



Invitation for Bids (IFB)

NATIONAL COMPETITIVE BIDDING (NCB)

Procurement of Laboratory Equipment Supply, Installation and Commissioning for the Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC), Phase I Building, Mahenawatta, Thalagala Rd, Pitipana, Homagama

Contract No: SLIBTEC/PROC/211/NCB/G&S/Procurement of Laboratory Equipment Supply, Installation and Commissioning

1. The Chairperson, Department Procurement Committee of Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC) invites sealed bids from the eligible & qualified bidders for **Procurement of Laboratory Equipment Supply, Installation and Commissioning for the SLIBTEC, Phase I Building, Mahenawatta, Thalagala Rd, Pitipana, Homagama.**
2. To be eligible for contract award, the successful bidder shall not have been blacklisted, and shall have Business Registration in the relevant field as per the qualification criteria.
3. A complete set of Bidding Documents in English language can be downloaded from the SLIBTEC website (<https://www.slibtec.gov.lk/procurement>) by interested bidders from **08th July 2025 to 29th July 2025**. Prebid meeting will be held on **11th July 2025 at 9.30 a.m.** at the aforementioned address.
4. The payment of non-refundable fee of **LKR 20,000** should be deposited to the Bank A/c No. **049-1-001-7-0067474 – Sri Lanka Institute of Biotechnology Pvt Ltd, Peoples Bank, Homagama Branch**, (Note: Please fill the depositor's details and purpose of deposit in the cash deposit slip as “Non-Refundable Tender Fee” and it is mandatory to submit the aforesaid original cash deposit slip with the Bid. The payment should be made in cash to the Bank and other payments methods are not acceptable.)
5. Bids must be delivered in duplicate to the address: Chairperson, Department Procurement Committee, Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC), Phase I Building, Mahenawatta, Thalagala Rd, Pitipana, Homagama on or before **29th July 2025 at 10.00 a.m.** **Late bids will be rejected.** Bids will be opened soon after closing in the presence of the bidders' representatives who choose to attend.
6. Bids shall be valid for **91 Days** from the date of Bid Opening and all bids shall be accompanied by a bid security of **LKR 3,054,000.00** Bid Security shall be valid up to 28 days beyond the date of Bid validity date **25th November 2025**.

7. The delivery period is within 7 weeks from the date of awarding.
8. Bidding method will be the **National Competitive Bidding**
9. Qualifications requirements are included in the bidding document
10. An employee or a firm and/or an individual that has any close family relationship with an employee of the Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC) and any other institution under the control of the Ministry of Science & Technology shall **NOT BE ELIGIBLE** for the bidding process.
11. Interested eligible bidders may obtain further information from Tharindu Madushankha Procurement Manager, Sri Lanka Institute of Biotechnology (Pvt) Ltd through the email address (tharindu.madushankha@slibtec.gov.lk).

Chairperson

Department Procurement Committee

Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC)

08th July 2025

Section I. Instructions to Bidders (ITB)

ITB shall be read in conjunction with the Section II, Bidding Data Sheet (BDS), which shall take precedence over ITB.

General

1. Scope of Bid
 - 1.1 The Purchaser indicated in the Bidding Data Sheet (BDS), issues these Bidding Documents for the supply of Goods and Related Services incidental thereto as specified in Section V, Schedule of Requirements. The name and identification number of this procurement are specified in the BDS. The name, identification, and number of lots (individual contracts), if any, are provided in the BDS.
 - 1.2 Throughout these Bidding Documents:
 - (a) the term “in writing” means communicated in written form by mail (other than electronic mail) or hand delivered with proof of receipt;
 - (b) if the context so requires, “singular” means “plural” and vice versa; and
 - (c) “day” means calendar day.
2. Source of Funds
 - 2.1 Payments under this contract will be financed by the source specified in the BDS.
3. Ethics, Fraud and Corruption
 - 3.1 The attention of the bidders is drawn to the following guidelines of the Procurement Guidelines published by National Procurement Agency:
 - Parties associated with Procurement Actions, namely, suppliers/contractors and officials shall ensure that they maintain strict confidentiality throughout the process;
 - Officials shall refrain from receiving any personal gain from any Procurement Action. No gifts or inducement shall be accepted. Suppliers/contractors are liable to be disqualified from the bidding process if found offering any gift or inducement which may have an effect of influencing a decision or impairing the objectivity of an official.
 - 3.2 The Purchaser requires the bidders, suppliers, contractors, and consultants to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy:
 - (a) “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public

official in the procurement process or in contract execution;

(b) “fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;

(c) “collusive practice” means a scheme or arrangement between two or more bidders, with or without the knowledge of the Purchaser to establish bid prices at artificial, noncompetitive levels; and

(d) “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.

