balance as ME-T Balance Max 1000g** Readability: 0.01 mg – 0.1 mg Weighing capacity: 120 g – 520 g Weighing pan dimensions: 85 × 85 mm MCA models include QApp software Integrated ionizer in glass draft shield eliminates electrostatic charges Weighing Capacity: 120 g, 220 g Readability: 0.01 mg Balance Type: Semi-Micro Pan Size: 85 mm Voltage: 120/240V Draft Shield Type: Glass/Automatic + Ionizer, Glass/Manual	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN25 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
61	**Spirometer** Specification; Display Screen : Diagonal line 5.7inches, Monochrome LCD, Resolution 320*240 Control : Standard: UTILITY KEY,SVC KEY,FVC KEY,MVV KEY,PRINT KEY, 10WORDS KEY,[ ]KEY, KEY,START KEY,STOP KEY, KEY, KEY, KEY, KEY, Light alarm Measurement means : Flow velocity detection: pressure Gradient pneumatic flow sensor, Capacity detection: flow velocity integral" Measuring range : Capacity range: 0L ~ 9L, Flow velocity range: 0 ~ 14L / s Measurement accuracy: Capacity: 0L ~ 1.6L (± 50ml), 6L ~ 9L (± 3%) Flow rate: 5% or 0.2L / s , Respiratory rate: 4 / 20 ~ / min (± 1 / min), 20 / 60 / min (error: ± 5%)" Measuring timelimit and degree : Vital capacity: every 50s, measuring 3, FVC: per second, 25s, measuring 3, The maximum ventilation volumn: every 12 seconds, measuring 3" Paper Recorder: Method: dot matrix, Level Resolution Ration: 8 d/mm (speed 25mm/s). Uprightness Resolution Ration: 8 d/mm, Wave Channels: 1 Paper Width: 110mm(1.97inches), Paper Length: 15m(100inches) Formfeed Speed: 12.5,25 and 50mm/s (±2%) Power supply: AC: 100V~240V, DC: rechargeable Nickel-metal hydride (NI-MH), 14.4-volt, 1.8 amp hour Fuse : 100V~240V AC:F2A250V,5×20mm Safety classification : IEC60601-1 class I, type CF	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN26 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
62	**Thermocycler (PCR)** Dimensions: Height: 24.5cm (9.6 in.), Width: 23.7 cm (9.3 in.), Depth: 48.5 cm (19.1 in.) Display: 6.5 in. VGA 32k color with touch screen For Use With (Equipment): Veriti Thermal Cycler Peak Block Ramp Rate: 3.9°C⁄sec Product Line: Veriti™ Programs: Auto re-start (after power outages), Program overwrite protection Reaction Speed: Fast, Standard Reaction Volume Range: 10-100 µl Remarks: VeriFlex™ Blocks: 25 °C (5 °C Zone-to-Zone), Standard 0.2 ml format and sample block enabled to run fast chemistry Sample Ramp Rate: ± 3.35 °C⁄sec Temperature Range (Metric): 4.0-99.9 °C Tm Calculator: Menu driven through touch screen Weight: 11.4 kg (25 lb) Capacity: 96 x 0.2 ml tubes, 1 x 96-well plate Format: 0.2 ml tubes, 96-well plate Temperature Accuracy: ±0.25°C(35°C to 99.9°C) Temperature Uniformity: <0.5 °C (20 sec after reaching 95 °C) High-throughput Compatibility: High-throughput Compatible Memory: USB and On-board	2	No.		
63	**Refrigerator: Upright Blood/ Medical refrigerator** Power Input 115-127V 60Hz; Overall Dimensions (LxWxH) 27.36” x 23.43” x 65.75”; Capacity 9.5 cu ft.; Set Temperature Range +4°C to +15°C; Hold Over Time 1 hr. (+5°C to +10°C); Climate Class (ambient temperature range) SN (+10°C to +32°C); Defrosting Technique Natural Warranty Lifetime	1	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
64	**Hemoglobin Machine as Mission Plus Brand Digital** Methodology: Reflectance Photometry Detection Principle: Methemoglobin Time to Results: < 15 seconds Memory: 1,000 tests with date/time and ID number Specimen Volume: 10 µL Specimen Type: Capillary and Venous whole blood Hb Measurement Range: 4.5-25.6 g/dL Hct Range: 13-75% Wavelengths: 525 nm PC Interface: Mini USB Port Calibration: Automatic Hb Within Run Precision CV: ≤ 3% Hb Total Precision CV: ≤ 3% Accuracy: Venous Blood: Y=0.9582X+0.5673, R2=0.992; Capillary Blood: Y=1.006X+0.026, R2=0.993 Operating Conditions: 10 – 40 °C (50 -104 °F); ≤90% RH Meter Storage Conditions: 0-50 °C (32-122 °F); ≤90% RH Strip/Device Storage Conditions: 2-30 °C (36-86 °F); ≤85% RH Strip/Device Shelf Life: 2 years unopened canister; 3 months opened canister Power Source: 4*AAA (1.5 V) or AC adapter (Mini USB, 5 V dc, 50 mA) Battery Life: 2,700 tests or 360 hours Automatic Shut Off: 8 minutes Meter Dimensions (L X W X H): 137mm × 79 mm × 26 mm (5.4″x 3.11″x 1.02″) LCD Dimensions (L X W): 50 mm × 50 mm (1.97″x 1.97″)	1	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
65	**Freezer: Upright Single door plasma freezer** Temperature control: Accurate temperature control to make inner temperature increment at 1 ℃, adjustable temperature range: -20 ℃ to -40 ℃, integrated sensors to display and control temperature, LCD+ Dual LED digital display for ease of observation, Removable outdoor double seals design for better temperature maintaining and energy saving, Environment friendly refrigerant: CFC-Free and HCFC-Free. Safety: Dual display to read multiple parameters: ambient temperature, power voltage, inner temperature, in-built backup battery to display temperature and to operate audible and visual alarm system for up to 48 hours without AC power, Multiple alarms: High/low temperature, power failure, sensor error, door ajar, low voltage in backup battery, hot condenser, high/low voltage alarm, high ambient temperature alarm, three types of alarms: Buzzer, flashing light and remote alarm Capacity: Upright, 90L, Temperature range -10/-40℃, Voltage 220V~240V,50Hz/60Hz Internal Dimensions (W/D/H) 500x485x532 mm, External Dimension (W/D/H) 700x669x854 mm.	1	No.		
66	**Bilirubin Meter as NEO-BIL Plus** To analyze the 'total bilirubin' through a micro capillary tube in order to follow the new born icterus course. A precise sample measurement of both bilirubin and interferential on the same point of the capillary carried-out by a special reading system. The reading should be carried out even on a small quantity of serum. No reagents are required. To be equipped with a built in printer for the results sequential printing.	1	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
67	**Digital Dissecting microscope with screen** Model : FM3D0325A Monocular 2M Resolution Digital Microscope with LCD Screen Optical Magnification: 0.3-2.5X (0.18-1.5X and 0.6-5X is for optional) Working Distance : 80 mm Field of View (mm) :20 mm-2.4mm (The field of view is different for different optical magnification) Standard Stand : FH65 Pole Stand Light Source : LED Ring Light with 4 zones control CCD Unit: High definition auto focus camera Monitor: 12.5 inch high definition monitor	1	No.		
68	**Centrifuge** Fully digital display with ease to customize cycle parameters on the fly, or set and select one of the 10 programmable cycles. Spin up to 12x 75-100 mm (3-10 mL) tubes without switching tube holders or adding cushions. No routine maintenance. Brushless motor, engineered composite components. Imbalance detection and a shatterproof lid which can only be opened when the rotor is stopped, even if the unit loses power. Tube Capacity: 12 x 75-100 mm/3-10 mL Applications: Chemistry, Coag, PPP, PRP, Urine Centrifugation: Horizontal, max 2,000 xg Included: Rotor, buckets and tube holders, cycle label, 2 years (rotor: lifetime warranty)	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN30 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
69	**Glucose analyzer: AccuCheck** Two buttons operation for intuitive handling, Large and easy-to-read display Safety features include under-dosing alerts and re-dose option in 10 seconds. The visual double check, 2 hours Post-prandial testing alert reminders. Pre- and post-prandial markers, 500 test results are stored in memory with average of all blood test results over 7, 14, 30 and 90 days. A hundred percent Adherence to accuracy requirements of DIN EN ISO 15197:2013.1 Internal memory independent of battery power thus no losing the date and time settings. Transfer data from the meter to your PC using a USB cable. Measuring principle: Mutant variant of the glucose dehydrogenase quinone protein (Mut. Q-GDH 2, modified variant of EC 1.1.5.2), acinetobacter spec; photometric end-point measurement Measuring time: Approximately 5 seconds (blood application with test strip within the meter), Approximately 8 seconds (blood application with test strip outside the meter) Optimal operation environment: Temeprature+8 to +42 °C and Up to 93 % relative humidity, Altitude independence: 0 to 4,000m (0 to 13,123 feet) Dimensions: 97.8 x 46.8 x 19.1 mm, Weight: 46 g without battery, 50 g with battery Display: 96 segments LCD display with symbols Battery: 1 battery, type CR 2032 Battery life: Approximately 1 000 measurements or one year (whichever comes first) Blood volume:1 to 2 µL Measuring range: 10 mg/dL to 600 mg/dL, 0.6 mmol/L to 33.3 mmol/L	1	No.		
	Carried to Biological and Nursing Equipment Collections				

