



INVITATION TO TENDER (ITT)

FOR

TENDER TITLE: SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, TRAINING AND AFTER-SALES SERVICES FOR LABORATORY EQUIPMENT FOR THE UGANDA NATIONAL BUREAU OF STANDARDS (MALABA OFFICE)

TENDER REF NO:

- LOT 1: CHEMISTRY EQUIPMENT - PRQ20240544
- LOT 2: MICROBIOLOGY EQUIPMENT - PRQ20240543
- LOT 3: GLASSWARE - PRQ20240618
- LOT 4: PORTABLE GC/MS - PRQ20240570

ISSUE DATE: 06 NOVEMBER 2024

TENDER CLOSING DATE: 28 NOVEMBER 2024 on or before (11:00 am EAT Time)

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SECTION I - INVITATION TO TENDER

TENDER NAME: SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, TRAINING AND AFTER-SALES SERVICES FOR LABORATORY EQUIPMENT FOR THE UGANDA NATIONAL BUREAU OF STANDARDS (MALABA OFFICE)

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DATE: 06 NOVEMBER 2024

- 1.1 Trademark Africa invites bids from eligible bidders for supply of **SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, TRAINING AND AFTER-SALES SERVICES FOR LABORATORY EQUIPMENT FOR THE UGANDA NATIONAL BUREAU OF STANDARDS (MALABA OFFICE)**
- 1.2 The set of tender documents may be obtained by interested and qualified firms/consortiums from TMA website <https://www.trademarkafrica.com/procurement/> offers/bids quoting the above Tender **Title** and **Number** should be emailed to procurement@trademarkafrica.com, by **Thursday 28 NOVEMBER 2024 on or before (11:00 am EAT Time)**, email attachments must be **10 MBS** or less.
- 1.3 Prices quoted should be inclusive of all taxes as well as delivery cost and shall remain valid for (120) days from the closing date of the tender. The currency of tender is United States Dollar (USD\$).
- 1.4 The delivery terms of all equipment shall be **Delivered Duty Paid - DDP at Uganda National Bureau of Standards (UNBS)**. Bidders **MUST** include taxes in their offer, and this should be clearly and separately indicated.
- 1.5 The supplier shall specify the number of days from signature of the contract by both parties in which supply, delivery, installation, commissioning, and training will be executed.
- 1.6 The supplies must comply fully with the technical specifications provided in this tender document.
- 1.7 Bid check list – bidders are advised to use the checklist on the next page to ensure that the submitted bid has all the requirements.

Dear Supplier,

Please ensure that this checklist appears on top of your bid submission. You are required to confirm the inclusion or otherwise of each document by ticking the appropriate box and signing at the end of this form. NOTE: Any box checked “No” or document not included shall result in automatic disqualification of your bid, so it is in your interest to ensure that all documents are present.

STAGE A – Preliminary Evaluation

The following documents are mandatory for a bid to pass the preliminary stage. Please tick ‘Yes’ or ‘No’ as appropriate		Yes	No	If yes, confirm the page number
1	Confirm that each page of your bid document has been numbered	<input type="checkbox"/>	<input type="checkbox"/>	N/A
2	Is the bid submitted in the format stipulated in this the tender document	<input type="checkbox"/>	<input type="checkbox"/>	N/A
3	Joint Venture Agreement (for those submitting as joint venture)	<input type="checkbox"/>	<input type="checkbox"/>	
4	Dealership authorization (for distributors)	<input type="checkbox"/>	<input type="checkbox"/>	

Name of Entity Bidding:Name of Person Signing:

Designation of Person Signing: Date:

SECTION II - INSTRUCTIONS TO SUPPLIERS

2.1 Eligible Suppliers

2.1.1 This Invitation for Tenders is open to all eligible suppliers as described in the Invitation to Tender.

2.2 **Authorized Geographic Code:** The geographic code for the procurement of the services under this assignment is 937, which is the United States, the recipient country, and developing countries. Any submission received from countries not mentioned in code 937, will be disqualified. The list of eligible countries to participate in this tender can be accessed via <https://www.usaid.gov/sites/default/files/documents/1876/310maa.pdf>

2.2.1 TMA and UNBS employees, committee members, board members and their relatives are not eligible to participate in the tender.

2.2.2 Suppliers shall provide the qualification information statement that they (including all members of a joint venture and subcontractors) are 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 TMA on behalf of UNBS 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.

2.2 Eligible Goods

2.2.1 All goods 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 goods are mined, grown, or produced. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components

2.2.3 TMA will not accept any goods or services procured from prohibited countries listed by the Office of Foreign Assets Control (OFAC) as sanctioned countries. OFAC sanctioned countries may be searched within the System for Award Management (SAM) at www.SAM.gov. The current list of countries under comprehensive sanctions include Cuba, Iran, North Korea, Sudan, and Syria. Goods may not transit through or be assembled in comprehensive sanctioned origin or nationality countries, nor can the vendor be owned or controlled by a prohibited country.

2.2.4 By submitting a proposal in response to this ITT, Offerors confirm that they are not violating the Source and Nationality requirements of the goods or services being offered and that the goods and services comply with the Geographic Code and the exclusions for prohibited countries outlined above.

2.2.5 Prohibited Technology

Bidders MUST NOT provide any goods and/or services that utilize telecommunications and video surveillance products from the following companies: Huawei Technologies Company, ZTE Corporation, Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company, or any subsidiary or affiliate thereof, in compliance with FAR 52.204-25.

2.3 **Cost of Tendering**

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

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 Suppliers:

- (i) Invitation to Tender
- (ii) Instructions to suppliers
- (iii) General Conditions of Contract
- (iv) Special Conditions of Contract
- (v) Technical Specifications
- (vi) Tender Form and Price Schedules
- (vii) Manufacturer's Authorization Form

2.4.2 The Supplier 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 may result in the rejection of the tender.

2.5 **Clarification of Documents**

2.5.1 A prospective Supplier requiring any clarification of the tender document may notify the TMA by email at the address procurement@trademarkafrica.com. TMA will aim to respond in writing to any request for clarification of the tender documents which it receives not later than seven (7) working days prior to the deadline for the submission of tenders.

2.5.2 The TMA shall reply to any clarifications sought by the Supplier within **3 working days** of receiving the request to enable the Supplier 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, TMA, for any reason, whether at its own initiative or in response to a clarification requested by a prospective supplier, may modify the tender documents by amendment and update the information on the website. Bidders are therefore advised to keep checking TMA's website for any development regarding this tender.

2.6.2 In order to allow prospective suppliers reasonable time in which to take the amendment into account in preparing their tenders, TMA, 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 supplier, as well as all correspondence and documents relating to the tender exchange by the supplier and TMA, shall be written in **English** language only.

2.8 **Documents Comprising of Tender**

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

Technical information

- a) Bid check list.
- b) The bid submission sheet and the applicable schedules
- c) Written confirmation authorizing the signatory of the bid to commit the bidder.
- d) Documentary evidence establishing the bidder's eligibility to bid
- e) Documentary evidence establishing that the supplies and related services to be supplied by the bidder are of eligible origin.
- f) Documentary evidence established in accordance with paragraph 2.2.1 that the goods and ancillary services to be supplied by the supplier are eligible goods and services and conform to the tender documents.
- g) Experience in executing similar contracts.
- h) Delivery schedule
- i) Documentary evidence establishing the bidder's qualifications to perform the contract if its bid accepted.
- j) Any other documents that provides your technical capability to execute the contract.

2.9 **Prohibited Technology**

Bidders **MUST NOT** provide any goods and/or services that utilize telecommunications and video surveillance products from the following companies: Huawei Technologies Company, ZTE Corporation, Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company, or any subsidiary or affiliate thereof, in compliance with FAR 52.204-25.

Financial information

- a) Tender Form and a Price Schedule
- b) A brief description of the supplies and related services offered
- c) Total bid price
- d) Any discounts offered and the methodology of their application
- e) Period of validity of the bid
- f) A commitment to adhere to the code of ethics (signed and stamped code of ethics)
- g) A declaration that the bidder including all parties comprising the bidder, is not participating, as a bidder in more than one bid in this bidding process

The **technical** and **financial** proposals will be submitted as two separate documents in PDF format and the maximum to enable Technical and Financial bids to be evaluated independently. **Please do not include any financial/price information alongside your technical bid.** Inclusion of any bid price information **SHALL** lead to bid rejection.

The Technical and Financial proposal **MUST be in PDF and password protected.** **Late tenders will not be accepted in any circumstance.** No special pleadings will be accepted. Faxed and hard copy tenders will not be accepted.

2.9 Tender Forms

2.9.1 The supplier shall complete the appropriate Price Schedule furnished in the tender documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.

2.10 Tender Prices

2.10.1 The supplier 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 the entity.

2.10.3 Prices quoted by the supplier 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 (120) days from the date of opening of the tender.

2.11 Tender Currencies

2.11.1 Prices shall be quoted **in US Dollars (refer to Clause 1.3 above).**

2.12 Suppliers Eligibility and Qualifications

- 2.12.1 The supplier shall furnish, as part of its tender, documents establishing the Suppliers eligibility to tender or supply and its qualifications to perform the contract if its tender is accepted.
- 2.12.2 In cases where the bidder is a distributor, an authorization letter for distribution is a mandatory requirement for submission of the bid.
- 2.12.3 TMA and/or UNBS will conduct a pre – contract due diligence (DD) with reference to the referees provided for in the bid without further reference to the bidder. Should the findings of the DD be negative, the award shall be cancelled without further notice and the 2nd best evaluated bidder shall be considered for the award should they be successful in the pre-contract DD.
- 2.12.4 The documentary evidence of the Suppliers qualifications to perform the contract if its tender is accepted shall be established to TMA’s satisfaction.
 - (a) that, in the case the supplier offering to supply goods under the contract which the supplier did not manufacture or otherwise produce, the supplier has been duly authorized by the goods’ Manufacturer or producer to supply the goods.
 - (b) that the Supplier has the financial, technical, and production capability necessary to perform the contract.

2.13 Goods Eligibility and Conformity to Tender Documents

- 2.13.1 The supplier shall furnish, as part of its tender documents establishing the eligibility and conformity to the tender documents of all goods which the supplier proposes to supply under the contract.
- 2.13.2 The documentary evidence of the eligibility of the goods shall consist of a statement in the Price Schedule of the country of origin of the goods and services offered.
- 2.13.3 The documentary evidence of conformity of the goods 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.
 - (b) A clause-by-clause commentary on the Technical Specifications demonstrating substantial responsiveness of the goods and service to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.
- 2.13.4 For purposes of the documentary evidence to be furnished pursuant to paragraph 2.13.3 (b) above, the supplier shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by TMA in its Technical Specifications, are intended to be descriptive only and not restrictive. The supplier may substitute alternative standards, brand names, and/or catalogue numbers in its tender, provided that it demonstrates to TMA’s satisfaction

that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

2.14 Tender Security – Not Applicable

2.14.1 The Supplier shall furnish, as part of its tender, a tender security for the amount specified in the Appendix to Invitation to Suppliers. N/A

2.14.2 The tender security shall be in the amount of 5% per cent of the tender price.

2.14.3 The tender security is required to protect TMA against the risk of Supplier's conduct which would warrant the security's forfeiture.

2.14.4 The tender security shall be denominated in US dollars 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 acceptable to TMA 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 TMA as non-responsive, pursuant to paragraph 2.22

2.14.6 Unsuccessful Suppliers 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 TMA.

2.14.7 The successful Supplier's tender security will be discharged upon the Supplier signing the contract, pursuant to paragraph 2.27 and furnishing the performance security, pursuant to 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 TMA in this tender document.

2.16 Deadline for Submission of Tenders

2.16.1 Tenders must be received by TMA at the procurement@trademarkafrica.com no later than **Thursday 28 NOVEMBER 2024 on or before (11:00 am EAT Time)**,

2.16.2 TMA 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 TMA and bidders previously subject to the deadline will therefore be subject to the deadline as extended.

2.17 Modification and Withdrawal of Tenders

- 2.17.1 TMA may modify or withdraw this tender, provided that written notice of the modification, including substitution or withdrawal of the tenders, is provided prior to the deadline prescribed for submission of tenders.
- 2.17.2 No tender may be modified after the deadline for submission of tenders.
- 2.17.3 TMA may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 2.17.4 TMA shall give prompt notice of the termination to the Suppliers and on request give its reasons for termination within 14 days of receiving the request from any Supplier.

2.18 Opening of Tenders – Not Applicable

- 2.18.1 TMA will open all tenders after the submission deadline at N/A.
- 2.18.2 TMA shall include details of the tender opening in the evaluation report.

2.19 Clarification of Tenders

- 2.19.2 To assist in the examination, evaluation and comparison of tenders TMA may, at its discretion, ask the Supplier 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.
- 2.19.3 Any effort by the Supplier to influence TMA in the tender evaluation, tender comparison or contract award decisions may result in the rejection of the Suppliers' tender.

2.20 Preliminary Examination

- 2.20.2 TMA 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.
- 2.20.3 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 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
- 2.20.4 TMA 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 affect the relative ranking of any Supplier.

2.20.5 Prior to the detailed evaluation TMA 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. TMA determination of a tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.

2.20.6 If a tender is not substantially responsive, it will be rejected by TMA and UNBS and shall not subsequently be made responsive by the Supplier by correction of the non-conformity.

2.21 Conversion to Single Currency

2.21.2 Where other currencies are used, TMA will convert these currencies to US Dollars using the selling exchange rate on the date of tender closing provided by respective Central Bank.

2.22 Qualification, Evaluation methodology and criteria, Comparison of Tenders

2.22.1 TMA will determine to its satisfaction that the Suppliers from the preliminary evaluations are qualified to undertake the assignment satisfactorily. TMA will evaluate and compare the tenders which have been determined to be substantially responsive on the preliminary evaluations.

The evaluation methodology to be used for the evaluation of bids received shall be the technical compliance selection methodology. The technical compliance selection methodology recommends the lowest priced bid which is eligible, compliant and substantially to the technical and commercial requirements of the bidding document, provided that the bidder is determined to be qualified to perform the contract satisfactorily.

The evaluation will be conducted in in three sequential stages –

- a) A preliminary examination to determine the eligibility of bidders and the administrative compliance of bids received that is submitting all requisite documents and in accordance with the submission procedures.
- b) A detailed evaluation to determine the commercial and technical responsiveness of the eligible and compliant bids; and
- c) A financial comparison to compare costs of the eligible, compliant, responsive bids received and determined the best evaluated bid.

Failure of a bid at any stage of the evaluation shall prevent further considerations at the next stage of evaluation. Substantial responsiveness shall be considered a pass.

Preliminary Evaluation criteria

The documentation required to provide evidence of eligibility shall be:-

- a) Joint Venture Agreement (for those submitting as joint venture)
- b) Dealership authorization (for distributors)

NOTE: Bidders are advised to use the checklist provided for in Clause 2.8.1 (a) to ensure that all preliminary requirement documents are submitted.

Detailed evaluation criteria

Commercial criteria: The evaluation criteria shall be

- a) Acceptance of the conditions of the proposed contract
- b) Inclusion of all cost components required such as installation, training, inspection or proving, commissioning, in addition to the price of the supplies
- c) Acceptable delivery schedule

Technical criteria: These shall be

- a) The specifications herein detail the minimum technical requirements. Responsiveness is determined by comparison of the specifications offered to the specifications provided in Section III – Technical Specifications and the evaluation shall be conducted on a pass/fail basis. Substantial responsiveness shall be considered a Pass.

Financial comparison criteria

The costs to be included in the bid price are:

- a) The unit, total delivered price and Unit price of other incidental services payable based on the delivery terms requested and the quantity specified in Section III – Technical specifications
- b) Taxes, duties and levies
- c) Discounts if any and the application methodology

2.22.2 The determination will consider the Supplier technical and production capabilities. It will be based upon an examination of the documentary evidence of the Suppliers qualifications submitted by the Supplier, as well as such other information TMA deems necessary and appropriate.

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

2.22.4 The evaluation committee shall evaluate the tender within reasonable time after opening of the submissions and before expiry of the bid validity period.

2.22.5 A Supplier 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 disqualified and subsequently debarred from participating in future TMA procurement.

2.23 Preference – Not Applicable

2.23.1 Preference were allowed in the evaluation of tenders shall not exceed 7.5%. **N/A.**

2.24 Contacting TMA

2.24.1 No Supplier shall contact TMA or UNBS on any matter related to this tender, from the deadline of tender submission to the time of contract award.

2.24.2 Any effort by a Supplier to influence TMA or UNBS in its decisions on tender, evaluation, tender comparison, or contract award shall result in the rejection of the Supplier's tender.

2.25 Award of Contract, TMA's right to vary quantities, TMA's right to accept or reject any or all tender

2.25.1 Award Criteria

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

2.25.2 TMA's Right to vary quantities

TMA 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.

2.25.3 TMA's Right to accept or reject any or all tenders

TMA 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 Supplier or Suppliers or any obligation to inform the affected Supplier or Suppliers of the grounds for the TMA's action.

2.26 Notification of Award

2.26.1 Prior to the expiration of the period of tender validity, TMA will notify the successful Supplier in writing that its tender has been accepted.

2.26.2 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 after a cooling off period of seven (7) days.

2.26.3 Upon the successful Supplier's furnishing of the performance security, TMA will promptly notify each unsuccessful Supplier and will discharge its tender security, pursuant to paragraph 2.14. N/A.

2.27 Signing of Contract

2.27.1 At the same time as TMA notifies the successful Supplier that its tender has been accepted, TMA will send the Supplier the Draft Contract Document provided in the tender documents, incorporating all agreements between the parties.

2.27.2 The parties to the contract shall have it signed within reasonable time of notification of contract award unless there is an administrative review request.

2.27.3 After the receipt of the Draft Contract Document, the successful Supplier shall sign and date the contract and return it to the TMA.

2.28 Performance Security

2.28.1 Upon receipt of notification of award from TMA, the successful Supplier shall furnish the performance security in accordance with the Conditions of Contract.

2.28.2 Failure of the successful Supplier 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 TMA may make the award to the next lowest evaluated Candidate or call for new tenders.

2.29 Corrupt or Fraudulent Practices

2.29.1 As part of this tender TMA shall require the Supplier to confirm compliance to the Code of ethics by signing and stamping.

