



University of Ruhuna

Wellamadama
Matara.

23.11.2023

The Manager

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Invitation for Bids (IFB)

Contract: Supply, Delivery, Installation, Commissioning, Testing and Maintenance of Laboratory Equipment.

RUH/SUP/C /2023/S2/020

1. The Chairman, Department Procurement Committee on behalf of the University of Ruhuna now invites sealed bid from you for **Supply, Delivery, Installation, Commissioning, Testing and Maintenance of Laboratory Equipment** indicated in the annexed bid document.
2. Bidding will be conducted through National Shopping method of procurement.
3. You may obtain further information if any from the **Senior Assistant Bursar/ Supplies**, University of Ruhuna, Wellamadama, Matara. (T/P 041- 2227027/ Fax No. 041 – 2227027/ e-mail : sabs@admin.ruh.ac.lk)
4. Bids must be delivered by mail in sealed envelopes addressed to **Senior Assistant Bursar (Supplies)**, University of Ruhuna, Wellamadama, Matara before **02.00 p.m on 06.12.2023** Late bids will be rejected.
5. This contract is subject to
 - I. Providing of Performance Security of 10% of the total contract price in accordance with the format given by us and issued in favor of the Vice Chancellor, University of Ruhuna.
 - II. Entering into a formal agreement with the University of Ruhuna.


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Assistant Bursar(Supplies)
University of Ruhuna,
Wellamadama,
Matara.

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UNIVERSITY OF RUHUNA

**PROCUREMENT OF GOODS UNDER
NATIONAL SHOPPING PROCEDURES**

**INVITATION FOR QUOTATIONS
FOR**

**SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING,
TESTING AND MAINTENANCE OF LABORATORY
EQUIPMENT.**

IFQ No: RUH/SUP/C/2023/S2/020



Section I. Instructions to Vendors (ITV)

A:General	
1. Scope of Bid	1.1 The Purchaser named in the Data Sheet invites you to submit a quotation for the supply of Goods as specified in Section III Schedule of Requirements.
B:Contents of Documents	
2. Contents of Documents	<p>2.1 The documents consist of the Sections indicated below.</p> <ul style="list-style-type: none"> • Section I. Instructions to Vendors(ITV) • Section II. Data Sheet • Section III. Schedule of Requirements • Section IV. Technical Specifications & Compliance with Specifications • Section V. Quotation submission Form(s)
C:Preparation of Quotation	
3. Documents Comprising your Quotation	<p>3.1 The Quotation shall comprise the following:</p> <ul style="list-style-type: none"> (a) Quotation Submission Form and the Price Schedules; (b) Technical Specifications & Compliance with Specifications
4. Quotation Submission Form and Price Schedules	<p>4.1 The vendor shall submit the Quotation Submission Form using the form furnished in Section V. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.</p> <p>4.2 Alternative offers shall not be considered. The vendors are advised not to quote different options for the same item but furnish the most competitive among the options available to the bidder.</p>
5. Prices and Discounts	<p>5.1 Unless specifically stated in Data Sheet, all items must be priced separate in the Price Schedules.</p> <p>5.2 The price to be quoted in the Quotation Submission Form shall be the total price of the Quotation, including any discounts offered.</p>

