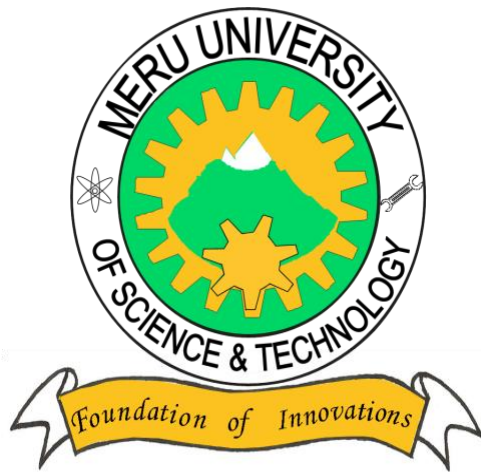




MERU UNIVERSITY OF SCIENCE & TECHNOLOGY

**TENDER NO: MUST/012/2017-2018 FOR SUPPLY, DELIVERY
INSTALLATION AND COMMISSIONING OF TEACHING MATERIALS**

**NB// Tender award will be based on lowest evaluated bidder for bidders
who will have quoted for all items per Departmental list of items.**

MARCH 2018

Issued by Meru University of Science and Technology 2018

TABLE OF CONTENTS

SECTION I	INVITATION TO TENDER.....	3
SECTION II	INSTRUCTIONS TO TENDERERS.....	5
	Appendix to Instructions to Tenderers	21
SECTION III	GENERAL CONDITIONS OF CONTRACT.....	23
SECTION IV	SPECIAL CONDITIONS OF CONTRACT.....	30
SECTION V	TECHNICAL SPECIFICATIONS.....	32
SECTION VI	SCHEDULE OF REQUIREMENTS.....	34
SECTION VII	PRICE SCHEDULE FOR GOODS.....	35
SECTION VIII	STANDARD FORMS.....	36
8.1	FORM OF TENDER.....	37
8.2	CONFIDENTIAL BUSINESS QUESTIONNAIRES FORMS.....	38
8.3	TENDER SECURITY FORM.....	39
8.4	CONTRACT FORM.....	40
8.5	PERFORMANCE SECURITY FORM.....	41
8.6	BANK GUARANTTE FOR ADVANCE PAYMENT FORM.....	42
8.7	MANUFACTURER’S AUTHORIZATION FORM.....	43

1.0 INVITATION TO TENDER

TENDER REF No: **MUST/012/2017-2018**

TENDER NAME: FOR SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF TEACHING MATERIALS

Meru University of Science and Technology invites sealed bids from eligible bidders for supply and delivery, installation and commissioning of teaching materials

Interested eligible bidders may obtain further information and inspect the tender documents from the Procurement Office, Meru University of Science and Technology main campus – along Meru - Maua Rd, during the office working hours; Monday through Friday, upon payment of a non-refundable fee of Kshs. 1,000 per set of document in cash or in banker's cheque payable to Meru University of Science and Technology. The bid document may also be downloaded from the university website (www.must.ac.ke) free of charge or Kenya Government tenders portal: <http://www.supplier.treasury.go.ke>.

Qualifications requirements include: Experience and technical capacity – evidence of minimum three successfully completed contracts of similar nature within the last three (3) years. Provide audited accounts for the last three years. Provide copies of a valid Tax compliance certificate and Certificate of Reg. /Incorporation. Additional details are provided in the Bidding Documents. The bid security must be 2% of the tender sum in the form of a Bank Guarantee from a reputable bank or in banker's cheque. Prices quoted should be net inclusive of all taxes and delivery must be in Kenya Shillings and shall remain valid for 120 days from the closing date of the tender.

Completed bid documents must be received by MUST at the address below not later than **Tuesday 3rd April 2018 at 10.30** am in plain sealed envelopes clearly marked as follows:

"Tender No. MUST/012/2017-2018– FOR SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF TEACHING MATERIALS". Do not open before **Tuesday 3rd April 2018 at 10.30** should be addressed to:

Ag. Vice Chancellor,
Meru University of Science and Technology
P.O. BOX 972 – 60200 Meru- Kenya
Tel: +254 712 524293
www.must.ac.ke

The tender documents should be placed in the tender box situated in the administration block 2 at reception area of MUST main campus at Nchiru along Meru – Maua Rd so as to be received on or before **Tuesday 3rd April 2018 at 10.30 local time**. Tenders submitted later than the indicated closing date and time shall automatically be disqualified.

Tender opening will take place immediately on the same date in the Academic Boardroom.
Tenderers or their representatives who wish to attend are invited to witness the opening.

SECTION II - INSTRUCTIONS TO TENDERERS

Table of Clauses

Page

2.1 Eligible tenderers.....	5
2.2 Eligible goods.....	5
2.3 Cost of tendering.....	5
2.4 Contents of Tender document.....	7
2.5 Clarification of documents.....	7
2.6 Amendment of documents.....	8
2.7 Language of tender.....	8
2.8 Documents comprising the tender.....	8
2.9 Tender forms.....	9
2.10 Tender prices.....	9
2.11 Tender currencies.....	9
2.12 Tenderers eligibility and qualifications.....	9
2.13 Tenders' eligibility and conformity to tender documents.....	10
2.14 Tender security.....	11
2.15 Validity of tenders.....	12
2.16 Format and signing of tenders.....	13
2.17 Sealing and marking of tenders.....	13
2.18 Deadline for submission of tender	14
2.19 Modification and withdrawal of tenders.....	14
2.20 Opening of tenders.....	15
2.21 Clarification of tenders.....	15
2.22 Preliminary examination.....	15
2.23 Conversion to single currency.....	16
2.24 Evaluation and comparison of tenders.....	16
2.25 Contacting the procuring entity.....	17
2.26 Award of contract.....	17
(a) Post qualification.....	17
(b) Award criteria.....	17
(c) Procuring entity's right to vary quantities.....	18
(d) Procuring entity's right to accept or reject any or all tenders	18
2.27 Notification of award.....	18
2.28 Signing of contract.....	18
2.29 Performance security.....	19
2.30 Corrupt or fraudulent practices.....	19

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 Invitation to Tender. Successful tenderers shall complete the supply of and delivery, installation and commissioning of Animal Health, production anatomy and physiology laboratory benches and accessories by the intended completion date specified in the Schedule of Requirements Section VI.

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.

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 shall not be under a declaration of ineligibility for corrupt and fraudulent practices.

2.2 Eligible materials, goods and parts

2.2.1 All goods, materials and parts to be supplied 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 products were produced. Products 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.

2.3 Cost of Tendering

2.3.1 The Tenderer shall bear all costs associated with the preparation and submission of its tender, and the MUST, 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 be Kshs.1,000.00 in cash (freely convertible currency) or in bankers cheque – Meru University of Science and Technology.

2.3.3 All firms found capable of performing the contract satisfactorily in accordance with the set qualification criteria shall be evaluated and offered the award if they are successful.

2.4. The 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

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 Documents

2.5.1 A prospective tenderer requiring any clarification of the tender document may notify **MUST** in writing or by post at the address indicated in the Invitation to Tender. **MUST** 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. Written copies of **MUST** 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 **MUST** shall reply to any clarifications sought by the tenderer within 2 days of receiving the request to enable the tenderer to make timely submission of its tender.

2.6 Amendment of Documents

2.6.1 At any time prior to the deadline for submission of tenders, **MUST**, 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 amendment.

2.6.2 All prospective candidates that have received 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, **MUST**, 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 **MUST**, 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 of 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 2.1 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 2.2 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

2.9 Tender Forms

- 2.9.1 The tenderer shall complete the Tender Form and the appropriate Price Schedule furnished in the tender documents, indicating the items to be supplied, a brief description of the goods, 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 and total tender price of the goods it proposes to supply under the contract
- 2.10.2 Prices indicated on the Price Schedule shall include all costs including taxes, insurances and delivery to the premises of **MUST**.
- 2.10.3 Prices quoted by the tenderer shall be fixed during the Tender's performance of the contract and not subject to variation on any account. A tender submitted with an adjustable price quotation will be treated as non-responsive and will be rejected, pursuant to paragraph 2.22
- 2.10.4 The validity period of the tender shall be 60 days from the date of opening of the tender.

2.11 Tender Currencies

- 2.11.1 Prices shall be quoted in Kenya Shillings unless otherwise specified in the Appendix to Instructions to Tenderers.

2.12 Tenderers Eligibility and Qualifications

- 2.12.1 Pursuant to paragraph 2.1. The tenderer 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.
- 2.12.2 The documentary evidence of the tenderers eligibility to tender shall establish to the MUST'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
- 2.12.3 The documentary evidence of the tenderers qualifications to perform the contract if its tender is accepted shall be established to **MUST** satisfaction;

- (a) that, in the case of a tenderer offering to supply the products under the contract which the tenderer did not manufacture or otherwise produce, the tenderer has been duly authorized by the products' Manufacturer or producer to supply the goods.
- (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.

2.12 Goods materials and parts Eligibility and Conformity to Tender Documents

2.13.1 Pursuant to 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 goods, materials and parts which the tenderer proposes to supply under the contract.

2.13.2 The documentary evidence of the eligibility of the goods, materials and parts shall consist of a 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 goods, materials and parts 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 goods, materials and parts;
- (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 goods, materials and parts for a period of five (5) years, following commencement of the use of the goods, materials and parts MUST; and
- (c) a clause-by-clause commentary on the MUST's Technical Specifications demonstrating substantial responsiveness of the goods, materials and parts proposed for supply to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.

2.14 Tender Security

2.14.1 The tenderer shall furnish, as part of its tender, a tender security as specified in the Appendix to Invitation to Tenderers.

2.14.2 The tender security shall be in the amount of 2 per cent of the tender price.

2.14.3 The tender security is required to protect the MUST 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 bank guarantee or a bank draft issued by a reputable bank located in Kenya or abroad, or a guarantee issued by a reputable insurance company in the form provided in the tender documents or another form acceptable to the Procuring entity and valid for thirty (30) days beyond the validity of the tender.
- 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 MUST 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
 - or
 - (ii) to furnish performance security in accordance with paragraph 2.28

2.15 Validity of Tenders

- 2.15.1 Tenders shall remain valid for 120 days or as specified in the Invitation to tender after the date of tender opening prescribed by MUST, pursuant to paragraph 2.18. A tender valid for a shorter period shall be rejected by the MUST as non-responsive.
- 2.15.2 In exceptional circumstances, MUST 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 Procuring entity 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, paginated and shall be signed by the tenderer or a person or persons duly authorized to bind the tenderer to the contract. The latter authorization shall be indicated by written power-of-attorney accompanying the tender. All pages of the

tender, except for un amended 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 MUST at the address given in the Invitation to Tender:

(b) bear, tender number and name in the Invitation for Tenders and the words, “DO NOT OPEN BEFORE,”

- 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 no later than **Tuesday 3rd April 2018 at 10.30**

- 2.18.2 The MUST 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

2.19 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 MUST 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
- 2.19.5 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 2.19.6 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.

2.20 Opening of Tenders

- 2.20.1 The Procuring entity will open all tenders in the presence of tenderers' representatives who choose to attend, on **Tuesday 3rd April 2018 at 10.30** in the location specified in the Invitation to Tender.

The tenderers' representatives who are present shall sign a 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

- 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 quantify, the unit price shall prevail, and the total price shall not be corrected. If the candidate does not accept the correction of the errors, its tender will be rejected, and its tender security forfeited. If there is a discrepancy between words and figures the amount in words will prevail
- 2.22.3 MUST 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 these currencies to Kenya Shillings using the selling exchange rate on the rate 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 tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.
- 2.24.3 A tenderer who gives false information in the tender document about its qualification or who refuses to enter into a contract after notification of contract award shall be considered for debarment from participating in future public procurement.

2.25 Preference

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

2.26 Contacting the Procuring entity

- 2.26.1 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.

2.26.2 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.

2.27 Award of Contract

(a) Post-qualification

2.27.1 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.

2.27.2 The determination will take into account the tenderer financial, technical, and production capabilities and due diligence. 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.

2.27.3 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

2.27.4 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.

(c) Procuring entity's Right to Vary quantities

2.27.5 The Procuring entity reserves the right at the time of contract award to increase or decrease the quantity of goods originally specified in the Schedule of requirements without any change in unit price or other terms and conditions

(d) Procuring entity's Right to accept or Reject any or All Tenders

2.27.6 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 tenderers or any obligation to inform the affected tenderer or tenderers of the grounds for the Procuring entity's action

2.28 Notification of Award

2.28.1 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.

2.28.2 The notification of award will constitute the formation of the Contract but will have to wait until the contract is finally signed by both parties

2.28.3 Upon the successful Tenderer's furnishing of the performance security pursuant to paragraph 2.28, the Procuring entity will promptly notify each unsuccessful Tenderer and will discharge its tender security, pursuant to paragraph 2.14

2.29 Signing of Contract

2.29.1 At the same time as the Procuring entity notifies the successful tenderer that its tender has been accepted, the Procuring entity will send the tenderer the Contract Form provided in the tender documents, incorporating all agreements between the parties.