2.29.2 TMA will reject a proposal for award if it determines that the Supplier recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

SECTION II (B) - INSTRUCTIONS TO SUPPLIERS

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

INSTRUCTIONS TO SUPPLIERS REFERENCE	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
Clause 1.2	<p>Submission of bids/tenders:</p> <ul style="list-style-type: none">• Please e-mail your bids/tenders to procurement@trademarkafrica.com clearly indicating the Tender number and tender title in the heading.• You will be required to separate your technical offer from the financial offer, and these must be submitted in separate e-mails.• Note that e-mail attachments should not exceed 10 MBS.• You can split your submission with smaller attachments so that you do not exceed the 10 MBS.

SECTION III - TECHNICAL SPECIFICATIONS & TERMS OF REFERENCE

3.1 General

- 3.1.1 These specifications describe the requirements for goods. Suppliers are requested to submit with their offers the detailed specifications, drawings, catalogues, etc. for the products they intend to supply.
- 3.1.2 Suppliers must indicate on the specifications sheets whether the equipment offered comply with each specified requirement.
- 3.1.3 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. TMA reserves the right to reject the products, if such deviations shall be found critical to the use and operation of the products.
- 3.1.4 The Suppliers 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.

3.2 Spare parts

Where a supply is accompanied by an additional list of spare parts and/or consumables for the items according to the technical specifications, the cost of these spare parts and consumables shall be indicated in the list but must not be included in the tender offer unit prices/overall prices. The prices of spare parts will not influence the evaluation of the tenders, except where they vary substantially between the tenders received. Lists of spare parts must be drawn up by tenderers on the basis of their professional experience and the expected places of use. The Contracting Authority reserves the right to alter the list of spare parts; any changes will appear in the contract.

3.3 Extended warranty

- 3.3.1 The normal **factory warranty** where specified, must remain valid for one year after provisional acceptance. The **extended warranty** is an extension of the factory and/or supplier warranty to a total period of three years. This warrant will be provided for the items as specified in the technical specifications. The extended warranty will guarantee the reliability of the product under normal conditions of use.
- 3.3.2 In case of malfunctioning of the equipment, the supplier will troubleshoot the problem within two working days after notification, overcome the problem within a period of ten working days, and fully repair and re-integrate the equipment within a period of 20 working days.
- 3.3.3 The supplier shall at its own costs repair and/or replace the defective equipment/parts. If repair/replacement of defective parts is no longer possible, the supplier will replace the product within 30 working days. No extra costs will be borne by the Contracting Authority. The supplier will also provide free of charge technical support, whether or not through a helpdesk function, to the user. Moreover, the supplier will notify of and provide the user with free updates of firmware.

3.3.4 The warranty must remain valid for one year after provisional acceptance.

3.4 Arrangement for fast repair and delivery of spare parts

3.4.1 These arrangements are meant to provide repair services and spare parts after the expiry of the warranty period or the three-year service contract and shall be available for at least 5 years after the end of the warranty period or service contract. The repair services and spare parts performed and delivered under this arrangement are not themselves part of this contract and will be separately paid for by the beneficiary, but the supplier shall state how it will be arranged and by whom (e.g. through a local or regional agent or directly by the manufacturer's factory, service centre or distributor).

3.4.2 In case of malfunctioning of the equipment, the supplier will troubleshoot the problem within two working days after notification, overcome the problem within a period of ten working days, and fully repair and re-integrate the equipment within a period of 20 working days. The supplier shall repair and/or replace the defective equipment/parts. If repair or replacement of defective parts is no longer possible, the supplier will replace the product within 30 working days.

3.5 Service/repair contract and spares for 3 years

3.5.1 In the service and maintenance contract, for the items where this is indicated in the technical specifications, the supplier shall provide, apart from the services defined under the extended warranty, an annual site visit to inspect the product and implement a preventive maintenance programme, including cleaning, testing functionalities, and a status report of the product. If possible and available, the supplier will remotely monitor the status and performance of the product.

The last of the annual inspection visits will take place within three months before the end of the service and maintenance contract. The supplier will promptly perform on-site diagnostics and repairs after notification of malfunctioning of the product, if other solutions to solve the problem are of no avail. All costs related to labour and travel, and for replacement parts and components, will be included. This service will be provided for 36 months after the date of provisional acceptance.

3.5.2 If accredited calibration is required, the calibration certificate must be issued by a calibration laboratory accredited by an accreditation body, which is a signatory of the Mutual Recognition Arrangement of the International Laboratory Accreditation Cooperation (ILAC-MRA). Where factory calibration is specified without further qualification, the above is not required.

3.5.3 Software that is required for the realisation of functionalities of equipment must be the latest version, must be in the English language and should be compatible with the latest Windows Operating System or equivalent operating system. Software updates should be provided for free during at least for a period of 36 months.

3.6 General Information relevant to the Equipment

- All equipment is to be delivered to the UNBS decentralized locations in Berbera.

- The installation and testing can therefore only take place after delivery and installation of this equipment. The contracted Supplier shall liaise with the UNBS on the installation and supply requirements for the equipment to be delivered and on the practical arrangements for installation and testing.
- The tenders shall take notice of the climate conditions and take these into account in the equipment offered.
- In case the equipment offered needs a certain humidity range for its specified performance, the supplier shall include equipment (such as dehumidifiers) in the offer for the item(s) concerned.

3.7 Training

Training to be offered by the Supplier on the following equipment, to be conducted by qualified technicians, who are familiar with the supplied equipment, preferably employees of the equipment manufacturers:

TERMS OF REFERENCE

Supply, Delivery, Installation, Commissioning, Training and After-sales Services for Laboratory Equipment for the Uganda National Bureau of Standards (Malaba Office)

1.0 Background

1.1 Description of Trademark Africa

TradeMark Africa (TMA), formerly TradeMark East Africa), is an Aid-for-Trade organisation that was established in 2010, with the aim of growing prosperity through increased trade. TMA operates on a “not-for-profit” basis and is funded by: Belgium, the Bill and Melinda Gates Foundation, Canada, Denmark, the European Union, Finland, France, Ireland, the Netherlands, Norway, the United Kingdom and the United States of America. TMA works closely with regional intergovernmental organisations, including the African Union (AU), the African Continental Free Trade Area (AfCFTA) Secretariat, the East Africa Community (EAC), the Intergovernmental Authority on Development (IGAD), the Common Market for East and Southern Africa (COMESA), the Southern Africa Customs Union (SACU), national Governments, the private sector and civil society organisations.

The first two strategic periods of TMA (2010-2023) have contributed to substantial gains for trade and regional integration in East Africa and the Horn of Africa in terms of decreased cargo transit times (reduction of 16.5% on the Northern Corridor from Mombasa to Bujumbura), improved border efficiency (the time to cross targeted one stop border posts has been reduced by an average of 70%), and reduced barriers to trade. The continental-wide shift and rebrand to TMA was officially launched in West Africa in January 2023, with Ghana being the first country of operations in the region. Under Strategy 3 (2023-2030), the programme context shifted to address growing climate change challenges, economic vulnerability post-covid 19 characterized by a decline in trade volumes with an impact on the most vulnerable, rapidly changing requirements from different market players and shifting donor preferences. New programmes will therefore utilize emerging opportunities from technological advances and financial innovation and will continue to facilitate inclusion, particularly for women, youth, and people with disability. Focus being under the following pillars;

- Shift 1: Africa Rising – AfCFTA and revitalized RECs are the future for enhanced trade and investment:
- Shift 2: Raising standards and quality/value of goods:
- Shift 3: Harnessing technology – the key to Efficiency:
- Shift 4: Trade Catalyst Africa - a New Approach to physical and financial connectivity:
- Shift 5: Green revolution:
- Shift 6: Resilience and Inclusive Trade:

1.2 Description of the ERRA Programme

Trademark Africa in collaboration with the United States Agency for International Development (USAID) is implementing the East Africa Economic Recovery and Reform Activity (ERRA); which is a five-year program and whose goal is to promote resilient, transformative trade and investment reforms in the Eastern and Horn of Africa region, accelerating recovery from negative social economic impacts of the COVID-19 Pandemic whilst advancing the region’s self-reliance, sustainable economic growth capacity, improve competitiveness and

ensure environmental sustainability. ERRA also aims to re-position Eastern Africa back onto a more sustainable, inclusive, and resilient growth trajectory to drive job creation and prosperity.

1.3 Description of the ERRA Uganda Programme

Although Uganda has traditionally been a food surplus country with 85% of its population deemed food secure the recent drought and erratic rainfall are leading to food insecurity in parts of Uganda, especially in the Karamoja region in Northeast Uganda. With Ugandan staples and horticultural produce continuing to attract regional demand and putting more pressure on stocks, it is becoming ever more important to improve human and institutional capacities in the agro trade system in Uganda while also promoting greater export diversification and value addition.

More specifically, to achieve its intended results, the ERRA Uganda program focuses on three (3) objective pillars as outlined below;

- i. Objective 1: Sustainable job creation and support for a resilient export-oriented value chains (grains and horticultural produce); with the main goal of objective 1 being to create and preserve jobs for women and youth in the export-oriented value chains as already earmarked within Uganda as well as from Uganda to neighboring and international markets.
- ii. Objective 2: Enhancing the capacity of Uganda's private and public sector organizations that are involved in the agro-trade; with main goal of objective 2 being supporting public and private sector actors to facilitate the grains and horticulture value and supply chains in Uganda (this will include trade policy, regulatory facilitation and SPS/Standards measures).
- iii. Objective 3: Supporting more inclusive trade with particular focus being on women and the youth. The objective is to increase resilience and economic empowerment of cross-border traders (both formal and informal; women and youth).

1.4 Uganda National Bureau of Standards (UNBS)

UNBS is a statutory organization established by an Act of Parliament of June 1983 and became operational in 1989. The UNBS Headquarters is located in Bweyogerere Industrial Park with regional offices in Lira, Mbale, Jinja, Kampala and Mbarara. UNBS is a member of the International Organization for Standardization (ISO) and also a member of the Africa Regional Organization for Standardization (ARSO). UNBS is the National contact point for Food and Agricultural Organization (FAO)/World Health Organisation (WHO) Codex Alimentarius Commission, which is responsible for the Worldwide Food Standards Programme. It is also the enquiry point responsible for World Trade Organization (WTO) with respect to the Agreements on Technical Barriers to Trade (TBT) and on Application of Sanitary and Phyto-sanitary Measures (SPS). The main objectives of UNBS are to formulate and promote the use of national standards and to develop quality control and quality assurance systems that will enhance consumer protection, public health and safety, industrial and commercial development and international trade, among others. UNBS is governed by the National Standards Council and headed by the Executive Director who is responsible for the day-to-day operation of UNBS.

The Mandate of UNBS is:

- i. Formulation and promotion of the use of standards.
- ii. Enforcing standards in protection of public health and safety and the environment against dangerous and sub-standard products;
- iii. Ensuring fairness in trade and precision in industry through reliable measurement systems; and
- iv. Strengthening the economy of Uganda by assuring the quality of locally manufactured products to enhance the competitiveness of exports in regional and international markets.

2.0 The Assignment (Objective/ Scope and Deliverables)

2.1 Objective

As guided by objective 2: **Enhancing the Capacity of Uganda’s Private and Public Sector Organizations that are involved in the agro-trade;** and specifically the output related to; **Strengthening of Service Delivery Capabilities of Food Control Agencies in Grains, Fruits & Vegetables.** This intervention therefore aims to further enhance the capacity of UNBS to support the compliance of Uganda’s exports consignments to ISO 22000; and this will as guided by UNBS existent operational gaps; **include the supply, installation and commissioning of rapid testing equipment in selected UNBS QA laboratories** that are located within or adjacent to the border points of Malaba,

2.2 Deliverables of the Assignment

In consultation with UNBS; the key deliverables by the onboarded firm will be:

- i. **Inception Report:** detailing the general overview of how the contracted firm intends to undertake the equipment supplies assignment. This will include; understanding of the terms of reference, stakeholders’ consultations and engagements, list of equipment to be supplied and installed, workplan schedule etc.
- ii. **In line with (i) above, undertake the actual procurement,** supply, installation and commissioning of the laboratory equipment into the would be identified laboratory.
- iii. **Undertake training sessions of laboratory personnel;** on how best to utilize the supplied equipment (e.g. sample preparation, analytical processes to be used etc).
- iv. **Final Report:** This will incorporate key highlights from (ii) and (iii) above.

3.0 . Recipient, Coordination and Reporting

The supply firm will be required to undertake the assignment in close collaboration and consultations with both UNBS and TMA team (both at UCP and standards regional office) specifically as outlined below;

- I. Submit monthly progress reports and timesheets detailing the tasks undertaken and milestones achieved during the month. This will need to be reviewed and approved by UNBS prior to their being submitted to TMA.
- II. Participate in all programme review and coordination meetings set up by TMA or as may be demanded by UNBS.

III.All related deliverables will be first internally reviewed by UNBS prior to being accepted as satisfactory.

4.0 Duration of assignment

The consultant will be expected to complete the assignment within a **4 months' period** from the date of contract signing.

DETAILED SPECIFICATIONS FOR THE ITEMS PER LOT

Instructions and notes to Bidders

- Bidders are required to fill the table below or use its format to respond and provide detailed brochures of proposed brand and model;
- The technical specifications also serve as the evaluation criteria.
- Bidders **MUST** provide a substantive response for all features of their proposed product. Use of ‘YES’, ‘NO’, ‘Tick’, ‘Compliant’ or non-descriptive responses will be considered non-responsive. Provision of filling in the compliance sheets shall NOT be assumed to indicate compliance of the items listed in this bid. The bidder **MUST** explicitly indicate the technical specification they propose to supply in their submission.
- Bidders **MUST** provide specifications for ALL equipment’s as listed per LOT, failure of which will lead to disqualification. Only bidders who qualify for technical evaluation shall then be assessed on price. Award will be made to the bidder offering the lowest evaluated price and that meets the required standards of technical and financial capabilities.
- For evaluation purposes, the financial proposals **SHALL** be net of taxes. However, bidders should clearly breakdown/separate the tax component in their financial proposals to facilitate evaluation of the financial proposals.
- Bidder to confirm that the goods or services are not procured from prohibited countries listed by the Office of Foreign Assets Control (OFAC) as sanctioned countries. OFAC sanctioned countries may be searched within the System for Award Management (SAM) at www.SAM.gov. The current list of countries under comprehensive sanctions include Cuba, Iran, North Korea, Sudan, and Syria. Goods may not transit through or be assembled in comprehensive sanctioned origin or nationality countries, nor can the vendor be owned or controlled by a prohibited country.

LOT 1: Chemistry Equipment

S/N	EQUIPMENT	QTY	MINIMUM REQUIREMENTS	Supplier’s Item Specifications (Please indicate the specifications of the proposed item)	Country of Origin
1	Aflatoxin Lateral flow Reader equipment and supplied with Kits for startup	1	Aflatoxin Lateral flow Reader and Supplied with Kits for startup <ul style="list-style-type: none"> • Design specifically for the aflatoxin test system. • The system features a shared extraction and dilution procedure and an intuitive walk-away operation to allow simple testing for several different mycotoxins in less than 10 minutes while helping to eliminate common handling errors. 		

	For Grains, flour, raw feed material, some of finished feed etc		<ul style="list-style-type: none"> • It can independently and simultaneously test up to 4 samples. • Has 7" display with easy user interface, integrated incubator, simple connectivity and blockchain support <p>Supplied with the following starter kits:</p> <ul style="list-style-type: none"> • Total Aflatoxin 40 tests kit • Aflatoxin B1, 40 tests kit • Deoxynivalenol 40 test kit • Total Fumonisin WATEX 40 test kit • Zearalenone WATEX 40 tests • Printer for lateral flow reader • Required Accessories for Lateral flow device • Training of at least 3 users and Warranty of 1 Year 		
2	NIR Alcohol Beverages analyzer for different tests and types of alcoholic beverages	1	<p>Instrument should have a provision to analyse following commodities and parameters:-</p> <ul style="list-style-type: none"> ▪ Wort: Apparent Extract, Colour, FAN and pH-Value ▪ Beers: Alcohol, Density, Extracts, Bitter Units (IBU), Calories and Colour (EBC) ▪ Beer Mix Drinks: Alcohol, Density, Sugar Content, Total Acidity ▪ Cider: Alcohol, Density, Extracts, Total Acidity, pH-Value, Individual and Total Sugars ▪ Spirits: Alcohol % vol, Density g/ccm, tot. Sugar g/l, Methanol ppm ▪ Spectral NIR Range- 800 nm to 2500 nm with optional colour module available in the visible range. ▪ Measuring Principle- NIR Reflectance / Absorbance; Measuring Range- 0 to 100 %. ▪ Dual beam system, Sample / Reference measurement ▪ High Signal to Noise > 10000:1 ▪ Auto Diagnostics ▪ Response Time approx. 30 to 60 seconds ▪ Accuracy of +- 0.1 % (better) and Precision of 0.0001 % ▪ Light Source – Tungsten Lamp; Detector – Lead Sulphide 		

			<p>Addons for measuring the following parameters in beer will be an added advantage: real extract (% w/w), apparent extract (% w/w), real attenuation (%), apparent attenuation (%), original gravity (% w/w), alcohol (% g/g)</p> <p>Standard calibrations included with the provision of Bias and Skew adjustment for adding on further products in existing library of calibrations.</p> <p>Software spec: Integrated, Stand-alone operations, fail-safe, Automated Calibration Mode (i.e. Smart System capable of making “Self-corrections” in Calibration Models).</p> <p>Instrument should be rugged, Protection- Dust and Humidity, with automatic data recording system.</p> <p>Multitude of sample accessories to include a peristaltic pump for single measurements.</p> <p>System should have filter based technology with 19 filters with different wavelengths along with filter wheel performance warranty for minimum 10 years.</p> <p>Instrument Footprint should not be more than - Height: 310 mm / Width: 300 mm / Depth: 480 mm to occupy less space.</p> <p>Instrument user interface should be based on linux to prevent virus attacks.</p> <p>All Calibration should provide accurate and repeatable analytical results and are 100 % transferable between the instruments</p> <p>4 USB ports for connecting pen-drive, keyboard; RS232 AND ethernet interfaces for printer and LAN connections</p> <p>Calibration transferability: Yes</p> <p>Access rights (depend upon user)</p> <p>Large expandable internal memory (i.e. minimum 10 GB) for Calibrations, Methods and History results)</p> <p>Additional</p> <p>Installation and Training for users by factory trained engineer Technician.</p> <p>Training of at least 3 users and Warranty of 1 Year</p>		
3	Benchtop XRF equipment for elemental and heavy metal	1	<p>Benchtop XRF equipment for elemental and heavy metal analysis of solids and liquid samples at low detection levels , from ppb to 100%, supplied with all accessories ready to use</p>		