	<p>5.3 The applicable VAT shall be indicated separately.</p> <p>5.4 Prices quoted by the vendor shall be fixed during the vendor's performance of the Contract and not subject to variation on any account. A Quotation submitted with adjustable price shall be treated as non responsive and may be rejected.</p>
6. Currency	6.1 The vendors shall quote only in Sri Lanka Rupees.
7. Documents to Establish the Conformity of the Goods	<p>7.1 The vendor shall furnish as part of its quotation the documentary evidence that the Goods conform to the technical specifications And standards specified in Section IV, "Technical Specifications & Compliance with Specifications".</p> <p>7.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods, demonstrating substantial Responsiveness of the Goods to the technical specifications, and if applicable, a statement of deviations and exceptions to the provisions of the Technical Specifications given.</p> <p>7.3 If stated in the Data Sheet the vendor shall submit a certificate from the manufacturer to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in Sri Lanka.</p>
8. Period of Validity of quotation	8.1 Quotations shall remain valid for the period of One hundred eighty (180) days after the quotation submission deadline date.
9. Format and Signing of Quotation	9.1 The quotation shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the vendor.
D: Submission and Opening of Quotation	
10. Submission of Quotation	<p>10.1 Vendors may submit their quotations by sealed envelopes addressed to the Purchaser and bear the specific identification of the quotation number.</p> <p>10.2 If the quotation is not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the quotation.</p>
11. Deadline for Submission of Quotation	11.1 Quotation must be received by the Purchaser at the address set out in Section II, "Data Sheet", and not later than the date and time as specified in the Data Sheet.
12. Late Quotations	12.1 The Purchaser shall reject any quotation that arrives after the Deadline for submission of quotations, in accordance with ITV Clause 11.1 above.

<p>13. Opening of Quotations</p>	<p>13.1 The Purchaser shall conduct the opening of quotation in public at the address, date and time specified in the Data Sheet.</p> <p>13.2 A representative of the bidders may be present and mark his attendance.</p>
<p>E: Evaluation and Comparison of Quotations</p>	
<p>14. Clarifications</p>	<p>14.1 To assist in the examination, evaluation and comparison of the quotations, the Purchaser may, at its discretion, ask any vendor for a clarification of his quotation. Any clarification submitted by a vendor in respect to his quotation which is not in response to a request by the Purchaser shall not be considered.</p> <p>14.2 The Purchaser's request for clarification and the response shall be in writing.</p> <p>14.3 Bids were submitted by Public Enterprise will be given a 15% special preference.</p>
<p>15. Responsiveness of Quotations</p>	<p>15.1 The Purchaser will determine the responsiveness of the quotation to the documents based on the contents of the quotation received.</p> <p>15.2 If a quotation is evaluated as not substantially responsive to the documents issued, it may be rejected by the Purchaser.</p>
<p>16. Evaluation of quotations</p>	<p>16.1 The Purchaser shall evaluate each quotation that has been determined, to be substantially responsive.</p> <p>16.2 To evaluate a quotation, the Purchaser may consider the following:</p> <ul style="list-style-type: none"> (a) the Price as quoted; (b) price adjustment for correction of arithmetical errors; (c) price adjustment due to discounts offered. <p>16.3 The Purchaser's evaluation of a quotation may require the Consideration of the factors, in addition to the Price quoted if stated in Section II, Data Sheet. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods.</p>
<p>17. Purchaser's Right to Accept any Quotation, and to Reject any or all Quotations</p>	<p>17.1 The Purchaser reserves the right to accept or reject any quotation, and to annul the process and reject all quotations at any time prior to acceptance, without there by incurring any liability to bidders.</p>

F: Award of Contract

18. Acceptance of the Quotation	18.1 The Purchaser will accept the quotation of the vendor whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the documents issued.
19. Notification of acceptance	19.1 Prior to the expiration of the period of validity of quotation, the Purchaser will notify the successful vendor, in writing, that his quotation has been accepted.

Section II: Data Sheet

ITV Clause Reference	
1.1	The Purchaser is: Vice Chancellor Address: University of Ruhuna, Wellamadama, Matara.
5.1	If the bidder is allowed to quote for lesser number of items than the total number Of items specified, indicate the details.
7.3	Manufacturer's Authorization is required.
11.1	Address for submission of Quotations is Supplies Branch, University of Ruhuna, Wellamadama, Matara. Deadline for submission of Quotations is at 200 p.m. on 06.12.2023
13	The Quotations shall be opened at the following address: Supplies Branch, University of Ruhuna, Wellamadama, Matara.
16	Other factors that will be considered for evaluation are(List and describe the methodology):
Additional Clause	
17. Payment	Payment shall be made within four weeks after receiving the invoice for each item supplied.
18. Liquidated Damages	The supplier should deliver the items within the delivery period stipulated in the schedule of requirements. The supplier should make payment to the purchaser for each week of delay in delivery, at the rate of 0.5% of the contract sum per each week of delay, up to a maximum of 10% of the contract sum.

