

**Request for Quotations**

Land O'Lakes Venture37

On behalf of and in support of

United States Department of Agriculture Bangladesh Trade Facilitation Project

<b>RFQ Number:</b>	<b>BTF-2025-PROC-0021</b>
<b>RFQ Title:</b>	<b>Procurement of Laboratory Equipment for BSTI Halal Lab</b>
<b>Date Issued:</b>	<b>20 February 2025</b>
<b>Issuing Office:</b>	<b>Land O'Lakes Bangladesh</b>
<b>Closing Date:</b>	<b>10 March 2025</b>

This Request for Quotation (RFQ) is issued as part of the Bangladesh Trade Facilitation project (BTF) implemented by Land O'Lakes Venture37 with funding from the United States Department of Agriculture (USDA). The purpose of this procurement is to source technical laboratory equipment for installation at Bangladesh Standards and Testing Institution (BSTI) and to introduce new technologies and procedures enabling the agency to comply with the international best practices. The details of the requirements and the terms and conditions for the procurement are given below.

Refer to Annex 1 for the Supplier Specifications and Price Submission Form and Annex 2 for Technical Specifications of the Laboratory Equipment.

Bidders must bid for all laboratory equipment specified in this RFQ, partial bidding will not be accepted.

**1) Item and Quantity:**

Sl.	Item Name	Quantity
01	Biosafety Cabinet (Class II, Type A2)	1
02	Vortex Mixture	1
03	Water Bath	1
04	Refrigerator (Scientific) Temperature Range: (2~8) °C	1
05	Scientific / Biomedical/ Medical Refrigerator (-10 °C ~-25 °C)	1
06	Digital Autoclave	1
07	Hot Air Oven	1
08	pH Meter	1
09	Dehumidifier	1

Please refer to attachments, **Annexes 1-2**, for detailed specifications and requirements.

**2) Delivery and Installation Point:**

The laboratory equipment should be delivered to the premises of BSTI, in Tejgaon, Dhaka.

**3) Technical Specifications:**

The lab equipment shall be **Brand New** as per specifications attached as **Annex 2**. The instruments must not be manufactured or assembled before 1 year of issuing work order. Manufacturing certificate including equipment serial number, brand name, and manufacturing date from manufacturer must submit with equipment.

#### 4) Conformity with Technical Specifications/Terms

- a) Bidders must bid for all laboratory equipment specified in this RFQ.
- b) Quotation should conform to the attached specifications and should be suited to Bangladesh conditions.
- c) Original Manufacturer's Authorization shall be attached at the time of submission of tender document by bidder/supplier.
- d) The bidder/supplier shall have at least 01 (one) manufacturer certified competent engineer and at least 01 (one) manufacturer certified competent application expert. Manufacturer certified engineer and application expert details shall be submitted with the tender document.
- e) Bidder/supplier shall submit their valid ISO 9001:2015 certificate along with Manufacturer's valid ISO and CE certificate. The product must be EU-CE certificate/Japan Quality Assurance Organization (JQA) / US-FDA approved certified.
- f) A fully illustrated set of technical literature in English (original) must be included with tender documents.
- g) Proof of manufacture and country of origin should be submitted as verification of origin of the laboratory instrument(s) during supply. The supplier must provide original operation and/or service manual and certification documents during supply of the instrument.
- h) Manufacturer office and service center with competent engineer shall be in Bangladesh.
- i) After-sales service and maintenance support, and the availability of spare parts should be clearly stated.
- j) Bidder/supplier shall have minimum 5 years of overall experiences in the supply of laboratory equipment. Bidder/supplier should submit min 2 (two) work experience certificate of similar supply in Government/non-government/private entity in Bangladesh.
- k) Bidder/supplier should submit up to date Trade license, TIN and Income Tax Clearance Certificate, Vat/ 13 Digit BIN Registration Certificate and bank solvency certificate along with tender documents.
- l) Installation Qualification (IQ), Operational Qualification (OQ), and Performance Qualification (PQ) shall be carried out by the manufacturer / bidder according to the international standards within 30 days of supply of the equipment at customer site. Commissioning must include all software and hardware installation to operate the equipment.
- m) Training: At least 3 weeks application and service training must be provided at the customer site during and after installation. The training shall be sufficient for smooth running of the equipment. At least one method validation shall be performed at the laboratory. Chemicals, reagents, reference materials necessary for the above test shall be supplied at their (bidder's/supplier's) own cost.
- n) Preventive Maintenance Plan: The bidder shall submit yearly preventive maintenance plan during the 2 years' warranty period and take necessary action as per corrective action procedure/breakdown maintenance whenever required.
- o) Warranty and after sale support service: The warranty period of the equipment will be minimum 2 (two) years from the date of installation and commissioning of the machine at the user site. The bidder/supplier shall submit the warranty card and ensure that all materials, equipment, and accessories are new and fit for the intended purpose. During warranty period the cost-of-service engineer/technical expert, travel, and spare parts (including electronic and electrical), are provided by the bidder at their own cost. The repair/maintenance work shall be conducted within 48 hours after getting request from the user.