BN31 OF 35

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont. Sample types: Capillary blood; If the test strip is removed from the meter to apply blood: Venous blood anticoagulated with lithium heparin or ammonium heparin or EDTA, arterial blood and blood from neonates Sample dosing: Blood application onto the middle of the test pad. The test strip (and its components) has the function to spread the blood above the test area in a quick and hygienic way Dosing options: Blood can be applied to an already inserted test strip, or a test strip outside the meter. Outside of the meter dosing is helpful to minimise the risk of contamination when a meter has multiple users (e.g. in a hospital) and, in case of alternative site testing, to facilitate blood application. Re-dosing capability: Additional blood can be added to the test strip within 10 seconds after applying the first drop (applies for inside mode) Test strip stability: 18 months after production date. The test strips remain stable at least up to the expiry date printed on the test strip vial, even after opening (the test strip container must be closed tightly after each test strip is removed)				
70	**Hot Air Oven** Interior easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides Volume;161 l Dimensions; w(A) x h(B) x d(C): 560 x 720 x 400 mm Max. number of internals; 8 Max. loading of chamber; 210 kg Max. loading per internal; 20 kg Temperature: Up to 300°C	1	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Biological and Nursing Equipment cont.				
71	**Laboratory Incubator**				
	Stainless steel interior Easy-to-clean stainless steel interior, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides Volume; 53 Litres Dimensions; w(A)xh(B)x d(C): 400x400x330mm Max. number of internals; 4 Max. loading of chamber; 80 kg Max. loading per internal; 20 kg Textured stainless steel casing; Dimensions; w(D)xh(E)xd(F): 585x784x514mm (d +56mm door handle) Housing; rear zinc-plated steel Voltage Electrical load; 230V,50/60Hz approx. 1000W Voltage Electrical load;115 V,50/60Hz approx. 900 W Ambient conditions; Altitude of installation max. 2,000 m above sea level; Ambient temperature; +5°C to +40°C; Humidity; rh max. 80%, non-condensing; Overvoltage category II Pollution degree; 2	1	No.		
72	**PH meter as Benchtop Mettler Toledo**				
	Range: ±399.9 mV (HI 2211 only) ±2000 mV (HI 2211 only) Resolution: 0.1 mV (HI 2211 only) 1 mV (HI 2211 only) Accuracy @ 20°C/68°F: ±0.2 mV (HI 2211 only) ±1 mV (HI 2211 only) pH Calibration: 1- or 2-point calibration, 5 buffers available (4.01, 6.86, 7.01, 9.18, 10.01) Temperature compensation: Manual or Automatic from: –9.9 to120.0°C (14.2-248.0oF) pH Electrode: HI 1131B (included) Dimensions: 240x182x74 mm Environment: 0 to 50 °C (32 to 122 °F) max. 95% RH non-condensing	1	No.		
	Carried to Biological and Nursing Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE
	Biological and Nursing Equipment cont.			
73	**Water distiller as Liston A1104** Distillation water capacity 12 lt/hour Cooling water consumption (max.) 120lt/hour Cooling water output temperature 50°C Heater type; Stainless steel tube resistance Safety measure; Water level control with thermostat and electrode Casing material Stainless steel Interior material; Stainless steel Connection materials; PVC and Silicon hose	1	No.	
	Carried to Biological and Nursing Equipment Collections			
	Schedule 3: Biological and Nursing Equipment Collections. From page BN1 From page BN2 From page BN3 From page BN4 From page BN5 From page BN6 From page BN7 From page BN8 From page BN9 From page BN10 From page BN11 From page BN12 From page BN13 From page BN14 From page BN15			
	Carried to Biological and Nursing Equipment Collections page BN35			