3.3 If the Purchaser found any unethical practices as stipulated under ITB Clause 3.2, the Purchaser will reject a bid, if it is found that a Bidder directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.

4. Eligible Bidders 4.1 All bidders shall possess legal rights to supply the Goods under this contract.

4.2 A Bidder shall not have a conflict of interest. All bidders found to have conflict of interest shall be disqualified. Bidders may be considered to have a conflict of interest with one or more parties in this bidding process, if they:

(a) are or have been associated in the past, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under these Bidding Documents; or

(b) submit more than one bid in this bidding process. However, this does not limit the participation of subcontractors in more than one bid.

4.3 A Bidder that is under a declaration of ineligibility by the National Procurement Agency (NPA), at the date of submission of bids or at the date of contract award, shall be disqualified. The list of debarred firms is available at the website of NPA, www.npa.gov.lk.

4.4 Foreign Bidder may submit a bid only if so stated in the in

the BDS.

5. Eligible Goods and Related Services
- 5.1 All goods supplied under this contract shall be complied with applicable standards stipulated by the Sri Lanka Standards Institute (SLSI). In the absence of such standards, the Goods supplied shall be complied to other internationally accepted standards.

Contents of Bidding Documents

6. Sections of Bidding Documents
- 6.1 The Bidding Documents consist of 2 Volumes, which include all the sections indicated below, and should be read in conjunction with any addendum issued in accordance with ITB Clause 8.

Volume 1

- Section I. Instructions to Bidders (ITB)
- Section V. Conditions of Contract (CC)
- Section VII. Contract Forms

Volume 2

- Section II. Bidding Data Sheet (BDS)
- Section III. Bidding Forms
- Section IV. Schedule of Requirements
- Section VI. Contract Data
- Invitation For Bid

- 6.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Documents may result in the rejection of the bid.
7. Clarification of Bidding Documents
- 7.1 A prospective Bidder requiring any clarification of the Bidding Documents including the restrictiveness of specifications shall contact the Purchaser in writing at the Purchaser's address specified in the BDS. The Purchaser will respond in writing to any request for clarification, provided that such request is received no later than ten (10) days prior to the deadline for submission of bids. The Purchaser shall forward copies of its response to all those who have purchased the Bidding Documents, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB Clause 8.
8. Amendment of Bidding Documents
- 8.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addendum.
- 8.2 Any addendum issued shall be part of the Bidding Documents and shall be communicated in writing to all who have purchased the Bidding Documents.
- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB Sub-Clause 23.2

Preparation of Bids

9. Cost of Bidding
- 9.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
10. Language of Bid
- 10.1 The Bid, as well as all correspondence and documents relating to the Bid (including supporting documents and printed literature) exchanged by the Bidder and the Purchaser, shall be written in English language.
11. Documents Comprising the Bid
- 11.1 The Bid shall comprise the following:
- (a) Bid Submission Form and the applicable Price Schedules, in accordance with ITB Clauses 12, 14, and 15;
 - (b) Bid Security or Bid-Securing Declaration, in

accordance with ITB Clause 20;

- (c) documentary evidence in accordance with ITB Clauses 18 and 29, that the Goods and Related Services conform to the Bidding Documents;
- (d) documentary evidence in accordance with ITB Clause 18 establishing the Bidder's qualifications to perform the contract if its bid is accepted; and
- (e) any other document required in the BDS.