	<p>analysis of solids and liquid samples at low detection levels, from ppb to 100%.</p>		<p>Equipped with 5 types of X-ray filters, including an improved filter enhances heavy element performance, that enable to perform analysis of light to heavy elements with high sensitivity.</p> <p>Easy-to-use analysis software for beginner (PCEDX-Navi) and conventional general analysis software (PCEDX-Pro) are included as standard. Software Controls the instrument operation and perform qualitative and quantitative analysis</p> <p>The background fundamental parameter method has been installed as standard</p> <p>Collimators and a sample observation camera are included as standard</p> <p>X-ray generator unit X-ray tube Type: Side window type, continuous power 50W, Rh Target Cooling method: by Air (With fan) X-ray power supply: Voltage 4 - 50kV, 1kV/step X-ray warning indicator: X-ray radiation indicator light. Turns on when X-rays are generated Primary X-ray filter: Automatic replacement of 5 kinds + OPEN Collimator: Automatic replacement of 4 kinds 1mm, 3mm, 5mm and 10mm in diameter</p> <p>Detector Detector Type: high-performance silicon drift detector (SDD), detector high voltage power supply and preamplifier. Cooling: Peltier cooling (No liquid nitrogen required) Measurement range: 6C – 92U</p> <p>Counting unit and control unit Pulse shaping: Digital process (trapezoidal filter) Measurement range: 0 – 20, 0 – 40 (keV) Number of channels: 2048 ch Maximum counts: 232 - 1/ch</p>		
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		<p>Controlled objects: X-ray generator unit (X-ray power supply, shutter/filter, primary X-ray filter, collimator units) , Detector unit, Counting unit</p> <p>Sample chamber and Measurement chamber unit</p> <p>Sample chamber and Measurement compartment unit: large sample chamber. Combined with vacuum/helium replacement and turret options for improving the sensitivity of light elements and the efficiency of multi-sample continuous analysis.</p> <p>Maximum sample size: 300(W) x 275(D) x approx. 100(H) mm (excluding radiuses)</p> <p>X-ray irradiation: Bottom surface of the sample Irradiation diameter: 10mm in diameter Irradiation opening: 13mm in diameter (15mm with turret unit) Sample observation: Semiconductor camera</p> <p>Sample illumination: White LED is used. Light amount is adjustable by software.</p> <p>Additional Accessories:</p> <ol style="list-style-type: none"> 1. Vacuum Measurement Unit Used for measurement in vacuum. Useful for measuring light elements in solid samples 2. Helium purge unit is effective when measuring liquid samples and samples that generate a gas and cannot be measured in a vacuum. Useful for measuring light elements in liquid samples 3. Polyethylene sample cells for liquid and powder samples 4. Sample cells suitable for trace samples. 5. Sample-holding film (for light element analysis) <p>Data processor:</p> <p>Should be supplied with external PC minimum specifications Memory 4 GB min. (64-bit), HDD 250 GB min, Optical drive, OS Microsoft Windows</p> <p>Supplied with 8KVA Online UPS</p> <p>Additional</p>		
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			Installation and Training for users by factory trained engineer Technician. Name and address of local agent for the equipment offered		
4	NIR Analyzer for proximate analysis of various products; milk, cereals, edible oils, supplied complete with all calibrations	1	<p>NIR Analyzer for proximate analysis of various products; milk, cereals, edible oils, supplied complete with all calibrations</p> <p>MILK and MILK PRODUCTS</p> <p>Milk-Moisture, fat, protein, lactose, total solids, pH</p> <p>Milk powder (skim and whole) -Moisture, protein, fat, SNF</p> <p>Sweetened condensed milk –Fat, protein, total solids, solids not fat.</p> <p>Butter –Fat, moisture, Milk solids not fat, titrable acidity as lactic acid, free fatty acids, Reichert Meissel No., polenske value</p> <p>Ghee – Free fatty acids, Reichert Meissel No., Iodine value, refractive index, moisture, fat, curd percentage, peroxide value</p> <p>Cheese- Fat, moisture, casein, solids not fat</p> <p>Whey- Fat, solids, protein, lactose</p> <p>Yogurt- Fat, total solids, protein, acidity, pH</p> <p>Dried whey – Moisture, fat, titrable acidity, total solids ash, protein, sodium</p> <p>And amy more possible</p> <p>OIL and OILSEED</p> <p>Olve Oil, Olives, Olive Paste, Pomace, Olives & Olive Oil-Oil, Moisture, Acidity,Peroxide Value, Fatty Acid</p> <p>Edible Fats& Oils -- Sunflower Oil, Rapeseed Oil, Canola Oil, Corn Oil, Soybean Oil, Coconut Oil, Palm Oil, Fish Oil, Tallow, Lard, and many more.</p> <p>Parameters: Free Fatty Acids, Iodine Value, Peroxide Value, Saponification value & many more.</p> <p>GRAIN and FLOUR</p> <p>Wheat - Moisture, Protein, Starch, Hardness, Gluten</p> <p>Rice - Protein, Amylose, Moisture, Fat, Water absorption</p> <p>Barley - Moisture, Protein, Starch, Water absorption</p> <p>Corn - Protein, Fat, Moisture, Starch</p>		

			<p>Malt - Nitrogen, sol. Nitrogen, Hot water/Cold water extract, Moisture</p> <p>Lentils/Pulses – Protein, Moisture, Ash, Crude fibre, Fat, Carbohydrates, Calorific value, Total Starch, Anti-nutritional factors (if present)</p> <p>Oilseeds (Soybeans, Mustard, Canola) - Moisture, Protein, Oil, Fatty acids</p> <p>Flour – Protein, Moisture, Ash, Starch, Gluten, Sedimentation value</p> <p>Multi sample analysis: Single instrument has ability to do all type of analysis for different product types solids, powders, pastes, slurries and liquids. Instrument to be preferably based on Monochromator technology for measuring variety of products in single instrument.</p> <p>Spectral NIR Range: 800-2500nm</p> <p>Spectroscopic Technique: Pre-dispersive diffuse reflectance</p> <p>Optic module: Filter based technology upto 20 filters</p> <p>Spectral Resolution: 10nm</p> <p>Measuring Principle: NIR Reflectance / Absorbance/ Transflectance; Measuring Range- 0 to 100 %.</p> <p>NIR Sample/Reference: Dual beam system, Sample / Reference measurement</p> <p>Signal to Noise ratio: 150000:1</p> <p>Capacity: 50000 measured results.</p> <p>Detector: Lead Sulphide</p> <p>Analysis Time: 30 to 60 seconds</p> <p>Spectral resolution - 10nm +/- 2nm</p> <p>Instrument Footprint: Height: 310 mm / Width: 300 mm / Depth: 480 mm to occupy less space</p> <p>Degree of Protection: degree of protection- IP-52 for optic module (sealed against dust) and IP20 for housing</p> <p>The instrument to be supported by a flexible software package providing routine analysis with all essential accessories. Software spec: Integrated, Stand-alone operations, fail-safe, Automated Calibration Mode (i.e. Smart System capable of making “Self-corrections” in Calibration Models).</p>		
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			<p>Software should be part of configuration for development of calibration (i.e. New Samples in future at customer site). Calibration models to be developed with using MLR and PLS techniques. Standard calibrations included with the provision of Bias and Skew adjustment for adding on further products in existing library of calibrations. Windows 7 or 8 compatible</p> <p>All Calibration should provide accurate and repeatable analytical results and are 100 % transferable between the instruments.</p> <p>Web Interface features:</p> <p>Access rights (depend upon user), d) Calibration management (bias and skews adjustment), e) Self-system diagnostic and display of error's,/ User management (e.g. create user, delete user and user rights), Username / password protected</p> <p>Installation and Training: An intensive training of not less than 2 days by factory engineer must be done onsite within two weeks of installation.</p> <p>Warranty 1 year and Manufacturer authorization</p> <p>Training of at least 3 users and Warranty of 1 Year</p>		
5	Portable Geiger Counters for range of detection of multiple types of ionizing radiation— alpha, beta, X-rays, and gamma , Uranium, radium and radon, Polonium etc	1	<p>Digital Geiger Counter</p> <p>Technical Specifications</p> <p>Radiation Detected:</p> <ul style="list-style-type: none"> • Alpha, Beta, • X-Ray • Gamma <p>Detector Type:</p> <ul style="list-style-type: none"> • Geiger Muller tube Ne + Halogen filled Mica end window has a .38” effective diameter, with a density of 1.5-2.0 mg/cm² <p>Detector Sensitivity:</p> <ul style="list-style-type: none"> • Alpha: above 3.0 MeV • Beta: above 50 KeV • Gamma: above 7 KeV <p>Countable Pulse Resolution Range:</p> <ul style="list-style-type: none"> • 1 Count Per Minute (CPM) - 5000 Counts Per Second (CPS) 		

			<p>Radiation Resolution & Range:</p> <ul style="list-style-type: none"> • 1.0uR/hr - 1000 mR/hr • .01uSv/hr - 10 mSv/h • Supplied complete with Nuclear Regulatory Commission certificate of calibration, TTL cable and belt clip • Training of at least 3 users and Warranty of 1 Year 		
6	Portable Gas analyser equipment for Nitrogen, Oxygen and other gasses with connecting tubing's	1	<p>Portable Gas analyser equipment for Nitrogen, Oxygen, carbondioxide range from 0 to 100%.</p> <p>The required gas analysers to be supplied for testing Nitrogen, Oxygen and other gases like Carbon dioxide and the sample could be gas cylinders and related items with connecting tubing.</p> <ul style="list-style-type: none"> • The gas analyzers must be Portable and can be a two in one gas analyzer unit, individual gas analyzer unit or three in one unit as long as the minimum of the 3 gases indicated can be tested can be tested within the range of assay indicated initially. <p>Training of at least 3 users and Warranty of 1 Year</p>		
7	Hand held- XRF for analysis of precious metals; gold, silver, platinum, palladium, rhodium, ruthenium, iridium, and osmium etc	1	<p>Handheld XRF for analysis of precious metals; gold, silver, platinum, palladium, rhodium, ruthenium, iridium, osmium etc</p> <ul style="list-style-type: none"> • Weight: 1.6KG (with battery) • Size: 254×79×280mm (L×W×H) • Excitation source: Up to 50kV/200μA, Voltage and current can be adjusted freely, W/Ag/Rh target (optional) • Detection Range Mg – U , from ppb to 100% • Display System: 4.3 inches industrial grade resistance touch screen and automatically adjust display brightness according to external environment • Data Processing: Built-in 32GB storage USB, can connect the device to the Internet, remote setting and maintenance of the instrument • Heat dissipation: T-slot radiator 		

			<ul style="list-style-type: none"> Security: Built-in Double Beam technology automatically whether samples are at front, enhanced radiation safety and protection. Waterproof, dustproof and shockproof carrying case <p>Power Supply System: Intelligent battery with MSBUS, can directly check the remaining capacity of the battery, the battery complies with the air dangerous goods transport regulations. A single battery can work for about 8 hours.</p> <p>Installation and Training: An intensive training of not less than 2 days</p> <p>Warranty 1 year and Manufacturer authorization</p>		
8	Hand Held Digital Refractometer,	1	<p>Handheld Refractometer</p> <ul style="list-style-type: none"> Measurement range Brix: 0 - 95% w/w Accuracy Brix: 0.2 % w/w Measurement scales: Refractive Index, Brix, Brix compensated 20 °C, HFCS 42 / 55 / 90, °Baumé, KMW, Oechsle German / Swiss, °Plato, Wort Measurement duration: 2 s IP rating: IP65 Measurement range nD: 1.33 - 1.53 Accuracy nD (±): 0.0003 Temperature compensation range: 5 - 60 °C Built-in Measurement Scales: Refractive Index Brix/Sugar tables Minimum sample volume: 0.3 mL Product Type: Portable refractometer Measuring cell materials: Glass and stainless steel Dimensions (LxHxW): 115 mm x 30 mm x 54 mm Display / User interface: 1.8" digital LCD Battery type: 3V, 2 x AAA (Alkaline batteries) Battery Life: 10,000 readings Warranty 1 year and Manufacturer authorization 		
9	Water baths;15- 24 litres	2	<p>Shaking water bath</p> <ul style="list-style-type: none"> Display: Digital Capacity: 15 -24L 		

			<ul style="list-style-type: none"> • Temperature range: +10°C to 95 °C • Temperature stability: ± 0.25 °C • Setting temperature range: +10 to +95 °C and boiling stage • Working temperature range in °C: min. 5 above ambient up to +95 °C with additional boiling mode • Temperature sensor: 1 Pt100 sensor class A in 4-wire-circuit • Controller: digital display of set and actual temperature and of (remaining) programme time • Safety: digital display of set and actual temperature and of (remaining) programme time • Temperature control: mechanical temperature limiter TB protection class 1 switching the heating off at approx. 30°C above max. temperature of the bath • Temperature control: in case of overtemperature due to failure, the heating is switched off at approx. 10°C above the set temperature (fixed value) • Autodiagnostic system: microprocessor PID-temperature controller with integrated autodiagnostic system with fault indicator • Heating Baths: corrosion-proof large-area heating on three sides • Interior: easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing, material no. 1.4301 (ASTM 304), laser-welded • Warranty 1 year and Manufacturer authorization 		
10	Ducted fume hoods	1	<p>Ducted Acid Digestion fume hood</p> <p>Technical Specification</p> <ul style="list-style-type: none"> • Constructed to handle: Concentrated acids at high temperatures. The fume hood is built with Sash must be made of polycarbonate material to prevent aching caused by Hydrofluoric Acid <p>Material</p> <ul style="list-style-type: none"> • Unplasticized polyvinylchloride (u-PVC) or polypropylene (PP) internal surfaces which offer superior chemical resistance. • Tri-wall construction for maximum robustness • U-PVC / PP internal chamber 		

		<ul style="list-style-type: none"> • Chain and Sprocket Sash support system. • Energy-efficient hood lighting through a pre-wired, electronic ballast. Typical light intensity on work surface is 930 lux in zero ambient condition. • U-PVC exhaust collar ensures superior chemical resistance. • Standard service fixtures included: 1 remote-controlled water fixture, 1 remote-controlled gas fixture and 1 Polypropylene drip cup • Four (4) single electrical outlets with splash-proof cover are provided. <p>Safety Features</p> <ul style="list-style-type: none"> • Shaping vanes increase airflow “sweep” at the critical area at the sidewall to improve containment, especially when laboratory personnel walk fast in front of the hood. • Sash stop feature limits movement beyond 457 mm (18") to maintain a safe working condition for the user. • When sash is raised above 457 mm (18"), Esco's creep down mechanism automatically and gently returns the sash down to a safe level. • Sash key lock feature allows laboratory managers to restrict access to the fume hood. • Hot zone baffle system rapidly draws contaminants out of the fume hood's work zone, thereby, facilitating quick thermal heat relief • Aerodynamic airfoil design aids in the efficient flow of air towards the hood. It also helps reduce turbulence and eliminate back flow. • Ergonomic sash handle gently directs air into the hood without sacrificing visibility. <p>Serviceability</p> <ul style="list-style-type: none"> • U-PVC / PP internal work zone allows for easy cleaning of all surfaces. • Removable baffle system allows for thorough cleaning inside the hood. • Chain and sprocket system requires minimal service. • Accessible panels on the side walls facilitate plumbing connections while removable front panel facilitates easy access to lighting and other electrical components 		
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		<p>Safety Certified and Tested</p> <ul style="list-style-type: none"> • Fume hoods be manufactured for the most demanding laboratory applications and must meet the following standards • Fume Hood must be tested to comply with ASHRAE 110:1995 and EN14175-3 standards • Fume Hood must be tested to comply with UL1805 Listed • Sash must be clearly labelled with all operating instructions and illustrations <p>Nominal Size:</p> <ul style="list-style-type: none"> • External Dimensions Fume Hood unit only (W x D x H): 1220 x 900 x 1400 mm • External Dimensions Fume With Exhaust Collar (W x D x H): 1220 x 900 x 1460 mm • External Dimensions with Fully-opened Sash (W x D x H): 1220 x 900 x 1603 mm • Internal Dimensions (W x D x H): 996 x 675 x 1230 mm • Exhaust Volume/Static Pressure Required at Face Velocity of 0.3 m/s (60 fpm) when designed sash opening is 457 mm must be 542 cmh at 7 Pa • Exhaust Volume/Static Pressure Required at Face Velocity of 0.4 m/s (80 fpm) when designed sash opening is 457 mm must be 722 cmh at 13 Pa • Exhaust Volume/Static Pressure Required at Face Velocity of 0.5 m/s (100 fpm) when designed sash opening is 457 mm must be 904 cmh at 20 Pa • Exhaust Volume/Static Pressure Required at Face Velocity of 0.5 m/s (100 fpm) when full sash opening is 736 mm must be 642 cmh at 13 Pa • Exhaust Volume/Static Pressure Required at Face Velocity of 0.5 m/s (100 fpm) when designed sash opening is 736 mm must be 856 cmh at 23 Pa • Exhaust Volume/Static Pressure Required at Face Velocity of 0.5 m/s (100 fpm) when designed sash opening is 736 mm must be 1070 cmh at 36 Pa • Exhaust Outlet Diameter: Vertical or Combination • Number of Exhaust Collars: 1 • Fluorescent Lamp Intensity: 930 lux 		
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			<ul style="list-style-type: none"> • Construction Main Body: Electrogalvanized steel with Epoxy-polyester hybrid Isocide™ powder coating • Construction Internal Liner: u-PVC • Construction Worktop: u-PVC or Polypropylene • Sash Material: Polycarbonate • Sash Configuration: Vertical or Combination • Sash Sloping: 5° • Maximum Sash Opening: 740 mm • Cabinet Full Load Amps (FLA): 32 A • Cabinet Nominal Power: 100 W (lighting only) <p>Specifications of base cabinets for the Fume Hood:</p> <ul style="list-style-type: none"> • Nominal Size: 1.2 meter • External Dimensions (W x D x H): 1220 x 900 x 915 mm <p>The fume hood should be supplied complete with the following accessories:</p> <p>Base Cabinet for 4' Fume Hood</p> <ul style="list-style-type: none"> • Airflow Monitor • Exhaust Fan • Remote Controlled Fixture Plumbed to the Top • Drip Cup located on left hand side of worktop • Gas Remote Controlled Fixture Plumbed to the Top • Supplied Complete with: Water tap, Water sink, LED lamp, Total load of 2 waterproof sockets: 500W, Built-in PP blower, 4 meters PVC exhaust duct, Pipe strap*2 • Installation and Training of at least 3 users and Warranty of 1 Year 		
11	Heating mantles, programmable	4	<p>Polypropylene outer case is resilient and chemically- resistant. Highly efficient in heating up to an element temperature of 450°C.</p> <p>Product Specification: For flasks: 500ml</p> <p>The flexible heating element is suspended in a thermal insulating cartridge to provide maximum heat transfer with minimum risk of flask breakage.</p>		