Section III: Schedule of Requirements

Note:

1. **Bidders** a) May quote whole items

Item Number	Brief Description of the Goods	Specification and Requirements	Quantity	Delivery Period in Days from issue of Purchase Order	Place of Delivery	Installation and warranty Requirements if any
01.	Inverted Biological Microscope with Camera	Specification Attached	01	02 weeks	University of Ruhuna, Wellamadama, Matara	Warranty required
02.	Multipara Meter	Specification Attached	01	02 weeks	University of Ruhuna, Wellamadama, Matara	Warranty required
03.	Analytical Balance	Specification Attached	01	02 weeks	University of Ruhuna, Wellamadama, Matara	Warranty required
04.	Top loading Autoclave	Specification Attached	01	02 weeks	University of Ruhuna, Wellamadama, Matara	Warranty required
05.	Forced Convection Oven	Specification Attached	01	02 weeks	University of Ruhuna, Wellamadama, Matara	Warranty required
06.	Laboratory Shaker	Specification Attached	01	02 weeks	University of Ruhuna, Wellamadama, Matara	Warranty required

Please mention your delivery period -
 If you not mentioned the delivery period, earliest delivery period 02 weeks is accepted.

.....
 Signature

.....
 Date

.....
 Rubber Stamp

Section V
Quotation Submission Form

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

Date:

To:.....

[insert complete name of Purchaser]

We, the under signed, declare that:

- (a) We have examined and have no reservations to the document issued;
- (b) We offer to supply in conform it with the documents issued and in accordance with the Delivery Schedules specified in the Schedule of Requirements, the following Goods [insert a brief description of the Goods];
- (c) The total price of our quotation including any discounts offered is :[insert the total quoted price in words and in figures];
- (d) Our quotation shall be valid for the period of time specified n ITVSub-Clause8.1, from the date fixed for the quotation submission deadline in accordance with ITV Sub-Clause11.1,and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (e) We understand that this quotation, to ether with your written acceptance there of included in your notification of award, shall constitute a binding contract between us.
- (f) We understand that you are not bound to accept the lowest evaluated quotation or any other quotation that you may receive.

Signed:.....

[insert signature of Person whose name and capacity are shown]

Name:.....

[insert complete name of person signing the Bid Submission Form]

Dated:

PRICE SCHEDULE

Package Name: RUH/SUP/C/2023/S2/020

Item No.	Description	Qty.	Unit Rate. (Without VAT) (Rs.)	VAT (Rs.)	Total Amount (With VAT) (Rs.)
01.	Inverted Biological Microscope with Camera	01			
02.	Multipara Meter	01			
03.	Analytical Balance	01			
04.	Top loading Autoclave	01			
05.	Forced Convection Oven	01			
06.	Laboratory Shaker	01			

We agree to supply, delivery, installation & maintenance the above goods in accordance with the technical specifications for a total contract price of Rupees.....(*amount in figures*).....(*amount in words*) within the

period specified in the Invitation for Quotations.

We also confirm that the warrantee/ guarantee specified shall apply to the offered goods.