#### 5) Cost Breakdown:

- Unit price of each piece of laboratory equipment. Please summarize the price offered in the format shown at Annex 1: Supplier Specifications and Price Submission Form.
- Cost of transport, shipping, and/or technical support (if not included in price of equipment).
- Any Taxes, VAT, duties should be shown separately.

Please use the form at Annex 1: Supplier Specifications and Price Submission Form

**6) Price:**

Price quoted must be in Bangladesh Taka (BDT) and must be net, less any discount offered, and should include costs of transportation to specified delivery point (Clause 2). Please summarize the unit prices and total cost offered in the format shown at Annex 1: Supplier Specifications and Price Submission Form.

**7) Validity**

Prices offered in the quotation must be firm and **valid for 60 days** from the closing date of the RFQ. ***No increase in price will be considered after closing of the RFQ.***

**8) Delivery Date:**

The equipment is expected to be delivered **within 90 days** of award of the purchase order. State firm delivery date. If the equipment is not available ex-stock, state expected availability.

**9) Inspection**

Land O'Lakes Venture37, BTF will inspect the equipment prior to delivery.

**10) VAT/Taxes**

All applicable taxes, VAT, duties, levies, export clearances/licenses and any other incidental cost in the country of origin shall be borne by the supplier.

**11) Payment**

Payment will be made in Bangladesh Taka via electronic fund transfer. Terms will be negotiated with final payment subject to receipt of items, inspection, and receipt of all supporting documents delivered in good order by the seller.

**12) Guarantee/ Warranty**

The supplier shall provide standard manufacturer's warranty/guarantee against any/all defects in workmanship and materials.

**13) Award of Purchase Order**

Award of Purchase Order will be made to the bidder achieving the highest overall score based on the following criteria and point distribution.

Rated Criteria Category	Weighting
Lowest Price Offer	20
Supplier Experience and Product Quality Assessment	40
Estimated Time to Deliver	10
Extended Warranty	10
Preventative Maintenance Plan and Servicing Facilities	20
<b>Total Points</b>	<b>100</b>

**14) Right to Cancel Solicitation and Reject Offers.**

Land O'Lakes reserves the right to accept or reject any offer or cancel or reissue this RFQ without assigning any reason.

**15) Submission of Quotation:**

The successful vendor must meet the technical requirements specified in this RFQ and provide a quotation, technical details, and information about the supplier's service and maintenance offerings. Submissions should include a manufacturer's brochure and/or specifications sheet describing the equipment being offered. The

quotation also should include an expected delivery date, pricing, and explain after-sales support plan. All offers and technical materials should be in English.

- i. Submit quotation by **email: [rhalder@landolaekes.com](mailto:rhalder@landolaekes.com)**  
**Attn: Recardo Halder / Telephone: +880 1302011858**
- ii. Email quotations should indicate **BTF-2025-PROC-0021** in the subject line.
- iii. Quotation must have bidder's/supplier's complete name and address and the RFQ number and title. Quotations should be addressed to:  
**Land O'Lakes Venture37,  
Bangladesh Trade Facilitation Project,  
Concord Bilkis Tower, 40/6 Madani Avenue,  
Gulshan-2, Dhaka-1212.**
- iv. Quotation should consist of:
  - 1) Your price offers. **(Annex 1)**
  - 2) Specifications of the equipment with necessary manufacturer authorization
  - 3) Complete technical literature for the equipment, including specifications, instructions, and any other key details about the product.