			All heating mantles have support clamp for rods of up to 12mm diameter, and are double fused, with earth (ground) screen to protect the user from electric shocks. • Warranty of 1 Year		
12	Hot plates, digital and temp controlled	4	Digital Hot Plate, Ceramic, 30x30cm, 230 VAC Specifications: Plate dimensions, mm: 300 x 300 Heated area, mm: 200 x 200 Max. plate temp. °C: 450 Plate: Ceramic Coated (Chemical/Acid Resistance) Warranty of 1 Year		
13	UPS, 6KVA with power extension batteries 6kv with extension batteries	2	UPS, 6KVA with power extension batteries 6kv with extension batteries to stand for a minimum of 30 minutes. Smart-UPS On-Line, 6kVA/6kW, Rackmount 4U, 230V, 6x C13+4x C19 IEC outlets, Network Card, Extended runtime, W/ rail kit, 6-year warranty Output Max Configurable Power (Watts) 6.0kWatts / 6.0kVA Output Voltage Distortion Less than 2 % Output Frequency (sync to mains) 50/60 Hz +/- 3 Hz Sync to mains Other Output Voltages 220 V, 240 V Load Crest Factor; 3 : 1 Internal bypass (automatic and manual) Input Input frequency 40 - 70 Hz Auto-sensing Input voltage range for main operations		

		<p>100 - 275 AdjustableV</p> <p>Other Input Voltages</p> <p>220 V, 240 V</p> <p>Batteries & Runtime</p> <p>Battery type</p> <p>Lead-acid battery</p> <p>Typical recharge time</p> <p>1.5hour(s)</p> <p>Nominal Battery Voltage</p> <p>192 V</p> <p>Replacement Battery</p> <p>APCRBC140</p> <p>Expected Battery Life (years)</p> <p>3 - 5</p> <p>RBC Quantity 1</p> <p>Battery Charge Power (Watts) 597 Watts</p> <p>Extendable Run Time 1</p> <p>Runtime -View Runtime Graph</p> <p>Efficiency - View Efficiency Graph</p> <p>•Installation and Training of at least 2 users and Warranty of 1 Year</p>		
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L4	Lactoscan or equivalent for milk analysis	1	<p>Lactoscan Combo for milk analysis or Equivalent Equipment</p> <p>Parameter Measuring range</p> <p>Fat: 0.01– 45% Accuracy: ±0.06%</p> <p>Solids-non-fat (SNF): 3% – 40% Accuracy: ±0.15%</p> <p>Density: 1000 – 1160 kg/m³ Accuracy: ±0.3kg/m³</p> <p>Protein: 2% – 15% Accuracy: ±0.15%</p> <p>Lactose: 0.01% – 20% Accuracy: ±0.2%</p> <p>Added water: 0% – 70% Accuracy: ±3</p> <p>Milk sample temperature: 5°C – 40 °C Accuracy: ±1%</p> <p>Freezing point: -0.4°C to -0.7°C Accuracy: ±0.005%</p> <p>Salts: 0.4% - 4% Accuracy: ±0.05%</p> <p>PH: 0 – 14 Accuracy: ±0.05%</p> <p>Conductivity: 2 – 14 [mS/cm] Accuracy: ±0.05%</p> <p>Kg: From 0 – 150 kg Accuracy : ±0.10 kg</p> <p>Total solids: 0 – 50% Accuracy: ±0.17%</p> <p>•Installation and Training of at least 2 users and Warranty of 1 Year</p>		
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15	Soxhlet fat analysis equipment with all accessories	1	Measuring Range	Oil content within the scope of 0.1%-100% of good,feed,oil and various kinds of fat product			
			Measuring Sample Quantity	6 simultaneously			
			Heating time	Within 10 min.			
			Sample weight	0 to 15g			
			Recovery System	Automatic			
			Recovery Rate	≥80%			
			Temperature Controlling Range	Room temperature 0-300°C			
			Power	AC 220V/50Hz,1000W			
			Weight	28kg depending on brand			
			<ol style="list-style-type: none"> 1. Small volume,fast heating speed,even heating. 2. Extraction bottle and apparatus are made of glass to avoid ether spills. 3. Accurate digital temperature controlling,easy to operate <ul style="list-style-type: none"> •Installation and Training of at least 2 users and Warranty of 1 Year 				

16	<i>Water Distillation system</i>	2	<p>Water distillers</p> <ul style="list-style-type: none"> • Water distiller with built-in storage tank • Distillation capacity: 4 litres/hour • Storage tank: 8 litres <p>Features</p> <ul style="list-style-type: none"> • External case epoxy covered. • Cooling and heating elements made of stainless steel. • Easy to dismantle for cleaning. • Thermostat that disconnects the heater when there's lack of water supply. • Monitoring function that disconnects the distiller when the storage tank is completely full, and resumes as it empties. • Distilled water dispenser located in the front part. • Distilled water and water supply records of 3/4 inch. • Desktop model with device to hang it on the wall • Water consumption l/min: 1 • Conductivity at 20° C: 1.5 µs/cm • Power: 3000 W • Control panel • Illuminated power switch • Water flow indicator lamp • Warranty of 1 year • Manufacturer's authorization required • Installation and Training of at least 2 users and Warranty of 1 Year 		
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17	Digital Thermocouples with • Probe types: Type K Thermocouples	2	Probe types: Type K Thermocouples <ul style="list-style-type: none"> • Probe Connection: ANSI female mini- connector • Input Protection: 50V rms • Temperature range: –250...+1372 °C (–418...+2501 °F) • Resolution: 0.1°; 1° above 999.9° and below –199.9 • Temperature Accuracy: ±0.1% of reading +0.4 °C; ±0.25% of reading +1.0 °C above –150 °C (±0.1% of reading +0.7 °F; ±0.25% of reading +2.0 °F above –238 °F) • Display: 1.6" Display, 4-digit LCD <ul style="list-style-type: none"> • Battery Type: AA Battery (3) • Battery Life: 700 hours • 1 year warranty 		
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LOT 2: Microbiology Equipment

	ITEM	QTY	MINIMUM SPECIFICATIONS	Supplier's Item Specifications (Please indicate the specifications of the proposed item)	Country of Origin
1	Fridge freezer with 271 litre refrigerator & 113 litres freezer minimum	2	Combination refrigerator freezer Fridge freezer with 271 litre refrigerator & 113 litres freezer minimum Features Automatic defrosting in fridge Drawers in Freezer Low GWP refrigerant Sparkfree Small footprint		

			<p>Door lock to both fridge and freezer compartment with 2 keys</p> <p>Technical Specifications</p> <p>Configuration Upright</p> <p>Capacity (Litres): 271/113</p> <p>Height x Width x Depth: 2000mm x 625mm x 680mm</p> <p>Weight: 67.5kg</p> <p>Shelves: 5</p> <p>Temperature Range. Fridge : +0 to +10, Freezer: -18 to -23</p> <p>Door Type: Solid</p> <p>Lock Type: Key lock with two keys supplied</p> <p>Warranty 12 months</p>		
2	Autoclave 50-90 Litre	2	<p>Autoclave 50-90 Litre</p> <p>Technical Specifications</p> <p>Vertical autoclave</p> <p>Capacity: 50- 90 Lit</p> <p>Sterilizing Cycle-type :</p> <p>Class-B Cycle by EN-285 Standard</p> <p>Temp. Range: 110~135°C</p> <p>Pressure & Gauge: 0.4 ~ 2.3 bar, Built-in Analog & Digital Pressure Gauge</p> <p>Timer & Alarm : 60 min, Error Status & Timer-end Alarm</p> <p>Display: Digital LCD with Back-Light Function & LED Lamp (Working Process)</p> <p>Controller: Microprocessor Digital PID Control System (Full Automatic)</p> <p>Programmable Function: Pre-set 6 Programs (Customizable 5- & Fixed Bowie Dick 1-Program)</p> <p>Door-type: Manual Vertical Sliding Door, Automatic Door Locking System</p> <p>Chamber: Reinforced and Electro Polished Square Chamber with Double Jacket</p> <p>Tray (Included): 2 Stainless-steel Perforated Tray</p> <p>Safety Circuit : Over-Temp / -Pressure / -Current protection, Sensor Error Detection</p> <p>Power: 220/240 V 50 / 60 Hz, 1 Phase Single Phase system</p> <ul style="list-style-type: none"> • Warranty 12 months • Manufacturer's authorization is required 		

3	Fridge freezer with 271 litre refrigerator & 113 litres freezer minimum	2	<p>Combination refrigerator freezer</p> <p>Fridge freezer with 271 litre refrigerator & 113 litres freezer minimum</p> <p>Features</p> <p>Automatic defrosting in fridge</p> <p>Drawers in Freezer</p> <p>Low GWP refrigerant</p> <p>Sparkfree</p> <p>Small footprint</p> <p>Door lock to both fridge and freezer compartment with 2 keys</p> <p>Technical Specifications</p> <p>Configuration Upright</p> <p>Capacity (Litres): 271/113</p> <p>Height x Width x Depth: 2000mm x 625mm x 680mm</p> <p>Weight: 67.5kg</p> <p>Shelves: 5</p> <p>Temperature Range. Fridge : +0 to +10, Freezer: -18 to -23</p> <p>Door Type: Solid</p> <p>Lock Type: Key lock with two keys supplied</p> <p>Warranty 12 months</p>		
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4	<p><i>Digital laboratory Oven 110 Litre</i></p>	2	<p>Digital Drying oven</p> <p>Specifications:</p> <ul style="list-style-type: none"> • Provides uniform temperatures during drying, polyimide baking, sterilizing • Has multiple redundant over-temperature protection systems to guarantee maximum sample and user protection • Has electronic over-temperature protection built into the microprocessor • Has redundant mechanical over-temperature protection, adjustable from the front, independent from the microprocessor • Its's overall temperature protection meets DIN 12880 Class 3.1. • Has electric circuit protection & all electrical components are UL recognized • Temperature range: Ambient +7.5 °C to 300 °C • Temperature Variation Per DIN 12880 at 70°C: ±0.60°C • Temperature Variation Per DIN 12880 at 150°C: ±1.60°C • Temperature Variation Per DIN 12880 at 250°C: ±4.10°C • Temperature Fluctuation Per DIN 12880 at 70 °C: ±0.3°C • Heating up time at 70°C: 40 min • Heating up time at 150°C: 33 min • Heating up time at 250°C: 58 min • Max. xecovery time after 30 seconds door open at 70°C: 7.5 min • Max. recovery time after 30 seconds door open at 150°C: 9.5 min • Max. recovery time after 30 seconds door open at 250°C: 10 min • Capacity: 110 Litres • Total Load, Maximum: 60 kg • Has two separate & independent displays for set temperature and actual temperature • Load Per Shelf: 30 kg • Oven Construction: Electrogalvanized steel grade 304 with white oven-baked epoxy powder-coated finish • Power Rating: 220-240V, AC, 50/60Hz, 1Ø • Supplied with 2 stainless steel shelves and key lock • Warranty 12 months 		
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			<ul style="list-style-type: none">• Manufacturer's authorization is required		
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5	Digital Heated Incubator 155 litre	2	<p>Heated incubator</p> <p>Specifications</p> <ul style="list-style-type: none"> • Is a natural Convection laboratory incubator • Has ergonomic design • Has 4-zone heated air jacket and precisely tuned and tested insulation • Has SmartSense Microprocessor PID Control connected to an instrument-grade precision platinum temperature probe • Ensures fast ramp time and prevents overshoot and ensures stable temperature once set point is achieved • Has twin temperature display for easy monitoring (“Actual” and “Set Point” displays) • Has diagnostic LEDs to simplify service • Fitted with air flow adjuster via slider for exchange rate of air • Comes with a timer function (0000 - 9999 minutes) and up to 10 user-configurable program operations • Volume: 155 L • Temperature Range: Ambient +7.5°C to 80°C • Temperature variation at 37°C: ± 0.8°C • Temperature fluctuation at 37°C: ± 0.3°C • Heating up time at 37°C: 42 mins • Recovery time after 30 sec doors open: 3.5 min • Main Body: Electro-galvanized steel with epoxy-polyester hybrid Isocide powder coating • Chamber: Stainless steel, grade 304 • Number of shelves: 2 • Maximum Load per Shelf: 30 Kg • Current Consumption: 5A • Max. power consumption: 600 W • Power: 220-240 VAC/50/60 Hz, 1ø • Manufacturer’s authorization letter required 		
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			<ul style="list-style-type: none"> Warranty: 1 year 		
6	Biosafety cabinet	1	<p>Biological Safety Cabinet 4ft/1.2 m</p> <p>Key Features</p> <ul style="list-style-type: none"> ULPA Filter ISO Class 3 Work zone Equipped with DC ECM motor for up to 70% energy savings Antimicrobial Powder coating Sentinel™ Gold Microprocessor controller Easy-to-clean features Low noise level <p>General Construction</p> <ul style="list-style-type: none"> External Dimensions without Base stand (Width x Depth x Height): 1340 x 753 x 1400 mm External Dimensions with Optional Base stand 711 mm (28"): 1340 x 753 x 2111 mm Internal Work Area Dimensions (Width x Depth x Height): 1220 x 580 x 660 mm Area: 0.56 m² (6.0 ft²) Tested Opening: 203 mm (8") <p>Material</p> <ul style="list-style-type: none"> Main body: 1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester anti-microbial powder coated finish Work Zone: Abrasion and corrosion resistant 304 grade, 1.5 mm 16-gauge stainless steel with 4B finish Side walls: 1.5 mm (0.06") 16 gauge stainless steel, type304, with 4B finish Antimicrobial Powder coating Weight: - 230 kg (507 lbs) (Excluding optional stand) <p>Blower and Filtration</p>		

			<ul style="list-style-type: none"> • Equipped with one Direct current Electronically Commutated Motor (DC ECM) • Low heat and low energy consumption offering 70% more energy savings • Auto-compensating feature that adjusts blower speed in order to maintain the optimum airflow in case of filter loading • Ultra-low Particulate Air (ULPA) / H14 filter with 99.999% efficiency at 0.3-0.1 μm • Average airflow velocity (Inflow) of 0.53 m/s (105 fpm) • ISO 14644-1 Class 3 air quality <p>Control Panel and Electrical</p> <ul style="list-style-type: none"> • Sentinel Gold Microprocessor Controller • Four-line LCD display • Soft touch keys for Blower, Light, and UV lamp with LED indicator • QuickStart Mode and Standby Mode • UV timer • Audible and visual alarms <p>Electrical Requirements</p> <ul style="list-style-type: none"> • Power rating: 220-240 V AC 50/60 Hz, 1 \emptyset • Nominal Power Consumption: 200 W • Heat dissipation: 628 BTU/h <p>Lighting</p> <ul style="list-style-type: none"> • Fluorescent lamp intensity: ≥ 1200 Lux • Optional UV lamp (253.7 nm) <p>Ergonomics</p> <ul style="list-style-type: none"> • Easy-to-service. All electrical components located at the back of the front panel • Centered and angled-down location of the control panel • Low noise emission of 57.5 dBA (NSF/ANSI 49) • Optional ergonomic footrest and lab chair 		
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			<ul style="list-style-type: none"> • Angled arm rest for comfortable working position • Easy-to-reach electrical outlets located at the sides of the cabinet • Easy-to-clean covered corners in the working area and finished corners of the drain pan • Spill-containing single-piece work tray with large tray handles <p>Supplied complete with the following accessories:</p> <ul style="list-style-type: none"> • Stand with castor wheels • Germicidal Fluorescent lamp • Electrical fixtures • Supplier must provide proof that they are the official distributor of the manufacturer in Uganda for the purpose of after sales service • Supplier must attach factory training certificates of the engineers from manufacturer who will conduct installation & user training • Suppliers must attach manufacturer's authorization letter from manufacturer • Warranty 12 months 		
7	<i>Water baths;10- 22 litres</i>	2	<p>Water baths; 10-20 litres</p> <p>Digital General Purpose Water Bath “WB”, 10-22 Lit, up to 100°C, ±0.1°C with Digital Fuzzy Control System, Stainless-steel Flat Lid, and Back Light LCD, with Certi. & Traceability</p> <p>Features</p> <p>Digital Fuzzy Control System Implementing Superior Temperature Accuracy</p> <ul style="list-style-type: none"> ■ Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function * User's Self-Compensation Function to Control Difference between Real Temperature and Indicated Temperature (±10.0°C). * 304 Stainless-steel Bath & Lid for Superior Durability & High Thermal Efficiency/Constant. * Digital Timer Function(99hr 59min) : ‘Delay Time’ and ‘Operation Time’ can be Controlled. 		