2.29.2 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.

2.29.3 Within thirty (30) days of receipt of the Contract Form, the successful tenderer shall sign and date the contract and return it to the Procuring entity.

2.30 Performance Security

2.30.1 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.

2.30.2 Failure of the successful tenderer to comply with the requirements of paragraph 2.27 or paragraph 2.28 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.

2.31 Corrupt or Fraudulent Practices

2.31.1 The Procuring entity requires that tenderers observe the highest standard of ethics during the procurement process and execution of contracts when used in the present regulations, the following terms are defined as follows;

(i) "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and

(ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring entity, and includes collusive practice among tenderer (prior to or after tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the Procuring entity of the benefits of free and open competition;

- 2.31.2 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.
- 2.31.3 Further a tenderer who is found to have indulged in corrupt or fraudulent practices risks being debarred from participating in public procurement in Kenya.

SECTION III: GENERAL CONDITIONS OF CONTRACT

Table of Clauses

	Page
3.1 Definitions.....	24
3.2 Application.....	24
3.3 Country of Origin.....	24
3.4 Standards.....	25
3.5 Use of Contract documents and information.....	25
3.6 Patent Rights.....	25
3.7 Performance security.....	25
3.8 Inspection and Tests.....	26
3.9 Packing.....	27
3.10 Delivery and documents.....	27
3.11 Insurance	27
3.12 Payment.....	27
3.13 Price.....	28
3.14 Assignments.....	28
3.15 Sub contracts.....	28
3.16 Termination for default.....	28
3.17 Liquidated damages.....	29
3.18 Resolution of Disputes.....	29
3.19 Language and law.....	29
3.20 Force Majeure.....	29

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

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.

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 tenderer 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 thirty (30) days of receipt of the notification of Contract award, the successful tenderer shall furnish to the Procuring entity the performance security 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 bank guarantee or an irrevocable letter of credit issued by a reputable bank located in Kenya or abroad, acceptable to the Procuring entity, in the form provided in the tender documents.
- 3.7.4 The performance security will be discharged by the Procuring entity and returned to the Candidate not later 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 goods 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 or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the tenderer or its subcontractor(s), 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 goods 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 goods after the Goods' arrival 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 of the Goods 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 Goods 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 Goods 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 goods delivered and services 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 request shall be processed by the procuring entity within 30 days of receiving the request.

3.14. Assignment

- 3.14.1 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 goods within the period(s) 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 goods.

3.17 Liquidated Damages

- 3.17.1. If the tenderer fails to deliver any or all of the goods 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.

3.18 Resolution of Disputes

- 3.18.1 The procuring entity and the tenderer shall make every effort to resolve amicably by direct informal negotiation and disagreement or dispute arising between them under or in connection with the contract
- 3.18.2 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 adjudication in an agreed national or international forum, and/or international arbitration.

3.19 Language and Law

- 3.19.1 The language of the contract and the law governing the contract shall be English language and the Laws of Kenya respectively unless otherwise stated.

3.20 Force Majeure

- 3.20.1 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.

SECTION IV - SPECIAL CONDITIONS OF CONTRACT

Notes on Special Conditions of Contract

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.

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.

SECTION IV - SPECIAL CONDITIONS OF CONTRACT

- 4.1. 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.

SECTION V - TECHNICAL SPECIFICATIONS

5.1 General

- 5.1.1 These specifications describe the requirements for goods. Tenderers are requested to submit with their offers the detailed specifications, drawings, catalogues, etc for the products they intend to supply
- 5.1.2 Tenderers must indicate on the specifications sheets whether the equipment offered comply with each specified requirement.
- 5.1.3 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.
- 5.1.4 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.

5.2 TECHNICAL SPECIFICATIONS AND PRICE SHLEDULE

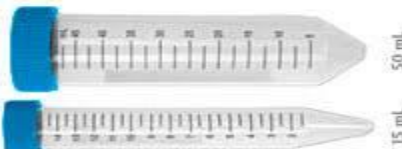
SEMESTER TEACHING REQUIREMENTS

DEPARTMENT OF BIOLOGICAL SCIENCES						
S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
Chemicals and Reagents						
1.	Tris base	AR	250g	1		
2.	Selenium dioxide	AR	200gm	1		
3.	Bromocresol green	AR	25gm	1		
4.	Perchloric Acid	AR	1L	1		
5.	1,2,4, Aminonaphthol	AR	100gm	1		
6.	Methyl green	AR	25gm	1		
7.	pyromine Y Stain	AR	25gm	1		
8.	cycloheximide	AR	500ml	1		
S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
9.	Carmine	AR	500ml	1		
10.	2,3,5-Triphenyltetrazolium	AR	100gm	1		
11.	α -Amylase	AR, 1,4- α -D-glucanohydrase	1000units	1		
12.	Fructose	AR	500gm	1		
13.	Pectinase	AR	50gm	1		
14.	phosphatase	AR, activity 3.0-10.0 units/mg solid	50 units	1		
15.	Dissecting Pins	2 inches, stainless steel, with plastic ball head	pkts	5		
16.	Glutaraldehyde	AR	100ml	1		

17.	Analine blue	AR	50gm	1		
18.	Copper Sulphate mono hydrate	AR	500gm	1		
19.	Potassium hydrogen Sulfate	AR	200gm	1		
20.	Renin	AR	10gm	1		
21.	Sulfosalicylic acid	AR	100gm	1		
22.	Sodium taurocholate	AR	25gm	1		
23.	Acetone	AR	2.5l	2		
24.	Petroleum Ether	AR	2.5L	2		
25.	Ethindium bromide	AR, 10mg/ml	10ml	1		
26.	Field stain	AR	L	1		
27.	Canada Balsam	AR	100ml	1		
28.	Fructose	AR	500gm	1		
29.	Copper sulfate monohydrate	AR	500gm	1		
30.	Dioxane	AR, spectrophotometric grade	2.5L	1		
31.	Catecholase	AR	10Mg	1		
32.	Gamborg's B-5 Basal medium	With macro & micro nutrients, vitamins, formulated to contain 3.2g of powder/L of medium	5L	1		
S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
33.	Giberrellic acid (Gas)	AR	250mg	1		
34.	Glucose oxidase	AR	1000 units	1		
35.	Glucose-6-Phosphate	AR	5units	1		
36.	Mannose	AR	25g	1		
37.	Mecamylamine hydrochrolide	AR	5mg	1		
38.	Lard lecithin	AR	250g	1		
39.	MS Media Macros & Micros	AR, with macro, micro nutrients & vitamins	5L	1		

40.	MS Media Macros only	AR, with micro nutrients only	1L	1		
41.	MS Media Macros, Micros & Vitamins	AR, with macro & micro nutrients only	5L	1		
42.	Nicotinamide	AR	200g	1		
43.	Methylated spirit	AR	5L	4		
44.	Ethanol	AR	2.5L	5		
45.	Papain	AR	25g	1		
46.	Pectinase	AR	50g	1		
47.	Pentane	AR, 150-250 units/mg protein	1L	1		
48.	Pepsin	AR	25g	1		
49.	Peroxidase	AR, activity 3.0-10.0 units/mg solid	2000 units	1		
50.	Phloroglucinol	AR	25g	1		
51.	Phosphatase	AR	50units	1		
52.	Puridoxine/Pyredoxine	AR	50g	1		
53.	Rennin	AR	10g	1		
54.	Resorcinol	AR	100g	1		
55.	Benzylamino purine (BAP)	AR	5g	1		
56.	Barium chloride	AR	500g	1		
57.	Bismuth Subnitrate	AR	100g	1		

S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
58.	Bromine	AR	100g	1		
59.	Sulfosalicylic acid	AR	100g	1		
60.	t-butanol	AR	L	1		
61.	Tetramethyl ethylene diamene (TEMED)	AR	50ml	1		
62.	Thyamine	AR	25g	1		
63.	Triethylamine	AR	1L	1		
64.	Ether	AR	2L	1		
65.	Tyrosine	AR	100g	1		
66.	Xylose	AR	50g	1		
67.	Yeast extract Mannitol Broth	AR	500g	1		
68.	Yeast extract Mannitol Agar	AR	500g	1		
69.	Agarose	AR	500g	1		
70.	zinc chloride	AR	500g	1		
71.	Barberine Sulphate	AR	500g	1		
72.	Gentian violet dye	AR	25gm	1		
73.	Sodium silicate	AR	500g	1		
74.	Methyl chloroform	AR	2.5L	1		
75.	Deobase oil	Light, high flash point deodorized oil	2.5L	1		
76.	Ferric nitrate	AR	500g	1		
77.	4-aminoan tipyrin	AR	50Gm	1		
78.	Hydrogen peroxide	AR	L	3		
Sub-total						
PERMANENT SLIDES						
79.	Pancreas	Transverse section	pcs	3		
80.	Kidney	Transverse section	pcs	3		
S/No.	Description	Specification	Units	QTY		

81.	Adrenal gland	Transverse section	pcs	3		
82.	Testis	Transverse section	pcs	3		
83.	Ovary	Longitudinal section	pcs	3		
84.	Nerve	Transverse section	pcs	3		
85.	Brain	VLS	pcs	3		
86.	Cerebellum	Transverse section	pcs	3		
87.	Pituitary Gland	Transverse section	pcs	3		
88.	Nerve ending in muscle	Transverse section	pcs	3		
89.	Cerebral cortex	Transverse section	pcs	3		
90.	Spinal cord	Transverse section	pcs	3		
91.	Thyroid gland	Transverse section	pcs	3		
92.	Urinary bladder	Transverse section	pcs	3		
93.	Tongue	Transverse section	pcs	3		
94.	Vas deferens	Transverse section	pcs	3		
95.	Ano-rectal	Transverse section	pcs	3		
96.	Jejunum	Transverse section	pcs	3		
97.	petty cash	practical samples/consumables				
					Sub-total	
iii. OTHERS TEACHING REQUIREMENTS						
98.	Sterilizing Filters	0.2µm, 47/50mm diameter.	pkts	10		
99.	Falcon tubes	15ml graduated 0.5ml, 50ml graduated 5ml , polypropylene, sterile, conical centrifuge tubes. 	pkts	10 each		

S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
100.	Petri dishes	Standard 15x90mm, borosilicate/ pyrex, Autoclavable 	pcs	200		
101.	Disposable petridishes	Standard 15x90mm sterile polystyrene petridishes	Carton (500pcs)	3		
102.	Magnetic Stirring Rods	magnetic stir bar with centre rim PTFE enclosed ,white 35mmx6mm 	pkts	2		
103.	Latex Gloves	Non-Powdered, latex gloves medium size and large size (1each of 10packets)	Carton	2		

S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
104.	Test Tubes	20mm x 150mm, borosilicate, without rim, with Autoclavable caps 	pcs	200		
105.	Spatula	High quality (AISI 304) polished stainless steel, Robust seamless construction, smooth finish, one end flat and the other micro spoon. 	pcs	50		
106.	Asbestos for gouch crucibles	stainless steel	pcs	30		

						
S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
107.	Forceps	Polished stainless steel, sharp pointed 1:2 tooth and blunt pointed 1:2 tooth, straight body form. Length 150 mm 	15 pcs each	30		
108.	Crucibles	Glazed inside and out, except for outside bottom surface and rim. • Max. use temp.: 1150°C; limit of use evacuated: 1300°C • non porous so they should not be any change in weight after firing	pcs	50		

		material porcelain, wth cap size B, H 29 mm, capacity 15 mL, top O.D. 35 mm				
						
S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
109.	Paper towels	Absorbent	10Rolls	1		
110.	Magnetic stir bar retriever	Polypropylene 12" Stirring Bar Retrievers, ideal for use with all stirring bars. The entire retriever is totally encased in a chemically resistant polypropylene, with a handy ring for hanging when not in use.	pcs	10		
						
111.	Straight & Bent teasing needles	Stainless Steel with Metal handles	Pcs	10		
						

112.	Horse pipe for Bunsen burner	Heavy duty gas Horse compatible with standard bunsen burner	roll	1		
113.	Watch glasses	borosilicate, heavy wall, fine polished, slightly out –of-round 65mm diameter 	doz	2		
S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
114.	Felt Markers	Steadler type, permanent markers, Black 	doz	1		
115.	Plastic Bags	Strong 9"x12" for plant specimen, with zip lock	pkts	5		
116.	Major insect orders survey chart	A1 size well clasified	pcs	2		
117.	Tape Measure	Stanley or Equivalent, 50M, fibre glass material, with PVC covered steel case	pcs	5		



S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
118.	Water proof tags	Blank Vinyl Tags - 3/4 x 3 3/4" White w/reinforced metal eyelet. .020 thickness w/3/16" size hole & eyelet. 	pkt of 100pcs	3		
119.	Diameter Tape	Metric Fabric Diameter Tape 10M, 160 cm diameter in cm, mm on one side, 10m linear in m, cm other side, 5/8" Wide tape line is synthetic fabric reinforced with thin phosphor brass wires. Claw hook and hand crank rewind. Forestry or Equivalent. 	pcs	5		
S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.