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Signature of the Bidder

Name of the Bidder

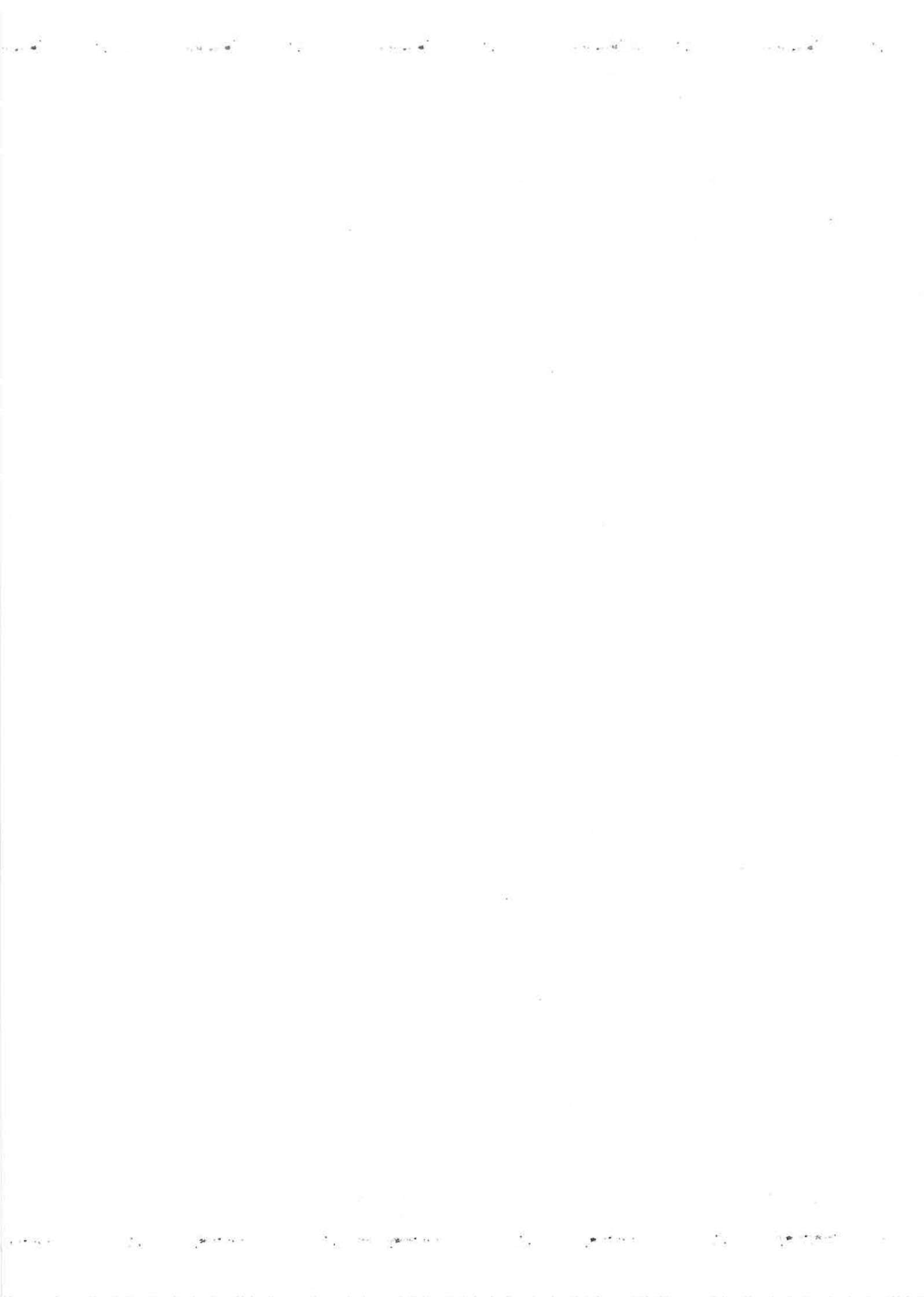
Date

. Inverted Biological Microscope with Camera, **Quantity: 1**

Specifications	Requirements		Bidders Compliance	
			Yes/No	If "No" indicate your offer
Country	Please specify			
Brand	Please specify			
Model	Please specify			
Observation Method	Fluorescence (Blue/Green Excitation)			
	Fluorescence (Ultraviolet Excitation)			
	Differential Interference Contrast (DIC)			
	Phase Contrast			
	Brightfield			
Revolving Nosepiece	Motorized (6 position)			
	Manual	Coded (6 position)		
Observation Tubes	Widefield (FN 22)	Tilting Binocular		
		Trinocular		
Illuminator	Transmitted Köhler Illuminator	LED Lamp		
		100 W Halogen Lamp		
	Fluorescence Illuminator	100 W Mercury Lamp		
		Light Guide Illumination		
Stage	Mechanical	Plain Stage		
		IX3-SVR Mechanical Stage with Right Handle X: 114 mm, Y: 75 mm		
Condenser	Motorized	Universal Condenser NA 0.55/ W.D. 26.2mm		
	Manual	Universal Condenser		

		Dry: NA 0.9/ W.D. 1.5 mm, Oil: NA 1.4/ W.D. 0.63 mm (1.25 X - 100 X)		
		Ultra-Long Working Distance Condenser NA 0.3/ W.D. 73.3 mm		
camera	Pixel size (μm)	3.45 x 3.45 μm		
	Number of pixels (MP)	5		
	Size of image sensor (in.)	2/3 inch		
	Frame rate (fps) at max resolution	15 fps at 2448 x 1920 pixels 30 fps at 1224 x 960 pixels 22 fps at 1920 x 1080 pixels		
	Connector	USB 3.0		
	Color	Color		
	Observation Method	Brightfield		
Camera Software	Relevant software compatible windows	10 or above		
Computer	Laptop Computer	Intel Core i7 9th Gen or above Hexa Core, 2.6 GHz Clock Speed 16 GB RAM 1 TB SSD 6 GB NVIDIA Graphics Card 15.6 inches, 1920 x 1080 pixels Windows 64 OS Warranty at least 3 years		
Installation and Delivery	Required			
Warranty Period	Please specify			
Number of free services	Please specify			
Condition of service agreement and fee after warranty period	Please specify			

Availability in stock	Please specify		
Delivery period in "Days" from the placement of purchasing order	Please specify		



Specification for Multipara Meter