			<p>* Storage Function for the Set Values of Temperature and Timer. * Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled). Capacity:10-22 Lit Temp. Range & Accuracy Room Temp.: +5°C~ 100°C, ±0.1°C Temp. Resolution : 0.1°C-Display, 0.1°C-Control Temp. Uniformity & Probe :±1.0°C, PT100 Heating Power:1 kW Timer & Alarm : 99hr 59min (Delay & Continuous run), Error status & Timer-end Display: Digital LCD with Back-Light Function Controller: Digital Fuzzy Controller with Jog - Shuttle Switch (Turn + Push) Safety: Circuit Over-Temp. / -Current protection, Sensor Error Detection Material :Stainless-steel (#304)-Internal, Powder Coated steel-External Lid included Stainless-steel Flat Lid, Optional Dome Lid Drain Valve :None) Dimension(w×d×h) Effective Space :302×240×h110mm Internal : 302×240×h150mm External :325×265×h260mm 1 Year Warranty</p>		
8	<i>Horizontal Laminar Flow Cabinet - Glass Side Wall, Fixed Sash</i>	1	<p>This workspace is an enclosed area designed for protection of personnel and samples. Air is blown through a HEPA or ULPA filter, eliminating contamination and/or hazardous particles, in a smooth flow directed toward the user.</p> <ul style="list-style-type: none"> • Specifications: • ULPA OR HEPA Filter • ISO Class 3 work zone • DC ECM blower for up to 70% energy savings • Low noise at 55.8 dBA • Glass side walls 		

			<ul style="list-style-type: none"> • Fixed Sash • Internal height: 2.50 ft • Available sizes: 4 ft • Supplied with all required accessories and installation/Training required • Warranty 12 months 		
9	<i>Incubator,140-150 litres</i>	3	<p>Cooled incubator</p> <p>Specifications</p> <ul style="list-style-type: none"> • Ensures stable heating and maximum temperature uniformity in the chamber • Standard temperature range of 0°C up to 100°C for maximum application flexibility • 2-point door seal and eccentric hinge ensures maximum gasket compression for stable chamber temperature • Display: SmartSense Microprocessor PID Control Technology • Prevents overshoot, ensures fast ramp time and stable temperature once set point is achieved • Has twin temperature display for easy monitoring (“Actual” and “Set Point” displays) • Diagnostic LEDs simplify service • Air flow adjuster via slider for exchange rate of air • Auto-Defrost System <p>Comes with a timer function (0000 - 9999 minutes) and up to 10 user configurable program operations</p> <ul style="list-style-type: none"> • Volume: 240 L- 300L • Temperature Variation per DIN 12880 Spatial Uniformity at 15°C/25°C/37°C: ± 0.3°C • Heating Up Time: 37 minutes • Recovery Time after 30 sec doors open at 5°C: 5 minutes • Number of Shelves: 2 		

			<ul style="list-style-type: none"> • Warranty 1 year • Suppliers must attach manufacturer's authorization 		
10	<i>Ultra low freezer</i>	1	<p>-Ultra low temperature upright freezer,vertical freezer Temperature Range -20°C to -70°C Power supply 220V/50Hz , Rated input 500W Volume 328 liters with minimum of 3 compartments Warranty 12 months</p>		
11	<i>Freezer</i>	1	<p>Temperature range:</p> <ul style="list-style-type: none"> • -10°C to -25°C <p>Volume 320 Ltrs</p> <p>Forced-Air Design:</p> <ul style="list-style-type: none"> • Superior forced air design instead of regular cold wall • Rapid cool-down and fast temperature recovery • Uniform temperature <p>Intelligent Automatic Defrost</p> <ul style="list-style-type: none"> • Detects ice formation • Defrosts only when needed to keep units at optimum performance • Keeps chamber temperature within safe limits <p>Energy Saving</p> <ul style="list-style-type: none"> • Low power consumption • LED lights • <p>High-Quality Construction</p> <ul style="list-style-type: none"> • Stainless steel interior 		

			<ul style="list-style-type: none"> • Electrogalvanized steel exterior • Rounded corners for optimum cleanability • Ergonomic fitted door handle <p>Warranty 12 months</p>		
12	<i>Microwave oven</i>	1	<p>- Operates just as a domestic microwave oven using time and power level</p> <ul style="list-style-type: none"> - 120 volt operation – needs no special wiring (230 VAC 50 Hz input available) - Up to 1,000 watts of microwave power. High volume cooling for long life - 5 different power levels plus a hold feature - Simple to use touch control pad - Up to twenty multistage programs can be stored for your most popular protocols - Powered cavity exhaust to remove fumes from the cavity - Mode stirrer gives excellent uniform heating without the need of a breakable turntable common to domestic microwaves - Cavity is 330mm wide x 205mm tall x 330mm deep (13" x 8 1/16" x 13") - Compact microwave. Uses minimal counter space. - Stainless steel cavity and cover for easy clean up, chemical resistance and long life. - Fully safety tested including for microwave leakage <p>1 Year Warranty</p>		
13	<i>Electronic colony counter</i>	1	<p>Automatic colony counter/zone reader</p> <p>Technical specifications:</p> <ul style="list-style-type: none"> • USB connector • Lighting by white LED Dome • Ultra HD CCD color camera, Ultra HD Japanese lens,5 megapixels • Round Petri dishes up to Ø 150mm, Square Petri dishes 120 mm • Measurement up to 16 inhibition zones 		

			<ul style="list-style-type: none"> • Automatic detection of paper disks, agar wells, Peni-cylinders • Automated background and lighting control • Supplied with software compatible Windows 7, 8 and 10 • Multi-lingual software: English, French, Japanese, Chinese, Spanish, German • Possibility of LIMS and barcode connection • Stainless steel construction • Dimensions of unit: 47 x 77 x 64 cm, 25 kg • Dimensions of box: 63 x 60 x 80 cm, 32 kg • Power: 220 / 110 V - 50 / 60 Hz • Minimum requirements PC: Intel i5 or i7, 2.8 GHz and 8 Go RAM / Graphics card: AMD or NVIDIA (chipsets not recommended) <p>Program specifications:</p> <ul style="list-style-type: none"> • Counts to 7 different colors on the same Petri dish • Automatically adapts to all kind of agar (chromogenic...) • Read Spiral, spread, surface, and pour plate • Read Petrifilm, MC Media Pad & Compact Dry • Read filter membrane and Inhibition zones • Automated motorized control of 7 combinations: lighting (upper and/or lower) as well as background (white or black) • User friendly software: press one button to count • One cursor to optimize counting • One window access to all functions • Polygonal exclusion areas • Minimum size of detected colony: 0.05 mm • Automatic separation of clustered colonies 		
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			<ul style="list-style-type: none"> Counting time: 1000 colonies per second Clear and precise visualization of detected colonies: their center is marked with a cross Powerful zoom on the image function x64 All recorded data is saved and automatically transferrable to Excel, PDF report, JPEG, PNG, BMP Connectable to LIMS 21 CFR part 11 compliant ISO 9001, CE Manufacturer's authorization required Delivered complete with software CD-ROM, Compatible PC, USB connector /Power cord, 3 validation plates and user's manual Training required for at least 2 users and 1 year Warranty 		
14	Analytical balance 210 g	2	<p>Technical Specifications</p> <p>Maximum capacity [Max]: 220 g Minimum load: 10 mg Readability [d]:0.1 mg Verification scale interval [e]:1 mg Tare range:-220 g Standard repeatability [5% Max]: 0.06 mg Standard repeatability [Max]: 0.07 mg Standard minimum weight (USP): 120 mg Standard minimum weight (U=1%, k=2): 12 mg Permissible repeatability [5% Max]: 0.09 mg Permissible repeatability [Max]: 0.1 mg Linearity: ±0.2 mg Stabilization time: 2 s Adjustment internal (automatic) OIML Class I Physical parameters</p>		

			<p>Leveling system: manual</p> <p>Display: 5" graphic color touchscreen</p> <p>Delivery components: Balance, weighing pan, weighing pan shield, bottom cover, power supply.</p> <p>Weighing chamber dimensions 190×190×222 mm</p> <p>Weighing pan dimensions: ø100 mm</p> <p>Packaging dimensions: 495×400×515 mm</p> <p>Net weight: 7.3 kg</p> <p>1 year Warranty</p>		
15	<i>Top pan balance, 610g</i>	2	<p>Technical Specifications</p> <p>Maximum capacity [Max]: 610 g</p> <p>Minimum load: 0.02 g</p> <p>Readability [d]:0.001 g</p> <p>Verification scale interval [e]: 0.01 g</p> <p>Tare range: -600 g</p> <p>Minimum weight (USP):1 g</p> <p>Minimum weight (U=1%,k=2): 0.1 g</p> <p>Repeatability (Max): 0.0015 g</p> <p>Repeatability (5% Max): 0.0005 g</p> <p>Linearity: ±0.003 g</p> <p>Stabilization time:2 s</p> <p>Adjustment internal (automatic)</p> <p>OIML Class: II</p> <p>Physical parameters</p> <p>Leveling system: manual</p> <p>Display: 5" graphic color touchscreen</p> <p>:Delivery components Balance, weighing pan, weighing pan shield, grounding foot ×1, foot ×3, power supply.</p> <p>Weighing pan dimensions: 128×128 mm</p>		

			<p>Packaging dimensions: 470×380×336 mm</p> <p>Net weight: 3.9 kg</p> <p>Gross weight: 5.5 kg</p> <p>Protection class: IP 43</p> <p>Communication interface</p> <p>Database capacity:7</p> <p>Communication interface: 2×RS232¹, USB-A, USB-B, Ethernet, Wi-Fi®</p> <p>Features of use</p> <p>Touch-free operation: 2 IR Sensors</p> <p>Electrical parameters</p> <p>Power supply Adapter: 100 – 240V AC 50/60Hz 0.6A; 12V DC 1.2A</p> <p>Balance: 12 – 15V DC 0.8A max</p> <p>Warranty 12 months</p>		
16	<i>Centrifuge</i>	1	<p>Technical Specifications</p> <p>Max. Speed: 14,000 rpm</p> <p>Max. RCF: 18,624 xg</p> <p>Max. Volume: 4 x 145 ml</p> <p>Speed range: 200 - 14,000 rpm</p> <p>Running time: 59 min 50 s / 10 s increments. 99 h 59 min / 1 min increments</p> <p>Dimensions: 14 in x 13 in x 18.7 in (W x H x D). 35.5 cm x 33 cm x 47.4 cm (W x H x D)</p> <p>Weight: 66 lbs / 30 kg</p> <p>Electricals: 50 - 60 Hz / 240 W</p> <p>Warranty 12 months</p>		
17	<i>Homogenizer, Ultra turax</i>	2	<p>Homogenizer,</p> <p>Homogenizer with Direct Controller up to 27,000 rpm, 1~2,500mℓ</p> <p>With Analog Stepless Control System, High Efficiency Dispersing Tools, High-Speed·High-Quality·Low Noise</p>		

		<p>Designed for Liquid and Tissue Samples</p> <ul style="list-style-type: none"> * Useful for All Dispersing and Homogenizing Applications * High Speed / High Quality / Low Noise : Max. 27,000 RPM (without load) * Speed & Power Control Optimized for a Sample * High Efficiency Dispersing Tool made of Stainless-steel and PTFE <p>Technical Specification</p> <p>Speed Range & Adjustment: Max. 27,000 rpm (without load), Stepless</p> <p>Working Range : 1 ~ 2,500ml</p> <p>Motor Rating (Input / Output) : Input : 300W, Output : 160 W</p> <p>Controller : Analog Phase Controller</p> <p>Safety Device Over Heat Protector</p> <p>Usable Dispersing Tool Φ8mm Stator “HT1008”, Φ10mm Stator “HT1010”, Φ18mm Stator “HT1018”, Φ25mm Stator “HT1025”</p> <p>Material : Aluminum Die-casting and ABS-Unit, Stainless-steel (#304)-Tool</p> <p>Permissible Temp. & Moisture Ambient : +5 ~ 50°C, 85%</p> <p>Extension Arm Size: Φ12.7×L250mm</p> <p>Dimension & Weight: 60×75×h215mm, 2.5kg</p> <p>Packing Size & Gross Weight: 320×300×h190mm, 5 kg</p> <p>Power Consumption: 160W</p> <p>Electrical Reqts. 1 Phase,: AC 230V, 50 / 60Hz</p>		
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			Warranty 12 months		
18	<i>Ordinary Fridges with Freezer section, Minimum 200ltrs</i>	2	<p>Ordinary Fridges with Freezer section, Minimum 200ltrs</p> <p>Key Features</p> <p>200L Gross volume</p> <p>Nofrost series</p> <p>Surrounding cooling system</p> <p>Led lighting</p> <p>Elegant design</p> <p>Recessed door handle</p> <p>Size (L x W x H cm): 581x594x1508</p> <p>Weight (kg): 47</p> <p>Color: silver</p> <p>Warranty 12 months</p>		
19	<i>Data logging Multi-meters</i>	1	<p>Data logging Multi-meters</p> <p>Temp °C/°F & RH% USB Datalogger with PDF Report, -30+70°C, 0.1~99.9% RH</p> <p>Auto-Generate a PDF & Excel Report while Plugged into PC, Programmable by Users</p> <p>Technical Specification</p> <p>Measure Range :NTC Thermistor, -30~70°C, -22~158°F Capacitor, 0.1 ~ 99.9%RH</p> <p>Accuracy: ±0.5°C ±3% (at 25°C, 10 ~ 90%), others ±5%</p> <p>Resolution: 0.1°C / 0.1°F 0.1%RH</p>		

			<p>Battery : 2×CR2032(3.0 V) Battery</p> <p>Dimension / Weight(g) : 110×45×h17mm / 80g</p> <p>Standard Package : Logger / Manual / Paper Box</p> <p>Warranty 12 months</p>		
20	Air Conditioning Unit	2	<p>Air Conditioning Unit</p> <p>Wall-mount ac with Energy Saving</p> <p>Energy Saving</p> <p>HD Filter</p> <p>Capacity (Cooling, Btu/hr): 22000 Btu/hr</p> <p>Capacity (Cooling, kW): 6.45 kW</p> <p>Warranty 12 months</p>		
21	Programable Centrifuge	1	<p>Programable Centrifuge</p> <p>bench top</p> <p>max. Speed : 14,000 rpm</p> <p>max. RCF: 15,994 xg</p> <p>max. Volume: 18 x 1.5/2.0 ml</p> <p>Speed range: 200 - 14,000 rpm</p> <p>Running time: 59min 50s / 10s increments 99h 59min / 1min increments</p> <p>Supplied with Angle Rotor 18 x 1,5/2,0 ml</p> <p>Warranty 12 months</p>		
22	Vortex Mixture	2	<p>Rotation speed: 3 inches platform/about 3220rpm (MAX),</p> <p>Mixing cap/approx 3350rpm (MAX)</p> <p>Switching operation: Continuous or touch start</p> <p>Power supply: 100VAC 50/60Hz 1A</p> <p>Size: 122 x 165 x 165mm, depends on brand</p> <p>Weight: 4kg, depends on brand</p> <p>Accessories: Mixing cap, 3 inches platform</p> <p>Warranty 12 months</p>		
23	Laboratory Blender	1	Laboratory Blender		

			<ul style="list-style-type: none"> • Capacity: 1 to 2 Litres • Powerful, 2-speed stainless steel blender has pitcher type handle and plastic lid with clear central access cap • Switch Settings: two speed, Low 18,000 rpm, High 22,000 rpm • Base: Die cast epoxycoated base • Container: Stainless steel with handle and two-piece vinyl & styrene lid • Heat-resistant glass with handle and two-piece vinyl and styrene lid • Overall height: (38/40.5cm) • Warranty 12 months 		
24	Stomacher	2	<p>Stomacher Blender.</p> <ul style="list-style-type: none"> • Sample Size: 5ml – 80ml • Supply voltage: 220-250V • Supply Frequency: 50-60Hz • Insulation: Class 1 (Earthed) • Installation: Over Voltage Category II • Pollution: Pollution Degree 2 • Duty Cycle: Continuous • Rated Load: 55W • Compliant with: EMC Directive 2014/30/EU • Low Voltage Directive 2014/35/EU • Bag sizes: 155mm(l) x 105mm(w) • 180mm(l) x 135mm(w) • Available in: Standard / Closure / Strainer types • Minimum recommended capacity: 5ml • Maximum recommended capacity: 80ml • Maximum Recommended Sample Temp: 60°C • Recommended Operating Ambient Temperature Range: 10-35°C • Recommended Operating Relative Humidity Range: 10-89% • Fixed Timer settings: 30 seconds (±5%), 60 seconds (±5%), 120 seconds (±5%), Continuous 		

			<ul style="list-style-type: none"> No load paddle speeds: 230rpm (±5%) LOW, 265rpm (±5%) NORM., 300rpm (±5%) HIGH Paddle Clearance: 0-10mm Supplied with the 100bags. Warranty 12 months 		
25	Vacuum pump	2	<p>Oil Free Vacuum pump Specifications</p> <ul style="list-style-type: none"> Max. power: 60W Max. current: 0.3A Max. vacuum: 99 mbar Max. flow rate: 20 L/min Noise level: 50 dB Hose barb: ID8 Dimension (LxWxH): 27 x 14 x 20 cm Vacuum Regulator: Yes Filter cartridge: Yes Overflow protection: Yes Overheat protection: Yes Warranty 12 months 		
26	Ordinary Fridges with Freezer section, Minimum 300ltrs	2	<ul style="list-style-type: none"> Upright model. Refrigerator, Upright model, Minimum 300L , Temp +2 to +15C with digital display ·Double door fridge with Freezer Compartment · Frost Free Single phase 230 240V, 50 Hz Additional requirements; Supplied with voltage stabilizer Warranty of 1 year 		
27	pH/Conductivity/TDS	2	Bench top pH, TDS, Conductivity with Comprehensive GLP Functions		

			<p>Simultaneous measurement with two independent measuring channels With a large 16:9 color graphic display under a hygienic glass shield and antibacterial keyboard it can be used even in critical areas. Two USB interfaces to communicate with the computer, printer or USB memory stick allow the transfer of all data. An activatable user administration expands the automatic GLP documentation with additional safety and traceability. Data memory: manual 500/10000 automatic Calibration points pH: 1–5 Conductivity Calibration points: 1 pH measuring range: 0.000 ... 14.000 or better Temperature range: 0 ... 100 °C PH accuracy: ± 0.004 Conductivity: 0.000 to 9.999 µS/cm, 10.00 to 99.99 µS/cm, 100.0 to 999.9 µS/cm, 1.000 to 9.999 or better Temperature: 0 ... 100.0 °C ±0.2 °C TDS: 0 ... 1999 mg/l, 0.0 ... 199.9 g/l ±0.5 % of value or better Salinity: 0.0 ... 70,0 ± 0.5 % of value or better Spec. resistance: 0.5 Ohm cm ...100 kOhm cm ±0.5 % of value Requirement Meter to be provided with calibration solutions 1 year warranty</p>		
28	Halogen Moisture Analyzer HX204	1	<ul style="list-style-type: none"> • Maximum capacity [Max] 200g • Readability; 1 mg, 0.01% MC • Repeatability; 0.10% (2 g sample) & 0.015% (10 g sample) • Heating module: Halogen lamp • Temperature range: 40 – 230°C (1°C increments) • Drying programs: Standard, Rapid • Switch-off Automatic (5 SOC and free), timed • Display modes: %MC, %DC, %ATRO MC, • % ATRO DC, g 		