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Brought forward from Biological and Nursing Equipment Collections page BN34 above From page BN16 From page BN17 From page BN18 From page BN19 From page BN20 From page BN21 From page BN22 From page BN23 From page BN24 From page BN25 From page BN26 From page BN27 From page BN28 From page BN29 From page BN30 From page BN31 From page BN32 From page BN33				
	Carried to Biological and Nursing Equipment Collections page BN30				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Schedule 4: Geography Laboratory Equipment (All Provisional) **All equipment shall be surge protected; English language manual** **(Prices to include; supplying, installation, testing and commissioning; all the accessories and connection items to the existing Electrical and Electronic systems in existence at the laboratory(s); KEBS certification; one year warrant; manufacturers license or software license)**				
1	**Meter Tapes (100 Meters)** As Freemans steel measuring tape 100metersx 13mm - Open Reel; Tempered steel blade; Rust protected; Sturdy rewind handle; Long winder with easy grip knob facilitates quick rewinding; Protruding marker at bottom of the case allows easy measurement of land; Ring end fitted with folding claw for easy single end use; Impact resistant plastic case.	10	No.		
2	**Prismatic Compass** as Scientific Brass Maritime	10	No.		
3	**Mobile mapper GPS receiver** MobileMapper 50 4G + MobileMapper Field Android Software with Nylon Carry Case Standard CF-Cap Size GNSS Constellation: GPS L1 C/A; GLONASS L1 C/A; Galileo E; Beidou B1; SBAS: WAAS/EGNOS/MSAS/GAGAN/QZSS Tri constellation system: GPS/GAL or GPS/GLO/GAL or GPS/Beidou/GAL Data Format: NMEA output Accuracy Specifications (Horizontal RMS) Real-time SBAS: < 1.5 m depending on the environmental conditions	2	No.		
	Carried to Geography Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Geography Laboratory Equipment cont.				
4	**Geomedia GIS package (5 Licenses)** Geospatial Educational Desktop Core level 1 permanent licenses which includes: 5 permanent licenses of ERDAS IMAGINE Professional, GeoMedia Professional, IMAGINE Expansion Pack, IMAGINE Photogrammetry, IMAGINE Terrain Editor, PRO600 CART, PRO600 DTM, ERDAS ER Mapper, GeoMedia Transportation Manager, GeoMedia Motion Video Analyst Professional, GeoMedia Advanced Collection, ERDAS APOLLO Essentials + 125 Free Student Licenses	1	Pack		
5	**Plane Tabling Equipment** Trading direct plane table with aluminum Stand and all Accessories; Alidade (sighting rule); Trough Compass; Plumb Fork and Plumb bob; Aluminum Tripod Stand; Spirit Level	2	No.		
6	**Assorted Topographical Maps** scale 1: 20000; 1: 50000; 1: 250000	500	Pcs		
	Carried to Geography Laboratory Equipment Collections				
	Schedule 4: Geography Laboratory Equipment Collections From page GE1 From page GE2				
	Carried to Laboratory Equipment Collections Summary				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Schedule 5: Science and Technology Laboratory Equipment (All Provisional) **All equipment shall be surge protected; English language manual** **(Prices to include; supplying, installation, testing and commissioning; all the accessories and connection items to the existing Electrical and Electronic systems in existence at the laboratory(s); KEBS certification; one year warrant; manufacturers license or software license)**				
1	**LEMI-45 Complete Air Track Apparatus** Surface length; 1.2 m Straightness of track; <0.10 mm (overall); <± 0.05 mm (for 400 mm length) Angle of working planes; 90° ± 0.1° Surface roughness of working planes; Ra 3.2 Diameter of air spray out holes; 0.8 mm Outer diameter of air entering holes; 30 mm Length/mass of glider (mm/g); 121/155 Floating height of glider; > 0.10 mm Digital timer & counter; 4 digits, timer range: 0∼999.9 s, counting range: 0∼9999 Air blower;:Power (W) 200, Pressure (kPa)> 4.5, Max duration (min) 120, Noise (dB) < 60, Dimensions (mm) Φ150 × H270, Outlet 1 Accessories kit including following items: Weights bucket-5g; Spring bumper- φ40 mm; Velcro joiner; Glider hook; Photogate support; Adjustable starting positioner; Pulley Glider mass- 50g; Harmonic spring- φ0.5 mm; n=195 loops; Glider flag U-shape 10mm; Glider flag U-shape 30 mm; Glider flag U-shape 50 mm Glider flag U-shape 100mm; Sole Rise-block height=5 mm; Rise-block height=10mm; Glider flag strip 5mm; Hexagon head screw M4x20/M4 x10; String with hook	4	No.		
	Carried to Science and Technology Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Science and Technology Laboratory Equipment cont.				
2	**8051 Microcontroller kit with 8085** 8051 Microcontroller kit with 8085 Microprocessors 8085CPU@6.144 MHz,28 Keys hex keyboard and 6 seven segment displays,RS-232-C I/F, Down/UP Loading files to PC, 50 Pin FRC connector	3	No.		
3	**Digital Multimeter** 6.5 Digit Resolution; Basic VDC Accuracy of up to 0.0024% (1 yr.) 100 mV to 1000 V Voltage Range with up to 100 nV Resolution; 100 µA to 10 A Current Range with up to 100 pA Resolution, 10 Ω to 1 GΩ Range, with up to 10 µΩ Resolution, CAT I 1000 V, CAT II 600 V	4	No.		
4	**LEMI-51 Interference, Diffraction and Velocity Measurement of Sound Wave** Sine wave signal generator: Frequency range: 38 ~ 42 kHz; resolution: 1 Hz Ultrasonic transducer: Piezo-ceramic chip; oscillation frequency: 40.1 ± 0.4 kHz Vernier caliper: Range: 0 ~ 200 mm; accuracy: 0.02 mm Ultrasonic receiver: Rotational range: -90° ~ 90°; unilateral scale: 0° ~ 20°; division: 1° Measurement accuracy: <2% for phase method	4	No.		
5	Dual power supply, 2*15V/2A Adjustable outputs: 0-30V and 0-10A; current regulation 0 - 10A。	5	No.		
6	Logic training board OR/NOR function, omega type LTB801	4	No.		
	Carried to Science and Technology Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Science and Technology Laboratory Equipment cont.				
7	**Lemi-12 Young Modulus Hall Sensor** Reading Microscope: Range: 8 mm; resolution: 0.01 mm; magnification: 20X Weights: 10.0 g and 20.0 g (8pcs) Digital Multimeter: 3-1/2 digit; range: 0 ~ 2000 mV Samples: Copper and malleable cast-iron sheets Relative Uncertainty of Measurement: < 3%	2	No.		
8	**LEMI-32 Magnetic Damping and Friction** Electronic timer: Measuring cylinder: volume: 1000 mL; height: 400 mm	2	No.		
9	**LEMI-26 apparatus of work functions and specific charge of electron** Ideal diode: pure Tungsten filament, filament current 0.400 ~ 0.800 A, accuracy 1.0 mA, anode voltage DC 0 ~120 V, accuracy 0.1 V Coil parameters: inner radius r1=24.0 mm outer radius r2=36.0 mm, length L=18.0 mm, number of turns N=800 Magnetization current: 0 ~ 0.800 A	2	No.		
10	**TXRT Spectrometer;** Fixed grating 350-450mm <25pm,1.5/cm(Hand Held)	1	No.		
11	**NEX QC+ Quantez EDXRF spectrometer** (Hand Held)	1	No.		
12	**LIBS Spectrometer as Aryelle 150** (Hand Held)	1	No.		
13	**GAMMA Spectrometer MS-5000** bench top ESR/EPR	2	No.		
	Carried to Science and Technology Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Science and Technology Laboratory Equipment cont.				
14	**Sigma Analog Cathode Ray Oscilloscope as Sigma-0129CRO** Maximum Scan: 50ns, Rise Time: 3.5ns, Frequency: 100 Mhz Sweep Time:0.2 microseconds to 0.5 seconds per division (3% error), Power atings:115/230 V- Ac - 50/60 Hz	2	No.		
15	Development Board for PIC,ARM & AVR Controller	2	No.		
16	Electronic training board model CEE 2030 crown	2	No.		
	Carried to Science and Technology Laboratory Equipment Collections				
	Schedule 5: Science and Technology Laboratory Equipment Collections Page ST1 Page ST2 Page ST3 Page ST4 above				
	Carried to Laboratory Equipment Collections Summary				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Schedule 6: Renewable Energy Laboratory Equipment (All Provisional) **All equipment shall be surge protected; English language manual** **(Prices to include; supplying, installation, testing and commissioning; all the accessories and connection items to the existing Electrical and Electronic systems in existence at the laboratory(s); KEBS certification; one year warrant; manufacturers license or software license)**				
1	PV array position locator; Solar Pathfinder + software	1	No.		
2	PV Shade measurement tool; Solmetric SunEye 210	1	No.		
3	Grid Inverter; 2kVA, LCD Display MPPT, Power Limiter PV System DC90V to AC240V	1	No.		
4	AC Energy meter; kWh	1	No.		
5	AC Disconnect; 30A 240V	2	No.		
6	AC Breaker; 15A, SP	2	No.		
7	AC Breaker; 60A	1	No.		
8	DC Disconnect; 30A	2	No.		
9	PV Combiner Box 4string with lighting arrestor, 10A fuse and circuit breakers	1	No.		
10	DC Fuse holder; 30A, DIN mounted	4	No.		
11	DC Fuses; 15A	4	No.		
12	Load panel; 100A, 240V	2	No.		
13	Off-Grid Inverter; 2KVA12V	1	No.		
	Carried to Renewable Energy Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Renewable Energy Laboratory Equipment cont.				
14	Hybrid Inverter; 3KVA High Efficiency Pure Sine Wave 80Amp MPPT Controller	1	No.		
15	Battery; 200Ah, Gel; 200Ah, AGM 200Ah, Li-Ion with built-in BMS	1	No.		
16	Roof mockup; Slanted	1	No.		
17	PV mounting system; Ground	1	No.		
18	PV mounting systems; Roof	1	No.		
19	PPE Personal Fall Arrest System	4	No.		
20	**Cordless Impact drill/driver** with brushless DC motor complete with 6Ah Li-ion battery & battery Charger+1 extra battery Torque; max.(hard/soft) 75/47Nm No-load speed (1st gear/2nd gear) 0–480/0–2100 rpm Battery voltage;18V (Lithium Ion) Metal chuck capacity 1.5-13mm Max. drilling diameter in wood; 82mm Max. drilling diameter in steel; 13mm Max. drilling diameter in masonry; 16mm Screw diameter: Max. screw diameter; 12mm	2	No.		
21	Irradiation meter; Daystar/Seaward	1	No.		
22	2kW PV array; Eight 250W polycrystalline modules	1	No.		
23	**Clamp meter;** True RMS DIGITAL DC/AC; Multimeter Amp Voltage R HZ	2	No.		
	Carried to Renewable Energy Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Renewable Energy Laboratory Equipment cont.				
24	Charge controller 12V/24V 50A PWM;	2	No.		
	50A MPPT	2	No.		
25	Off-grid Inverter; 1.6kW/24V Solar MPPT; Inverter Charger	1	No.		
26	Solar ModuleFlexible Poly-crystalline 100W;	4	No.		
	Flexible Mono-crystalline 100W	4	No.		
27	Connector; MC4	40	Pairs		
28	Wind Turbine Generator;12/24V 1200W; 3 blades	1	No.		
29	Biodiesel Laboratory Unit; 1-2 Kw, Capacity: 1litre/Batch	1	No.		
30	**Assorted Screw driver set** 43-piece screwdriver bit set with quick-change universal holder and magnetic universal holder Product properties Ordering information PH1, PH2 (2x), PH3- length 25mm; PZ1, PZ2 (2x), PZ3- length 25mm SL3, SL4, SL5, SL6- length 25mm H3, H4, H5, H6 – length 25mm T10, T15, T20 (2x)- length 25mm T25, T27, T30, T40 – length 25mm TH10, TH15, TH20- length 75mm (2x), TH25, TH27- length 75mm TH30, TH40- length 75mm PH2 – length 75mm PZ2 – length 48-50mm SL6 T15, T20, T25 Nut setter with permanent magnet for 6 mm, 8 mm, 10 mm hex screws	2	No.		
	Carried to Renewable Energy Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Renewable Energy Laboratory Equipment cont.				
31	Wire crimping tool ; For AWG 14-10 2.5/4/.0/6.0mm2 solar cable	2	No.		
32	Irradiance Meter; Seaward Solar 100	1	No.		
33	PLC Training Starter Kit as Allen Bradley Analog Micrologix 1100	1	No.		
34	Charge controller; 30A 12/24V PWM	1	No.		
35	Digital multi-meter True RMS	1	No.		
36	Portable Logic Design Trainer as Global Specialties PB-502 Advanced	1	No.		
37	Micro controller as Arduino	4	No.		
38	Cable Stripper; For AWG 14-10 2.5/4/.0/6.0mm2 solar cable	2	No.		
39	Distance Meter; Laser Distance Meter	1	No.		
40	Pair of MC4 Solar Spanner; For assembly and disassembly of MC4 connectors	1	No.		
41	Cable Cutter; For max 24mm^2 3/8” cable	1	No.		
42	Micro controller; Raspberry pi	4	No.		
43	Sensors; Assorted for Arduino	1	No.		
44	IR Thermometer; Fluke 62 MAX IR Thermometer, Non-Contact	1	No.		
45	Digital multi-meter; True RMS	1	No.		
	Carried to Renewable Energy Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Renewable Energy Laboratory Equipment cont.				
46	Portable Logic Design Trainer; Global Specialties PB-502 Advanced	1	No		
47	Micro controller; as Arduino	1	No.		
48	Digital power monitor 240V AC	2	No.		
49	Mini lathe (Metal) 7x14" Precision Bench Top 550W Variable Speed 50-2500 RPM	2	No.		
50	Mini Lathe Indexable Carbide complete with Tool Bit Set	1	No.		
51	Mini lathe; Mini lathe Tool post	1	No.		
52	DC-DC Converter 5A DC-DC Adjustable Buck Converter 4~38v to 1.25-36v Step Down Power Supply High Efficiency	5	No.		
53	Mini DC to DC Voltage Regulator Step Up Boost Converter Power Supply Module 1V-5V to 5V 500mA (Pack of 5)	2	No.		
54	Boost Module - DC-DC 10-60V to 12-97V 1500W 30A Voltage Step Up Converter	2	No.		
55	Boost CC CV Power Supply Module	2	No.		
56	Lithium Iron Phosphate LiFePO4 Rechargeable Battery 12v 120Ah Prismatic Cell (Set of 4-3.2V Cells) with Bus Bars and Lugs	1	No.		
57	LiFePo4 Cell 100ah 3.2v Heavy Duty Terminal 200A discharge	1	No.		
58	Energy Monitor Energy Monitor with PV – Track Electricity Usage and PV Production in Real Time	1	No.		
	Carried to Renewable Energy Laboratory Equipment Collections				

RE5 OF 8

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Renewable Energy Laboratory Equipment cont.				
59	Energy MeterSingle Phase DIN-rail Type Kilowatt Hour kWh Meter 240V 50Hz 20 (100) A	2	No.		
60	Evacuated Tubes 20 1/2" long, 2 1/4" outside diameter, 1 3/4" inside diameter, Double wall structure with vacuum between walls	10	No.		
61	Solar water heater; 50 litre flat plat	1	No.		
62	Battery Protection BMS PCB Board	1	No.		
64	13S 48V 20A Li-ion Cell 18650	4	No.		
65	LiFePO4 16S 48V 100A Common Port with Balance	4	No.		
66	36V 35A 10s BMS PCB Protection Board with Balancing for Li-ion Battery Cell Pack	4	No.		
67	5S 15A Li-ion Lithium Battery BMS 18650 Charger Protection Board 18V 21V Cell Protection Circuit with Wire	4	No.		
68	4S 20A 14.8V Li-ion Lithium 18650 Battery BMS PCM Protection PCB Board	4	No.		
69	14.4V 20A LiFePo4 18650 BMS 4S PCM Lithium Iron Phosphate Battery Protection Board	4	No.		
70	10pcs 2S 10A 8.4V 7.4V 18650 Lithium Battery Protection/Lithium Iron Phosphate Board BMS	2	No.		
71	10pcs 2S 3A Li-ion 7.4v 8.4V 18650 Lithium Battery Charger Protection Board BMS	2	No.		
	Carried to Renewable Energy Laboratory Equipment Collections				

RE6 OF 8

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Renewable Energy Laboratory Equipment cont.				
64	**Digital Multi-meter (AC/DC Clamp Meter)**	2	No.		