Specification	Requirements	Bidders Compliance	
		Yes/No	If "No" indicate your offer
Make	Please specify		
Model	Please specify		
Country of Origin	Please specify		
Country of manufacture	Please specify		
	The Meter should be able to measure up to 9 physicochemical parameters. and photometric parameters more than 40 additional		
	standard Solutions 1413 μ S, 12.88mS, pH 4 and pH 7, manual, data transfer USB cable, power adapter, Software CD or pen drive, field carrying case should be supplied with the instrument as accessories		
	the Conductivity probe should be plastic 4 pole electrode with platinum and graphite sensors and 3m cable, with IP 68 protection class		
	the pH electrode should be gel-filled electrode with an integrated temperature sensor, PVC housing with 3m cable, with IP 68 protection class		
	the DO electrode should be an optical electrode with luminescence technology with integrated temperature sensor, SS 316 housing with 3m cable, with IP 68 protection class		
Display	LCD with backlight is required		

Measuring Range - EC	0 to 200 mS/cm or better		
Measuring Range - TDS	TDS: 0 to 130,000 ppm		
Measuring Range - Salinity	Salinity: 5-60 g/Kg		
Resolution -EC/TDS/Salinity	0.01/0.1/1		
Accuracy-EC/TDS/Salinity	±1.0% F.S or better		
Measuring Range - pH	0.00 to 14.00 pH (dynamic range)		
Resolution	0.01/0.1		
Accuracy - pH	±0.1 pH or better		
DO measuring range	0,00 to 20,00 mg/L / 0-200% with luminescence technology		
DO Resolution	0.01/0.1		
DO Accuracy	+/- 0,1mg/L +/- 0,1 ppm +/- 1 %		
Temperature measuring range	0 to 100°C		
Temperature Resolution	0.1°C or better		
Temperature Accuracy	±0.5°C or better		
Power supply	220-230V 50 -60 Hz		
Certifications/Compliance	ISO/GLP		
Technology	Please specify		
Warranty	At least 2 years		
Relevant accessories	Please specify		
	The meter should have a 1- 3 point calibration facility for Conductivity and pH		
	The meter should have 2 point calibration facility for DO		
	The calibration reminder facility should be there		
	All probes should be IP 68 grade protection, and should have the		