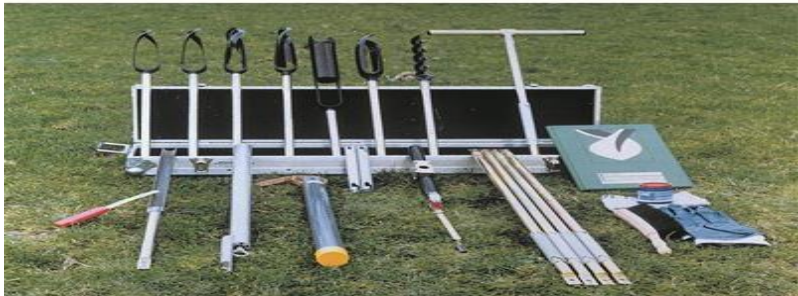
120.	Pin Frame	made of aluminum, comprise a cross-bar with pin-holes supported on legs of adjustable height	pcs	5		
121.	Meter Rule	stainless steel, standard graduated in Centimetres and inches	pcs	10		
122.	Quadrats	0.5M x 0.5M, 1Mx 1M, metallic galvanized (10 of each)	pcs	10		
						
123.	Herbarium Sheets	30 x 42cm, Caliper .012	bundles	5		
124.	Ranging Poles	2Meters steel, in length/height, Steel with pointed tip, 50cm graduated	sets	5		
						

S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
125.	Spring Balance	Scientific, 1Kg, For determining weights by spring elongation which is proportional to the applied force. Made of strong polystyrene case with a flat anodized metal scale to read newton and grams. Provided with a zero adjuster, suspension ring and a load hook. Weight capacity: 1-kilogram/10-newtons. Hunsens type or Equivalent 	pcs	10		
126.	Altimeter	Automatic and portable, durable, water proof 	pcs	5		

S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
127.	GPS	Display type, transfective, 65K colour TFT 2.2" display size, Resolution 176 x 220 pixels, Inbuilt Memory ((Flash/RAM)) 1.7GB, USB, Garmin eTrek 20 or Equivalent 	pcs	4		

S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
128.	Pruning Shears(secateurs)	General purpose heavy duty professional quality fixed handle secateurs. Upper blade: Razor sharp, High Carbon SK5 steel, polished with black heat treated finish. · Lower blade: Mid Carbon S50C pressed Steel, Resin spill groove, polished with black heat treated finish · Size: 220mm · Opening: 20mm · Handles/Body: Strong High tensile formed stain less steel body and handles, painted finish · Stop Buffer: Neoprene Buffer for smooth and softer landing after each cutting action · One hand lockable safety lock Designed for general use and particularly forward cutting, lightweight and durable. Stanley or Equivalent 	pcs	10		

S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
129.	compass	Out door waterproof, portable multifunction, Light in the Dark brass compass. 	pcs	10		

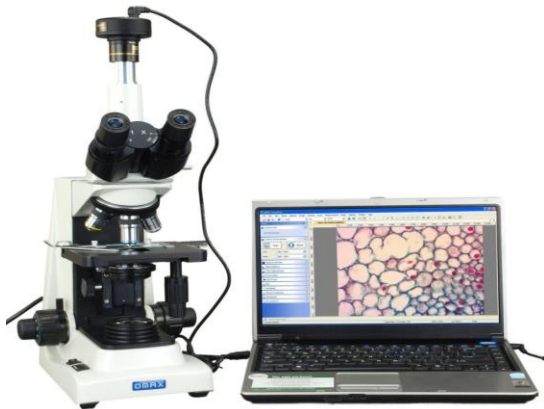
S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
130.	Heterogenous Soil Auger	Complete auger set (with bayonet connection), among other items, comprises: 4 types of stainless steel augers with 7cm diameter (clay-, sand-, coarse sand and combination type), a Riverside auger, a stony soil auger, a spiral auger, a piston sampler and a gouge auger. The set should also contains: 5M extension rods, a fiberglass utility probe, a sounding device with measuring tape, a push-/pull handle, maintenance equipment and a field data registration set. The complete set be delivered in an aluminum transport case. 	set	5		
S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
131.	Malled-soft soil Sampling Kit	With T-Handle, 1.75 pounds Soft-Faced Mallet, two 13 inch Rod Extensions, assorted sizes sampling tubes; 12", 15" and 18" three for dry, Core diameter is 1.2 inches. And three for wet soil, Core diameter is 0.688 inches. All tubes feature hardened cutting tips, DOM high strength steel, and a protective electroless nickel-plated finish. Strong, lightweight, nickel-plated, steel tubing protects against rust and wear.	set	5		

						
132.	Soil cores Sampler kit	With hammer attachment, chrome molybdenum 2"Dx2"L cap, removable retaining liners with 2" I.D. samplers. Kits include one butyrate retaining liner and two polyethylene liner caps., with casing. 	kits	5		

S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
133.	Urinometer	Digital, high luminosity, high sensitivity, automatic calibration 	pcs	10		
134.	Wash bottles	500ml semi rigid polyethylene, goose neck, strong 	pcs	30		

S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
135.	Percussion hammer	popular neuro hammer, Chrome handle with round synthetic rubber head, Overall length 7 1/2", Latex-free 	pcs	10		
136.	Wildman trap	1L Erlenmeyer flask complete kit with metal rod, oily layer nut, stopper nut and recess	pcs	10		
137.	Bimetallic thermometer	Stainless Steel, Hermetically Sealed with external pointer reset 3 Inch Diameter Dial, 6" stem length,	pcs	5		
138.	platinum resistance thermometer	Electrical thermometer, resistance of 100 ohms at 0 °C and 138.4 ohms at 100 °C. temp. PT100 or equivalent	pcs	10		
139.	Thermocouples	digital, 0.8 mm (0.032") diameter thermocouples, maximum service temp. 593°C (1100°F), response time 0.002sec	pcs	10		
140.	Thermistors/ Thermistors	Electrical thermometer	pcs	10		

S/No.	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
141.	vacuum Filtration unit	complete unit with; 1Litre borosilicate 3.3 heavy wall flask with side arm for vacuum connection which can fit 6- 10mm diameter horse pipe, conical rubber gasket with funnel fitting hole, heavy wall 300ml borosilicate funnel, support base with sintered disc, stain less steel metal clip, suitable with 47/50mm diameter membranes. 	pcs	5		
SUB-TOTAL						
TOTAL						

LABORATORY EQUIPMENTS						
S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
142.	Digital Binocular Microscope	Olympus model; Applications, Cell biology / Neuroscience / Developmental biology / Micromanipulation (injection, IVF, ICSI) / Transgenics / Fluorescence applications /Biotechnology sample Type, Various e.g. large culture flasks, tube and multi-well platesType: Brightfield / Phase Contrast / Integrated Modulation Contrast Light Source: 5 W LEDObjectives: standard 2.5x - 100x with 4x, 10x, 20x, 40 Phase Contrast Eyepiece: 10x (standard). Field of view 18mm, optical tube 180mm L, Illumination 6V/30W quartz halogen, Interpupillary distance: Adjustable, 52.5 to 75mm, Focus: 40mm/rev(coarse), 1mm/rev(fine), stage: fixed, 200mm x 260mm.working distance; 72mm with condencer; 180mm without condencer. eye point 370mm, Head: binocular inclined at 45°C with USB laptop computer interface, allen hexagonal key, vinyl dust cover power: 110to 240 VAC, warrant, user manual 	pcs	2		
S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.

143.	Thin Layer chromatography KIT	borosilicate 3.3, complete with aluminum applicator (thickness of the layer varied from 1m.m to 2m.m. thin layer drawing board, drawing rack, developing chamber, spotting jig, silica gel pipette, glass plates(6Nos) , glass sprayer with bulb and spare brass applicator 	pcs	6		
144.	Ice Maker	flaked ice self contained water cooled unit, 6" leg raised, 395lds of ice a day, 140lbs self contained storage bin, 2 scoops, 220-250V, 50-60Hz, warrant, user manual, installation manual. 	pcs	1		

S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
145.	ELISA Reader	UV/VIS. 96 well microplate reader, with Temperature Control and shaking. Filters installed 260, 405, 450, 490, 630nm filters installed (or user's choice) in 10 place filter wheel. -Wavelength Range: 190 to 1000 nm , Photometric Range: 0.0 to 4.5 O.D, Photometric Linearity: 0.0 to 4.0 O.D. +/- 1% at 405 nm - Photometric Accuracy: < +/- 0.002 O.D. or < +/- 0.5% 0 to 4.0 O.D. - Photometric Precision: < +/- 0.002 O.D. or < +/- 0.5% 0 to 4.0 O.D. - Photometric Resolution: 0.001 O.D. - Light Source: Xenon Flash - Read Time: 6 sec/96 well, 12 sec/384 well, (single wavelength) 33 sec/1,536 well - Plate Shaking: 3 speeds, time selectable - Incubation Ambient: + 5 °C to 42 °C - Filter Type: 10-position filter magazine - Temp tested and certified with NIST IR infrared thermometer laser easy voltage reset. Laptop Computer interface and printer, power 220-240v 50-60Hz, Installation, warrant 	pcs	1		

S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
146.	Vacuum filtration manifold	Complete High grade Stainless steel unit with 4 funnels with caps,4 stoppers and 4clamps,4 Branches, 4-way individual stainless steel control valve which can allow filtration through different branches with single vacuum pump, vacuum tank and a gas burner used with 47/50mm diameter. 	pcs	1		

S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
147.	Analytical weighing balance	Readability to 0.0001g (0.1 mg), with quick-Cal internal calibration feature, RS232 port for data output to a computer or printer, with quick Cal internal calibration feature, maximum weight 200g, calibration masses, and digital LED display. power AC240V, 50/60Hz, warrant 	pcs	2		

S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
148.	Hot plate stirrer	Digital LCD display with back light function, solid ceramic glass plate 200mm x 200mm, stirring capacity 20L, precision $\pm 3^{\circ}\text{C}$ at set temperature, 850°C heating temperature, adjustable stirrer rotation speed, stirring rods and retriever, over temp. protection hot top indicator LED lamp, Ambient $\pm 5^{\circ}\text{C}$, power AC240V, 50/60Hz, warrant 	pcs	3		
149.	3D Gyrotary Rocker	Digital controlled,With circulating 3D- seesaw movement, ideal for DNA extraction and ELISA plate development, staining and bleaching gels, and for particularly low foaming, rocking action, Net weight 10Kg, Electrical supply 230v, 50Hz, 50W, user manual, warrant. 	pcs	2		

S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
150.	Laboratory sample Grinder	- Heavy duty sample grinder, designed for batch or continuous fine grinding of hard-brittle to medium-hard solids, down to 50µm. Technical details Maximum feed size: 20 mm (3/4") Final fineness: 0.05 to 12 mm (depending on gap setting) Maximum capacity: 150kg/h Grinding Material: hard-brittle to medium- hard solids Dimensions (WxDxH): 52x105x63 cm (21x41x25") Weight: 240 kg (530 lbs.) Certified safety (CE mark) – optional CSA approval for Canada 2-year warranty - power 220-240v,50-60Hz, Laboratory Disc Pulverizer Pulverisette 13/ premium or equivalent 	pc	1		

S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
151.	PH meter	Hannah model, digital display, with temperature and PH probes which can measure measures conductivity, TDS (Total Dissolved Solids), percentage of NaCl and temperature, can be connected to a computer using the RS232 port and the optional Hanna software can allow data export, plotting, printing. With stability indicator and Ph calibration standards, power 220-240v,50-60Hz, warrant HI-1131B or equivalent 	pcs	2		
152.	Haemocytometer	Very Fine Quality Bright-lined Blood Counting Chamber & Neubauer grid lines brightly illuminated for easy reading, power 220-240v,50-60Hz, Installation services, warrant 	pcs	2		

S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
153.	Glass Bead sterilizer	Digital, Crucible size 40mm dia. x 80mm Depth, Preset Temperature Range 240°C- 270°C, Initial Stabilization Time 10 Minutes, Weight of Glass Bead 40g, Material of Lid ; Stainless, Wattage 50 W Single Phase, Input 230V/ 50/60 Hz, glass beads, user manual, after sale technical support, warrant. 	pcs	2		