#### **17) Expenses Relating to Submission of Quotation**

Issuance of this RFQ in no way obligates Land O'Lakes Venture37 to award a purchase order and bidders will not be reimbursed for any costs associated with the preparation of a bid. All preparation and submission costs are at the bidder's expense.

#### **18) Confirmation:**

Please acknowledge receipt of this RFQ and indicate your intention to bid.

Thank you for your interest in this bid.

Sincerely,



Michael J Parr,  
Project Director, Bangladesh Trade Facilitation  
Country Director, Land O'Lakes Venture37

### Annex 1: Supplier Specifications and Price Submission Form

Laboratory Equipment and Instruments for installation at one or more Government of Bangladesh food and chemical testing facilities located greater Dhaka.

Sl.	Item Description	Qty.	Required Specification	Supplier Offered Specification	Delivery Time	Price (BDT)
01	Biosafety Cabinet (Class II, Type A2)	1	As per Annex 2			
02	Vortex Mixture	1	As per Annex 2			
03	Water Bath	1	As per Annex 2			
04	Refrigerator (Scientific) Temperature Range: (2~8) °C	1	As per Annex 2			
05	Scientific / Biomedical/ Medical Refrigerator (-10 °C ~-25 °C)	1	As per Annex 2			
06	Digital Autoclave	1	As per Annex 2			
07	Hot Air Oven	1	As per Annex 2			
08	pH Meter	1	As per Annex 2			
09	Dehumidifier	1	As per Annex 2			
<b>Total Cost without VAT</b>						
						<b>VAT Amount</b>
						<b>Delivery Cost (if not included)</b>
						<b>TOTAL COST</b>

## Annex 2: Technical Specifications of Laboratory Equipment for BSTI Halal Laboratory

SL	Equipment Name	Description	Qty
01	Biosafety Cabinet (Class II, Type A2)	<p><b>Biosafety Cabinet (Class II, Type A2)</b>  <b>Brand: To mention by bidder</b>  <b>Model: To mention by bidder</b>  <b>Origin: USA/ EU/UK / Japan/ Singapore</b></p> <p><b>Application:</b>  A Biosafety Cabinet (BSC) is a containment device used in laboratories to provide a controlled environment for handling biological materials and to protect personnel, the environment, and the material being worked with. Biosafety cabinets are commonly used for procedures involving infectious agents, hazardous materials, or tissue cultures.</p> <p><b>Technical Specifications:</b>  Type: Type A2 Biosafety Cabinet  Noise Level: &lt;63 dBA  Chamber Material: Smart Coat  Width (Metric) Interior: 120 cm  Width (Metric) Exterior: 130 cm  Height (Metric): 156.8 cm  Depth (Metric) Exterior: 80 cm  Sash Opening (Metric): 25 cm  Power Consumption: 200 W  Airflow Circulation: 70% Downflow, 30% Exhaust  Main Filter Typical Efficiency: ULPA U 15,99.9995% @0.12um  Receptacles: 2 Single  Includes: Adjustable Stand, UV, Armrests  Energy Consumption (Reduced Flow Mode): 70 W  Energy Consumption (Operating Set Point): 200 W  Heat output, operating mode (non-vented): BTU/hr (W) 683 (200)  Heat output, night set-back mode (lights off, non-vented): BTU/hr (W) 239 (70)  Exhaust/inflow air volume cfm (m<sup>3</sup>/h): 344 (585)  Exhaust volume, thimble ducted cfm (m<sup>3</sup>/h): 448 (761)  Certifications/Compliance: NSF/ANSI <b>49</b>/ ISO 14644-1 Certified</p> <p><b>Terms and Conditions:</b></p> <p><b>Certified Technical personnel for service:</b> The bidder/supplier / manufacturer shall have at least 01 (one) manufacturer certified engineer and at least 01 (one) manufacturer certified application expert.</p> <p><b>Certification:</b> Manufacturer’s valid ISO and CE certificate must be submitted. The product must be EU- CE certificate / European Technical Standards / US-FDA / Japan Quality Assurance Organization approved certified.</p> <p><b>Original Manufacturer’s Authorization</b> shall be attached at the time of submission of tender document by bidder.</p> <p><b>Installation and validation:</b> shall be carried out by the bidder/supplier/manufacturer according to international standards within 30 days of supply of the equipment.</p> <p><b>Training:</b> Application training must be provided for the users.</p>	1