12. Bid Submission Form and Price Schedules 12.1 The Bidder shall submit the Bid Submission Form using the form furnished in Section IV, Bidding Forms. 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.
13. Alternative Bids 13.1 Alternative bids shall not be considered.
14. Bid Prices and Discounts 14.1 The Bidder shall indicate on the Price Schedule the unit prices and total bid prices of the goods it proposes to supply under the Contract.
- 14.2 Any discount offered against any single item in the price schedule shall be included in the unit price of the item. However, a Bidder wishes to offer discount as a lot the bidder may do so by indicating such amounts appropriately.
- 14.3 If so indicated in ITB Sub-Clause 1.1, bids are being invited for individual contracts (lots) or for any combination of contracts (packages). Unless otherwise indicated in the BDS, prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer any price reduction (discount) for the award of more than one Contract shall specify the applicable price reduction separately.
- 14.4 (i) Prices indicated on the Price Schedule shall include all duties and sales and other taxes already paid or payable by the Supplier:
- (a) on components and raw material used in the manufacture or assembly of goods quoted; or
 - (b) on the previously imported goods of foreign origin
- (ii) However, VAT shall not be included in the price but shall be indicated separately;

(iii) the price for inland transportation, insurance and other related services to deliver the goods to their final destination;

(iv) the price of other incidental services.

14.5 The Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected, pursuant to ITB Clause 31.

14.6 All lots, if any, and items must be listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items.

15. Currencies of Bid
15.1 Unless otherwise stated in Bidding Data Sheet, the Bidder shall quote in Sri Lankan Rupees and payment shall be payable only in Sri Lanka Rupees.

16. Documents Establishing the Eligibility of the Bidder
16.1 To establish their eligibility in accordance with ITB Clause 4, Bidders shall complete the Bid Submission Form, included in Section IV, Bidding Forms.

17. Documents Establishing the Conformity of the Goods and Related Services
17.1 To establish the conformity of the Goods and Related Services to the Bidding Documents, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section V, Schedule of Requirements.

17.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description (given in Section V, Technical Specifications) of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Schedule of Requirements.

17.3 The Bidder shall also furnish a list giving full particulars, including quantities, available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period if specified in the BDS following commencement of the use of the goods by the Purchaser.

18. Documents Establishing the Qualifications of the Bidder
- 18.1 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:
- (a) A Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods;
 - (b) that, if required in the BDS, in case of a Bidder not doing business within Sri Lanka, the Bidder is or will be (if awarded the contract) represented by an Agent in Sri Lanka equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and
 - (c) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.
19. Period of Validity of Bids
- 19.1 Bids shall remain valid until the date specified in the BDS. A bid valid for a shorter date shall be rejected by the Purchaser as non-responsive.
- 19.2 In exceptional circumstances, prior to the expiration of the bid validity date, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 20, it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its bid.
20. Bid Security
- 20.1 The Bidder shall furnish as part of its bid, a Bid Security or a Bid-Securing Declaration, as specified in the BDS.
- 20.2 The Bid Security shall be in the amount specified in the BDS and denominated in Sri Lanka Rupees, and shall:
- (a) at the bidder's option, be in the form of either a bank draft, a letter of credit, or a bank guarantee from a banking institution;
 - (b) be issued by a institution acceptable to Purchaser. The acceptable institutes are published in the NPA website, www.npa.gov.lk.
 - (c) be substantially in accordance with the form included

in Section IV, Bidding Forms;

- (d) be payable promptly upon written demand by the Purchaser in case the conditions listed in ITB Clause 20.5 are invoked;
- (e) be submitted in its original form; copies will not be accepted;
- (f) remain valid for the period specified in the BDS.

20.3 Any bid not accompanied by a substantially responsive Bid Security or Bid Securing Declaration in accordance with ITB Sub-Clause 20.1 and 20.2, may be rejected by the Purchaser as non-responsive.

20.4 The Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the Performance Security pursuant to ITB Clause 43.

20.5 The Bid Security may be forfeited or the Bid Securing Declaration executed:

- (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Submission Form, except as provided in ITB Sub-Clause 19.2; or
- (b) if a Bidder does not agree to correction of arithmetical errors in pursuant to ITB Sub-Clause 30.3
- (c) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB Clause 42;
 - (ii) furnish a Performance Security in accordance with ITB Clause 43.

21. Format and Signing of Bid

21.1 The Bidder shall prepare one original of the documents comprising the bid as described in ITB Clause 11 and clearly mark it as "ORIGINAL." In addition, the Bidder shall submit a copy of the bid and clearly mark it as "COPY." In the event of any discrepancy between the original and the copy, the original shall prevail.