			<ul style="list-style-type: none"> • Method memory: 20 • Results storage: 100 • Connectivity: USB host (2), USB device, RS232 • Display: 7" color touchscreen • Languages: en • 1 year warranty 		
29	Oven 110 Litre	2	<p>Digital Drying oven Provides uniform temperatures during drying, polyimide baking, sterilizing</p> <ul style="list-style-type: none"> • Temperature range: Ambient +5 °C to 300 °C • Temperature Variation Per DIN 12880 at 70°C: ±1.0°C • Temperature Fluctuation Per DIN 12880 at 70 °C: ±0.3°C • Capacity: 110 Litres • Total Load, Maximum: 60 kg • Has two separate & independent displays for set temperature and actual temperature • Load Per Shelf: 30 kg • Oven Construction: Electrogalvanized steel grade 304 with white oven-baked epoxy powder-coated finish • Power Rating: 220-240V, AC, 50/60Hz, 1Ø • Has multiple redundant over-temperature protection systems to guarantee maximum sample and user protection • Has electronic over-temperature protection built into the microprocessor • Has redundant mechanical over-temperature protection, adjustable from the front, independent from the microprocessor • Its's overall temperature protection meets DIN 12880 Class 3.1. • Has electric circuit protection & all electrical components are UL recognized • Supplied with 2 stainless steel shelves and key lock • 1 Year warranty 		

30	Furnace, 6 to 10 Litre	1	<ul style="list-style-type: none"> • Digital display and controlled setting • Maximum temperature 1100°C • Volume Minimum 6 to 8 litres • Power supply 200-240V 50/60 Hz 10Amps • Max. power rating 2000 W <p>Additional requirements;</p> <ul style="list-style-type: none"> • 1 year warranty and confirmation for availability of spares for 10 years 		
31	Crucibles, Quart, 50ml capacity, 3mm thickness	30	Crucibles, Quartz, 50ml capacity, 3mm thickness		
32	Turbidity meter	1	<ul style="list-style-type: none"> • Optics: Turbidity is measured according to EN ISO 7027 by nephelometric means (90° scattered light) • Measuring Principle: nephelometric (90° scattered light) • Measuring Range: 0.01 - 1100 NTU (Autorange) • Accuracy: ± 2 % of reading, or ± 0.01 NTU, whichever is bigger, in the range of 0.01 - 500 NTU ; ± 5 % of reading in the range of 500 - 1000 NTU • Suitable Vials: Round Cuvettes 24 mm • Display: Graphic-Display • Interfaces: RS 232 • Operation: acid and solvent resistant; membrane keypad • Calibration: automatic overall range adjustment with Standard-Set T-Cal • Internal Storage: 1000 data sets • Power Supply: 7 NiMH-battery pack (AA/Mignon) and Universal (90 - 240 VAC), via external power supply • Supplied with calibration solutions • Clock: Real Time Clock • Warranty 12 months 		

33	Heavy-duty vortex mixer designed to facilitate hands-free mixing in tubes, e.g BenchMixer™ XL Multi-Tube Vortexer	1	<p>Heavy-duty vortex mixer</p> <ul style="list-style-type: none"> • Speed Range: 500 -2500 rpm • Timer: 1 min. to 99 hr. 59 min. • Orbit: 3.6mm • Dimensions (in): 15 x 9.2 x 16.5 • Dimensions (cm): 38.5 x 23.5 x 42 • Platform Dims: 12 x 7 in. / 30 x 17.8 cm • Electrical: 100 to 240V 50-60Hz; 60W • Warranty: 2 years • Supplied complete with racks for 15 ml and 50 ml conical tubes 		
34	Laboratory Sample mill	1	<p>Laboratory Sample mill</p> <ul style="list-style-type: none"> • Laboratory Sample mill with separated cup -400cc • Speed range: 0-30,000 rpm • Stainless Steel container and blending assembly • Laboratory Sample Mill with separated grind container • For dry materials • 240V, 50/60hz; 1 phase • Warranty 12 months 		
35	Hydrometer, Complete set different sizes	1	<p>A Hydrometer Set consisting of DURAC® Specific Gravity/Relative Density (g/cm³)</p> <p>Plain Form Hydrometers for measuring specific gravity of heavy and light liquids in various ranges from 0.700 to 2.000</p> <ul style="list-style-type: none"> • Hydrometers are 300mm (12") long and made with lead free ballast and glass • Temperature standardization: 60°F (15°C) • Thermometer is 300mm (12") long and made of leadfree glass; contains green EnviroKleen™ certified, environmentally friendly liquid fill • Divisions of 0.001 • Supplied with a calibration certificate 		

			<ul style="list-style-type: none"> • Warranty 12 months 		
36	Analytical balance anti vibration tables	2	<ul style="list-style-type: none"> • Analytical Balance , weighing table • Ant vibration balance table • Formica covered metal table with central polished granite plate to support the balance, mounted on silent blocks. • Adjustable shock device. • Minimum weight 40 Kg • Height / Width / Depth: 80 x 90 x 70 cm • Warranty 12 months 		
37	Sonicator	1	<p>Heating cleaning bath</p> <ul style="list-style-type: none"> • Digital electronic regulation of temperature and time • For temperatures from ambient +5°C till 80°C • Capacity: 5-6 liters • Inner Tank Material -Stainless Steel • Outer Housing Material -Stainless Steel • Power Supply: 220 V, AC, 50 Hz, Single phase <p>CONTROL PANEL</p> <ul style="list-style-type: none"> • Illuminated main switch. • Start-stop push button. • Increase/decrease time push button in minutes (from 0' to 99'). • Increase/decrease temperature push button in °C. • Warranty 12 months 		

LOT 3: Glassware

	ITEM	MINIMUM SPECIFICATIONS	QTY	Supplier's Item Specifications (Please indicate the specifications of the proposed item)	Country of Origin
1	Condenser glass quick fit, for refluxing and distillation overall length approximately 300-390mm	Size S/N 29/32, Borosilicate or equivalent	2 pieces		
2	Round bottomed flask, (flasks quick fit neck 29/32, capacities: 250mls, 500mls,	flasks quick fit neck 29/32, capacities: 250mls,	2		
3	Flat bottomed flask, (flasks quick fit neck 29/32, capacities: 250mls, 500mls,	flasks quick fit neck 29/32, capacities: 500mls,	2		
4	Beakers, borosilicate glass, low form, with spout, capacities: 50mls, 100mls, 250mls, 400mls, 500mls	borosilicate glass, 10pcs each size x 3	10pcs each size x 3		
6	Bottles, glass, with polyethylene- or polypropylene-caps, 50mls capacity with screwcap	Bottles, glass, with polyethylene- or polypropylene-caps	10pcs		
7	Burette, class A, 25ml capacity	Burette, class A, 25ml capacity	3pcs		
9	Erlenmeyer flasks (conical flasks), borosilicate glass, graduated, narrow neck, quick fit, neck 29/32; 250ml, flat bottom	Erlenmeyer flasks (conical flasks), borosilicate glass, graduated, narrow neck, quick fit, neck 29/32; 250ml, flat bottom	5pcs		
10	Erlenmeyer flasks (conical flasks), borosilicate glass, graduated, narrow neck, quick fit, neck 29/32; 500mls, flat bottom	Erlenmeyer flasks (conical flasks), borosilicate glass, graduated, narrow neck, quick fit, neck 29/32; 500mls, flat bottom	5pcs		

11	Evaporating dishes, fused silica, height: 45mm, top width: 110mm, height: 45mm, volumetric capacity: 200 – 250ml	Evaporating dishes, fused silica, height: 45mm, top width: 110mm, height: 45mm, volumetric capacity: 200 – 250ml	10pcs		
12	Gloves, heat resistant, Polysafe brand, with fingers, knitted from cut and heat resistant yarn, with inner cotton lining, 350mm long	Gloves, heat resistant,	10pairs		
13	Gooche crucible, 100ml capacity	Glass Crucible Gooch Filter Crucible with Fritted Disc, 100 ml G2 Porosity	5pcs		
14	Mercury column thermometer, Mercury (–37 to 356 °C) or better. Range, supplied with calibration certificate	(–37 to 356 °C) or better. Range, supplied with calibration certificate	3pcs		
15	Pipette controller, Bibbette, fits pipettes of 0.1 to 100ml capacities, supplied with a pack of 10 membrane filters, and a silicone replacement adapter	Bibbette, fits pipettes of 0.1 to 100ml capacities, supplied with a pack of 10 membrane filters, and a silicone replacement adapter	3pcs		
16	Desiccator, glass with cover and stop cock at top	Middle plate diameter: ϕ 100mm Total height: 187 mm Material: Soda lime glass With middle plate	2		
17	Pipette, graduated, class A, 10ml, 25ml, 50 ml capacity	Pipette, graduated, class A, 10ml, 25ml, 50 ml capacity	10ml Qty 20 25ml Qty 20 50ml Qty 20		
18	Pipette, volumetric, class A, 10ml, 25ml, 50 ml capacity	Pipette, volumetric, class A, 10ml, 25ml, 50 ml capacity	10ml Qty 20 25ml Qty 20 50ml Qty 20		

19	Polyethylene Pasteur pipettes, graduated, plastic, 5ml capacity, division: 0.5ml	graduated, plastic, 5ml capacity, division:	3 packs of 100 each x 3		
20	Separating funnels, 500mls capacity, glass, with glass stoppers	500mls capacity, glass, with glass stoppers	10		
21	Reflux Condenser, quick fit, S/N, 29/32, complete with flat base round bottom flasks	quick fit, S/N, 29/32,	3		
22	Density bottles, 50ml class A	50ml class A	3		
23	Moisture dishes, Stainless steel; Evaporating / Moisture dishes, metallic 8 cm diameter 2 cm height. With fitting lid and made of stainless steel	Metallic 8 cm diameter 2 cm height. With fitting lid and made of stainless steel	20 pcs		
24	Micropipette tips; (100-1000) μ l, pk of 1000	Micropipette tips; (100-1000) μ l, pk of 1000	4		
25	Micropipette tips; 2-200 μ l pk of 1000	Micropipette tips; 2-200 μ l pk of 1000	2		
26	Micropipette (20-200 μ l) adjustable volume, Qty 2 Eppendorf or equivalent Brand	(20-200 μ l) adjustable Eppendorf or equivalent Brand	2		
27	Micropipettes; (100-1000) μ l, adjustable volume, for chemistry	(100-1000) μ l, adjustable volume,	2		
28	Micropipettes; (100-1000) μ l, adjustable volume, for Microbiology	5ml, adjustable volume,	2		
30	Culture bottles, 500ml	500ml	10 Pieces		
31	Culture bottles, 1000ml	1000ml	10 Pieces		
32	Culture bottles, 250ml	250ml	10 Pieces		
33	Measuring cylinders , 500ml	500ml	10 Pieces		
34	Measuring cylinders , 250ml	250ml	10 Pieces		
35	Measuring cylinders , 100ml,	100ml	10 Pieces		

36	Measuring cylinders , 10ml	10ml	10 Pieces		
37	Petri dishes ,	<p>Sterile Disposable Petri Dish in Polystyrene</p> <p>Individually packed in polyethylene bags and sterilized with radiation.</p> <p>Material: Polystyrene.</p> <p>Size (outer diameter): 90 mm.</p> <p>Max. temperature: 121°C.</p>	500 pieces		
37	Autoclavable micropipettes – Variable volume	<p>Pieces ; 500 10000; Volume Range (µl)</p>	10		

LOT 4: Portable GC/MS

#	ITEM	MINIMUM SPECIFICATIONS	QTY	Supplier's Item Specifications (Please indicate the specifications of the proposed item)	Country of Origin

1	<p>Portable Gas Chromatography Mass spectrometer, GC/MS for determination of organic contaminants, including Pesticide Residues (organophosphorus, organochlorine, triazines, Pyrethroids, etc), Polyaromatic hydrocarbons, monoaromatic hydrocarbons, phenols, phthalates, and other organic contaminants in Food and Environmental samples.</p>	<p>Portable Gas Chromatography Mass spectrometer, GC/MS for determination of organic contaminants, including Pesticide Residues (organophosphorus, organochlorine, triazines, Pyrethroids, etc), Polyaromatic hydrocarbons, monoaromatic hydrocarbons, phenols, phthalates, and other organic contaminants in Food and Environmental samples.</p> <p>GC/MS. KEY FEATURES</p> <ul style="list-style-type: none"> • Portable, lightweight GC/MS with laboratory equivalent chromatographic resolution • Operates under harsh conditions, providing routine calibration and automated performance validation • Fast startup and cycle times – can process up to 12 samples per hour • Operates on battery power for up to 2.5 hours, and has an on-board disposable helium carrier gas cartridge • Portable Gas chromatograph/mass spectrometer (GC/MS) fast, reliable and easy to use. • Technology that integrates a high speed low thermal mass (LTM) capillary gas chromatograph (GC) with a miniaturized toroidal iontrap mass spectrometer to provide a fast, reliable and easy-to-operate GC/MS. • The portable and designed to carry in the field and ideal for rapid screening of chemicals such as organic contaminants, including Pesticide Residues (organophosphorus, organochlorine, triazines, Pyrethroids, etc), Polyaromatic hydrocarbons, monoaromatic hydrocarbons, phenols, phthalates, and other organic contaminants in Food and Environmental sample .environmental volatiles and 	1		
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		<p>semivolatiles (VOCs/SVOCs), explosives, chemical threat, and hazardous substances.</p> <p>KEY FEATURES</p> <ul style="list-style-type: none"> • Portable, lightweight GC/MS with laboratory equivalent chromatographic resolution • Operates under harsh conditions, providing routine calibration and automated performance validation • Fast startup and cycle times – can process up to 12 samples per hour • Operates on battery power for up to 2.5 hours, and has an on-board disposable helium carrier gas cartridge <p>SUPERIOR TECHNOLOGY</p> <ul style="list-style-type: none"> • Small diameter LTM capillary GC for high speed, high resolution separation of chemical analytes • Rapid temperature programming delivers analysis times of under three min. • Sensitive and selective mass-based detection of a wide range of chemicals • Easy to operate with a color touch-screen display and simple navigation buttons <p>SYSTEM SPECIFICATIONS</p> <ul style="list-style-type: none"> ▪ Dimensions: 15" x 15.5" x 9" (38.1 cm x 39.4 cm x 22.9 cm) without handle, may vary slightly depending on brand ▪ Weight: 32 lbs (14.5 kg), including battery, may vary slightly depending on brand ▪ Operating Temperature: 5 ° to 40 ° C continuous operation with vent ports closed ▪ Up to 45 ° C continuous operation with vent ports open 			
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		<ul style="list-style-type: none"> ▪ Operating Humidity Up to 100% RH non-condensing ▪ Power Supply Rechargeable Lithium Ion batteries or AC converter (100-120 V/220-240 V, 50/60 Hz, 2.0A) ▪ with power source and level indicators ▪ Sample Introduction Solid phase microextraction (SPME), Needle trap, and SPS-3 Sample prep station for air sample processing and internal standard addition ▪ Carrier Gas: High purity helium (99.5%) or Ultra-high purity (99.995%) helium ▪ User Interface: Color touch screen with on-board operating menus and navigation key pad ▪ User Software: (PC/Laptop) Chromion for method & library development, also data processing and evaluation ▪ Training: Beginner/Advanced operator and maintenance courses available ▪ Communication Interface: Ethernet or RF (2.4 GHz) Wireless ▪ Battery Lifetime: Rechargeable, up to 2.5 hours lifetime ▪ Helium Cylinder Lifetime Typically 100 - 150 analyses per disposable cylinder, minimum. ▪ SPME Lifetime Over 50+ analyses (depending on sample type) 			
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		<ul style="list-style-type: none"> ▪ Display 5.7" color touch-screen display, may vary slightly depending on brand ▪ Operating System Windows CE Operating System ▪ mass range from 41 to 500 Daltons. ▪ Data Format net.CDF ▪ Detection Limit ; PPT to PPB for most analytes ▪ Peak Power ~120 W peak power and ~60 W average power ▪ Memory On-board removable SD flash card; standard and On-the-go mini USB ports <p>Low Therma Mass (LTM) capillary Gas Chromatography</p> <ul style="list-style-type: none"> ▪ LTM Column (Standard) MXT-5, 5m x 0.1 mm x 0.4 μm ▪ Temperature Program; Adjustable between 40 to 300 degrees Celsius. ▪ Temperature ramp rate; up to 2.5°C/SEC OR 150°C/min ▪ Split/Splitless injection ; Splitless/ Selectable split; (30:1; 150:1; 200:1) ▪ Septum Purge; 5ml/min ▪ Programmable Flow rate; Electronic pressure programming using variable flow orifice <p>Ion Trap Mass spectrometer</p> <ul style="list-style-type: none"> ▪ Mass Analyser; Toroidal ion Trap ▪ Mass Range: 45 -500m/z ▪ Resolution Better than unit mass resolution from 45-300 amu and nominal mass resolution up to 500amu 			
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		<ul style="list-style-type: none"> ▪ Ionization mode; In- Trap Electron impact ▪ Detector ; Electron Multiplier- novel dual rectangular configuration ▪ Vacuum: Dual stage vacuum system, diaphragm roughing and turbo molecular pumps nominal operating pressure 10^{-3} to 10^{-4} Torr ▪ Heated Ion trap; Adjustable from 100°C to 180°C ▪ Chemical Libraries; User defined target libraries using GC retention times and mass spectral data, NIST library search. <p>Additional Requirements</p> <ul style="list-style-type: none"> ▪ Supplied with all relevant accessories including columns, standards, gas, connecting tubings, UPS, for startup and ready to use for pesticide residue analysis. ▪ Installation and a Minimum of 3 days Training for at least 2 users ▪ Warranty of at least 1 year ▪ Guarantee of availability of spares for at least 10 years 			
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SECTION IV - PRICE SCHEDULE FOR GOODS

Name of Supplier _____ Tender Number _____ Page _____ of _____

LOT I: Chemistry Equipment

S/N	EQUIPMENT	QTY	Unit Price	Total Price	Country of Origin
1	Aflatoxin Lateral flow Reader equipment and supplied with Kits for startup For Grains, flour, raw feed material, some of finished feed etc	1			
2	NIR Alcohol Beverages analyzer for different tests and types of alcoholic beverages	1			
3	Benchtop XRF equipment for elemental and heavy metal analysis of solids and liquid samples at low detection levels, from ppb to 100%.	1			
4	NIR Analyzer for proximate analysis of various products; milk, cereals, edible oils, supplied complete with all calibrations	1			
5	Portable Geiger Counters for range of detection of multiple types of ionizing radiation—alpha, beta, X-rays, and gamma, Uranium, radium and radon, Polonium etc	1			
6	Portable Gas analyser equipment for Nitrogen, Oxygen and other gasses like carbon dioxide with connecting tubing's	1			
7	Handheld- XRF for analysis of precious metals; gold, silver, platinum, palladium, rhodium, ruthenium, iridium, and osmium etc	1			
8	Handheld Digital Refractometer,	1			
9	Water baths;15- 24 litres	2			
10	Ducted fume hoods	1			
11	Heating mantles, programmable	4			
12	Hot plates, digital and temp controlled	4			