SL	Equipment Name	Description	Qty
		<p><b>Warranty:</b> The warranty period of the equipment will be minimum 2 (two) years from the date of installation and of the machine at the user site. Warranty card from the manufacturer shall be submitted.</p> <p><b>After Sales service:</b> The supplier shall provide all labor, transportation, and related expenses for after sales service for the maintenance and repair of the products during warranty period.</p> <p><b>Catalogue in English:</b> Full manufacturer’s catalogue must be supplied in English.</p>	

SL	Equipment Name	Description	Qty
02	Vortex Mixture	<p><b>Vortex Mixture</b>  <b>Brand: To mention by bidder</b>  <b>Model: To mention by bidder</b>  <b>Origin: USA/ EU/UK/Japan/Singapore</b></p> <p><b>Application:</b>  The Vortex Mixture typically refers to a mechanical or industrial device used to mix fluids, gases, or both in a vortex-like manner. This design ensures efficient and homogenous mixing by leveraging the principles of rotational flow dynamics.</p> <p><b>Technical Specifications:</b>  Construction material: Zinc Alloy and Techno polymer  Support system: 4 anti-sliding feet for strong fixing and high stability  Operating Modes: Touch or continuous  Electronic Speed Regulation: up to 3000 rpm + soft start + controlled ramping  Dimensions (WxHxD): 150x130x165 mm (5.9x5.1x6.5 in)  Power Supply:100-240V/50-60Hz  Power: 15 W  Enhanced stability on the bench, Optimized Performance, Quiet Operation</p> <p><b>Terms and Conditions:</b>  <b>Certification:</b> Manufacturer’s valid certificate must be submitted.</p> <p><b>Original Manufacturer’s Authorization</b> shall be attached at the time of submission of tender document by bidder.</p> <p><b>Training:</b> The training shall be sufficient for the smooth running of this equipment.</p> <p><b>Warranty:</b> The warranty period of the equipment will be a minimum of 2 (two) years from the date of installation and commissioning of the machine at the user site.</p> <p><b>Calibration:</b> The bidder/supplier shall be responsible for calibration of the item during the warranty period (2 years’) from manufacturer.</p> <p><b>After Sales service:</b> The bidder/supplier shall provide after sales service for the maintenance and repair of the products during warranty period. Manufacturer should have service support office in Bangladesh with factory trained certified engineers.</p> <p><b>Catalogue in English:</b> Full manufacturer’s catalogue must be supplied in English.</p>	1



SL	Equipment Name	Description	Qty
03	Water Bath	<p><b>Water Bath</b>  <b>Brand: To mention by bidder</b>  <b>Model: To mention by bidder</b>  <b>Origin: USA/EU/UK/Japan/Singapore</b></p> <p><b>Description:</b> A water bath is a commonly used laboratory equipment designed for heating samples in a controlled and uniform manner.</p> <p><b>Technical Specifications:</b>  Tank Volume: 20-25 Liters  Temperature sensor: digital temperature sensor, mounted on the outside of the bath  Temperature: Setting Celsius / Fahrenheit  Working temperature range: at least 5 above ambient to +100 (with cover, depending on ambient pressure)  Setting Temperature Range: Ambient Temperature + 5°C to 99.9°C  Temperature Sensor: Fe-Const.  Control System: Programmable Microprocessor  Temperature Set and Display Sensitivity: 0.1°C  Temperature variation at 37°C: ± 0.2°C [at 22°C ambient temperature with closed lid]  Temperature Fluctuation at 37°C: ± 0.1°C [at 22°C ambient temperature with closed lid]  Internal Material: Stainless Steel  External Material: Epoxy-Polyester Powder Coated Steel  Internal Dimensions (W x D x H): 505 x 300 x 145 mm  External Dimensions (W x D x H): 590 x 405 x 275 mm  Power: 230 Volt, 50/60 Hz, 1600 Watts  Temperature control safety: Two-stage safety system to prevent overtemperature (pressure sensor for level monitoring, thermal fuse for heating shutdown in case of error)</p> <p><b>Including following:</b>  Stainless steel lid</p> <p><b>Terms and Conditions:</b>  <b>Certified Technical personnel for service:</b> The bidder/supplier/manufacturer shall have at least 01 (one) manufacturer certified engineer for installation and servicing.  <b>Certification:</b> Manufacturer's valid ISO and CE certificate must be submitted. The product must be EU- CE certificate / European Technical Standards / US-FDA / Japan Quality 01Assurance Organization approved certified. Original  <b>Manufacturer's Authorization</b> shall be attached at the time of submission of tender document by bidder. Must have ISO certificate for both manufacturer and suppliers.  <b>Installation and validation:</b> shall be carried out by the bidder/supplier/manufacturer according to the international standards within 30 days of supply of the equipment.  <b>Training:</b> Application training must be provided to the users.  <b>Warranty:</b> The warranty period of the equipment will be minimum 1 (one) year with additional 1year warranty from the date of installation and of the machine at the user site. A warranty card from the manufacturer shall be submitted.  <b>Calibration:</b> The bidder/supplier shall be responsible for calibration of the item every year during the warranty period from an ISO/IEC 17025:2017 accredited calibration laboratory.</p>	1