S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
154.	Plant Growth Chamber	High specification plant growth chamber. Microprocessor Digital Controller and Back Light LCD display. Growth area, 0.73m², Growth volume 1000 litre with 3 removable shelves, Interior dimensions (w x d x h) 970mm x 750mm x 1400mm, Exterior dimensions (w x d x h) 2120mm x 980mm x 1985mm, Temperature range - lights off +5°C to +45°C, Temperature range - lights on -10°C to +60°C all manipulatable as per user's interest, Temperature stability ±0.5°C, Humidity range - lights off 40%RH to 95%RH, Humidity range - lights on 40%RH to 85%RH all manipulatable as per users' interest, Standard lighting module 1 - lamp types 840 fluorescent, 100% to 10% dimmable, Standard lighting module 1 - maximum intensity 1 450 μmol m⁻²s⁻¹, Door/s the light can be manipulated up to dark room state, One door with observation window with glass, Electrical connection 3/N/PE 400V 50/60Hz 16A, installation, warrant, user manual, after sale technical support. 	pcs	1		

	Horizontal Laminarflow	■ ISO class 3 work zone 10x HEPA Filter efficiency up to 99.97% & 0.3 micron size ■ Mesh Guard for HEPA Filter Protection ■ Easy to Exchange HEPA Filter, 8 Steps Air Velocity Control ■ Safety UV Protection System: UV Lamp is only activated once Hidraulic tempered safety Glass Door is Completely closed ■ High performance of Touch Controller-Easy to use, Microprocessor Digital Controller and Back Light LCD, all safety information on one screen ■ UV and Fluorescent Lamp, External Gas Connection Valve, Internal Electrical outlet - High-Quality Back-Light LCD, 99hr 59min Timer, Silence and Vibration-Free Blower, under 65 dBA , Optimized Air Flow System for Uniform Air Flow/Velocity, Corrosion Resistant 304 Stainless steel Working area - Air Flow-type : Horizontal Air Flow-type , Interior dimensions (wxd xh) , 1,500×660×610 , Horizontal air supply, prevent outer gas from entering and preventing peculiar smell in operating area from damaging human body, adopts wind volume adjustable fan system, light-touch type switch and dual-speed voltage regulation device to keep wind speed in working area in ideal state. Tested for cross-contamination and product protection using microbiological test method adopted from EN12469, ISOCIDETM Powder Coat (silver-impregnated) that inhibits microbial growth to improve safety, Spill-retaining stainless steel (#304) worktop design will ensure containment of accidental liquid spills. Self standing with rollers. External body: powder coated steel, 1 phase, Ac 230v, 50/60 Hz, installation, warrant, user manual,	pcs	1		
S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.



155.	Sonicator	Crushing capacity 0.5-1200ml, ultrasonic frequency 20-25, probes ϕ 6, 10, 12, 15, 20, 25, 28. Temperature control		pc	1		
156.	Polyacralamide gel Unit	Complete unit with Ultra soft silicon seals, Dual casket, 20×20 cm 4mm thick notched glass plate with bonded 1mm thick spacers, 2×24 sample combs, rapid cooling pack, dummy plate and casket base, volume 1200ml × volume, platinum electrodes, 4 channel power pack, user manual, after sale technical support, warrant, Input 230V/ 50/ 60 Hz		pcs	2		
S/No	Description	Specification		Units	QTY	Unit price Ksh.	Total Ksh.

157.	Clinometer	Compact laser rangefinder and height meter User selectable distance, angle, 1, 2 & 3 point height modes Use 3-point height mode for accurate height readings - uses laser to obtain horizontal distance to target, then internal inclinometer to measure angle to base and top of tree Greater height accuracy than Forestry 550 when using 3-point mode Distance range 10-500m; Angle range +/- 89 Deg 6x magnification optical sight Internal and external LCD displays Selectable first target/distant target priority Distance accuracy +/-0.5m for under 100m, +/-1m for >100m Waterproof (but not useable under water) Uses 1 x CR-2 lithium battery (supplied) Dimensions: 130x45x69mm, weight 210g, Includes carry case, Nikon Forestry or equivalent	pcs	2		
------	------------	--	-----	---	--	--



S/No	Description	Specification	Units	QTY	Unit price Ksh.	Total Ksh.
158.	Water deionizer	Digital, Milipore, Product Type: Single Max flow rate: 4 liters per minute Inlet pressure: 5 psi min 	pcs	1		
159.	Laboratory power stabilizer	Three phase automatic voltage stabilizer, Capacity: 1 KVA to 2000 KVA, 3 phase Technical Specification: • Input Ranges : 300-460V, 240-470V, 150-450V in 3Phase (Phase to Phase) 170-265V, 140-270V, 90-260V in 1Phase. (Phase to Neutral). Input Frequency : 48 to 52 Hz • Output Voltage Range : Three Phase 400V/415V+/-1%; Single Phase 230/240V+/-1% • Accuracy/ Regulation : +/- 1% • Output Frequency : 50Hz, • Mode of operation : Auto/ Manual Features: • Elevated performance • Reliable • Ability to withstand voltage fluctuation	pcs	1		

		• Low power consumption • Robust construction, installation, user manual, warrant Type: Siemens or equivalent				
						
Sub -total						
Grand-total						

DEPARTMENT OF FOOD SCIENCE

S/No	Item description	Specifications	Unit of issue	Qty	Unit Price	Total Cost
GLASSWARE						
1	beakers	250ml pyrex	pcs	25		
2	measuring cylinders	100ml pyrex	pcs	50		
3	spatulas	stainless	pcs	30		
4	Manifold filtration filters	Membrane disc filters GN-6 Grid 0.45um 47mm 200pcs/pkt	pcs	2		
5	spirit lamps	aluminium	pcs	10		
6	Porcelain Buchner Funnel,	with fitted rubber corks compactable to 250ml volume buschner flasks	pcs	10		
7	mouth respirators	N95 mask respirator	pcs	10		
8	Aluminium foil	45cm by 60m	Pcs	2		
9	Filter paper	pkt Whatman no.1 (110mmØ)	dozen(with 12kpts each)	3		
10	Filter paper	pkt Whatman no.1 (185mmØ)	dozen(with 12kpts each)	3		
11	litmus papers	blue and red	pack each	4		
12	Hand Sanitizer	20Litre/Alcohol based non perfumed	pcs	1		
13	silica gel	self-indicating 500gms	pcs	2		
14	fat/oil extraction thimbles	cellulose extraction thimbles -dozen(with packs of 100pcs)	dozens	3		
15	fat/oil complete extraction apparatus	flask,extraction chamber and condenser	pcs	4		
16	Blood glucose tests strips	eg on call plus strips-box 51 or equivalent	packs	10		
17	cuvettes (glass)	3.5ml ,10x10mm standard cuvette, optical glass, 360-2500nm spectra range	pcs	4		
18	cuvettes (quatzs)	3.5ml ,10x10mm standard cuvettes for uv-vis, 200-2500nm spectra range	pcs	4		

19	joint clamps	chemical resistant and good mechanical strength eg.hahnaover 0172	pcs	4		
S/No	Item description	Specifications	Unit of issue	Qty	Unit Price	Total Cost
20	autoclavable sterilising bags	to be used in autoclave(biohazard bag- 24" x36")	dozen	1		
21	LPG gas	Cylinder-refill 13kg cylinders	pcs	4		
22	Food products and other samples	petty cash (student research project)		1		
Sub Totals						
CHEMICALS						
23	petroleum ether (CH ₃ CH ₂ OCH ₂)	2.5Litre AR (boiling points 60 -80°C)	pcs	1		
24	amyl alcohol (C ₅ H ₁₁ OH)	1litre	pcs	2		
25	Hydrochloric Acid (HCL)	2.5litres AR	pcs	1		
26	ethanol	absolute 2.5litres AR	pcs	6		
27	acetone (C ₃ H ₆ O)	2.5 litres	pcs	1		
28	sulphuric acid (H ₂ SO ₄)	2.5Litres	pcs	1		
29	sodium hydroxide	500gms AR	pcs	8		
30	potassium iodide	25gms	pcs	1		
31	wijs solution	1litre	pcs	1		
32	lens cleaner tissue	dozen(with packs of 12booklets)	pcs	3		
33	lens cleaner solution	litres (30ml pack)	pcs	10		
34	Pulsifier Sterile Bags	250mL (180x240mm) carton of 500	Pkt	1		
Sub-total						
MICROBIOLOGY MEDIA						
35	Plate count agar	500gms	pcs	1		

36	Baird Parker Agar Base (FPT)	500gms	pcs	2		
38	Sorbital Macconkery Agar (SMAC)	500mg	pcs	1		
S/No	Item description	Specifications	Unit of issue	Qty	Unit Price	Total Cost
39	de Man Rogosa Sharpe (MRS) Agar	500gms	pcs	1		
40	Xylose-Lysine-Desoxycholate Agar	500gms	pcs	1		
41	Buffered Peptone Water (ISO)	500gms	pcs	1		
42	Maximum Recovery Diluent	500g	pcs	1		
43	saboured dextrose agar	500g	pcs	1		
	sub-total					
SMALL APPARATUS						
44	Cake baking tins/ trays	Assorted capacity and shapes, 4 sets of 3(round,heart,hexagonal and rectangular shaped)	Lot	1		
45	eppendorf type (pipettor)	adjustable,100-1000µl capacity,single channel ,user manual, 2yrs warranty	pcs	6		
46	Silicon tube	transparent inner diameter 0.5mm,,outer diameter 2.1mm - 20 metres	pcs	1		
47	Silicon tube	trasparent inner diameter1.0mm,,outer diameter 3mm -20 metres	pcs	1		
48	Extension Cables	5 Meters, four-3pin Outlets with surge protector	pcs	4		
49	fringe guards protectors	Protects against low voltage, brown-outs and voltage dips .eg .sollatek	pcs	5		
50	sugar refractometers	handheld ,0-32% Brix and 1.000-1.120 Specific Gravity,dropper, screwdriver, user manual and cleaning cloth	pcs	3		

51	safety boots	acid/heat resistant ,black in colour no.5,4,4,4,	female - 4pcs male - 3pcs no.7,8,8	pcs	7		
----	--------------	---	---------------------------------------	-----	---	--	--

S/No	Item description	Specifications	Unit of issue	Qty	Unit Price	Total Cost
52	Infra red food safety thermometer	range- 55°C -280°C Accuracy*-±2°F (±1°C) from 32 to 150°F (0 to 66°C), Full Range: 1.5% of reading ,±2°F (±1°C) below 32°F (0°C) ±0.1 degree/degree ,Resolution-0.1° from -9.9 to 199.9, thereafter 1°Repeatability-0.3°F (0.15°C) at 77°F (25°C), 1.4°F (0.75°C) at 176°F (80°C),Units-°C/°F switchable,Distance/Target-12:1 (1" target diameter at 12" distance),	pcs	2		
53	ice cream electrical wiping machine	Donlim/ Donlim HM925S brand: Donlim Donlim/ type: HM925S: No. HM925S color:	pcs	1		
54	knives	stainless 9 inch	pcs	15		
55	knife sharpener	Buck Knives 97082 EdgeTek Tri-Grit Ultra Steel Diamond Knife model;Models: DS4F, DS2F, DS2E, DSOF-izes: 14-in: 14" x .375" (356 mm x 10 mm) 12-in: 12" x .375" (304 mm x 10 mm) 10-in: 10" x .375" (254 mm x 10 mm).	pcs	2		
56	magnetic knife rack	rack length 30cm(eg bisbell magnetic rack)	pcs	4		
57	head gear/hairnet	white	dozen	6		
sub total						
Grand Total						

PHYSICAL SCIENCES DEPARTMENT - PHYSICS TEACHING MATERIALS

S/N	Item	Specifications	Unit of issue	Unit price	Quantity required	Total price
1.	Searle's apparatus	Four thermometers(0-100)°C + -1°C, steam inlet and outlet, water inlet and outlet, steam generator	Equipment		3	
2.	Standard Boyle's Law apparatus	Volume capacity 0-300cm ³ ,	Equipment		3	

S/N	Item	Specifications	Unit of issue	Unit price	Quantity required	Total price
3.	Connecting Wires	Single core 100m roll of 1.34mm diameter, With yellow, red Insulation ranges for breadboard prototyping.	Roll		12	
4.	Copper Cylinder	10mm Diameter * 40mm Length for precision measurements.	Piece		700	
5.	Cable ties	8" plastic cable ties 100pack	Pack		200	
6.	BoXZY Complete 3D Printer	Three-In-One 3D Printer, CNC Mill, and Laser Engraver – Black Anodized× 1; Designed & Produced in USA. Programs Included: Autodesk Fusion 360 Cloud-based 3D CAD Platform, BoXZY Interface. Attachments: Rapid-Swap 3D Printer (Artisan Precision down to 20 Microns. BoXZY's 1.75 mm Plastic Extruder accepts filaments such as ABS, PLA, PVA, NYLON, FLEX,)), Rapid-Swap CNC Mill (Can Work with Metals, Plastics, and Woods. Aluminum, Brass, Bronze, Silver, and more), Rapid-Swap Laser Engraver (Can work with Anodized Aluminum, Hardwoods, Opaque Plastics, & Even Food). Accessories: Stainless Steel Combination E-Stop Power Station, Magnetic Swap Levelling Platform, Filament Drive. Machine Tools: 2 C-Clamps, Metric Allen Key Set, ¼ Inch Milling Bit, 2 Wrenches. Sacrificial Board, 2 laser Safe Classes, Starter Filament, Usb Cord Accessories:	equipment		1	
7.	BoXZY3D printer Filaments	-PLA Polylactic Acid 1.75mm, Extruder Temp; 200±10 °C BED TEMP; 40±15 °C, BED ADHESION; Blue Painters Tape. -ABS Acrylonitrile Butadiene Styrene 1.75mm (EXTRUDER TEMP; 230±10 °C, BED TEMP; 90±10 °C, BED ADHESION; Kapton Tape / Hairspray) Lenth: 332.60 m. Spool Dimensions (Approx.): 200mm Total Diameter x 50mm Inner Hole Diameter x 70mm Height	(Red roll) (Blue roll) (Green Roll) (Red Roll) (Blue roll)		2 2 2 2 2	