Specs	Range	Resolution	Accuracy
DC Voltage	400mV/4V/40V/400V	0.1mV/1mV/10mV/0.1V	± (0.7%+1)
	1000V	1V	± (0.8%+3)
AC Voltage	4V/40V/400V	1mV/10mV/0.1V	± (0.8%+5)
	750V	1V	± (1.0%+10)
DC Current	400A/1000A	0.1A/1A	± (3.0%+3)
AC Current	400A/1000A	0.1A/1A	± (3.0%+3)
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ	0.1Ω/1Ω/10Ω/0.1kΩ/1kΩ	± (1.2%+1)
	40MΩ	10kΩ	± (2.0%+3)
Capacitance	4nF/40nF/400nF	1pF/10pF/0.1nF	± (4.0%+10)
	4μF/40μF/100μF	1nF/10nF/100nF	± (4.0%+10)
Frequency	40Hz/400Hz/4kHz	0.01Hz/0.1Hz/1Hz	± (2.0%+1)
	40kHz/100kHz	10Hz/0.1kHz	± (2.0%+1)
Duty Cycle	0.1%~99.9%	0.1%	± (2.0%+2)
Temperature	-40℃~0℃	1℃	± (1.0%+6)
	1℃~400℃	1℃	± (1.0%+3)
	401℃~750℃	1℃	± (1.0%+5)

65	**Cordless Angle Grinder with brushless DC motor** No-load speed 10000 rpm Battery voltage;18V (lithium ion 5Ah) with charger Disc diameter; 115 mm Switch type 2 motions side switch Spindle thread size; M14 Auxiliary handle Protective Guard	2	No.		
	Carried to Renewable Energy Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Renewable Energy Laboratory Equipment cont.				
66	**Battery Monitor as Victron** Battery voltage, current, power, ampere-hours consumed and state of charge Time to go at the current rate of discharge Programmable visual and audible alarm Programmable relay, to turn off non critical loads or to run a generator when needed. 500 Amp quick connect shunt and connection kit Shunt selection capability up to 10.000 Amps VE. Direct communication port Stores a wide range of historical events, which can be used to evaluate usage patterns and battery health Wide input voltage range: 9.5–95V High current measurement resolution:10mA (0,01A) Low current consumption: 2.9Ah per month (4 mA) @12V and 2,2 Ah per month (3mA) @ 24V	1	No.		
65	**Battery Balancer as Victron**	1	No.		
	Carried to Renewable Energy Laboratory Equipment Collections				
	Schedule 6: Renewable Energy Laboratory Equipment Collections Page RE1 Page RE2 Page RE3 Page RE4 Page RE5 Page RE6 Page RE7 Page RE8 above				
	Carried to Laboratory Equipment Collections Summary				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Schedule 7: Chemistry Laboratory Equipment (All Provisional) **All equipment shall be surge protected; English language manual** **(Prices to include; supplying, installation, testing and commissioning; all the accessories and connection items to the existing Electrical and Electronic systems in existence at the laboratory(s); KEBS certification; one year warrant; manufacturers license or software license)**				
1	**Analytical Balance as UMS/ UK/ BIOBASE/ ME 204** Specifications; Maximum Capacity; 220 g Readability; 0.1 mg Repeatability (Test Weight); 0.1 mg (200 g) Minimum Weight (USP), Typical; 0.16 g Adjustment; Internal Weighing Pan Diameter; 90 mm Display; Backlit LCD Legal for Trade; No Settling Time; 2 s Repeatability (typical); 0.08 mg Interfaces; RS232 Dimensions (DxHxW); 344mmx 344mmx210mm Housing; Die-cast aluminum, plastic ABS Linearity; 0.2 mg Linearity; ± 0.2 mg Linearity (typical); 0.06 mg Temperature accuracy; (±) 3ppm/°C Resolution; 0.1 mg Hygienic Design; Yes Material Number(s); 30042932	1	No.		
	Carried to Chemistry Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
2	**Chemistry Laboratory Equipment cont.** **Digital Hotplate Stirrer with Temperature Probe as Heating Type as UMS- UK/ BIOBASE** Features; U380-Pro Heating Magnetic Stirrers Max. Heating temperature is 280- 380°C. High resolution LCD displays actual temperature Brushless DC motor is maintenance free. Aluminum cover with ceramic work plate, allows for immediate heat transfer. External temperature control is possible with temperature sensor PT1000. Digital temperature control with max. temperature at 380°C. Digital Hotplate Stirrer With Temp Probe. Technical Parameters; Specifications; U380-Pro Work plate Dimension; 140x140mm Power ; 510W Heating output; 500W Voltage; 100-120/200-240V 50/60Hz Temperature display; LCD Heating temperature range; Room temp.+5°C - 380°C Over heat Protection; 420°C Temperature display accuracy; ±1°C External temperature sensor; PT1000 (accuracy ±0.5°C) Protection class; IP21 Dimension [W x D x H]; 320x180×108mm Weight; 2.2kg Permissible ambient temperature and humidity; 5-40℃ 80%RH	1	No.		
	Carried to Chemistry Laboratory Equipment Collections				

CL2 OF 9

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
3	**Chemistry Laboratory Equipment cont.** **Electronic Water Bath Shaker as UMS/ UK/ BIOBASE** Features; Power off recovery function. Audio and visual alarm. Stainless steel lid, prevent heat loss and evaporation. Double over-temperature protection design. Anti dry-out function. Model; SWB-110X12 (table-top) Control; PID Display; LCD Shaking Mode; Reciprocating shaking Drive Mode; Balancing drive Shaking Speed; 20~200rpm Shaking Accuracy; ±1 rpm Vibration Range; Φ25mm Standard Capacity; Universal spring clamp Max. Capacity; 250ml *12 or 500ml*8 or 1000ml*6 Shaking Plate Size; 430*320mm Spring Shaking Plate Size; 430*320*60mm Timing Range; 0~500 hours Temperature Range; RT+5°C~99.9°C Temp. Accuracy; ±0.2°C Temp. Uniformity; ±0.1°C External Material; 316 stainless steel Safety Function; Audio and visual alarm for over-temperature; alarm for over-speed; Detached over-temperature protector; Shutdown protection for door opening; Leakage or overcurrent protection. Consumption; 2000W Power Supply; AC110V/220V±10%,50/60HZ Internal Size(W*D*H) (mm); 510*380*240 External Size(W*D*H) (mm); 760*420*370 Package Size(W*D*H); 860*520*520 mm	1	No.		
	Carried to Chemistry Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Chemistry Laboratory Equipment cont.				
4	**Laboratory Oven as** UMS-UK/BIO BASE Features: High quality stainless steel chamber, safe and easy-to-clean. Microprocessor controller with LCD display, accurate and reliable. Equipped with multiple sets of heaters. Equipped with leakage protection. Equipped with spare temperature control which ensures the product work normally even the main temperature control failed. Adopt temperature selection switch which can select the grade according to the heating speed and operating temperature. Convenient operation for air inlet, reasonable air duct structure, good temperature uniformity. With inner glass door for easy observation. Anti-hot handle Provide one year warrant Technical Parameters: Temp. Range: RT+10℃-300℃ Temp. Fluctuation: ±1℃. Temp. Resolution: 0.1℃ Temp. Uniformity: ≦Max. Temp. ±3.5℃%. Temp uniformity .2.5oC Power Supply:220V,50HZ	1	No.		
	Carried to Chemistry Laboratory Equipment Collections				

CL4 OF 9

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
5	**Chemistry Laboratory Equipment cont.** **Centrifuge, Digital display (max speed 14000-20000r/min including rotors) as UMS-UK/ BIOBASE type U.THR18M Tabletop Multiple-Purpose High Speed Refrigerated Centrifuge** Features: It is researched to meet practical requirement of international biological. Brushless frequency motor with great torque, no powder pollution, free maintenance, quick in speed up and down. Microprocessor control, freely programmable, parameters can be reset during running process. CFC-free compressor unit, double cycle cooling system, cold and hot alternative easily, environment pollution free, precise temperature control. Automatic electric induction door lock, emergency unlock function, automatic protection for over-speed, over-temperature and imbalance. Main structure made of high quality steel, built-in rectification anti-explosion protective lining, stainless steel centrifugal chamber, three layers protection, safe and reliable. Easy and fast assembling and unassembling for rotors. Can match with multiple rotors, and special adapters can be customized according to customer's need. Three levels shock absorption, to achieve the best centrifugal result. Technical Parameters; Max Speed;18500r/min Max Capacity; 4*800ml Max RCF; 30910xg Speed Accuracy; ±20r/min Temp. Range; -20℃～40℃ Timer; 1～9h/59min Noise; ≤65dBA Power supply; AC220V,50HZ,15A Net weight;128Kg Dimension; 700*715*420mm Certificates; CE, ISO, Test report Must state the optional rotors available	1	No.		
	Carried to Chemistry Laboratory Equipment Collections				