SL	Equipment Name	Description	Qty
		<p><b>After Sales service:</b> The bidder/supplier shall provide after sales service for the maintenance and repair of the products during warranty period. Manufacturer should have service support office in Bangladesh with factory trained certified engineers.</p> <p><b>Catalogue in English:</b> Full manufacturer's catalogue (user/technical/maintenance manual) must be supplied in English.</p>	

SL	Equipment Name	Description	Qty
04	Refrigerator (Scientific) Temperature Range: (2~8) °C	<p><b>Refrigerator (Scientific), Temperature Range: (2~8) °C</b>  <b>Brand: To mention by bidder</b>  <b>Model: To mention by bidder</b>  <b>Origin: USA/ EU/UK / Japan</b></p> <p><b>General Features:</b></p> <ul style="list-style-type: none"> <li>• Adjustable Shelves: The shelves are adjustable to any height and satisfy different requirements.</li> <li>• Air Cooling, Auto defrost: Better cabinet temperature uniformity, Auto defrost</li> <li>• USB Interface: Data of temperature history can be downloaded via the built-in USB port and optional printer design</li> </ul> <p><b>Technical Specification:</b></p> <ul style="list-style-type: none"> <li>• Cabinet Type: Upright, single glass door</li> <li>• Climate Class: N</li> <li>• Cooling Type: Forced air cooling</li> <li>• Defrost Mode: Auto</li> <li>• Refrigerant: HC</li> <li>• Noise((dB(A): 41</li> <li>• Temp Range (°C) 2~8</li> <li>• Controller: Microprocessor</li> <li>• Display: LED</li> <li>• Power Supply: (V/Hz) 220-240/50/60 115/60</li> <li>• Power(W): 350</li> <li>• Electrical Current(A): 2</li> <li>• Capacity(L/Cu.Ft) 410</li> </ul> <p><b>Terms and Conditions:</b>  <b>Certified Technical personnel for service:</b> The bidder/supplier/manufacturer shall have at least 01 (one) manufacturer certified engineer for installation and servicing.  <b>Certification:</b> Manufacturer's valid ISO and CE certificate must be submitted. The product must be EU- CE certificate / European Technical Standards / US-FDA / Japan Quality 01 Assurance Organization approved certified. Original  <b>Manufacturer's Authorization</b> shall be attached at the time of submission of tender document by bidder. Must have ISO certificate for both manufacturer and supplier/bidder.  <b>Installation and validation:</b> shall be carried out by the bidder/supplier/manufacturer according to the international standards within 30 days of supply of the equipment.  <b>Training:</b> Application training must be provided to the users.  <b>Warranty:</b> The warranty period of the equipment will be minimum 1 (one) year with additional 1year warranty from the date of installation and of the machine at the user site. A warranty card from the manufacturer shall be submitted.  <b>Calibration:</b> The bidder/supplier shall be responsible for calibration of the item every year during the warranty period from an ISO/IEC 17025:2017 accredited calibration laboratory.  <b>After Sales service:</b> The bidder/supplier shall provide after sales service for the maintenance and repair of the products during warranty period. Manufacturer should have service support office in Bangladesh with factory trained certified engineers.  <b>Catalogue in English:</b> Full manufacturer's catalogue (user/technical/maintenance manual) must be supplied in English.</p>	1