13	UPS, 6KVA with power extension batteries 6kv with extension batteries	2			
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Lot 2: Microbiology Equipment

	ITEM	QTY	Unit Price	Total Price	Country of Origin
1	Fridge freezer with 271 litre refrigerator & 113 litres freezer minimum for Chemistry	2			
2	Autoclave 50-90 Litre	2			
3	Fridge freezer with 271 litre refrigerator & 113 litres freezer minimum, for Microbiology	2			
4	<i>Digital laboratory Oven 110 Litre</i>	2			
5	Digital Heated Incubator 155 litre	2			
6	Biosafety cabinet	1			
7	<i>Water baths;10- 22 litres</i>	2			
8	<i>Horizontal Laminar Flow Cabinet - Glass Side Wall, Fixed Sash</i>	1			
9	<i>Incubator,140-150 litres</i>	3			
10	<i>Ultra low freezer</i>	1			
11	<i>Freezer</i>	1			
12	<i>Microwave oven</i>	1			
13	<i>Electronic colony counter</i>	1			
14	<i>Analytical balance 210 g</i>	2			
15	<i>Top pan balance, 610g</i>	2			
16	<i>Centrifuge</i>	1			
17	<i>Homogenizer, Utra turax</i>	2			
18	<i>Ordinary Fridges with Freezer section, Minimum 200ltrs</i>	2			
19	<i>Data logging Multi-meters</i>	1			

20	Air Conditioning Unit	2			
21	Programable Centrifuge	1			
22	Vortex Mixture	2			
23	Laboratory Blender	1			
24	Stomacher	2			
25	Vacuum pump	2			
26	Ordinary Fridges with Freezer section, Minimum 300ltrs	2			
27	pH/Conductivity/TDS	2			
28	Halogen Moisture Analyzer HX204	1			
29	Oven 110 Litre	2			
30	Furnace, 6 to 10 Litre	1			
31	Crucibles, Quart, 50ml capacity, 3mm thickness	30			
32	Turbidity meter	1			
33	Heavy-duty vortex mixer designed to facilitate hands-free mixing in tubes, e.g BenchMixer™ XL Multi-Tube Vortexer	1			
34	Laboratory Sample mill	1			
35	Hydrometer, Complete set different sizes	1			
36	Analytical balance anti vibration tables	2			
37	Sonicator	1			

Lot 3: Glassware

	ITEM	QTY	Unit Price	Total Price	Country of Origin
1	Condenser glass quick fit, for refluxing and distillation overall length approximately 300-390mm	2 pieces			
2	Round bottomed flask, (flasks quick fit neck 29/32, capacities: 250mls, 500mls,	2			
3	Round bottomed flask, (flasks quick fit neck 29/32, capacities: 250mls, 500mls,	2			

4	Beakers, borosilicate glass, low form, with spout, capacities: 50mls, 100mls, 250mls, 400mls, 500mls	10pcs each size x 3			
5	Bottles, glass, with polyethylene- or polypropylene-caps, 50mls capacity with screwcap	10pcs			
6	Burette, class A, 25ml capacity	3pcs			
7	Erlenmeyer flasks (conical flasks), borosilicate glass, graduated, narrow neck, quick fit, neck 29/32; 250ml, flat bottom	5pcs			
8	Erlenmeyer flasks (conical flasks), borosilicate glass, graduated, narrow neck, quick fit, neck 29/32; 500mls, flat bottom	5pcs			
9	Evaporating dishes, fused silica, height: 45mm, top width: 110mm, height: 45mm, volumetric capacity: 200 – 250ml	10pcs			
10	Gloves, heat resistant, Polysafe brand, with fingers, knitted from cut and heat resistant yarn, with inner cotton lining, 350mm long	10pairs			
11	Gooche crucible, 100ml capacity	5pcs			
12	Mercury column thermometer, Mercury (-37 to 356 °C) or better. Range, supplied with calibration certificate	3pcs			
13	Pipette controller, Bibbette, fits pipettes of 0.1 to 100ml capacities, supplied with a pack of 10 membrane filters, and a silicone replacement adapter	3pcs			
14	Desiccator, glass with cover and stop cock at top	2			
15	Pipette, graduated, class A, 10ml, 25ml, 50 ml capacity	10ml Qty 20 25ml Qty 20			

		50ml Qty 20			
16	Pipette, volumetric, class A, 10ml, 25ml, 50 ml capacity	10ml Qty 20 25ml Qty 20 50ml Qty 20			
17	Polyethylene Pasteur pipettes, graduated, plastic, 5ml capacity, division: 0.5ml	3 packs of 100 each x 3			
18	Separating funnels, 500mls capacity, glass, with glass stoppers	10			
19	Reflux Condenser, quick fit, S/N, 29/32, complete with flat base round bottom flasks	3			
20	Density bottles, 50ml class A	3			
21	Moisture dishes, Stainless steel; Evaporating / Moisture dishes, metallic 8 cm diameter 2 cm height. With fitting lid and made of stainless steel	20 pcs			
22	Micropipette tips; (100-1000) µl, pk of 1000	4			
23	Micropipette tips; 2-200µl pk of 1000	2			
24	Micropipette (20-200 µl) adjustable volume, Qty 2 Eppendorf or equivalent Brand	2			
25	Micropipettes; (100-1000) µl, adjustable volume, Chemistry	2			
26	Micropipettes; (100-1000) µl, adjustable volume, microbiology	2			
27	Culture bottles, 500ml	10 Pieces			
31	Culture bottles, 1000ml	10 Pieces			

32	Culture bottles, 250ml	10 Pieces			
33	Measuring cylinders , 500ml	10 Pieces			
34	Measuring cylinders , 250ml	10 Pieces			
35	Measuring cylinders , 100ml	10 Pieces			
36	Measuring cylinders , 10ml	10 Pieces			
37	Petri dishes ,	500 pieces			
37	Autoclavable micropipettes – Variable volume, 500 10000 ; Volume Range (µl)	10			

Lot 4: Portable GC/MS

#	ITEM	QTY	Unit Price	Total Price	Country of Origin
1	Portable Gas Chromatography Mass spectrometer, GC/MS for determination of organic contaminants, including Pesticide Residues (organophosphorus, organochlorine, triazines, Pyrethroids, etc), Polyaromatic hydrocarbons, monoaromatic hydrocarbons, phenols, phthalates, and other organic contaminants in Food and Environmental samples.	1			

Signature of Supplier _____

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

SECTION V - APPENDICES

APPENDIX 1: MANUFACTURER'S AUTHORIZATION FORM

Note: This form shall be completed and submitted alongside the Technical bid

To TMA

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.

APPENDIX 2: TECHNICAL BID SUBMISSION FORM

Note: This form shall be completed and submitted alongside your Qualification/Technical Bid

Technical Bid Submission Form

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission]*

To: **Trademark Africa**

Fidelity Insurance Centre

2nd Floor, Off Waiyaki Way

P.O Box 313-00606

Nairobi, Kenya.

Tel +254 20 423 5000

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents;
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services *[insert a brief description of the Goods and Related Services]*;
- (c) Our bid shall be valid for the period of time specified in the ITT, from the date fixed for the bid submission deadline in accordance with the ITT, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our bid is accepted, we commit on request to obtain a performance security for the due performance of the Contract;
- (e) We have no conflict of interest;
- (f) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall not constitute a binding contract between us, until a formal contract is prepared and executed.
- (g) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed: *[signature of person authorized by the Bidder to sign the bid submission form, and whose name and title are shown below]*

Name: *[insert full name]*

Title: *[insert official title]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

APPENDIX 3: FAIR PRICE DECLARATION FORM

Note: This form shall be completed and submitted alongside the Financial bid

We/I _____ [insert name of the consultant or consultancy firm] hereby declare that the price quoted in our financial proposal/quotation/ pro-forma invoice [delete that which is not applicable] are in line with the market rates and/or the approved professional charges and are economical. We also confirm that the prices quoted have been arrived at independently and without consultation with any other supplier. We/I hereby give Trademark Africa authority to terminate the contract without further communication should they discover that we/I _____ [insert name of consultant or consultancy firm] are/am in contravention of this declaration.

Name:

Designation:

Signature:

Date:

APPENDIX 4: TMA SUPPLIER CODE OF CONDUCT

**Note: This form shall be completed and submitted alongside the Qualification/Technical Bid
See Attached**

APPENDIX 5: FINANCIAL BID SUBMISSION FORM

Note: This form shall be completed and submitted alongside the Financial Bid

Financial Bid Submission Form

Dear Sirs:

We, the undersigned, offer to provide the consulting services for [Insert title of assignment] in accordance with your Request for Proposal dated [Insert Date] and our Technical Proposal.

Our attached Financial Proposal is for the amount of [Indicate the corresponding to the amount(s) currency (ies)] [Insert amount(s) in words and figures], including all applicable taxes in line with Clause 9 of this RFP tender document.

This financial bid submission/ proposal is in line with Pro-forma 1, 2, 3 and 4 of Annex 1 of this RFP tender document.

Our Financial Proposal shall be binding upon us subject to the modifications resulting from any contract negotiations, up to expiration of the validity period of the Proposal, up to 120 days after bid submission date, that is, 21st April 2021.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours Sincerely,

Authorized Signature [In full and initials]: _____

Name and Title of Signatory: _____

In the capacity of: _____

Address: _____

E-mail: _____

[For a joint venture, either all members shall sign or only the lead member/ consultant, in which case the power of attorney to sign on behalf of all members shall be attached]

APPENDIX 6: PERFORMANCE SECURITY FORM

[This is for information purposes only]

Performance Security Form

Date: *[insert date (as day, month, and year) of Performance Security]*

Procurement Reference No: *[insert Procurement Reference Number]*

To: *[insert complete name of Procuring and Disposing Entity]*

WHEREAS *[insert name complete of Provider]* (hereinafter “the Provider”) has undertaken, pursuant to Contract No. *[insert number]* dated *[insert day, month and year]* to provide *[brief description of the Services]* (hereinafter “the Contract”).

AND WHEREAS it has been stipulated by you in the aforementioned Contract that the Provider shall furnish you with a *[insert type of security]* Security issued by a reputable guarantor for the sum specified therein as security for compliance with the Provider’s performance obligations in accordance with the Contract.

AND WHEREAS the undersigned *[insert complete name of Guarantor]*, legally domiciled in *[insert complete address of Guarantor]*, (hereinafter the” Guarantor”), have agreed to give the Provider a security:

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

This security is valid until the *[insert number]* day of *[insert month]*, *[insert year]*.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458, except that subparagraph (ii) of Sub-article 20 (a) is hereby excluded.

Name: *[insert complete name of person signing the Performance Security]*

In the capacity of *[insert legal capacity of person signing the Performance Security]*

Signed: *[signature of person whose name and capacity are shown above]*

Duly authorised to sign the Security for and on behalf of: *[insert complete name of Financial Institution]*

Dated on _____ day of _____, _____ *[insert date of signing]*

APPENDIX 7: ADVANCE PAYMENT SECURITY FORM

[This is for information purposes only]

Advance Payment Security Form

The Advance Payment Security should be on the letterhead of the issuing Financial Institution and should be signed by a person with the proper authority to sign documents that are binding on the Financial Institution]

Advance Payment Security

Date: *[insert date (as day, month, and year) of Advance Payment Security]*

Procurement Reference No.: *[insert Procurement Reference number]*

To: *[insert complete name of Procuring and Disposing Entity]*

In accordance with the payment provision included in the Contract, in relation to advance payments, *[insert complete name of Provider]* (hereinafter called "the Provider") shall deposit with Trademark Africa a security consisting of *[indicate type of security]*, to guarantee its proper and faithful performance of the obligations imposed by said Clause of the Contract, in the amount of *[insert currency and amount of guarantee in words and figures]*.

We, the undersigned *[insert complete name of Guarantor]*, legally domiciled in *[insert full address of Guarantor]* (hereinafter "the Guarantor"), as instructed by the Provider, agree unconditionally and irrevocably to guarantee as primary obligor and not as surety merely, the payment to Trademark Africa on its first demand without whatsoever right of objection on our part and without its first claim to the Provider, in the amount not exceeding *[insert currency and amount of guarantee in words and figures]*.

This security shall remain valid and in full effect from the date of the advance payment received by the Provider under the Contract until *[insert day and month]*, *[insert year]*.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458, except that subparagraph (ii) of Sub-article 20(a) is hereby excluded.

Name: *[insert complete name of person signing the Security]*

In the capacity of *[insert legal capacity of person signing the Security]*

Signed: *[signature of person whose name and capacity are shown above]*

Duly authorized to sign the Security for and on behalf of: *[insert complete name of the Financial Institution]*

Dated on _____ day of _____, _____ *[insert date of signing]*

APPENDIX 8: CONFIDENTIALITY AGREEMENT

Note: This form shall be completed and submitted alongside the Qualification/Technical Bid Background

TradeMark Africa (TMA) is a leading African Aid-for-Trade organisation, founded in 2010 with the mission to grow intra-African trade and increase Africa's share in global trade, while helping make trade more pro-poor and environmentally sustainable. TMA operates on a not-for-profit basis and is funded by: the Bill and Melinda Gates Foundation, Canada, Denmark, the European Union, Finland, France, Ireland, the Mastercard Foundation, the Netherlands, Norway, the United Kingdom, and the United States of America. TMA works closely with regional and continental organisations, national Governments, the private sector, and civil society.

Since its inception, TMA has delivered substantial gains for trade and regional economic integration in East Africa and the Horn of Africa, including a reduction of 16.5% in cargo transit times on the Northern Corridor from Mombasa to Bujumbura, and a reduction of an average of 70% in the time taken to cross selected one stop border posts. TMA works in 14 countries across East and West Africa, Southern Africa, and the Horn.

In 2022, TMA set up a catalytic finance company – Trade Catalyst Africa – that will pilot commercially viable projects for creating trade infrastructure (both physical and digital) as well as increasing access to Trade Finance for Small and Medium Enterprises (SMEs).

Both TCA's and TMA's headquarters are in Nairobi, Kenya. Offices are in: EAC (East Africa Community) Secretariat - Arusha, Burundi, the Democratic Republic of Congo, Djibouti, Ethiopia, Ghana, Malawi, Rwanda, Somaliland, Tanzania, and Uganda, with operations in Mozambique, South Sudan, and Zambia. For more information, please visit www.trademarkafrika.com

Confidentiality Agreement

It is understood and agreed to that the below identified discloser of confidential information may provide certain information that is and must be kept confidential. To ensure the protection of such information, and to preserve any confidentiality necessary under patent and/or trade secret laws, it is agreed that

1. The Confidential Information to be disclosed can be described as and includes:
Invention description(s), technical and business information relating to proprietary ideas and inventions, ideas, patentable ideas, trade secrets, drawings and/or illustrations, patent searches, existing and/or contemplated products and services, research and development, production, costs, profit and margin information, finances and financial projections, customers, clients, marketing, and current or future business plans and models, regardless of whether such information is designated as "Confidential Information" at the time of its disclosure.
2. The Recipient agrees not to disclose the confidential information obtained from the discloser to anyone unless required to do so by law.
3. This Agreement states the entire agreement between the parties concerning the disclosure of Confidential Information. Any addition or modification to this Agreement must be made in writing and signed by the parties.

4. If any of the provisions of this Agreement are found to be unenforceable, the remainder shall be enforced as fully as possible and the unenforceable provision(s) shall be deemed modified to the limited extent required to permit enforcement of the Agreement as a whole.

WHEREFORE, the parties acknowledge that they have read and understand this Agreement and voluntarily accept the duties and obligations set forth herein.

On Behalf of the Service provider:

Name: _____

Signature: _____

Date: _____

APPENDIX 9: BIDDERS CONFLICT OF INTEREST FORM

Note: This form shall be completed and submitted alongside the Qualification/Technical Bid

Tender Number:

Tender Title:

TMA operates procurement processes which are fair, transparent and able to withstand probity. In view of this, TMA requires that any potential bidder who participates in its procurement processes declares any actual or potential conflicts of interest. Bidders who do not declare relevant conflicts of interest and do not sign this form will not be permitted to participate in TMA's procurement processes.

Conflict of interest declaration

Potential conflicts of interest can include the following (but the list is not exhaustive): -

Relationship with TMA: -

- 1) Relationship/ Association with TMA staff members and/or representatives.
- 2) Relationship/Association with TMA's Board Members and/or office bearers
- 3) Where applicable; if the bidder was involved in earlier phases of the project for which bids/proposals are now being sought.
- 4) Knowledge of TMA's terms of reference or any bidding documents before they were officially published.

If you are in any doubt about whether something is a potential conflict of interest, you are advised to declare it below

Either:

A) I wish to declare the following conflict(s) of interest: -

- 1)
- 2)
- 3)

Or

I have no conflicts of interest to declare.

Please note that TMA reserves the right to disqualify a bidder if an actual or potential conflict of interest that was not declared, is later discovered.

On behalf of Vendor:

Organisation's name: _____

Title of Signatory: _____

Signature: _____

Date: _____

APPENDIX 10: INTELLECTUAL PROPERTY (IP) AGREEMENT

Note: This form shall be completed and submitted alongside the Qualification/Technical Bid

Purpose

This Agreement on Intellectual property comprises Patents, Copyrights and Confidential Information. The Agreement provides guidance to TMA, its partners, service providers and/or third parties regarding disclosing and managing inventions made at or under the auspices of TMA in a manner consistent with TMA's commitment to strengthening East Africa regional economic integration.

Principle

The patent, copyright and intellectual property agreement shall ensure a fair and equitable balance between creators, owners and users, and the needs of the public.

Copyright

The copyright in all drawings, documents and other materials containing data and information furnished to TMA by the Provider/Partner shall remain vested in the Provider/Partner or, if they are furnished to the TMA directly or through the Provider by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

Ownership of Material

Any studies, reports or other material, graphic, software or otherwise, prepared by the Provider for TMA under any Contract shall belong to and remain the property of TMA.