21.2 The original and the Copy of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder.

21.3 Any interlineations, erasures, or overwriting shall be valid

only if they are signed or initialed by the person signing the Bid.

Submission and Opening of Bids

22. Submission,
Sealing and
Marking of
Bids

22.1 Bidders may always submit their bids by mail or by hand.

- (a) Bidders submitting bids by mail or by hand, shall enclose the original and the copy of the Bid in separate sealed envelopes, duly marking the envelopes as “ORIGINAL” and “COPY.” These envelopes containing the original and the copy shall then be enclosed in one single envelope.

22.2 The inner and outer envelopes shall:

- (a) Bear the name and address of the Bidder;
- (b) be addressed to the Purchaser in accordance with ITB Sub-Clause 23.1;
- (c) bear the specific identification of this bidding process as indicated in the BDS; and
- (d) bear a warning not to open before the time and date for bid opening, in accordance with ITB Sub-Clause 261.

If all envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the bid.

23. Deadline for
Submission of
Bids

23.1 Bids must be received by the Purchaser at the address and no later than the date and time specified in the BDS.

23.2 The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB Clause 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

24. Late Bids

24.1 The Purchaser shall not consider any bid that arrives after the deadline for submission of bids, in accordance with ITB Clause 23. Any bid received by the Purchaser after the deadline for submission of bids shall be declared late, rejected, and returned unopened to the Bidder.

25. Withdrawal,
and
Modification of
Bids

25.1 A Bidder may withdraw, or modify its Bid after it has been submitted by sending a written notice in accordance with ITB Clause 22, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB Sub-Clause 21.2, (except that no copies of the

withdrawal notice is required). The corresponding substitution or modification of the bid must accompany the respective written notice. All notices must be:

- (a) submitted in accordance with ITB Clauses 21 and 22 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” or “MODIFICATION;” and
- (b) received by the Purchaser prior to the deadline prescribed for submission of bids, in accordance with ITB Clause 23.

25.2 Bids requested to be withdrawn in accordance with ITB Sub-Clause 25.1 shall be returned to the Bidders only upon notification of contract award to the successful bidder in accordance with sub clause 41.1.

25.3 No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Submission Form or any extension thereof.

26. Bid Opening

26.1 The Purchaser shall conduct the bid opening in public at the address, date and time specified in the BDS.

26.2 First, envelopes marked “WITHDRAWAL” shall be opened and read out and the envelope with the corresponding bid may be opened at the discretion of the Purchaser. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening. Envelopes marked “MODIFICATION” shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid opening. Only envelopes that are opened and read out at Bid opening shall be considered further.

26.3 All other envelopes shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification; the Bid Prices, including any discounts and alternative offers; the presence of a Bid Security or Bid-Securing Declaration, if required; and any other details as the Purchaser may consider appropriate. Only discounts and alternative offers read out at Bid opening shall be considered for evaluation. No Bid shall be rejected at Bid opening except for late bids, in accordance with ITB Sub-Clause 24.1.

26.4 The Purchaser shall prepare a record of the Bid opening that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, or modification; the Bid Price, per lot if applicable, including any discounts, and the presence or absence of a Bid Security or Bid-Securing Declaration. The bids that were opened shall be resealed in separate envelopes, promptly after the bid opening. The

Bidders' representatives who are present shall be requested to sign the attendance sheet. A copy of the record shall be distributed to all Bidders who submitted bids in time.

Evaluation and Comparison of Bids

27. Confidentiality
- 27.1 Information relating to the examination, evaluation, comparison, and post-qualification (if applicable) of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until publication of the Contract Award.
- 27.2 Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post-qualification of the bids or contract award decisions may result in the rejection of its Bid.
- 27.3 Notwithstanding ITB Sub-Clause 27.2, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, from the time of bid opening to the time of Contract Award, it should do so in writing.
28. Clarification of Bids
- 28.1 To assist in the examination, evaluation, comparison and post-qualification of the bids, the Purchaser may, at its discretion, request any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered for purpose of evaluation. The Purchaser's request for clarification and the response shall be in writing. No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids, in accordance with ITB Clause 30.
29. Responsiveness of Bids
- 29.1 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself.
- 29.2 A substantially responsive Bid is one that conforms to all the terms, conditions, and specifications of the Bidding Documents without material deviation, reservation, or

omission. A material deviation, reservation, or omission is one that:

- (a) affects in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or
- (b) limits in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or
- (c) if rectified would unfairly affect the competitive position of other bidders presenting substantially responsive bids.