S/N	Item	Specifications	Unit of issue	Unit price	Quantity required	Total price
8.	Laser Cutter	Model; Thuislaser 3050, Max Work Area; 300 * 500mm, Power Supply Ac 220v/50Hz, Cooling Way; Water cold type, Environmental temperature 5-350c, Buffer Memory decided by computer. Laser tube reference(power: 60W). Application Range: Materials Such as "Acrylic, Crystal, Glass, PVC, Leather, MDF, bamboo,, marble, Paper, plastic, Plexiglax, Plywood, Rubber sheets, double color board, garments Cutting Thickness: 0-25mm Cutting Area: 1200*900mm" Has; Laser head, Working Table, Operation Panel,Power On, power off, Emergency stop, plug Seat power switch, USB port and power Cable; Accessories: 3 extra Laser tubes	Equipment		1	
9.	Weather Study Kit	"barometer,thermometer psychrometer(to measure humidity), Anemometer, Compass, mini weather station,Weather Golden Guide,weather study guide data sheets to record measurements"	Equipment		1	

S/N	Item	Specifications	Unit of issue	Unit price	Quantity required	Total price
10	Complete Thermal Radiation System:	Model: TD 8855, Thermal Radiation Cube(Leslie's Cube): Electrically Heated: The 100-watt bulb inside eliminates the danger of an open flame and the inconvenience of water-heated cubes. Temperature is conveniently controlled with the power control knob. Thick Aluminum Walls: The aluminum walls of the cube are 6 mm thick, providing efficient heat conduction so the temperature is constant to within a fraction of a degree at all points on the cube. Thermistor: A 100 kΩ thermistor embedded in one wall of the cube provides accurate temperature measurement with no thermometer to break. -Stefan-Boltzmann Lamp (TD-8555) of 3000K -Radiation Sensor (TD-8553) of Flat Spectral Response: Measure intensities from the yellow-green to the infrared (0.6 to 30 μm). -Detachable Stand with Adjustable Swivel Mount: -A Reflective, Insulating Screen: -Protective Posts: -A Complete Manual: The manual provides 4 ready-to-use experiments using the Radiation Sensor, the Thermal Radiation Cube and the Stefan-Boltzmann Lamp. Typical Experiments: -Introduction to Thermal Radiation -Stefan-Boltzman Law at Low Temperatures. ($R_{\text{rad}} = \sigma T^4$) -Inverse Square Law -Stefan-Boltzman Law at High Temperatures	Equipment		2	

S/N	Item	Specifications	Unit of issue	Unit price	Quantity required	Total price
11	National Instruments Multisim Full Edition	Software for Simulation of circuits and design; Latest Multisim Version 14 with Ultiboard 14 for Multiple Computers 30+, Incorporation of Ni Elvis II+ Simulator Integrated Suite of 12 Virtual Instruments • Oscilloscope • Function generator (manual control) • Digital multimeter (DMM) • Arbitrary waveform generator • Bode analyzer • 2-wire current voltage analyzer • 3-wire current voltage analyzer • Dynamic signal analyzer (DSA) • Impedance analyzer • Digital reader • Digital writer • Variable power supply (manual control) Recommended Software • LabVIEW • NI Circuit Design Suite Driver Software (included) • NI-ELVISmx • LabVIEW SignalExpress	Software; Prototyping Board		1 3	
12.	Complete String Vibrator Kit	220-240Ac power, Unit Holds Its Frequency Consistently Precision Model for Years of Reliable Use, Three Strings included & Can Be Used at One Time, Weights, a Table Clamp, and a Pulley Can Vary Tensions, Instructions Included.	Set		4	

S/N	Item	Specifications	Unit of issue	Unit price	Quantity required	Total price
13	Hall Effect Experiment Apparatus	Features High performance GaAs Hall element Easy to use Stable and reliable Specifications 240AC powered Current stabilized, DC supply range 0-500 mA, resolution 1 mA Voltmeter 4-1/2 digit, range 0-2 V, resolution 0.1 mV Digital Tesla meter range 0-350 mT, resolution 0.1 mT., Instruction and Experiment manuals included.	Equipment Complete Set		2	
14	Magnetic Hysteresis Loop & Magnetization Curve	 240AC powered, Description: Constant current source, Magnetic material sample Digital Teslameter. Specifications 4-1/2 digit, range: 0 ~ 600 mA, adjustable 3 pcs, rectangular bar, section length: 2.00 cm; width: 2.00 cm; gap: 2.00 mm, 4-1/2 digit, range: 0 ~ 2 T, resolution: 0.1 mT, with Hall probe	Equipment		2	
15	LEOK-3 Optics Experiment Kit - Enhanced Model	Complete set of optical and mechanical components as well as light sources: Detailed instruction manual. Easy alignment. 26 experiment examples which are grouped in six categories:	Set		1	

		Lens Measurements: Optical Instruments: Interference Phenomena: Diffraction Phenomena: Analysis of Polarization: Fourier Optics and Holography:				
--	--	---	--	--	--	--

S/N	Item	Specifications	Unit of issue	Unit price	Quantity required	Total price								
16	LETI-40 Apparatus of Comprehensive Heat Experiments 	Experiments to do: 1) PID applications (2) Heat conductive coefficient measurement of a poor conductor (3) Heat conductive coefficient measurement of air (4) Heat conductive coefficient measurement of a metal (5) Specific heat capacity measurement of a metal (6) Linear expansion coefficient measurement of a metal Specifications: Sensor input 4 ports Temperature display 4 meters, Measurement display current, voltage and pressure, 1 each, Timer5 digits, 3 scales, min. 0.001 sec. manual or photo gate control, PID temperature controller resolution: 0.1 °C; precision: ± 0.2 °C, DC output 5 V/1 A. Dimensions 30 cm × 35 cm × 40 cm	Equipment		1									
17	LETI-10 Air Specific Heat Ratio 	Specifications Digital voltmeter 3-1/2 digits: pressure measurement; 4-1/2 digits: temperature measurement Pressure sensor diffused Silicon; range: 0-10 kpa; sensitivity: 20 mV/kPa Temperature sensor sensitivity 1 µA/°C Parts List: <table><tr><th>Description</th><th>Qty</th></tr><tr><td>Main Unit</td><td>1</td></tr><tr><td>Pressure Sensor</td><td>1</td></tr><tr><td>Plastic Tube for Temperature Sensor</td><td>1</td></tr></table>	Description	Qty	Main Unit	1	Pressure Sensor	1	Plastic Tube for Temperature Sensor	1	Equipment		2	
Description	Qty													
Main Unit	1													
Pressure Sensor	1													
Plastic Tube for Temperature Sensor	1													

		Connection Wire 2 Rubber Air Ball 1 Rubber Tube 1 Glass Bottle 1 Manual				
S/N	Item	Specifications	Unit of issue	Unit price	Quantity required	Total price
18	Hook Up Wire- Red, Black	24 AwgStranded Hook Up Wire- Red, Black	Metres		50 50	
19	Single core insulated copper wire	24 Awg Hook Up Wire- Red, Black	Metres		50 50	
20	Complete Inductance Decade box	Wide range and resolution: 1 μ H to 10 H Available at accuracies of : 1% and 2% LabVIEW Drivers for IEEE-488.2 and RS-232 Versions Programmable "open circuit" and "short circuit" states optional Desktop and 19" Rackmount enclosures effective programmable impedance unit controlled manually and by a computer Dual / Combo rackmount models (examples: dual resistance, resistance & inductance) Windows tools and IEEE-488 interface software and hardware available with Accesories Instruction Manuals 7 Sample experiments	Equipment		5	
22	Step Down Transformer	Ac220v Dual Ac 15v/12V 5Watts Transformer	Piece		10	
23	Complete Van De Graff Generator & Discharge Electrode kit	Have Van De-Graff generator Have Discharge electrode Kit. UK Plug Type. Instruction Manual & Sample Experiments; A rugged unit that will develop potentials up to 350,000 volts on the polished, anodized dome. Provides the power to execute all the basic electrostatic	Equipment		2	

		demonstrations on an energetic and dramatic scale. Maximum continuous current of 10 microampere.				
24	KE 6789 LED for Determination of Plank's Constant	Wavelengths: 465 nm, 560 nm, 585 nm, 635 nm, 660 nm, 950 nm Series resistor: 100 Ω Max. voltage: 6 Dimensions: 115x115 mm ² Weight: 120 g With instruction manual & Sample Experiments	Equipment		2	
S/N	Item	Specifications	Unit of issue	Unit price	Quantity required	Total price
25	EIRQ03 Heat System Physics Kit	Description Over 40 components Use to teach 15 different Heat activities Includes Activity Guides with Student worksheets Packed in Aluminum case with foam cut outs Activities Covered -Psychrometry -The Hot Tea Problem: Newton's Law of Cooling -Specific Heat of Several Metals Specific Heat of Water Expansion of Water Heat of Fusion Linear Expansion of a Solid Phase Transitions and Cooling Curves Heat Conduction in a Rod Convective Heat Transfer Pulse Glass Expansion of Gas Expansion of Liquid The Thermocouple The Thermostat Includes: Beaker 500ml 1, Beaker 250ml 1, Beaker 100ml 1, Cylinder graduated 100ml 1, Centrifuge tube 100ml 1, Filtering flask, with side tube, 500ml 1, U-shaped glass tube 1, Thermal insulation jacket 1, U-shaped rods, Aluminum 3, U-shaped rods, Brass	Equipment		2	

		3, U-shaped rods, Stainless Steel 3, Pulse glass 1, Glass tube 1, Stand 1, Plastic head with knobs 3, Thermocouple 1, Silicon tubing 1, Extension clamp with rod 2, Alcohol thermometer - 10 to 110 OC, 2, Rubber stopper for Filtering flask, Solid 1, Rubber stopper for Filtering flask, one hole 1, Gas burner tubing 1, Bimetallic strip 1, Digital multimeter 1, Calorimeter cup with lid 1, Banana plug cord 2, Silicone grease 1, Paraffin block 4, Stainless Steel and Aluminum cylinders for linear thermal expansion 2, Retort Ring 1, Specific heat cylinders - iron, brass, lead & cu 4, Wire mesh 1, Bunsen burner 1, Tripod stand for Bunsen burner 1, Micrometer dial gauge range, 0-10mm, sensitivity 0.01mm 1, Food color 1				
S/N	Item	Specifications	Unit of issue	Unit price	Quantity required	Total price
26	Sonometer Kit	Includes: sonometer base, 22 cm long; two strings wires; tension adjusters; three bridges, (one thick and two thin); two spring scales.	Equipment		2	
27	Laboratory report Book	Cover Page branded Meru University of Science & Technology, P.O. Box 972-60200, MERU and with university LOGO, Have options for writing: Name, Reg. No: School, Department, Group, Year, Semester. High Sample paper Size: A4; 297x210mm, with one side ruled and back page with graph of 1cm square divided into 100 squares each, Pages: 200 Gramature:80gsm,	Piece		1000	
28	Rechargeable NIMH Aa Battery 1.2v 1800mah Charger	NC2500 AA/AAA NIMH CHARGER Product Code: NC2500	Piece		2	
29.	Rechargeable AA Battery	Rechargeable NIMH AA Battery 1.2v-1.5v 1800mah 4PCS per pack	Pack		3	
					Total Kshs.	