CL5 OF 9

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Chemistry Laboratory Equipment cont.				
6	**PH/ORP/DO/CD/TDS Meter as UMS-UK/BIOBASE** SD Card real time data recorder pH/ORP, DO, CD/TDS, SALT METER Multi-function: pH/ORP, Conductivity/TDS, Dissolved oxygen, Salt. pH: 0 to 14.00 pH. ORP (mV): 1,999 mV. Conductivity : 200 uS/2 mS/20 mS/200 mS. TDS: 200/2,000/20,000/200,000 PPM. Salt: 0 to 12.0% salt (% weight). Dissolved oxygen: 0 to 20.0 mg/L. ATC (automatic temperature compensation). Data hold, Record (Max., Min.). RS232/USB computer interface. Real time data recorder, save the data into the SD memory card and can be download to the Provide one year warranty.	1	No.		
7	**Laboratory Automatic Titrator as UMS/UK/ BIOBASE BT-860** Structure: Desktop Material: Plastic Certification: ISO, RoHS Features It adopts coil realize to magnetic stir. Accurate closed-loop control for volume. High-accuracy burette up to 0.005mm. Simple design, discrete stirring unit, easy for disassembly. LCD touch screen Temp Range; 0~100c pH Measuring Range; 0~14pH Mv Measuring Range; ±1999mv Resolution; 0.01pH; 0.1mv; 0.1°C Repeatability Accuracy; 0.2% Repeatability; ≤0.2mv Burette Volume Accuracy; AC 110V/220V±10%, 50/60Hz				
	Carried to Chemistry Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Chemistry Laboratory Equipment cont.				
8	**Digital Polarimeter /Automatic Polarimeter as UMS/UK/ BIOBASE** Type; Sugar Refractometer Style; Seat Frame Application; Scientific Research Shell Material; Metal Customized; Non-Customized Model; Bk-P3 0r BK-P1/2 Main Features; LCD Display Photoelectric test and microcomputer control. Preheating is not needed. (Only for BK-P1 and BK-P2 Model) Dark-colored sample can be measure. (Only for BK-P1 and BK-P2 Model) Automatic repetition-measurement for 6 times, and calculation of average value and means square root Sample chamber adopts constant temperature designing in order to reduce the temperature heating influence. Provide one year warrant.	1	No.		
9	**Vertical Freezer as UMS/UK/ BIOBASE** Capacity; 251-300L Door Number; Single Door Type; Upright Freezer Door Type; Swing Door Power Source; Electricity Temperature Control; Computer Thermostat Temperature Type; Single-temperature Function; Cold Storage & Freezing(between -30°C- to - 40°C) Certification; CE, ISO Temperature Accuracy; 0.1c One year warranty.				
	Carried to Chemistry Laboratory Equipment Collections				

CL7 OF 9

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Chemistry Laboratory Equipment cont.				
10	**Furnace as UMS/UK/ BIOBASE** Temperature Range; 1000 – 1200°C Heating Element: Nickel chromium alloy wire Heating Rate; 0-30°C/min settable Features: Program controlling temperature for TP series. Heating wire is set in four sides of the furnace, anti-corrosion, prevent contamination Special insulation design, low shell temperature. SCR control, PID parameter self-setting; Low energy consumption. Multiple safety protection design: over-temperature alarm; Power off when over-temperature/over-load. Manual or automatic switch without interference; Built-in parameter password control function. One year warranty.	1	No.		
11	**Essential Oil Steam Distillation Apparatus**				
	1500w Electronic Stove(220V or 110V)	1	No.		
	Lab Iron Stands	1	Set		
	2000ml 2 Neck Boiling Flask	1	No.		
	2000ml Filling Flask	1	No.		
	Distillation Head With 50/40 And 24/40 Ground Joint	1	No.		
	300mm Allihn Condenser With S35 And 24/40 Joint	1	No.		
	Receiver/separatory Funnel With Teflon Stopcock, 24/40 Joint	1	No.		
	Carried to Chemistry Laboratory Equipment Collections				

CL8 OF 9

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Chemistry Laboratory Equipment cont.				
	Glass Stopper 24/40	1	No.		
	Plastic Clip 24/40	2	No.		
	Plastic Clip 45	1	No.		
	Stainless Steel Clip S35	1	No.		
	Rubber Hose	2	M		
	Carried to Chemistry Laboratory Equipment Collections.				
	Schedule 7: Chemistry Laboratory Equipment Collections				
	From page CL1				
	From page CL2				
	From page CL3				
	From page CL4				
	From page CL5				
	From page CL6				
	From page CL7				
	From page CL8				
	From page CL9 above				
	Carried to Laboratory Equipment Collections Summary				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Schedule 8: Forensic Laboratory Equipment (All Provisional) **All equipment shall be surge protected; English language manual** **(Prices to include; supplying, installation, testing and commissioning; all the accessories and connection items to the existing Electrical and Electronic systems in existence at the laboratory(s); KEBS certification; one year warrant; manufacturers license or software license)**				
1	**Digital Microscope as Leica 205 C** Combines full Apochromatic 20:5:1Zoom and Fusion optics Technology Manual Adjustment Resolution:Max.525 ip/mm Working Distance:61.5mm(Plano chromatic) Object field:29.5mm-1.44mm Maximum Values: Maximum magnification-1280x, Resolution-10501p/mm, Numerical aperture-0.35. Optics carrier:100% Apochromatic Optical System-Common Main Objectives(CMO) Lead free Coded/Motorized Function: Zoom, iris diaphragm, objective nose piece(encoded and motorized) Engage able zoom notches: 14 for repetitive tasks Double iris diaphragm for depth of field control: installed and encoded PC interface: USB. Incident light base: large with black and white stage insert and ant shock feet. Transmitted Light Base: Bright Field two sided dark field, Rotter man contrast	1	No.		
	Carried to Forensic Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Forensic Laboratory Equipment cont.				
2	**Metal Detector as Adams AD 360** Small and light weight: fits into small Belt Holster All metal detection Detection area: the entire length, circumference ant tip of the detection probe Single ON/OFF button Silent vibration alert when metal is detected Rugged all weather construction Standard battery: Extended use between battery changing or charging	3	No.		
3	**Compound Microscope as Leica DM3000 lead microscope stand.**	4	No.		
4	**Flash Light** Rechargeable with 120V AC charger with dual switch with C4 LED technology Unbreakable polycarbonate lens with scratch-resistant coating 1hour 30 mins of continuous use at maximum performance in High mode (800 lumens) Aluminum housing Non slip rubberized comfort grip and anti roll rubber ring IPx4 rated 1Meter impact resistance tested Battery recharge: upto 1000 times.	5	No.		
5	**Centrifuge** Speed: Maximum 15000 rpm Centrifugal Force(RCF): Maximum 18.000 xg Tube size: Maximum 100ml Capacity: Maximum400ml Rotary angle head: 8 x 50ml Temperature Range: Ambient Display/ Multifunctional: LCD/LED Power Supply: 220V Protection: Auto shut down for imbalance Accessories: Voltage stabilizer	1	No.		
	Carried to Forensic Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Forensic Laboratory Equipment cont.				
6	**Finger Print Collection Kit** 1 regular latent powder, 2 oz. 1 roll lifting tape 1-1/2 inches x 360 inches. 1 fiberglass fingerprint brush, extra soft. 1 set of fingerprint backing cards (50 sheets) 1 heavy-duty carry case, black plastic.	1	No.		
7	**Finger Print Development Chamber as of Weiss gallenkamp** Chamber size: interior dimensions:650mm(w) x 500mm(d)x 750mm(h)(26”x20”x30”) Exterior dimensions:45”x25”x36” Sample Storage Area:0.62m2, 7.2ft2 nominal Shelf loading:2 levels(1 shelf plus chamber floor) User access: Full width/length insulated door, with multiglazed window Gross weight:98kg Temperature Range:+400C, control fluctuation +/-0.300 Humidity Range: 50%-90% rh over the temperature range. Control fluctuation: +/- 3% rh Controls: user friendly controllers. Sample Protection: fitted upper temperature control Observation window: full length double glazed in the chamber door Sensors: combined solid state capacitance humidity and PT 100 temperature sensor Heating: proportionally controlled. Humidification: direct injection of water vapor	1	No.		
	Carried to Forensic Laboratory Equipment Collections				