SL	Equipment Name	Description	Qty
05	Scientific / Biomedical/ Medical Refrigerator (-10 °C ~ -25 °C)	<p><b>Scientific / Biomedical/ Medical Refrigerator (-10 °C ~ -25 °C)</b>  <b>Brand: To mention by bidder</b>  <b>Model: To mention by bidder</b>  <b>Origin: USA/ EU/UK / Japan / Singapore</b></p> <p><b>General Features:</b></p> <ul style="list-style-type: none"> <li>• High density foam insulation for rigidity and stable storage temperature</li> <li>• LED digital display for clear observation</li> </ul> <p><b>Two Alarm Functions:</b></p> <ul style="list-style-type: none"> <li>• High/low temperature,</li> <li>• Sensor error</li> </ul> <p><b>Adjustable Temperature:</b>  Adjustable freezer compartment range: -10 °C ~ -25°C</p> <p><b>Technical Data</b></p> <ul style="list-style-type: none"> <li>• Type: -25°C Biomedical Freezer</li> <li>• Cabinet Type: Upright</li> <li>• Climate Class: N</li> <li>• Cooling Type: Direct Cooling</li> <li>• Defrost Mode: Manual</li> <li>• Refrigerant: HC</li> <li>• Noise Level (dB): 44</li> <li>• Cooling performance (°C): -25</li> <li>• Temperature Range (°C): -10~-25</li> <li>• Controller: Microprocessor</li> <li>• Display: LED</li> <li>• Power Supply(V/Hz):220-240/50</li> <li>• Power(W):90</li> <li>• Electrical Current(A):0.7</li> <li>• Capacity(L/Cu.Ft): 300</li> </ul> <p><b>Certificate: CE, UL</b></p> <p><b>Terms and Conditions:</b>  <b>Certified Technical personnel for service:</b> The bidder/supplier/ manufacturer shall have at least 01 (one) manufacturer certified engineer for installation and servicing.  <b>Certification:</b> Manufacturer’s valid ISO and CE certificate must be submitted. The product must be EU- CE certificate / European Technical Standards / US-FDA / Japan Quality 01Assurance Organization approved certified. Original  <b>Manufacturer’s Authorization</b> shall be attached at the time of submission of tender document by bidder. Must have ISO certificate for both manufacturer and suppliers.  <b>Installation and validation:</b> shall be carried out by the bidder/supplier/manufacturer according to the international standards within 30 days of supply of the equipment.  <b>Training:</b> Application training must be provided to the users.  <b>Warranty:</b> The warranty period of the equipment will be minimum 1 (one) year with additional 1year warranty from the date of installation and of the machine at the user site. A warranty card from the manufacturer shall be submitted.  <b>Calibration:</b> The bidder/supplier shall be responsible for calibration of the item every year during the warranty period from an ISO/IEC 17025:2017 accredited calibration laboratory.  <b>After Sales service:</b> The bidder/supplier shall provide after sales service for the maintenance and repair of the products during warranty period.</p>	1

SL	Equipment Name	Description	Qty
		<p>Manufacturer should have service support office in Bangladesh with factory trained certified engineers.</p> <p><b>Catalogue in English:</b> Full manufacturer's catalogue (user/technical/maintenance manual) must be supplied in English.</p>	