SCHOOL OF NURSING

Teaching Materials

S/No	Description	Specs	Units	Qty	Unit cost	Total cost
1	Examination gloves latex	large, non powdered	PKT	5		
2	Intravenous canula	Gauge 18	PKT	1		

3	Intravenous fluid giving set	Adult size, Non pyrogenic with air vent	PKT	1		
4	Disposable face mask	With ties	PKT	1		
5	Urine drainage bag	Adult size, graduated with inlet and outlet	PIECES	10		
6	Surgical spirit	70% Ethanol	LITRES	5		
7	Povidone iodine	10%	LITRES	1		
8	Normal saline solution	0.9% Isotonic	BOTTLE	10		
9	Glucose solution	5% Isotonic	BOTTLE	2		
10	Lactated ringer's solution	BP formula	BOTTLE	2		

S/no	Description	Specs	Units	Qty	Unit cost	Total cost
11	Simple Oxygen mask	Adult size with tubing	PIECES	5		
12	Non rebreather oxygen mask	Adult size with tubing and reservoir	PIECES	2		
13	Oxygen nasal canula	Adult size with 2.1 m tubing	PIECES	2		
14	Penile sheath (uridome)	Standard size	PIECES	5		
15	KY jelly	50 GMS	TUBE	2		
16	Foley's catheter	2 way, CH 18, 30 ml	PIECES	10		
17	Foley's catheter	3 way, CH 22, 30 ml	PIECES	2		
18	Liquid soap with dipenser	Hand held, 750 ml	PIECES	1		
19	Bath soap		PIECES	5		
20	Plastic wash basins	White, Small	PIECES	10		
22	Bath towels	White, Cotton, 135cm*70cm	PIECES	5		
23	Face cloth/towel	White, Cotton 30cm*30cm	PIECES	5		
24	Paper towels		PKT	1		
25	Surgical blade	Gauge 23	PKT	1		
26	Crepe bandage	Elastic, 15cm*4.5m	ROLLS	3		
27	Crepe bandage	Elastic, 10cm*4.5m	ROLLS	2		

28	Zinc oxide adhesive plaster	7.5cm*4.5m	ROLLS	3		
29	Cotton tipped applicators		PKT	1		
Total						
Equipment						
	PROJECTOR	BENQ	PIECES	1		
	LAP TOP	CORE I -7, HARD DISK 1 TB, RAM 8GB	PIECES	1		
	HDMI CABLE	2m	PIECES	2		
	LAP TOP BAG		PIECES	2		
Total						
Grand total						

PUBLIC HEALTH

S/No	Item description	Make/model	Specifications	Units	Quantity	Cost/unit	Total cost
Laboratory Reagents							
1	Crystal violet			500ml	1		
2	Lugols iodine			500ml	1		
3	Acetone			2.5L	1		
4	Neutral red			500ml	1		
5	Carbol fuchsin			125ml	1		
6	Absolute ethanol			2.5L	1		
7	Sulphuric acid			per 5L	1		
8	Malachite green			500ml	1		
9	Giemsa			per 500ml	1		
10	Leishman			per 100ml	1		
11	Field stain A			per 500ml	1		
12	Field stain B			per 500ml	1		
13	Mackonkey agar	OXOID		500gms	1		

14	Nutrient agar	OXOID		500gms	1		
15	Cystein Lactose Electrolyte Deficient agar(CLED)	OXOID		500gms	1		
16	muller hinton	OXOID		500gms	1		
17	peptone water	OXOID		500gms	1		
18	Mannitol salt agar	OXOID		500gms	1		
19	Nitrate broth	OXOID		500gms	1		
20	Kliger's Iron agar	OXOID		500gms	1		
21	Methyl red Prokauer media	OXOID		500gms	1		
22	Desoxycholate agar	OXOID		500gms	1		
S/no	Item description	Make/model	Specifications	Units	Quantity	Cost/unit	Total cost
23	Tripple sugar Iron	OXOID		500gms	1		
24	Sabouraud's yeast agar	OXOID		500gms	1		
25	Oxidase strips	OXOID		Pkt(100)	1		
26	bacitracin sensitivity disc	OXOID		pkt(100)	1		
27	optochin sensitivity disc	OXOID		pkt(100)	1		
28	kovac's reagent	OXOID		bottle of 100ml	1		
29	3% hydrogen peroxide	OXOID		bottle of 100ml	1		
30	agarose	OXOID		500gms	1		
31	surgical spirit		5L	5lts	2		
32	tween20			20ml	1		
33	petri dish			pcs	1000		
34	phosphate buffer saline			pcs	10		
35	HIV ab test kits	DETERMINE/UNIGOLD/FIRST RESPONSE	with buffer	1pkt(100)	1		

36	zinc chloride			500gms	5		
37	blood grouping kit(anti A, anti B, anti D)	EUROCLONE		bottle of 10ml	5		
38	Antihuman globulin	EUROCLONE		bottle of 10ml	5		
39	bovine albumin	EUROCLONE		bottle of 10ml	2		
40	cotton wool			500gms	5		
41	Antibacterial sensitivity discs (NH1)			100pcs	1		
42	Antibacterial sensitivity discs(NH2)			100pcs	1		
43	Antibacterial sensitivity discs (NH3)			100pcs	1		
S/no	Item description	Make/model	Specifications	Units	Quantity	Cost/unit	Total cost
44	HAZ TAB (1.8g each)		effervescent	tin(100pcs)	2		
45	Falcon tubes		15ml	pkt	25		
46	falcon tubes		50ml	pkts	25		
47	sodium chloride(analar)			500gms	1		
48	applicator sticks			pkt(500)	1		
49	lab coats	ASTM F1670	white, biohazard specific lab coats	pcs	7		
50	Latex gloves	LOTUS	Powdered(LARGE)	carton(10pkts)	4		
51	latex gloves	LOTUS	powdered(medium)	carton(10pkts)	4		
52	latex gloves	LOTUS	powdered(large)	carton(10)	4		
53	wash bottles		500ml semi rigid polyethylene, goose neck	pcs	30		
54	vacutainer tubes EDTA	BD	purple cap	pkt(100)	10		
55	vacutainer tubes PLAIN	BD	red cap	pkt(100)	10		

56	vacutainer tubesSODIUM CITRATE	BD	blue cap	pkt(100)	3		
57	vacutainer SODIUM FLOURIDE	BD	grey cap	pkt(100)	3		
58	vacutainer needles	BD	gauge23	PKT(48)	20		
59	vacutainer needle holder	BD		pkt(100)	5		
60	5 ML syringes	BD		pkt(100)	4		
61	2ml syringes	BD		pkt(100)	4		
62	10ml syringes	BD		pkt(100)	4		
63	Needles G21	BD		pkt(100)	4		
64	Needles G22	BD		pkt(100)	4		
65	Needles G23	BD		pkt(100)	4		
66	Aluminium foil			roll	5		
67	0.2ml tube racks			pcs	5		
S/No	Item description	Make/model	Specifications	Units	Quantity	Cost/unit	Total cost
68	Staining rack		metallic rods	pcs	5		
69	Multistix	siemens		pkt(100)	3		
70	Non sterile gauze roll			per roll	5		
71	Dust bin (red)		LARGE, pedal bin	pcs	1		
72	Dust bin(yellow)		LARGE, pedal bin	pcs	1		
73	Dust bin(black)		LARGE, pedal bin	pcs	1		
74	Parafilm		LARGE, pedal bin	roll	4		
75	Weigh bowls			pcs	10		
76	Wooden spatula			pkt(100)	4		
77	Lens tissue			Booklet(100)	3		
78	Glucose-6- phosphate	AR		5 UNITS	1		
79	Cryovials		2ml	pcs	300		
80	Plastic urine container		screw cap, 50ml	pcs	500		

							Total	
Equipment								
1	Projector	EPSON H71613	with HDMI port and cable	pcs	2			
2	Laptop	HP	14" - 6th Gen Intel Core i3 – 500GB HDD - 4GB RAM - Free DOS	pcs	2			
3	Refrigerator	Samsung RT67K6541SL	with twin cooling plus, 530L, silver	pcs	1			
4	Power extension cables	Airstar(original)	5 switch	pcs	5			
5	Flash discs	hp(original)	32GB	pcs	4			

S/no	Item description	Make/model	Specifications	Units	Quantity	Cost/unit	Total cost
6	Centrifuge	HETTICH TECHNOLOGIES(hettich 1206)-ROTOFIX 32A	with exchangeable rotors. 32 TUBES,23kg	pc	1		
7	Autoclave	TOMY autoclaves SX-300E	digital, lid interlock mechanism,36litres	pcs	1		
8	Analytical weighing balance		readability to 0.1mg, maximum weight 200g. With quick-Cal internal calibration feature,RS232 port for data output to a computer or printer, digital LED display		1		
Total							
Sub total							

DEPARTMENT OF IT & CS

S/N	Item Description	Specification	Units	Quantity	Estimated Cost	Total Cost
1. Networking Lab						
1	Network Switches	Netgear/cisco 8 x RJ45, 10/100/1000BaseT	pcs	20		
2	Power Extension cables	T&J Surge Protected 240V	pcs	30		
3	Networking Crimping Tool	AUCAS Multifunction RJ11 RJ45 Crimping	pcs	30		

4	Network Cable Tester	NF-388 CableTester RJ45 RJ11 USB,Coaxial	pcs	20		
5	RJ45 Connectors	Transparent Rj45 plastic connector-Aico	box	8		
6	Cat6 Networking Cables	TpLink Cat6 - White	box/roll	2		
7	Wireless Routers	Cisco RV110W Wireless-N VPN Firewall.Cisco RV220W Wireless Network Security Firewall.Cisco-Linksys WRT110 RangePlus Wireless Router, Linksys E2100L SOHO WiFi router	pcs	4		

S/N	Item Description	Specification	Units	Quantity	Estimated Cost	Total Cost
2. Computer Forensics						
8	Extrenal DVD Writer	External Plextor CDRW,USB 2.0 Power Block Included, with firewire	pcs	3		
9	Extrenal Harddisk	Western Digital 1TB	pcs	2		
10	USB SATA IDE interface	Unitek-USB To IDE/SATA Adapter	pcs	4		
11	Dedicated Server pc/Wstation	Hp proliant workistation or network server	pcs	1		
12	Lcd Projector	Lcd digital 1800 Lumens-SONY, with visualizer arm/computer visual compatible	pcs	6		
13	Electronic Boards	84" 4K UltraHD G-Vision Large Format Touch Screen Smart Board Monitor Display	pcs	2		
14	Pc Hardware Diagnostic Kit	INLAND 4INL05206 Pro Tool Kit	pcs	2		
15	ARM Development Kit	ARM 7 DEVELOPMENT KIT - LPC2148-ARM7TMDI based Microcontroller, 32+8K RAM, with Display	pcs	20		
16	Keil µVision3 IDE	KEIL BOARD MCB2100 with software	pcs	20		
					Total	

MECHANICAL ENGINEERING DEPARTMENT TEACHING MATERIALS						
S/No	Description	Specs	Units	Unit Cost	Tot. Qty	Total
1	Fire Fighting Cylinder	Blankets			2	
2	Fire Fighting Cylinder	Powder			2	
3	Fire Fighting Cylinder	Gas-Carbon Dioxide			2	
4	First Aid Kits	Size	NO		3	
5	Wire Brush		NO		10	
6	Brush (With Sisal Bristles)		NO		10	
7	Fresh Air Vent Pipe	10metres -4 Inch Dia	PCS		1	
8	Paraffin		LTS		20	
9	Penetrating Oil (Spray Type) Large	Wd-40	TINS		6	
S/No	Description	Specs	Units	Unit Cost	Tot. Qty	Total
10	Thread Cutting Oil	Num 32	LTS		12	
11	Jet Engine Fuel		LITRES		40	
12	Lubrication Oil	W20	LITRES		20	
13	Lubricating Oil (Shell)	Sae30	LITRES		20	
14	Lubrication Oil	Sae 20 -20	LITRES		20	
15	Diesel		LITRES		40	
16	Gasoline	Super	LTS		60	
17	Grease (Shell)		KG		10	
18	Welding Gas (Acetyline ,Oxygen)	Cylinder	SET		1	
19	Brazing Wire	As Per Machine	PCS		20	
20	Gas Welding Rods	As Per Machine	PCS		20	
21	Tig Welding Rods	8.5 Mm(As Per Machine)	SETS		8	
22	Mig Welding Wire	8.5 Mm(As Per Machine)	ROLLS		10	
23	Detergents		LITRES		20	
24	Arc Welding Rods (Weldrods)	Dia. 2.5mm	5KG PKT		4	
25	Lathe Coolant	Standard	LITRES		100	
26	Lathe Machine	Hss 1/2",	PCS		10	

27	Lathe Machine	Hss 1/4",	PCS		10	
28	Lathe Machine	Knurling Tools	PCS		1	
29	Lathe Machine	Parting (Grooving Tools)	PCS		3	
30	Radial Drilling Machine	Bits Hss Size 13 And Above	SETS		3	
31	Chop Saw Blade Disk	Cutting Blade	SET		1	
32	Rectangular Bar	1 1/2 Inchies	LENGTH		1	
33	Brass Bar	Diameter 50mm	PCS		3	
34	Insulation Tape (Black)		DOZ		10	
35	Rough Half Round Files	Sunflower(Bastard)	LENGTH		30	
36	Rough Flat File	Sunflower(Bastard)	LENGTH		30	
37	Round Bar {Solid }	Diameter 40mm	20 FT LENGTH		1	
38	Cotton Waste		KG		90	
TOTAL						