PL3 OF 12

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Forensic Laboratory Equipment cont.				
8	**Shoe Print Lifting Equipment as of BVDA lifting equipment** B-18000:Gellifters Transparent,13x36cm/5.2x15.4”,2/p B-18200 Gel lifters Transparent,18x36cm/7.2x14.4”2/p Risk free: Possible to lift the same print multiple times without the risk of destroying it Easy to use: Flexible and low tack adhesive for ease of removal Multiple applications No formation of air bubbles Clear visualization of weak traces Sharp and rich in contrast.	1	No.		
9	**Placards** At least 250mm (9.85 inches) in size Solid inner line boarder 12.7 mm (0.5 inches) from the edge The division number must be at least 41 mm(1.6 inches) in height The text indicating the hazard must be at least 41mm (1.65inches) in height The color on the placard must be able to with stand 72hr fadeometer test, 30 day exposure to open weather The colors must fall within color tolerances The hazard number must be displayed in the lower corner of the placard	1	No.		
10	**Plastic resealabe bags** Bag size :(2.4” x 3.5”) (3.5” x 5”),(4” x 6”) poly zipper bags; food grade safe; airtight and waterproof; convenient: easy to close and open, transparent zipper bags; wide application.	1	No.		
	Carried to Forensic Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Forensic Laboratory Equipment cont.				
11	**Evidence collection containers** Gallon Arson Evidence & Solid Material Evidence Collection Container Material: Stainless steel with air tight lid. Internal coating: polymer lining Standard size: Gallon(pack of 2) Weight:1.8lbs Dimension:4x6x3 in Unit of measurement: Pack	1	Pack		
12	**Surveyor Flags** Material: polyester Nylon Color: Blue Thickness:0.08mm Feel: Plastic feel Packaging:100 flags per pack Flag size:127x100mm Water proof Fade Resistant Easy to label with a water proof marker Steel wire:533mm	1	No.		
13	**Crime Scene Tapes** Barrier Tape Size:3.5ml thick, 3 inches wide x 100 feet long Color: Yellow tape with black printing(according to OSHA1910.144(a)(3)(CRIME SCENE DO NOT CROSS) Material: Durable, Resilient, Tear proof plastic-polypropylene	10	No.		
	Carried to Forensic Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Forensic Laboratory Equipment cont.				
14	**Pocket knife** Overall length:9” Blade length:3.91” Blade Thickness:0.112” Blade material:154cm premium grade stainless steel Blade Style:Tanto Blade weight:1.33 0z Blade grind: Flat Edge type: plain Handle length:5.25” Handle thickness:0.630”(5/8) Handle material:6061-T6 Aircraft Aluminum Total Weight: 6.72 oz. Pocket clip: Tip down Knife type: Double action OTC Automatic Opener: Thumb slide Sheath: military Webbing and cordura Nylon.	10	No.		
15	**Reflective vest** ANSI safety vest Removability: Easy to pull the vest off Visibility: Neon Orange with reflective strips be visible from a minimum of 1000 feet. Function ability: Easy to access Side arms Base Fabric: Type; Mod acrylic blend, lime in color Weight: nominal:5.0 oz./yd2 Binding: Meet the requirements of ASTM F 1506 Retro reflective Tape: Horizontal reflective placement- two horizontal strips 360o Front vertical reflective placement: one left and one right vertical strips centered on each SHOULDER back “X” reflective placement Front Closure: Flame Resistant-black hook and loop, Velcron,width 1in,Length:11 in Pockets: One side breast pocket on the upper left side measuring 5 in x 5 in Laundering: Able to withstand a minimum of five washing cycles	10	No.		
	Carried to Forensic Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Forensic Laboratory Equipment cont.				
16	**Entomology collection kit as of SIRCHIE's new Forensic Entomology kit** 1-KCP323 Butterfly net , collapsible 15-CEB100 Specimen bags, 4”x10 plastic 1-SM100PIC Evidence labels, 50 1-ENTPL50 plain labels(No adhesive,)50 1-ENTKJ4 kill jar, 14 oz. 8-ECJ2 plastic jar 2, oz. 1-KCP324 plastic towel 1-TWS65 Forceps-fine, straight, stainless 1-KCP325 forceps, feather weight 1-KCP Thermometer, Bimetal with probe 1-KCP329 Molded paint Brush 1-KCP327 spoonula(stainless steel) 5-KCP330 Plastic spoons 1-KCP138Disposable scalpel 5-ENTMAG5 plastic maggot container, 24 oz. 1-KCP328 Aluminum Foil, 75” 1-ENYKAA, 8,0z 1-KCP152 Blue Poly Cases 1-KCP134 Mechanical Pencil 1-KCP183 sharpie pen 1-ENT1000C Plastic Tool Box with custom foam 1-PPS4036” Photographic Scale(metric and English), Black, 10 1-PPS4006” Photographic Scale(Metric and English), white 10				
	Carried to Forensic Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Forensic Laboratory Equipment cont.				
17	**Tape measure (100M) as C.K tapes** Glass fiber reinforced-strong and stretch resistant Tough ABS case Fold out winding handle for rapid tape rewind and storage Fold out anchor hook integral ground spike 73/362/EEC Class III accuracy.	5	No.		
18	**Biohazard autoclaveable** At least 2.0 ml thick Puncture, tear and leak resistant Material: Polypropylene Clearly labelled with biohazard symbol and user guidelines. Size:22.5x30.5x26cm H	10	No.		
19	**Compass** Graduation:360 Resolution:2 Measuring Scales: 1:25k. 1:40k, 1:50k,mm.in Accuracy: 1 degree IP class: IP x8 DuabttyMrop test: withstands 1m drop into wooden floor Temperature range:-200C-+600C Dimensions:85x54x11 Material: Acrylic/PC/TPU/Acetal Mirror sighting and sighting hole Built in magnifier for detailed mapping Luminous markings: for night navigation Built in clinometer: for vertical angle/slope measurements Silicon rubber feet: to increase precision in map work.	10	No.		
	Carried to Forensic Laboratory Equipment Collections				

PL8 OF 12

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Forensic Laboratory Equipment cont.				
20	**Blood stain pattern kit** High impact copolymer carrying case with handle:45.5x33x22.6cm Weight: 4kg 1-plumb bob, chrome plated, 8 oz. 1-KCP114Retractable steel tape measure-3pk 1-SK800 15 meter Tape measure 1-PPS400 photographic rulers, blkw/wth 1-PPS201 Photographic numbers, 0-4scale/10 1-PPS202 Photograph#'s 0-2cm scale/10 1-PPS800 Forensic scale(metric)105mmx105mm 1-PPS403 Photographic rulers, blkw/wth 2-601E Evidence ruler tape 1-EPS30B photo evidence ruler 10,ea 1-EPs30W photo evidence ruler 10, ea. 1-EPS20B photo evidence ruler, 100, ea. 1-EPS20W photo evidence ruler, 100, ea. 1-PPS500 photo evidence scales, black on white, 50 ea. 1-PPS502 Adhesive photo evidence scales, black on white, 50 ea. 1-PPS 700 Big numerical reference scale,12",5ea 2-PPS801 Forensic scale(English), 4x4	1	No.		
21	**Tarps Water proof canvas** Material: Canvas/Polypropylene/Vinyl/Neoprene Measurements:25 ft x25ft Grommets: Aluminium /Stainless Steel Grommet to grommet distance:460mm Resistivity: water resistant Color: Silver – heavy duty. Approximate thickness:0.011-0.012 in (0.28-0.30mm) Templates (Scene and Human); Assorted	1	No.		
22	**Thermometer (Digital)** Measuring range:32.0-440C(89.6-111.20F) Display: LCD Automatic power off.	10	No.		
	Carried to Forensic Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Forensic Laboratory Equipment cont.				
23	**Beakers as Pyrex in;**				
	25ml	1	No.		
	50ml	1	No.		
	100ml	1	No.		
	250ml	1	No.		
	500ml	1	No.		
	1000ml	1	No.		
24	**Conical flasks as Pyrex in;**				
	25ml	1	No.		
	50ml	1	No.		
	100ml	1	No.		
	250ml	1	No.		
	500ml	1	No.		
	1000ml	1	No.		
25	**Volumetric flask as Pyrex in;**				
	50ml	1	No.		
	100ml	1	No.		
	250ml	1	No.		
	500ml	1	No.		
	1000ml	1	No.		
26	**Pipettes**; plastic(10ml)	1	No.		
27	**Burettes**; Borosilicate glass	10	No.		
28	**Measuring cylinder as Pyrex in;**				
	10ml	1	No.		
	50ml	1	No.		
	100ml	1	No.		
	250ml	1	No.		
	500ml	1	No.		
	1000ml	1	No.		
29	**Micro pipette as of Thermo Scientific Finn pipette in;**				
	25um	5	No.		
	50um	5	No.		
	100um	10	No.		
	1000um	10	No.		
	Carried to Forensic Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Forensic Laboratory Equipment cont.				
30	Test tubes; Pyrex glass	1	No.		
31	Boiling tubes as Pyrex	1	No.		
	Petridishes as Fisher scientific				
32	Plastic	1	No.		
33	Glass	1	No.		
34	**Test tube racks**; wooden	1	No.		
35	Slides Quartz coated	20	No.		
36	White tile; Porcelain	2	No.		
37	Nichrome wire; A nickel-chromium-iron alloy	10	No.		
38	Coplin jars; Polypropilene	1	No.		
39	Cover glass; Square Borosilicate				
40	**Wash bottles Plastic**	20	No.		
	Polypropylene Screw closure with angled stem Material: LDPE material-flexible/elastic Carrying capacity: 500ml Color Translucent Height:187mm Shape: Round Closure material: Polypropylene Temperature range:-50 -80oC Diameter(Metric) outer: 69mm Mouth: Narrow Closure type: Cap				
41	**Reagent bottles as Pyrex Brown**				
	100ml	5	No.		
	250ml	5	No.		
	500ml	10	No.		
	Carried to Forensic Laboratory Equipment Collections				

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	Schedule 8: Forensic Laboratory Equipment Collections From page PL1 From page PL2 From page PL3 From page PL4 From page PL5 From page PL6 From page PL7 From page PL8 From page PL9 From page PL10 From page PL11				
	Carried to Laboratory Equipment Collections Summary				

PL12 OF 12

ITEM	DESCRIPTION	AMOUNT KSHS
	PROVISIONAL SUMS	
1	Provisional sum for Electrical Works	2,0000,000
2	Contingency sum of Kshs. 2,000,000 (Two Million)	2,000,000
	Total Carried to Bill of Quantities Summary	4,000,000

C1

ITEM	DESCRIPTION	AMOUNT KSHS
	Science Laboratory Equipment Collections Summary	
1	Schedule 1- Preliminary Items- Page P1	
2	Schedule 2– Agriculture Lab Equipment- Page AG7	
3	Schedule 3 – Biological & Nursing Lab Equipment- Page BN35	
4	Schedule 4 – Geography Lab Equipment- Page GE2	
5	Schedule 5 – Science & Technology Lab Equipment- Page ST4	
6	Schedule 6 – Renewable Energy Lab Equipment- Page RE8	
7	Schedule 7 – Chemistry Lab Equipment- Page CL9	
8	Schedule 8 – Forensic Lab Equipment- Page PL12	
	Total Carried to Bill of Quantities Summary	

BOQ1

ITEM	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT KSHS
	BILLS OF QUANTITIES SUMMARY				
	Science Laboratory Equipment Collection Summary				
	Provisional Sums				4,000,000
	Total Carried to Form of Tender				
	Signed:				
	Address:				
	.....				
	Date:				
	Witness:				
	Name:				
	Address:				
	.....				
	Date:				

BOQ2

SECTION VI - TECHNICAL SPECIFICATIONS

6.1 GENERAL

6.1.1. These specifications describe the basic requirements for equipment. Tenderers are requested to submit with their offers the detailed specifications, drawings, catalogues, etc for the products they intend to supply.

6.1.2 Tenderers must indicate on the specifications sheets whether the equipment offered comply with each specific requirement.

6.1.3 All the dimensions and capacities of the equipment to be supplied shall not be less than those required in these specifications. Deviations from the basic requirements, if any, shall be explained in detail in writing with the offer, with supporting data such as calculation sheets, etc. The procuring entity reserves the right to reject the products, if such deviations shall be found critical to the use and operation of the products

6.1.4 The tenderers are requested to present information along with their offers as follows;-

(i) Shortest possible delivery period of each product

(ii) Information on proper representative and/or workshop for back-up service/repair and maintenance including their names and addresses

SECTION VI – TECHNICAL SPECIFICATIONS

6.2 **PARTICULARS**

[*Text of Technical Specifications to be inserted in the tender documents by the Procuring entity, as applicable]*

SECTION VII – STANDARD FORM

FORM OF TENDER

To: The Vice Chancellor,

Kibabii University,

P.O. Box 1699-50200

Bungoma.