Where intellectual property rights in all material produced by the provider or the provider's personnel pursuant to the performance of the Services ("the Material") are the property of the Provider, the Provider shall grant to TMA a worldwide, nonexclusive, irrevocable, royalty free license to use all the Material. "use" shall mean, without limitation, the reproduction, publication and sub-licence of all the Material and the intellectual property rights therein, including the reproduction and sale of the Material and products incorporating the same for use by any person or for sale or other dealing anywhere in the world.

Confidential Information

TMA and the Provider/Partner shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data or other information furnished directly or indirectly by the other party, whether such information has been furnished prior to, during or following termination of any binding engagement. Notwithstanding the above, the Provider/Partner may furnish to its Subcontractor(s) such documents, data and other information it receives from TMA to the extent required for the Subcontractor(s) to perform its work under any contract, in which event the Provider/Partner shall obtain from such Subcontractor(s) an undertaking of confidentiality similar to that imposed on the Provider/Partner under this paragraph.

TMA shall not use such documents, data and other information received from the Provider for any purpose other than the operation and maintenance of the Supplies. Similarly, the Provider/Partner shall not use such documents, data and other information received from the TMA for any purpose other than the design,

procurement of Goods, construction or such other work and services as are required for the performance of the Contract.

The obligation of a party under the above paragraphs, however, shall not apply to that information which

- a) Now or hereafter enters the public domain through no fault of that party;
- b) Can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party hereto; and
- c) Otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.

In witness of the parties hereto append their signatures and seals on the date indicated below:

On behalf of Vendor:

Organisation's name: _____
Designation of Signatory: _____
Signature: _____
Date: _____

APPENDIX 14: CONTRACT DOCUMENT FOR SUPPLY OF GOODS

CONTRACT FOR Insert Full Project Title

CONTRACT REFERENCE: Insert PO Number

CLIENT: Insert Registered Client Name

CONTRACTUAL PARTNER: Insert Name

SUPPLIER: Insert Registered Business Name

AMOUNT: USD \$ Insert Amount

SOURCE OF FUNDING: Insert Appropriately

DELIVERY: Insert Appropriately

DELIVERY LOCATION: Insert Appropriately

SECTION 1

GENERAL CONDITIONS OF CONTRACT

Definitions

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

1. "The Contract" means the agreement entered into between TMA and the supplier, as recorded in this Contract Document signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
2. "The Contract Price" means the price payable to the supplier under the Contract for the full and proper performance of its contractual obligations.
3. "The Goods" means all of the equipment, machinery, and/or other materials, which the supplier is required to supply to the Client under the Contract.
4. "The TMA" means the Trademark Africa
5. "The supplier" means the individual or firm supplying the Goods under this Contract.
6. "The Client" means the organization which TMA is procuring the goods/equipment on behalf.
7. "The Services" means that services ancillary to the supply of the goods, such as transportation and insurance, and any other related services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the supplier covered under the contract.

This is an Agreement between **(Insert Registered Supplier Name)**, located at **Insert Full physical address, Postal Address, City, Country** (Hereinafter called the "Supplier") and **Trademark Africa**, located at **Insert Full physical address, Postal Address, City, Country** (hereinafter called the "Financier") to supply the designated products to **Insert Full Client Name** (hereinafter called the "Client"). The terms of the agreement are as follows:

Commencement and Duration of the Services

The contract shall be effective on the date both parties sign and the services shall be completed by **Insert Day, Month (In words), Year** (End Date") or any other period as may be subsequently agreed by the parties in writing unless this Contract is terminated earlier in accordance with its terms and conditions.

Article 1: PURPOSE AND PRINCIPLES OF THE AGREEMENT

The Agreement sets out the terms under which the Client is receiving the products provided by the Supplier. It comprises of four sections; the first containing the General conditions, the second containing the special conditions, third containing the technical specifications and the fourth section containing the price schedule.

The Supplier undertakes to deliver to the Client the products in accordance with their bid thereof. Having accepted the offer made by the Supplier, TMA agrees to pay the former a total price of **USD \$ Insert Amount in Figures (Insert Amount In Words)**.

There is no employer/employee relationship either actual or implied.

1. Standards

The goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications Section 3.

2. Enforceability of the Contract

If any provision or condition of the contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of this contract.

3. Use of Contract Documents and Information

The Supplier shall not, without TMA's prior written consent, disclose the Contract, or any provision, specification, plan, drawing, pattern, sample, or information furnished by or on behalf of TMA.

4. Patent Rights

The supplier shall indemnify TMA 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 TMA's country of operation.

5. Performance Security

Within thirty (30) days of receipt of the notification of Contract award, the successful supplier shall furnish to TMA the performance security in the amount specified in Special Conditions of Contract.

- a) The performance security shall be payable to TMA as compensation for any loss resulting from the supplier's failure to complete its obligations under the Contract.

- b) The performance security shall be denominated in the currency of the Contract or in a freely convertible currency acceptable to TMA and shall be in the form of a bank guarantee or an irrevocable letter of credit issued by a reputable bank acceptable to TMA.
- c) The performance security will be discharged by TMA and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the Contract, including any warranty obligations, under the Contract.

6. Inspection and Tests

The Client or their authorised agents shall have the right to carry out inspection of the products to determine their conformity with the technical specifications as laid down in the tender document and/or the bidder's offer. All goods supplied must be new, free of defect and manufactured recently. Used and/or refurbished goods or components will be automatically rejected.

- a) The inspections and tests may be conducted in the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier 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 Client.
- b) Should any inspected or tested goods fail to conform to the Specifications, the Client shall reject the goods, and the supplier replaces the rejected goods at no cost to TMA.

7. Prices

Prices charged by the Supplier 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.

8. Assignment

The tenderer shall not assign, in whole or in part, its obligations under this Contract, except with TMA's prior written consent.

9. Subcontracts

The Supplier shall notify TMA 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 Supplier from any liability or obligation under the Contract.

10. Duration

The Agreement shall remain in force at all times until the contractual obligation of all parties has been fully executed.

11. Termination

TMA, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, shall terminate this Contract in whole or in part if the Supplier fails to deliver any or all of the goods within the periods specified in the Contract or fails to perform any other obligation(s) under the Contract.

12. Delivery and Reception

The Supplier is responsible for delivering the products specified in Section 4. The products must be delivered within **90 days** from the contract signature date.

- a) The Client or his authorised representative shall be responsible for providing the premises for the receipt and inspection of the products. The Client or his authorised representative will deliver an acknowledgement of delivery when products are proven to be compliant both in quantity and description with the items listed in Section 3 of this agreement.
- b) The Supplier is responsible for installing and testing the products specified in Section 3. The Client or his authorised representative will deliver a certificate of acceptance when products are proven to be fully functional as per the product specifications specified in the bidder's offer and technical specifications laid down in the RFQ.

13. Payment

The total cost of the products and related services shall be paid **30 days** after receipt of an invoice by the TMA and is conditional on satisfactory delivery/installation of the products and the issue of the certificate of acceptance by the Client. All invoices will be in **United States Dollars** addressed to TMA.

- a) Payment will be authorised by TMA only after certification of receipt of the products by the Client.
- b) In certain circumstances an advance payment may be agreed but all such advance payments shall be covered by a bank guarantee provided by a bank and in a form acceptable to the Client and TMA that shall be released upon delivery of that part of the products or related services covered by the advance payment.

14. Performance Bond

In certain circumstances the Client or TMA may require the Supplier to provide a performance bond of 10% of the total contract price on signature of the agreement that shall lapse when certificate of acceptance has been released.

15. Supplier Equipment

Any equipment provided by the Supplier and that ownership of which is not transferred to the Client at the completion of the agreement shall be the sole responsibility of the Supplier and shall be removed from the Client's premises within one week of the completion of the agreement.

16. Insurance

The Supplier undertakes to have in place all legally required insurances throughout the entire duration of this agreement as well as any other specific insurance required by the Client as advised to the Supplier prior to signature of the agreement. The Goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacturer or acquisition, transportation, storage, and delivery.

17. Invoicing

Invoices presented to the TMA should include any import, customs duties, value added tax and any other fees or similar charges imposed. Original invoices should be sent to invoices@trademarkafrica.com . Invoices should clearly list the Contract Number, the dates and the months to which they relate. Invoices should also include details of the Consultant's bank account to which TMA are requested to transfer payments.

18. Liquidated Damages

If the Supplier fails to deliver any or all of the goods within the period(s) specified in the contract, TMA shall, without prejudice to its other remedies under the contract, deduct from the contract prices liquidated damages sum equivalent to 2% for every week's delay of the delivered price of the delayed items up to a maximum deduction of 10% of the delayed goods.

In the case of non-performance by the Supplier after the application of the maximum fine, the Client shall have all rights, after giving written notice to the Supplier, to:

- Exercise any performance guarantee;
- Terminate the contract; and
- Enter into a contract with a third party at the Supplier's cost.

19. Bankruptcy

If the Supplier shall become bankrupt or insolvent or have a receiving order made against it or compound with its creditors or commence winding up proceedings (not being a member's voluntary winding up for the purpose of reconstruction or amalgamation) or carry on its business under a receiver for the benefit of its creditors or any of them, TMA shall be at liberty either:

- a) To terminate the Agreement forthwith by notice in writing to the bankrupt or insolvent party or to the Receiver or Liquidator or to any other person in whom the rights of the Supplier may become vested, or to
- b) Give such Receiver, Liquidator or other person the option of continuing the Agreement subject to such person providing a guarantee for the due and faithful performance of the Agreement within a period to be agreed.

20. Force Majeure

In the event of force majeure, the Supplier shall be entitled to an extension of delivery time equivalent to the period of delay. Force majeure is understood to include but not be limited to natural catastrophes, civil wars, and any circumstances that could not reasonably have been foreseen by a competent Supplier.

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

21. Full Agreement

In addition to this contract the following constitute part of the agreement:

- Notification letter
- The bidder's offer
- The provisions of the tender document.

22. Limitation

This agreement constitutes the entire rights and obligations under this contract. There are no additions, deductions or alterations except upon the written agreement of both parties.

23. Applicable Law and Language

The language of the contract and the applicable law governing the contract shall be English and the Laws of **Insert Country which holds the project budget** respectively unless otherwise stated.

24. Dispute Resolution

TMA and the Supplier 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 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.

Unless settled amicably, any dispute, controversy or claim arising out of or relating to this contract, including its formation, its interpretation or the breach, termination or invalidity thereof shall be settled by arbitration in accordance with the laws of **Insert Country which holds the project budget** as presently in force.

Notwithstanding any adjudication or arbitration proceedings no party shall commit an anticipatory breach of contract.

25. Joint venture, Consortium or Association

If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

26. Taxes and Duties

A supplier shall be entirely responsible for all taxes, duties etc incurred until delivery of the contracted goods to the purchaser.

27. Risk and Title

Risk and title for the goods shall pass upon delivery to the client site as defined in this contract.

28. Confidentiality

The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the TMA in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.

29. Warranty

- a) The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract.
- b) The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Purchaser's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

- c) This warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract or any other time period indicated in the SCC.
- d) TMA shall promptly notify the Supplier in writing of any claims arising under this warranty.
- e) Upon receipt of such Notice, the Supplier shall, within 21 days, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- f) If the Supplier, having been notified, fails to remedy the defect(s) within, 21 days, TMA may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which TMA may have against the Supplier under the Contract.
- g) Delays in remedial action beyond 21 days shall be subject to liquidated damages at the rate in this contract without prejudice to any other rights or remedies, which the Purchaser may have against the Supplier under the Contract.

30. Extension of Time

If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify TMA in writing of the fact of the delay, it’s likely duration and its cause(s). As soon as practicable after receipt of the Supplier’s notice, TMA shall evaluate the situation and may at its discretion extend the Supplier’s time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

31. Transportation

The Supplier is required under the Contract to transport the Goods to the final destination. Transport to such final destination including insurance and storage, as specified in the Contract, shall be arranged by the Supplier, and related costs are deemed to be included in the Contract Price.

32. Effective Date of the Contract

This contract takes effect on the date that the last of the undersigned signatories attaches their signature.

Supplier

Financier

Name:

Name:

Position:

Position:

Signature:.....

Signature:.....

Date:.....

Date:.....

For and on behalf of Insert Company Name

For and on behalf of Trademark Africa

SECTION 2

SPECIAL CONDITIONS OF CONTRACT

1. Notes on Special Conditions of Contract

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

The provisions of Section 2 complement the General Conditions of Contract (GCC) included in Section 1, specifying contractual requirements linked to the special circumstances of TMA and the goods being procured. In preparing Section 2, the following aspects should be taken into consideration.

- a) Information that complement provisions of Section 1 must be incorporated and,
- b) Amendments and/or supplements to provisions of Section 1, as necessitated by the circumstances of the goods being procured must also be incorporated.

Special conditions of contract as relates to the GCC:

REFERENCE OF GCC	SPECIAL CONDITIONS OF CONTRACT
11. Termination	<p>Termination and Suspension</p> <p>TMA or the Consultant may terminate the Contract by giving not less than 30 days written notice. In such cases, TMA shall be liable to make payments only for work completed and delivered, of acceptable standard.</p> <p>Specifically, TMA reserves the right to terminate this Contract if the Consultant fails to perform any of its obligations or to comply with the conditions and requirements set out in this Contract.</p> <p>Without prejudice to the above paragraph, TMA reserves the right to withdraw or suspend payments to the Consultant immediately under the following circumstances:</p> <ol style="list-style-type: none">i. The Consultant has engaged in illegal, corrupt, fraudulent, coercive, collusive or conflict of interest practices in connection with the Contract, without the Consultant having taken timely and satisfactory action to the satisfaction of TMA to address such practices when they occur;ii. The Consultant fails to comply with its obligations in the fields of environmental, social or labour regulations, including sexual harassment and any form of abuse, including but not limited to failure by a supplier to take preventative measures, investigate allegations or to take corrective action against sexual exploitation or abuse incidences;iii. The Consultant fails to comply with its obligations under Anti-Terrorism and Organised Crime requirements of TMA;

	<p>iv. A representation or statement made by the Consultant in or pursuant to the Contract intended to be relied upon by TMA in making the Contract, which was incorrect in any material aspect.</p> <p>A full accounting of all payments made under this contract will be required prior to the conclusion of the notice period, in addition to full reimbursement of any unspent advance payments to the Consultant.</p> <p>For any of the above, any unspent or inconsistently spent payments must be returned to TMA within 30 days of the termination notice.</p>
	<p>Bribery, Conflict of Interest, Corruption and Fraud</p> <p>The Consultant shall not, and shall ensure that any person affiliated with the Consultant shall not:</p> <ul style="list-style-type: none"> i. Participate in the selection, award or administration of a contract, grant or other benefit or transaction funded by the Contract, in which the person, members of the person’s immediate family or his or her business partners, or organisations controlled by or substantially involving such person, has or have any financial interest; ii. Participate in transactions involving organisations or entities with which or whom that person is negotiating or has any arrangement concerning prospective employment; iii. Offer, give, solicit or receive, directly or indirectly, gratuities, favours, gifts or anything else of value to influence the action of any person involved in the procurement process or contract execution; iv. Misrepresent or omit facts in order to influence the procurement process or execution of the contract; v. Engage in a scheme or arrangement between two or more bidders, with or without the knowledge of the Consultant designed to establish bid prices at artificial, non-competitive levels; or vi. Participate in any other practice that is or could be construed as an illegal, corrupt or a conflict of interest in the country of operation. <p><u>Disclosure:</u> If the Consultant has knowledge or becomes aware of any:</p> <ul style="list-style-type: none"> i. Actual, apparent or potential conflict between financial interests of any person affiliated with the Contract and/or TMA; or ii. Any of the practices listed under (i) to (vi) above, <p>the Consultant shall immediately disclose the same directly to Procurement Director, TMA.</p> <p>TMA reserves the right to terminate this Contract if the Consultant or any person affiliated with the Consultant fails to perform any of its obligations or to comply with the conditions and requirements listed under (i) to (vi) above.</p>

	<p>Further details can be found in the Code of Ethics under Clause 4 (Fraud and Corruption) and to report such activities, the Consultant will follow the steps provided in Clause 8 of the same document.</p>
	<p>Anti-terrorism and Organized Crime</p> <p>The Contract funds shall not be used to finance terrorism and other criminal activities. The Consultant shall take all appropriate measures to ensure that the Contract payments are not used for unintended purposes including but not limited to money laundering and exploitation by terrorist organisations and/or their support networks.</p> <p>The Consultant shall verify to the maximum extent reasonably possible that any parties associated with the Contract shall substantially protect TMA’s resources from diversion to unintended purposes including but not limited to exploitation by terrorist organisations and/or their support networks.</p> <p>TMA reserves the right to terminate this Contract if the Consultant or any person affiliated with the Consultant fails to perform any of its obligations or to comply with the conditions and requirements listed under this clause.</p>
	<p>Safeguarding</p> <p>TMA’s Environmental and Social Standard shall be an integral part of the contract.</p> <p>The Consultant shall ensure that the Contract is implemented with strict adherence to TMA’s Supplier Environmental and Social Standards document that includes adherence to policies against bullying, sexual exploitation, harassment and abuse. The Consultant shall ensure that all steps are taken to mitigate against any identified environmental, social, and safeguarding risks that may arise as a result of the Contract.</p> <p>TMA reserves the right to terminate this Contract if the Consultant or any person affiliated with the Consultant fails to perform any of its obligations or to comply with the conditions and requirements contained in the Supplier Environmental and Social Standards document.</p>
	<p>Code of Ethics</p> <p>The Consultant shall comply with TMA’s Code of Ethics which forms part of this Agreement as amended from time to time, which must be signed off and adopted prior to TMA making payments on the Contract.</p> <p>The Consultant shall at all times act loyally and impartially and as a faithful advisor to TMA in accordance with the rules and/or codes of conducts governing its profession.</p>

The Consultant shall in particular refrain from making any public statements concerning the services without prior written approval of TMA, and from engaging in any activity which conflicts with its obligations towards TMA under this contract.

The Consultant shall not commit TMA in any way whatsoever without TMA's prior written consent, and shall, where appropriate, extend this obligation to third parties.

TMA reserves the right to terminate this Contract if the Consultant or any person affiliated with the Consultant fails to perform any of its obligations or to comply with the conditions and requirements contained in the Code of Ethics.

SECTION 3

TECHINICAL SPECIFICATIONS

[Insert]