S/No	Description	Specs	Units	Unit Cost	Tot. Qty	Grand Total
Mechanical Engineering Department Teaching Equipment						
39	Carbon Dioxide Cylinder And Regulator	Set	CYL		1	
40	Argon Cylinder And A Regulator	Set	CYL		2	
41	Milling Machine	End Mills	PCS		2	
42	Milling Machine	Slotters	PCS		2	
43	Milling Machine	Side Mills	PCS		2	
44	Milling Machine	Milling Cutters	PCS		2	
45	Desktops	Core I 3 Harddisk 500gb 4gb Ram	PCS		4	
46	Projectors	Benq Mh741	PCS		1	
47	Water Distiller Machine	1 Litre Per Min	PCS		1	
48	Ups(Power Backup)	1000watts Apc	PCS		6	
49	Vices-Milling Machines	Chester U40 Milling Machine	PCS		1	
50	Indexing Head And Holding Complete	Standard Indexing Plate Chester U40 Milling Machine	PCS		3	

51	Soldering Gun -Electrical	Standard	PCS		5	
52	Power Electrical Blower	Standard 1200watts	PCS		2	
53	Engineers Pliers	Medium	Pc		10	
54	Spark Lighters	Standard	PCS		2	
55	Transparent Water Horse Pipe	Diameter 15mm	ROLL		1	
56	Field Electrical Extension Cable In Reel	Metres	REEL		1	
57	Power Extension Cable	High Standard	PCS		5	
58	Wind Power Voltage Regulator/Convertor	N/B Superwind Crm12v.1500watt	NO		1	
59	Ball Pein Hammer 1/2 Kg	Heyco	PC		4	
61	Radius Gauge And Filler Gauge		SETS		2	
63	Thread Gauge		SETS		2	
64	Height Gauge-Surface And Angle Plate		SET		1	
68	Portable Handdrill-Electrical	Black Decker Heavy Duty			2	
69	Grinder(Angle)	Black Decker Heavy Duty			2	
70	Tin Snips-Asorted	High Standard	PCS		5	
S/No	Description	Specs	Units	Unit Cost	Tot. Qty	Grand Total
71	Brass Mallet	High Standard	PCS		6	
72	Wood Mallet	High Standard	PCS		6	
73	Rivet Gun		PCS		2	
74	Water Resoivor Tank		LITRES-200		1	
					TOTAL	
	GRAND TOTAL					

DEPARTMENT OF AGRICULTURE - LABORATORY EQUIPMENTS

S/No	Item Description	Specifications	Units	Qty	Estimated Cost	Total Cost
1	Plant growth Chambers (The Fitotron® SGC 120 Plant Growth Chamber or Meditech MTAC40, UK)	3.4 3.4m2 volume, Diurnal growth chambers with dual-program selector dials for day and night time simulation, Temperature control Unit, ON/OFF illumination cycle. Gentle and continous chamber air circulation, LED Display of Set point and Chamber Temperature, 240/250 volts	Unit	1		

2	BioSafety Cabinet (Filter-H14 HEPA EN 1822, UK)	Class II, EN certified, Filter-H14 HEPA EN 1822, Filter efficiency 99.995% at 0.3 micrometer particle size, slash opening 25cm; 77.3 max, interior width 0.9M, 4 access ports, power 170W, Noise level 58dbA, visual and audible alarms, UV lamp, stainless steel working area.	Unit	1		
2	Pfeuffer GmbH Granolyzer HL, Germany. Grain analyzer / moisture / protein /Benchtop Granolyser (Germany)	Benchtop Granolyzer. NIR diode array technology, more than 1000 single scans per sample, wavelength range from 950 to 1550 nm with a high resolution, coloured 8" LCD touch screen display, Languages displayed English, Computer and Printer Interfaced	pcs	1		
3	Firmness Tester, Shimadzu, Japan	With support stand, Fruit placement platform, Display: LCD. 5 digits, 10 mm (0.4") digit size, Peak hold : Will freeze the display value of the Peak load, Measure Capacity : 20.00 Kg/44.10 LB/196.10 Newton, Min. Display : 0.01 Kg/0.01 LB/0.05 Newton, Accuracy : (0.5%+2 digits), within 23°C, with accessories, Plungers and Carrying case, computer and Printer Interfaced	pcs	1		
S/No	Item Description	Specifications	Units	Qty	Estimated Cost	Total Cost
4	Autoclave (Hirayama HVE-50 Top Load Sterilizer) and accessories	Automatic Sterilizer, Top Load (Vertical), Dimensions:20" x 21" x 41" (510mm x 530mm x 1040mm); Volume 13 Gal/50 L	pcs	1		
5	Dryer DZF-6020S (vacuum drying oven lab machine 0.7 FT Laboratory Vacuum Drying Oven)	Drying Oven DZF-6020S Voltage: 220/110V 50/60Hz Power(W): 900w Dimension (L*W*H): 450*635*465(mm) Weight: 52.5kg	pcs	1		
6	Dry Sterilizer	Automatic Dry Heat Digital Electric 3-Drawer Sterilizer, Max temp. 160° C at 60 minutes, Three trays	pcs	1		

7	Chlorophyll Meter, Minolta SPAD 502, Japan	Chlorophyll Meter, Silicon semiconductor photodiode, Within ± 1.0 SPAD units (for SPAD value between 0 and 50 under normal temperature), Within ± 0.3 SPAD units (for SPAD value between 0 and 50), Within ± 0.5 SPAD units (for SPAD value between 0 and 50), 0-50°C	pcs	1		
8	Incubator	Panasonic MCO-5M-PE Automatic Air Jacket Multi-Gas Incubator, Japan	pcs	1		
9	Centrifuge (Hitachi Koki himac CR22N High-Speed Refrigerated Centrifuge)	Hitachi Koki himac CR22N High-Speed Refrigerated Centrifuge; Inverter Refrigeration System (standard rotors maintained at 4°C), Automatic Rotor Identification and Rotor Cover Detector, Caoacity to separate multiple research applications involving DNA, RNA, viruses, proteins.	pcs	1		
10	Deep freezer	Capacity 340L, Light power 10w, Power supply 220/50Hz foaming agent c5H10 net weight 51kgs. Tempareture rage-20 degrees celsius	pcs	1		

S/No	Item Description	Specifications	Units	Qty	Estimated Cost	Total Cost
11	Animal Anatomy Dissection Unit	Table stainless steel, with hand crank, adjustable height, with instrument tray, stainless steel, with fluid drain system, features 218cm length, 96cm height, 81cm width, stainless dissection instruments.	pcs	6		
12	Wind vane	Range: direction 360 degrees, continuous rotation, sensitivity: apprx. 1m/s (2.2 mph), dimensions 8.3" diameter 27cm	set	1		
13	Wind sock	White, yellow or orange, with support post 10 feet high	set	1		
14	Anemometer	3 cups, 1m/s t0 96m/s (2.2 mph to 215 mph	set	1		

15	Rain Gauge (ISI 5225/1969)	ISI 5225/1969; Collectors capacity: 200 cm ² area: Nominal capacity 2 liters and 4 liters	set	1		
16	Rectal thermometer	digital	No	2		
18	Pipettes	Eppendorf Starter Packs 0.1–2.5 µL, 0.5–10 µL, 2–20 µL, 10–100 µL, 20–200 µL, 100–1,000 µL), 1 full box of Eppendorf pipette tips for each pipette volume	Pack	1		
	Total					

LABORATORY CHEMICALS AND REAGENTS

S/No	Item Description	Specifications	Units	Qty	Estimated Cost	Total Cost
1	Ethrel/Ethapon	Liquid	L	12		
2	1- Methylcyclopropene (1-MCP) powder	Powder	100g	1		
3	Cytokinins	Powder	50g	1		
4	Auxins (IAA, NAA, IBP)	Powder	50g	1		
5	Gibberellic Acids	Powder	50g	1		
S/No	Item Description	Specifications	Units	Qty	Estimated Cost	Total Cost
6	Potatal Dextrose Agar (PDA)	Powder, Analytical Microbiology Standard	500g	3		
7	Nutrient Agar	Powder, Analytical Microbiology Standard, pH 6.8	500g	3		
8	Plate Count Agar	Powder, Analytical Microbiology Standard, pH 7.8 (before autoclaving)	500g	3		
9	Nutrient agar	Powder, Analytical Microbiology, pH 6.8	500g	3		
10	Sabouraud Dextrose Agar (SDA)	Powder; Analytical Microbiology	500g	3		
11	Nash-Snyder (media)	Powder, Analytical Microbiology	500g	5		
12	V-8 Media	Powder, Analytical Microbiology, Approved for lab use	500g	5		

13	CTAB (Cetyltrimethylammonium Bromide)	Purity: 98% Appearance: White to off-white powder	gms	5		
14	Tetrazolium chloride (Kelmans TTC Agar)	≥85% (AT), Liquid, molar mass 334.8g/mol	100ml	3		
15	Dextrose	Powder (Analytical Standard)	100g	5		
16	Sucrose	powder, molar mass 342.2965g/mol	500 gms	5		
17	Glucose	powder, molar mass 180.1559g/mol	500 gms	5		
18	Peptone Agar	AR	500 gms	3		
19	Dodine (Dodecylguanidine acetate/N-Dodecylguanidine acetate)	Powder; Analytical Standard	50g	2		
20	Sodium hypochlorite	AR, 6%, molar mass 74.44g/mol	2 Liters	5		
21	Potassium hydroxide	powder, molar mass 56.1056g/mol	500 gms	3		
22	Casamino acid	powder	gms	5		
23	Sodium Hydroxide	Reagent grade, ≥98%, pellets (anhydrous)	500g	3		
24	Calcium carbonate	Powder (Analytical Standard)	500 g	3		
25	Ethanol	Liquid; analytical standard	3 Litres	3		
26	Hexine	Liquid; analytical standard	3 Litres	3		
27	Acetone	Liquid; analytical standard	L	4		
28	Dimethyl sulfoxide	DMSO	500mls	1		
29	Ethyl alcohol	liquid	liters	5		
30	Crystal violet	Powder (analytical standard)	25g	1		
31	Naphthalene acid	liquid	500ml	1		
32	Indolepropionic acid	liquid	500ml	1		
33	Hydrogen peroxide	Liquid 30V	1 litre	3		

34	vacutainers	10ml EDTA vacuum rubber sealed sterile plastic tubes(purple)	pcs	800		
35	Surgical spirit(litre)	100% isopropyl alcohol alcohol	5ltrs			
36	Formalin	For laboratory use and disinfection	5ltrs			
37	Tincture of Iodine(litre)	7% iodine	5ltrs			
38	Ultraxide(5litres)	Zagro 21.p4.9841	5ltrs			
39	Giemsa Stain	powder	25g	1		
40	Iodine	liquid	100 ml	3		
41	Methyl Blue	powder	25g	1		
42	Macconkey Agar	powder	500g	1		
43	Safranaine	powder	25g	1		
44	Blood Infusion Agar	powder	500g	1		
	TOTAL					

BASIC TOOLS, APPARATUS AND MATERIALS

S/No	Item Description	Specifications	Units	Qty	Estimated Cost	Total Cost
1	Disbudding iron	hot metal disbudding iron with a wooden handle	No	4		
2	Dehorning wire	iron	1 roll	1		
3	Casting rope	1/2 inch sisal rope six meters	PCS	5		
4	Bolus gun	mettalic	NO.	2		
5	Animal Parasitological slides set	Permanent Mounted slides Prepared Mounted slides	pcs	50		
6	Animal Pathological slides set	Permanent Prepared Mounted slides for specific lesions	pcs	50		

7	Permanent plant-parasitic set	Permanent Prepared Mounted nematodes slides	pcs	20		
8	Permanent Entomopathogenic set	Permanent Prepared Mounted nematodes slides	pcs	20		
9	Scarpel	stainless steel, sterile	packets	4		
10	Examination gloves	Disposable, made of natural rubber latex	dozen	10		
11	Latex gloves	examination latex gloves medium size	pcs	200		
12	Armlength gloves(100pcs)	PAL-VET disposable insemination-examination gloves	pcs	400		
13	Sterilized Filter Paper	Filter paper	packets	10		
14	Universal bottles big	Bijou bottles capacity 28ml	pcs	30		
15	Cryo vials (2ml)greiner(500)	greiner 2ml sterile small plastic tubes for holding blood serum	pcs	500		
16	Masking tape(small size)	paper adhesive masking tape 15mm plain without colour	pcs	10		
17	Disposable syringes(20ml)	single use 20 ml plastic syringes	pcs	100		
18	Disposable syringes(10ml)	single use 10 ml plastic syringes	pcs	100		
S/No	Item Description	Specifications	Units	Qty	Estimated Cost	Total Cost
19	Automatic syringes -50cc	Germany make automatic revolver vaccination syringe volume 50cubic centimetres	Pcs	2		
20	Automatic syringes-30cc	Germany make automatic revolver vaccination syringe volume 30cubic centimetres	Pcs	2		
21	Automatic syringes-10cc	Germany make automatic revolver animal vaccination syringe volume 10 cubic centimetres	Pcs	2		
22	Disposable needles(gauge18x1.5")	single use plastic base needles gauge 18x1.5"	pcs	100		
23	disposable needles(gauge19x1.5")	single use plastic base needles gauge 18x1.5"	pcs	100		
24	sterile swabs	Disposable sterile cotton swab for surgical use	pcs	50		