Dear Sir,

Supply, Install, Test and Commission Science Laboratory Equipment at Kibabii University.

In accordance with the Instructions to Tenderers, Conditions of Contract, Specifications 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]*

We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Employer's notice to commence, and to complete the whole of the Works comprised in the Contract within a period of Fifty Two (52) Weeks.

We agree to abide by this tender for a period of 120 days from the date of tender opening and shall remain binding upon us and may be accepted at any time before that date.

Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall not constitute a binding Contract between us.

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

Dated this …….. day of ……20…..

Signature ……. Name; ……

in the capacity of …….

duly authorized to sign tenders for and on behalf of:

……..……..*[Name of Tenderer*]

of…….……..[*Address of Tenderer]*

PIN No. ……..

VAT CERTIFICATE No. ……

Witness: Name …….

Address …….

Signature ……

CONTRACT FORM

THIS AGREEMENT made the _____ day of _____ 20 _____ between …… [*name of Procurement entity)* of …….. [*country of Procurement entity]* (hereinafter called "the Procuring entity) of the one part and …….. [*name of tenderer]* of …….. [*city and country of tenderer]* (hereinafter called "the tenderer") of the other part;

WHEREAS the Procuring entity invited tenders for [certain goods] and has accepted a tender by the tenderer for the supply of those goods in the sum of …… [*contract price in words and figures]* (hereinafter called "the Contract Price).

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 referred to:

2. The following documents shall be deemed to form and be read and construed as part of this Agreement viz:

(a) The filled Tender Form and the Priced Schedule submitted by the tenderer
(b) The Schedule of Requirements
(c) The Technical Specifications
(d) The General Conditions of Contract and Appendix to GCC
(e) The Special Conditions of contract; and Appendix to SCC
(f) The Procuring entity's Notification of Award

3. In consideration of the payments to be made by the Procuring entity to the tenderer as hereinafter mentioned, the tenderer hereby covenants with the Procuring entity to provide the goods and to remedy the defects therein in conformity in all respects with the provisions of this Contract

4. The Procuring entity hereby covenants to pay the tenderer in consideration of the provisions of the goods 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 herein 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 the Tenderer…….

In the presence of

(i) Name …….

Address……

Signature……

(ii) Name……

Address……..

Signature…….

FORM OF TENDER SECURITY

Whereas ……..[*name of the tenderer]* (hereinafter called "the tenderer") has submitted its tender dated ……. [*date of submission of tender]* **To Supply, Install, Test and Commission Science Laboratory Equipment at Kibabii University.** (hereinafter called "the Tender") …….. KNOW ALL PEOPLE by these presents that WE …… …… of ……. having our registered office at …… (hereinafter called "the Bank"), are bound unto …….. [*name of Procuring entity}* (hereinafter called "the Procuring entity") in the sum of …….. for which payment well and truly to be made to the said Procuring entity, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20 _____.

THE CONDITIONS of this obligation are:-

1. If the tenderer withdraws its Tender during the period of tender validity specified by the tenderer on the Tender Form; or

2. If the tenderer, having been notified of the acceptance of its Tender by the Procuring entity during the period of tender validity:
   (a) fails or refuses to execute the Contract Form, 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 Procuring entity up to the above amount upon receipt of its first written demand, without the Procuring entity having to substantiate its demand, provided that in its demand the Procuring entity will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This tender 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 above date.

……..	……
(Date)	*(Signature of the Bank)*
……	……..
(Witness)	*(Seal)*

PERFORMANCE BANK GUARANTEE

To: The Vice Chancellor,
Kibabii University,
P.O. Box 1699-50200,
Bungoma.

WHEREAS …… [*name of tenderer*] (hereinafter called "the tenderer") has undertaken , in pursuance of Contract No. _____ [*reference number of the contract]* dated _____ 20 _____ to **Supply, Install, Test and Commission Science Laboratory Equipment at Kibabii University.** (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the tenderer shall furnish you with a bank guarantee by a reputable bank for the sum specified therein as security for compliance with the Tenderer's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the tenderer a guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the tenderer, up to a total of ……. [*amount of the guarantee in words and figure]* and we undertake to pay you, upon your first written demand declaring the tenderer to be in default under the Contract and without cavil or argument, any sum or sums within the limits of …….. [*amount of guarantee]* as aforesaid, without you needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of _____ 20 _____

Signed and seal of the Guarantors

SIGNATURE AND SEAL OF THE GUARANTOR …….

Name of Bank …….

Address ……

Date ……

MANUFACTURER'S AUTHORIZATION FORM

To: [*name of the Procuring entity]* ……

WHEREAS ……[*name of the manufacturer]* who are established and reputable manufacturers of …….. [*name and/or description of the goods]* having factories at …… [*address of factory]* do hereby authorize …… [*name and address of Agent]* to submit a tender, and subsequently negotiate and sign the Contract with you against tender No. ……. [*reference of the Tender]* for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Tenders.

_____

[*signature for and on behalf of manufacturer]*

Note: This letter of authority should be on the letterhead of the Manufacturer and should be signed by an authorized person.

GENERAL INFORMATION

1. Individual Tenderers or Individual Members of Joint Ventures

1.1 LEGAL STATUS OF TENDERER

Constitution or legal status of tenderer (attach copy of Incorporation Certificate or registration of business);

Place of registration: _____

Principal place of business _____

Power of attorney of signatory of tender _____

1.2 TOTAL ANNUAL VOLUME OF SUPPLY WORKS PERFORMED IN THE LAST FIVE YEARS

YEAR	**VOLUME**	
	Currency	Value
2019		
2018		
2017		
2016		
2015		

1.3 CONTRACTS COMPLETED IN THE LAST FIVE (5) YEARS

Work performed on works of a similar nature (Supply of Science and or industrial Laboratory Equipment), complexity and volume over the last 5 years. (Copies of Completion Certificates, acceptance report from reputable Clients, serviced local service orders, serviced local purchase orders and contacts of Project Manager of each works listed **MUST** be attached)

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

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

……. ……. …….

Title Signature Date

1.4 SCHEDULE OF ON-GOING PROJECTS

Details of on-going or committed projects of similar nature (Supply of Science and or industrial Laboratory Equipment) including expected completion date.(Copies of Notification of Award and or Contract Agreements and or Local Purchase Order and or Local Service order. Name and contact of the Project Manager for each of the project **MUST** be attached)

PROJECT NAME	NAME OF CLIENT AND PROJECT MANAGER	CONTRACT SUM (KSHS)	% COMPLETION	START AND COMPLETION DATE OF PROJECT

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

……. …….…… …….

Title Signature Date

1.5 SCHEDULE OF MAJOR MANUFACTURER LICENSES OR AUTHORIZATION TO ENABLE EXECUTION OF THE CONTRACT

SERIAL NO.	LICENSE AND OR AUTHORIZATION AND NAME OF MANUFACTURER OR DEVELOPER

I certify that the above information is correct.

…….. ……... ……. ……... ……

Title Signature Date

1.6 KEY PERSONNEL

Qualifications and experience of key personnel Proposed for administration and execution of the Contract. (Attach CV, copies of letter of engagement to the tenderer and copies of Academic and Professional certificates)
(Note: The persons herein indicated shall be subject to approval by the Project Manager to administer the project.)

POSITION	NAME	HIGHEST ACADEMIC AND PROFESSIONAL QUALIFICATION	YEARS OF EXPERIENCE (GENERAL)	YEARS OF EXPERIENCE IN PROPOSED POSITION

I certify that the above information is correct.

…….. ……... ……. ……... ……
Title Signature Date

1.7 FINANCIAL REPORTS FOR THE LAST THREE YEARS (2017, 2018 and 2019)
(Balance sheets, Profits and Loss Statements, Auditor's reports, etc. List below and attach copies)

1. ._____

2. ._____

3. ._____

4. ._____

5. ._____

6. ._____

7. ._____

8. ._____

9. ._____

10 ._____

1.8 EVIDENCE OF ACCESS TO FINANCIAL RESOURCES TO MEET QUALIFICATION REQUIREMENTS.

(Cash in Hand, Lines of credit, etc. List below and attach copies of supportive documents.)

1. ._____

2. ._____

3. ._____

4. ._____

5. ._____

6. ._____

7. ._____

1.9 NAME, ADDRESS AND TELEPHONE, EMAILS OF BANKS

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

NAME	ADDRESS	TELEPHONE	EMAIL

1.10 STATEMENT OF COMPLIANCE

a) I confirm compliance of all clauses of the General Conditions, General Specifications and Particular Specifications in this tender.

b) I confirm I have not made and will not make any payment to any person, which can be perceived as an inducement to win this tender.

Signed: …….*for and on behalf of the Tenderer*

Date: …….

Official Rubber Stamp: ……

1.11 PROPOSED PROGRAM (WORK METHOD AND SCHEDULE) FOR THE WHOLE OF THE WORKS.

1.12 JOINT VENTURES

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

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

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

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.

1.13 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*)

1.14 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: Kshs……..

Name of your bankers……

Branch……

Part 2 (a) – Sole Proprietor

Your name in full…… Age……

Nationality…… Country of Origin……

*Citizenship details ……

Part 2 (b) – Partnership

Give details of partners as follows:

	Name in full	*Nationality*	*Citizenship Details*	*Shares*
1				
2				
3				

Part 2(c) – 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

1.15 DETAILS OF SUB-CONTRACTORS (SUB- SUPPLIERS)

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: ……
Full name of Sub-contractor and address of head office:
…….

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

(2) Portion of Works to sublet: ……..
Full name of sub-contractor and address of head office:
……..

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

FORM RB 1

REPUBLIC OF KENYA

PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

APPLICATION NO…….OF…….….20……...