	facility to save all the calibration data in the probe		
Technical characteristics of Photometer			
	The detector should be silicon photodiode		
	Available Wavelengths should be 639 nm, 591 nm, 518 nm, 468 nm, 400 nm		
	Wavelength adjustment should be automatic		
	Cuvette cell should be 16 mm round shape vials		
	More than 50 parameters are analyzable by using a photometer		
	Photometer IP Class – IP67 or better		
	meter IP class - IP 68 or better		
	the meter should have an inbuild memory for 100,000 or more points with measured User data.		
	the meter/s should be compatible to be used in the field and laboratory with a meter stand or with a foldable stand		
	the meter should have an adjustable TDS factor of 0.40 to 1.00		
	Product certificates - CE / RoHs		
	Quality Certificates - ISO9001:2015 preferred		
	Meter Warranty - Specify		
	Probes Warranty - Specify		
	Manufacture Authorization Letter should be provided		
	The Specifications should be clearly marked and mentioned in manufactures literatures (brohures / Manuals / websites)		



Section iv

Specification for Analytical Balance

Specification	Requirements	Bidders Compliance	
		Yes/No	If "No" indicate your offer
Make	Please specify		
Model	Please specify		
Country of Origin	Please specify		
Country of manufacture	Please specify		
Capacity	220g or more		
Resolution (Readability)	0.1mg		
Repeat ability	0.2 mg		
Linearity	0.2mg		
Pan	App. 80-90mm		
Calibration	Internal auto calibration		
Measuring system	should not be affected from magnetic interferences, frequency-based sensor preferred		
The water level	must be situated in the easy viewing		
Vibration protect	Resistant to disturbing vibration		
Conectors	RS 232C port should be there to connect to printer or computer		
Housing	High grade aluminum housing is resistant chemical		
Display	High contrast display with large characters		
Connectivity	RS 232 and RS486		
Adjustable	Feed and level indicator		
Protection	Overload protection		
Power supply	220-230V 50 -60 Hz		
Certifications/Compliance	ISO/GLP		
Technology	Please specify		
Warranty	At least 2 years		
Relevant accessories	Please specify		



Section IV/ Top Loading Autoclave

Specification	Requirements	Bidders Compliance	
		Yes/No	If "No" indicate your offer
Make	Please specify		
Model	Please specify		
Country of Origin	Please specify		
Country of manufacture	Please specify		
Sterilize	culture media, glass, liquids, plastic, metallic elements, waste bag		
Operate ranges	45 - 80°C pre heating temperature 45 - 60°C heat retention phase 65 - 100°C dissolution phase 105 - 135°C sterilizing phase		
Max. working pressure	0.255MPa or higher		
Ambient temperature	5~35°C		
Lid	Manual upward opening with an interlock for safety		
Heater	Should have at least 2x 1000W heaters		
Exhaust valves	Should have two valves exhaust and slow release valves		
Connection ports for optional sensors should be available	Two ports for sample temperature and chamber temperature		
Cooling fan	Axial fan for rapid cooling should be available		
Main controller	A PID control by microprocessor is preferred		
Display panel	The instrument should display the time and temperature and Current stage heating/sterilizing/exhaust		

Timer	0 or 1 min. to 99 hrs 59 min. / 1 minute		
Safety features should available	Sensor failure detection SSR short-circuit, Broken heater wire, Prevention of idle heating (Liquid expansion type),		
Internal chamber capacity	80 L or more		
Required accessories	Should supply with 3 stainless steel mesh basket, Vapor cup Drain bottle Drain board Chemical indicator 1 set (30 pieces minimum), Filter		
Power supply	240V, 50/60Hz. Single phased.		
All the required specifications	should be highlighted on manufactures brochures/manuals		
Warranty	2 Years		
Spare parts availability	10Years		
Documents	Local Agent authorization letters List of users for Identical model		