25	Muzzle for dogs non stitched	leather non stitched dog muzzle	pcs	2		
26	Cotton rolls(large size)		rolls	5		
27	Surgical blades size23	stainless steel surgical blades size 23	pkts	10		
28	Surgical blade holders no.4	for surgical blade sizes 20,21,22,23	pkts	10		
29	Hypodermic needles gauge 16x1/2inch	reusable germany make stainless steel animal vaccination needles gauge 16x1.5"	dozens	24		
30	BD vacutainers-PLAIN(10ml	10ml plain vacuum rubber sealed sterile plastic tubes(Red)	pcs	800		
31	Microscope slides	clear glass ground edges 25.4x76.2mm (1"x3")1mm-1.2mm thick	pcs	100		
32	Microscope slide coverslips	microscope glass cover secure slip size (12mmx12mm)	pcs	100		
33	Vacutainer needles(gauge 18)	BD disposable blood collection needles gauge 18 with back rubber(eclipse)	boxes (100pcs each)	8		
34	Mayo needle holders 10'	for holding surgical needles(stainless steel)	Pcs	3		
35	Vacutainer tube holders(plastic)	BD vacutainer holder for holding blood collection needles	pcs	10		
36	Nose mask	Disposable respirator dust mask(DMP2-NV2)	Pcs	100		
S/No	Item Description	Specifications	Units	Qty	Estimated Cost	Total Cost
37	Animal markers(assorted colours)	paper wrapped red, green, blue colour animal markers Germany make	pcs	5		
38	Burdizzo small size 9"	Nairobi vet centre	pcs	2		
39	Solo 425 Knapsack sprayer(15 ltr)	manual Germany make sprayer	Unit	2		
40	Cool boxes(small size)	3.5.ltr capacity with locking clips	Pcs	3		
41	Sisal ropes(from local market)	Sisal ropes(from local market)	10M	5		
42	Mastitis testing plastic kit	With liquid reagent (CMT)	Set	1		
43	Disbudding iron	Cylindrical end with wooden handle	Pcs	2		

44	Halter	Halter	Pcs	5		
45	Gumboots (Bata shoes)	6 pairs size no.7,7,8,8,8,8	Pairs	10		
46	Dust coats (Nairobi vet centre)	12 pcs size XL	Pcs	12		
47	Overalls	Navy blue colour) Nairobi vet center 6pcs size XL	Pcs	6		
48	Weight approximation tape	250cm long with scale in cm two different tables; girth and corresponding slaughtering weight and Live weight of fat stock and normal stock	Pcs	4		
49	Medical First aid kit	complete with equipment for medical first aid	Set	1		
50	Surgery kit	complete with surgical equipment for veterinary use	Set	1		
51	Folk Jembe	Crocodile (Medium), With Wooden Handle	PCS	5		
52	Jembe	Crocodile (Medium), With Wooden Handle	PCS	5		
53	Fruit Tree Pruning Shears	Stainless Steel (Japan)	PCS	5		
54	Panga	360 type	PCS	5		
55	Shovel	With a Metallic handle	PCS	5		
56	Rake	With a Metallic handle	PCS	5		
					Sub Total	

DEMO FARM SEEDS, CHEMICALS AND FERTILIZERS

S/No	Item Description	Specifications	Units	Qty	Estimated Cost	Total Cost
1	Maize	DEKAP (Arids and Semi Arid)	2 kg Pkt	5		
2	Tomato	Corazon F1	1000 Seed Pkt	3		
3	Tomato	Anna F1	1000 Seed Pkt	2		
4	Beans	GLP 92 (MWITEMANIA)	Kg	10		
5	Cauliflower	Danish giant	50g	1		

6	Kale	1000 headed	50g	1		
7	Carrot	Nantes	100g	1		
8	Melon	Sukari F1	50g	4		
9	Coriander	Coriander	50g	1		
10	Hot Chilly	Fresno	50g	1		
11	Leek	Swiss Bluretia	100g	1		
12	Bulb Onion	Red Creole	100g	1		
13	Hot Pepper	Long red cayenne	100g	1		
14	Sweet Pepper	California wonder	50g	1		
15	Lettuce	Great lakes	50g	3		
16	Finger Millet	P 224	Kg	5		
17	Sorghum	SERENA	Kg	5		
18	Desmodium seeds	green leaf and silver leaf	kg	2		
19	Lucerne	Lucerne	kg	5		
20	Dilichos	Rongai	kg	5		
	Sub Total					

DEMO FARM CHEMICALS

S/No	Item Description	Specifications	Units	Qty	Estimated Cost	Total Cost
1	Milthane	Fungicide	Kg	2		
2	Ridomyl	Fungicide	Kg	2		
3	Copper Oxychloride	Fungicide	Kg	2		
4	Milraz	Fungicide	500gms	2		

5	Rodadin	Fungicide	Lts	2		
6	Malathion	Insecticide	Lts	2		
7	Metasystox	Insecticide	Lts	2		
8	Omite	Miticide	lts	2		
					Sub Total	
DEMO FARM FERTILIZERS						
1	C.A.N Fertilizer	Mineral Fertilizer	50kg bag	1		
2	D.A.P Fertilizer	Mineral Fertilizer	50kg bag	1		
3	N.P.K.(17:17:17)	Mineral Fertilizer	50kg bag	1		
4	T.S.P Fertilizer	Mineral Fertilizer	50kg bag	1		
	Sub Total					
					Sub total	
CONSOLIDATED TOTAL						

SECTION VI: MANADATORY REQUIREMENTS

a. Preliminary Evaluation Stage

1. NB// Paginate all the pages in the Tender document- mandatory
2. Certificate of Incorporation/Registration
3. A valid Tax Compliance Certificate
4. I-tax pin registration certificate
5. Site visit certificate
6. A bid bond of 2% of the tender sum (must be valid for a minimum of 60 days from tender opening day)
7. Duly filled form of tender
8. Manufacturer authorization letter where applicable
9. Duly filled Business questionnaire
10. Product warranty where applicable not less than 1 year

b. Technical Evaluation Stage

NO	REQUIREMENT	MARKS
1	Supplier availability Name and physical address with contact person and telephone number	5
2	A duly countersigned letter by key management staff/ Director undertaking to perform the contract if awarded	10
3	Delivery period Within 4 wks – 15mks Within 6 wks – 10mks Over 8 wks – 5mks	15
4	Evidence of successfully completed contracts of similar nature within the last three (3) years with institutions of higher learning (certificate of completion/ award letters/LPO/LSO) to be enclosed. Three similar contracts – 25mks Two similar contracts – 15mks One similar contracts – 10mks	25
5	Financial Stability Value of business the firm has handled at once (Attach evidence) Less than; ksh.2,000,000.00 10 points Ksh. 2,000.00 -10,000,000.00 15 points Above 10 million 25 points	25
6	Audited accounts for the last 3 years for financial evaluation stage	20

The minimum score to proceed to the financial evaluation stage is 70 marks. The bidders will be ranked in terms of the technical score from the highest to the lowest.

c. Financial Evaluation Stage

The audited accounts for the latest 3 years will be evaluated. The following will be used to measure the financial strength;

1. Positive Working Capital
2. Net profit/loss
3. Firms Turnover

The firms will be ranked in terms of the working capital.

d. Price Comparison Stage

The prices offered by firms that will qualify to this stage will be considered and the lowest bidder will be recommended for award. In case two or more bidders offer the same price the highest ranked bidder on technical score will be awarded.

SECTION VII - PRICE SCHEDULE FOR GOODS

Name of tenderer _____ Tender Number _____ Page _____ of _____

Signature of tenderer _____

Note: In case of discrepancy between unit price and total, the unit price shall prevail.

SECTION VIII - STANDARD FORMS

Notes on the sample Forms

1. Form of Tender - The form of tender must be completed by the tenderer and submitted with the tender documents. It must also be duly signed by duly authorized representatives of the tenderer.
2. Confidential Business Questionnaire Form - This form must be completed by the tenderer and submitted with the tender documents.
3. Tender Security Form - When required by the tender documents the tenderer shall provide the tender security either in the form included herein or in another format acceptable to the procuring entity.

4. Contract Form - The Contract Form shall not be completed by the tenderer at the time of submitting the tender. The Contract Form shall be completed after contract award and should incorporate the accepted contract price.

5. Performance Security Form - The performance security form should not be completed by the tenderers at the time of tender preparation. Only the successful tenderer will be required to provide performance security in the form provided herein or in another form acceptable to the procuring entity.

6. Manufacturers Authorization Form - When required by the tender documents this form must be completed and submitted with the tender documents. This form will be completed by the manufacturer of the goods where the tenderer is an agent.

8.1 FORM OF TENDER

Date _____
Tender No. _____

To: _____

[Meru University of Science and Technology P.O BOX 972-60200-MERU]

Gentlemen and/or Ladies:

1. Having examined the tender documents including Addenda Nos. *[Insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply deliver, install and commission (..... *(Insert equipment description)* in conformity with the said tender documents for the sum of *(total tender amount in words and figures)* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender.

2. We undertake, if our Tender is accepted, to deliver install and commission the equipment in accordance with the delivery schedule specified in the Schedule of Requirements.

3. If our Tender is accepted, we will obtain the guarantee of a bank in a sum of equivalent to _____ percent of the Contract Price for the due performance of the Contract, in the form prescribed by *(Procuring entity)*.

4. We agree to abide by this Tender for a period of [] days from the date fixed for tender opening of the Instructions to tenderers, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

5. This Tender, together with your written acceptance thereof and your notification of award, shall constitute a Contract, between us. Subject to signing of the Contract by the parties.

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

Dated this _____ day of _____ 20 _____

[signature]

[in the capacity of]

Duly authorized to sign tender for an on behalf of _____

8.2 CONFIDENTIAL BUSINESS QUESTIONNAIRE FORM

You are requested to give the particulars indicated in Part 1 and either Part 2(a), 2(b) or 2 (c) whichever applied to your type of business
You are advised that it is a serious offence to give false information on this form

Part 1 – General:

Business Name

.....

Location of business premises.

.....

Plot No..... Street/Road

.....

Postal Address Tel No. Fax E mail

.....

Nature of Business

.....

Registration Certificate No.

.....

Maximum value of business which you can handle at any one 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 Given details of partners as follows:

	Name Details Shares 1. 2. 3. 4. Nationality Citizenship
	Part 2 (c) – Registered Company Private or Public State the nominal and issued capital of company- Nominal Kshs. Issued Kshs. Given details of all directors as follows Name Details Shares 1..... 2. 3. 4. 5 Nationality Citizenship
Date Signature of Candidate	

If a Kenya Citizen, indicate under “Citizenship Details” whether by Birth, Naturalization or registration.

Kindly fill the table below with Company directors

s/no	Name	Gender	Age	Youth	Women	PWD

8.3 TENDER SECURITY FORM

Whereas [*Name of the tenderer*]
(Hereinafter called “the tenderer”) has submitted its tender dated [*Date of submission of tender*] for the supply, installation and commissioning of [*Name and/or description of the equipment*] (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 [*Meru University of Science & Technology*] (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.

[*Signature of the bank*] _____
(Amend accordingly if provided by Insurance Company)

8.4 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 Tender Form and the Price Schedule submitted by the tenderer
 - (b) The Schedule of Requirements
 - (c) The Technical Specifications
 - (d) The General Conditions of Contract
 - (e) The Special Conditions of contract; and
 - (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 tender hereby covenants with the Procuring entity to provide the goods
and to remedy defects therein in conformity in all respects with the provisions of the 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 hereto have caused this Agreement to be executed in accordance
with their respective laws the day and year first above written.

Signed, sealed, delivered by _____ the _____ (for the Procuring entity

Signed, sealed, delivered by _____ the _____ (for the tenderer in the presence of _

(Amend accordingly if provided by Insurance Company)

8.5 PERFORMANCE SECURITY FORM

To
[Name of procuring entity]

WHEREAS [Name of tenderer] (Hereinafter called “the tenderer”) has undertaken, in pursuance of Contract No. _____ [Reference number of the contract] dated _____ 20 _____ to _____ supply [Description of goods] (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

[Name of bank or financial institution]

[Address]

[Date]

8.7 MANUFACTURER'S AUTHORIZATION FORM

To Meru University of Science and Technology

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 a person competent.