SL	Equipment Name	Description	Qty
06	Digital Autoclave	<p><b>Digital Autoclave</b>  <b>Brand: To mention by bidder</b>  <b>Model: To mention by bidder</b>  <b>Origin: USA/ EU/UK /Japan/ Singapore</b></p> <p><b>Digital autoclave is a steam sterilizer commonly used in laboratories, medical facilities, and industrial settings to sterilize Chemical, equipment, instruments, and materials.</b></p> <p><b>Technical Specification:</b></p> <ul style="list-style-type: none"> <li>• Capacity: 50-60 liters</li> <li>• Chamber Dimensions: As per model</li> <li>• Temperature Range: 105-135°</li> <li>• Pressure Range: Up to 0.25 MPa (approximately 36.25 psi)</li> <li>• Control System: Digital PID (Proportional-Integral-Derivative) controller for precise temperature and pressure regulation</li> <li>• Sterilization Programs: Multiple preset and customizable cycles to accommodate various types of loads, such as liquids, instruments, and porous materials</li> <li>• Safety Features: Overpressure and overtemperature protection, automatic door locking during operation, and alarms for system errors</li> <li>• Construction: Chamber and internal components made of stainless steel for durability and corrosion resistance</li> <li>• Power Requirements: Typically, 220V, 50/60Hz, with power consumption around 3 kW, depending on the model</li> <li>• Additional Features: Some models may include vacuum drying systems, USB ports for data logging, and built-in printers for cycle documentation</li> </ul> <p><b>Terms and Conditions:</b>  <b>Warranty:</b> The warranty period of the equipment will be minimum 1 (one) year with additional 1year warranty from the date of installation and of the machine at the user site. A warranty card from the manufacturer shall be submitted.  <b>Installation and validation:</b> shall be carried out by the bidder/supplier/manufacturer according to the international standards within 30 days of supply of the equipment.  <b>After Sales service:</b> The bidder/supplier shall provide after sales service for the maintenance and repair of the products during warranty period. Manufacturer should have service support office in Bangladesh with factory trained certified engineers.  <b>Training:</b> Application training must be provided to the users.  <b>Calibration:</b> The bidder/supplier shall be responsible for calibration of the item every year during the warranty period from an ISO/IEC 17025:2017 accredited calibration laboratory.  <b>Catalogue in English:</b> Full manufacturer’s catalogue (user/technical/maintenance manual) must be supplied in English.</p>	1

SL	Equipment Name	Description	Qty
07	Hot Air Oven	<p><b>Hot Air Oven</b>  <b>Brand: To mention by bidder</b>  <b>Model: To mention by bidder</b>  <b>Origin: USA/ EU/UK / Japan / Singapore</b></p> <p>A Digital Hot Air Oven is commonly used in laboratories for sterilization, drying, and various heat treatment processes.</p> <p><b>Technical Specifications:</b>  Volume: 120 Liters  Typical Range: 50°C to 250°C  Temperature range: Ambient Temperature +5°C to 250 °C  Accuracy: ±1°C to ±2°C  Digital Temperature Controller: Microprocessor-controlled for precise temperature regulation.  Interior chamber: Stainless steel (304 or 316-grade) for durability and resistance to corrosion.  Programmable PID microprocessor control system  Digital display for temperature and time  Heating Method: Hot air circulation using fan or blower for even heat distribution.  Timer: 1 minute to 99.9 hours and hold position  Resolution of display for setpoint values 0.1°C up to 99.9°C  Delayed start timer: 1 minute to 99.9 hours  Heating by natural convection  Adjustable safety thermostat  Two shelves  Int. Dim.s (W x D x H): As per model  Ext.Dim.s (W x D x H) : As per model  Power: 230 V - 50/60 Hz</p> <p><b>Certifications &amp; Compliance</b>  ISO 9001, CE, UL</p> <p><b>Terms and Conditions:</b></p> <p><b>Warranty:</b> The warranty period of the equipment will be minimum 1 (one) year with additional 1year warranty from the date of installation and of the machine at the user site. A warranty card from the manufacturer shall be submitted.</p> <p><b>Installation and validation:</b> shall be carried out by the bidder/supplier/manufacturer according to the international standards within 30 days of supply of the equipment.</p> <p><b>Training:</b> Application training must be provided to the users.</p> <p><b>Calibration:</b> The bidder/supplier shall be responsible for calibration of the item every year during the warranty period from an ISO/IEC 17025:2017 accredited calibration laboratory.</p> <p><b>After Sales service:</b> The bidder/supplier shall provide after sales service for the maintenance and repair of the products during warranty period. Manufacturer should have service support office in Bangladesh with factory trained certified engineers.</p> <p><b>Catalogue in English:</b> Full manufacturer’s catalogue (user/technical/maintenance manual) must be supplied in English.</p>	1