Section IV

Forced Convection Oven

Specification	Requirements	Bidders Compliance	
		Yes/No	If "No" indicate your offer
Make	Please specify		
Model	Please specify		
Country of Origin	Please specify		
Country of manufacture	Please specify		
Capacity Litre	App. 90L		
Shelves and Hinges	Non rusting hinges and at least 2 wire mesh shelves		
Window	Should have a see-through window to observe sample when oven is at operation		
Type	internal should be stainless steel and exterior should be Cold rolled steel plate with melamine resin baking finish		
Temperature Control	Temperature range up to at least 250 °C at least from ambient +10°C should have PID temperature controller for better accuracy with program operation: 3 programs of 10 steps or 30 step 1 program		
Programmed	should have Fixed setting, programmed, Quick Auto stop, Auto stop, and Auto start operating modes with easy control capabilities		
Door handle	should be constructed with a stainless-steel handle with a positive latch system for safety with silicon gasket in doors		
Timer	Should be available for 1 min. to 99 Hrs. 59 min. and 100 Hrs. to 999 Hrs. 50 min. with timer wait function		
Safety function	Over temperature and electric overload Automatically heater and blower cutoff when the door is opened		
	should have calibration off-set function, Key lock, Uninterruptible power for memory		

Vent ports	Two adjustable vent ports and cable hole should be able for calibration and verification probes		
Accuracy	Temperature distribution accuracy $\pm 2.5^{\circ}\text{C}$ at 210°C minimum Temperature control accuracy ± 1 minimum at 210°C		
Self-diagnosis functions	Temp. sensor abnormal, Heater disconnection, SSR- short, Automatic overheating prevention, Key lock function, Overheat prevention, Electric leakage breaker with over current protection should be available as safety features		
Power supply	220-230V 50 -60 Hz		
Certifications/Compliance	ISO/GLP		
Technology	Please specify		
Warranty	At least 2 years		
Relevant accessories	Please specify		

Section IV

Laboratory Shaker

Specification	Requirements	Bidders Compliance	
		Yes/No	If "No" indicate your offer
Make	Please specify		
Model	Please specify		
Country of Origin	Please specify		
Country of manufacture	Please specify		
Shaker Type	Platform shaker with true Orbital motion for shaking mass up-to 30 kgs or more, Orbital diameter (amplitude) – 30 to 32 mm		
Universal Attachment	Should be supplied with universal attachment with clamp attachment tray		
Tray Capacity	The clamp attachment tray should have capacity to hold 25-30 beakers of 250 ml flasks at once (optionally quote clamp prices)		
Display	Shaking frequency display and setting digitally via LC display, gentle start-up		
Timer	Timer ranging from 1 min to 99 hours and 59 minutes		
Frequency Display	The setpoint and the actual values as well as the shaking frequency should be displayed on two LC displays		
Frequency	Shaking frequency 20 - 250 in steps of 1.0 rpm		
Keypad	Water repellent membrane keypad operation		
Adjustment	Program mode allows to adjust speed, time dwell time		
Shaking Table	Instrument should have large shaking table made of electrolytically galvanized, powder-coated sheet steel For long durability		

Safety	Should be drive by an overload-protected AC motor Should have low-wear mechanism with mass balancing for a secure stand		
Platform Attachments	Different platform attachments should be possible to use almost all shapes and sizes of vessels optionally		
Relevant Accessories	optionally offer the available clamps and platforms with the prices and capacities separately		
Power supply	220-230V 50 -60 Hz		
Certifications/Compliance	ISO/GLP		
Technology	Please specify		
Warranty	At least 2 years		
Relevant accessories	Please specify		

Shaker