BETWEEN

…….APPLICANT

AND

……RESPONDENT *(Procuring Entity*)

Request for review of the decision of the…… (*Name of the Procuring Entity)* of ……dated the…day of …….20…….in the matter of Tender No……..…of ……..20…

REQUEST FOR REVIEW

I/We……,the above named Applicant(s), of address: Physical address…….Fax No……Tel. No……..Email ……, hereby request the Public Procurement Administrative Review Board to review the whole/part of the above mentioned decision on the following grounds , namely:-

1.

2.

etc.

By this memorandum, the Applicant requests the Board for an order/orders that: -

1.

2.

etc

SIGNED …….(Applicant)

Dated on…….day of ……/…20…

FOR OFFICIAL USE ONLY

Lodged with the Secretary Public Procurement Administrative Review Board on …… day of ……....20….……

SIGNED

Board Secretary

SECTION VIII: TENDER EVALUATION CRITERIA

After tender opening, the tenders will be evaluated in 3 stages, namely:

1. Preliminary Evaluation
2. Technical Evaluation
3. Financial Evaluation.

1. PRELIMINARY EVALUATION

This stage of evaluation shall involve examination of the pre-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 shall be the following:

1) Certificate of incorporation of company or registration of Business in the Republic of Kenya.

2) Single Business Permit with relevant County Government where the tenderers head office resides.

3) Current Valid Tax Compliance Certificate issued by Kenya Revenue Authority.

4) Provision of Valid bid security.

5) Dully filled Form of Tender.

The Employer may seek further clarification/confirmation if necessary to confirm authenticity/compliance of the information given as requested above.

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

2. TECHNICAL EVALUATION

The tender document shall be evaluated based on the Instruction to Tenderers which states as follows:

In accordance with Instruction to Tenderers, the tenderers will be required to provide evidence for eligibility of the award of the tender by satisfying the employer of their eligibility and adequacy of resources to effectively carry out the subject contract. The tenderers shall be required to fill the Standards Forms provided for the purposes of providing the required information. The tenderers may also attach the required information if they so desire.

The award of points in this section shall be as shown below;

PARAMETER	MAXIMUM POINTS
1) Statement of Compliance ----------	1
2) Tender Questionnaire - ----------	2
3) Confidential Business Questionnaire ----------	3
4) Name, address and telephone of Contractors banks----------	2
5) Litigation History ----------	4
6) Key personnel - ----------	8
7) Contract Completed in the last Five (5) years - ----------	18
8) Schedules of on-going projects ----------	12
9) Schedules of license and authorization for equipment and software --------	18
10) Audited Financial Report for the last 3 years---------- ---------	10
11) Evidence of Financial Resources ----------	14
12) Sanctity of the tender document ----------	3
13) Arrangement of attached documents in prescribed order----------	5
TOTAL	**100**

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

Item	Description	Point Scored	Max. Point	
i	**Statement of Compliance** Signed and stamped ---------- 1 Partially filled or not filled---------- 0		**1**	
ii	**Tender Questionnaire Form** Completely filled ---------- 2 Partially filled or not filled ---------- 0		**2**	
iii	**Confidential Business Questionnaire Form**. Completely filled ---------- 3 Partially filled or not filled---------- 0		**3**	
iv	**Name, address and telephone of Contractors banks** o Provided----------2 o Not provided---------- 0		**2**	
v	**Litigation History (must be signed and stamped by commissioner of oaths)** o Full disclosure ----------4 o Not fully disclosure---------- 0		**4**	
vi	**Key Personnel to be engaged on the project (Attach CV, copies of Academic and Professional certificates and appointment letters)**			**8**
	At least 1No. Director of the firm who is; o Holder of degree in relevant computer Science studies ----- 3 o Ditto with Diploma---------- 2 o Ditto with certificate---------- 1 o No relevant qualification ---------- 0		**3**	
	At least 1 No. staff with degree in related computer Science related studies; o With over 10 years relevant experience ----------3 o With over 5 years relevant experience ---------- 2 o With under 5 years relevant experience ----------1		**3**	
	At least 2 No. key personnel with Diploma in relevant science o With over 10 years relevant experience----------2 o With over 5 years relevant experience ----------1 o With under 5 years relevant experience ----------0		**2**	

Item	Description	Point Scored	Max. Point
vii	**At least 3No. Contracts completed in the last five (5) years (2016-2020). Valid Completion Certificates/documents for each project MUST be attached for the project to be considered Valid under this criteria.** Projects of supply and installation of computer and or related ICT equipment in Kenya. o Worth more than Kshs.100 Million---------- 6 o Worth between Kshs.100 Million and Kshs. 50 Million--------- 5 o Worth between Kshs.50 Million and Kshs. 20 Million --------- 4 o Worth between Kshs.20 Million and Kshs. 10 Million --------- 3 o Worth between Kshs.10 Million and Kshs. 5 Million ---------- 2 o Worth below Kshs. 5 Million---------- 1		**18**
viii	**At least 2 No. On-going projects. Notification of award or Contract Agreement of each project MUST be attached for the project to Valid under this criteria.** Projects of supply and installation of computer and or related ICT equipment in Kenya. o Worth more than Kshs.100 Million---------- 6 o Worth between Kshs.100 Million and Kshs. 50 Million--------- 5 o Worth between Kshs.50 Million and Kshs. 20 Million --------- 4 o Worth between Kshs.20 Million and Kshs. 10 Million --------- 3 o Worth between Kshs.10 Million and Kshs. 5 Million ---------- 2 o Worth below Kshs. 5 Million---------- 1		**12**
ix	**Evidence of licenses from software developers and licenses or authorization from manufacturers of equipment. (copies of license, authorization and or collaboration agreements from software licensees and authorized dealers MUST be provided)** Signed and sealed Licenses or authorization from software developers provided for each software or collaboration agreement with licensees and or authorized dealers (all the software)---------- 12 Licenses or authorization from equipment manufacturer provided for each brand of the equipment or collaboration with licensees and or authorized dealers (at least six major brands)---------- 6		**18**
x	**Annual audited financial reports indicating annual turnover for the years 2017, 2018 & 2019 (copies of audited reports MUST be attached)** At least one of the annual turnover; Greater than 200 Million ---------- 10 Less than Kshs. 200 Million but greater than Kshs. 100 Million ----- 7 Less than Kshs. 100 Million but greater than Kshs. 50 Million -------4 Less than 50 Million ---------- 2		**10**

Item	Description	Point Scored	Max. Point
xi	**Evidence of financial resources (evidence of cash in hand, lines of credit, overdraft facility MUST be provided)** Cash in hand shall mean cash available for use in the contract. Evidence of cash in account shall be required. (Cash must have been maintained in the account for a period of not less than 1 month before the date of tender opening to be valid under this criteria). Cash in hand of over 30 Million ---------- 10 Cash in hand of less than 30Million but more than 15 Million---------- 8 Cash in hand of less than 15Million but more than 5Million---------- 6 Cash in hand of less than 5Million but more than 2Million---------- 4 Cash in hand of less than 2 Million---------- 2 Valid credit lines- letter by the tenderer's bank or reputable suppliers to support him for a sum of cash for purposes of executing the contract. Evidence of letter dully signed and sealed by the bank or supplier. Credit lines of more than 10 Million----------4 Credit lines of less than 10 Million but more than 5 Million----------3 Credit lines of less than 5 Million but more than 2 Million---------- 2 Credit lines of less than 2 Million ----------1		**14**
xii	**Sanctity of tender documents** Having the document intact (not tampered with in any way and all pages serialized ----------3 Having mutilated or modified the tender document or not serialized some or all pages in tender document---------- 0		**3**
xiii	**Arrangement of attached documents in prescribed order** Arrangement as per required order---------- 5 Arrangement not as per required order---------- 0		**5**
	TOTAL TECHNICAL SCORE		**100**

Any bidder who scores 65 points and above shall be considered for financial evaluation.

Any bidder scoring 64 points or less shall be disqualified at this point and SHALL NOT procced for further evaluation.

1. **FINANCIAL EVALUATION**

The evaluation shall be in two sections
1. Arithmetic evaluation.
2. Tender sum comparisons

1. **Preliminary examinations.**

The preliminary examination in the Financial Evaluation shall be in accordance with the Instruction to Tenderers.
The parameter to be considered under this section shall be 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 **Instructions to Tenderers**.

Noncompliance with the above shall lead to **automatic disqualification from further evaluation.**
Discount if any shall be treated as an error in pursuant to Instructions to tenderers.

1. **Tender Sum Comparisons.**

Item	Description
1	The tender sums shall be ranked from the lowest tender sum to the highest tender sum where the bidders with the lowest being ranked No.1

CONCLUSION

The tenderers shall be ranked from No.1 being the tenderer with the lowest tender sum.

RECOMMENDATION.

The evaluation committee shall carry out due diligence to establish authenticity of documents submitted for the tenderer ranked No.1. If the evaluation committee establishes that the information given was authentic then shall recommend the bidder for award of tender. But if some information provided by the said bidder cannot be authenticated then the evaluation committee shall disqualify the bidder and proceed to carry out due diligence for the second lowest ranked bidder to authenticate the information submitted in his tender documents. If the evaluation committee finds that the

information given in document are authentic then shall recommend the tenderer for award of tender, but if the information cannot be authenticated then the evaluation committee shall recommend the tender to be re-advertised.

PRESCRIBED ORDER OF ARRANGEMENT OF ATTACHED DOCUMENTS

1) Copy of Certificate of incorporation of company or registration of Business.
2) Copy of Single Business Permit.
3) Copy of Tax Compliance Certificate.
4) Bid security.
5) Form of tender.
6) Statement of compliance
7) Tender questionnaire
8) Business questionnaire.
9) Litigation history.
10) Key personnel documents.
11) Completed contract documents.
12) Ongoing project contract documents.
13) Schedule of license and authorization from software developers/ manufacturers or and collaboration with authorized licensees and or dealers.
14) Copies of Audited accounts.
15) Cash in hand documents.