SL	Equipment Name	Description	Qty
08	pH Meter	<p><b>pH Meter</b>  <b>Brand: To mention by bidder</b>  <b>Model: To mention by bidder</b>  <b>Origin: USA/ EU/UK / Japan / Singapore</b></p> <p>A pH meter is an analytical instrument used to measure the acidity or alkalinity of a solution.</p> <p><b>Technical Specifications:</b>  <b>Benchtop Models</b>  pH Range: 0 to 14 pH (common range)  pH Resolution: Typically <b>0.01 pH units</b> (may vary from 0.001 to 1 depending on the model).  pH Accuracy (@25°C/77°F): ±0.01 pH, ±0.002 pH  pH Calibration: automatic, up to three-point calibration with Standard pH buffer solutions (e.g., pH 4.0, 7.0, and 10.0)</p> <ul style="list-style-type: none"> <li>▪ <b>mV Range:</b> ±999.9 mV; ±2000 mV</li> <li>▪ <b>mV Resolution:</b> 0.1 mV; 1 mV</li> <li>▪ <b>mV Accuracy:</b> ±0.2 mV (±699.9 mV); ±0.5 mV (±999.9 mV); ±1 mV (±2000 mV)</li> <li>▪ <b>Relative mV Offset Range:</b> ±2000 mV</li> </ul> <p><b>Temperature Specifications:</b></p> <ul style="list-style-type: none"> <li>▪ <b>Temperature Range:</b> -20.0 to 120.0 °C, -4.0 to 248.0 °F</li> <li>▪ <b>Temperature Resolution:</b> 0.1°C (0.1°F)</li> <li>▪ <b>Temperature Accuracy:</b> ±0.4°C (±0.7°F)</li> <li>▪ <b>Temperature Compensation:</b> automatic or manual from -20 to 120 °C</li> </ul> <p><b>Terms and Conditions:</b></p> <p><b>Certified Technical personnel for service:</b> The bidder/supplier/manufacturer shall have at least 01 (one) manufacturer certified engineer and at least 01 (one) manufacturer certified application expert. Manufacturer certified engineer and application expert details shall be submitted with the tender document.</p> <p><b>Certification:</b> Manufacturer’s valid certificate must be submitted.</p> <p><b>Original Manufacturer’s Authorization</b> shall be attached at the time of submission of tender document by bidder.</p> <p><b>Installation, and validation</b> carried out by the bidder/supplier/manufacturer according to the international standards within 30 days of supply of the equipment.</p> <p><b>Training:</b> The training shall be sufficient for the smooth running of this equipment.</p> <p><b>Warranty &amp; after sale support service:</b> The warranty period of the equipment will be a minimum of 2 (two) years from the date of installation and commissioning of the machine at the user site. Manufacturer should have service support office in Bangladesh with factory trained certified engineers.</p> <p><b>Catalogue in English:</b> Full manufacturer’s catalogue must be supplied in English</p>	1



SL	Equipment Name	Description	Qty
09	Dehumidifier	<p><b>Dehumidifier</b>  <b>Brand: To mention by bidder</b>  <b>Model: To mention by bidder</b>  <b>Origin: USA/ EU/UK / Japan/ China</b></p> <p><b>Dehumidifiers are appliances designed to reduce and maintain the level of humidity in the air, typically for health or comfort reasons, or to eliminate musty odors and prevent the growth of mold.</b></p> <p><b>TECHNICAL SPECIFICATIONS:</b>  Control: Remote 30 liter per day capacity 220-240V / 50Hz power supply  450W input power consumption 0.5W standby power  1.7A rated current 41dB noise level  170CFM airflow per hour  4.8L water tank capacity Water-full indicator  Self-diagnosis Healthy filter  External drain connector  Ambient humidity real-time display Water flow protector</p> <p><b>Terms and Conditions:</b>  <b>Certification:</b> Manufacturer’s valid ISO and CE certificate must be submitted. The product must be EU- CE certificate / European Technical Standards / US-FDA / Japan Quality Assurance Organization approved certified.</p> <p><b>Original Manufacturer’s Authorization</b> shall be attached at the time of submission of tender document by bidder.</p> <p><b>Training:</b> The training shall be sufficient for the smooth running of this equipment.</p> <p><b>Warranty:</b> The warranty period of the equipment will be a minimum of 2 (two) years from the date of installation and commissioning of the machine at the user site. Both supplier and manufacturer must have ISO certificate.</p> <p><b>Calibration:</b> The bidder/supplier shall be responsible for calibration of the item during the warranty period (2 years’) from manufacturer.</p> <p><b>After Sales service:</b> The bidder/supplier shall provide after sales service for the maintenance and repair of the products during warranty period. Manufacturer should have service support office in Bangladesh with factory trained certified engineers.</p> <p><b>Catalogue in English:</b> Full manufacturer’s catalogue must be supplied in English</p>	1