29.3 If a bid is not substantially responsive to the Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.

30. Nonconformities, Errors, and Omissions

30.1 Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.

30.2 Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

30.3 Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:

- (a) if there is a discrepancy between the unit price and the line-item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line-item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line-item total as quoted shall govern and the unit price shall be corrected;
- (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount

expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

- 30.4 If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid-Securing Declaration shall be executed.
31. Preliminary Examination of Bids
- 31.1 The Purchaser shall examine the bids to confirm that all documents and technical documentation requested in ITB Clause 11 have been provided, and to determine the completeness of each document submitted.
- 31.2 The Purchaser shall confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the Bid shall be rejected.
- (a) Bid Submission Form, in accordance with ITB Sub-Clause 12.1;
 - (b) Price Schedules, in accordance with ITB Sub-Clause 12;
 - (c) Bid Security or Bid Securing Declaration, in accordance with ITB Clause 20.
32. Examination of Terms and Conditions; Technical Evaluation
- 32.1 The Purchaser shall examine the Bid to confirm that all terms and conditions specified in the CC and the Contract Data have been accepted by the Bidder without any material deviation or reservation.
- 32.2 The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with ITB Clause 17, to confirm that all requirements specified in Section V, Schedule of Requirements of the Bidding Documents have been met without any material deviation or reservation.
- 32.3 If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Bid is not substantially responsive in accordance with ITB Clause 29, the Purchaser shall reject the Bid.
33. Conversion to Single Currency
- 34.1 If the bidders are allowed to quote in foreign currencies in accordance with sub clause 15.1, for evaluation and comparison purposes, the Purchaser shall convert all bid prices expressed in foreign currencies in to Sri Lankan Rupees using the selling rates prevailed 28 days prior to closing of bids as published by the Central Bank of Sri Lanka. If this date falls on a public holiday the earliest working day prior to the date shall be applicable.

34. Domestic Preference
- 34.1 Domestic preference shall be a factor in bid evaluation only if stated in the BDS. If domestic preference shall be a bid-evaluation factor, the methodology for calculating the margin of preference and the criteria for its application shall be as specified in Section III, Evaluation and Qualification Criteria.
35. Evaluation of Bids
- 35.1 The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.
- 35.2 To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined in this ITB Clause 35.
- 35.3 To evaluate a Bid, the Purchaser shall consider the following:
- (a) the Bid Price as quoted in accordance with clause 14;
 - (b) price adjustment for correction of arithmetic errors in accordance with ITB Sub-Clause 30.3;
 - (c) price adjustment due to discounts offered in accordance with ITB Sub-Clause 14.2; and 14.3
 - (d) adjustments due to the application of the evaluation criteria specified in the BDS from amongst those set out in Section III, Evaluation and Qualification Criteria;
 - (e) adjustments due to the application of a domestic preference, in accordance with ITB Clause 34 if applicable.
- 35.4 The Purchaser's evaluation of a bid may require the consideration of other factors, in addition to the factors stated in ITB Sub-Clause 35.3, if specified in BDS. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of bids
- 35.5 If so specified in the BDS, these Bidding Documents shall allow Bidders to quote for one or more lots, and shall allow the Purchaser to award one or multiple lots to more than one Bidder. The methodology of evaluation to determine the lowest-evaluated lot combinations, is specified in Section III, Evaluation and Qualification Criteria.
- 36.1 The Purchaser shall compare all substantially responsive bids to determine the lowest-evaluated bid, in accordance
36. Comparison of Bids

with ITB Clause 35.

37. Postqualification of the Bidder
- 37.1 The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid is qualified to perform the Contract satisfactorily.
- 37.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 18.
- 37.3 An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the bid, in which event the Purchaser shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.
38. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids
- 38.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders.

Award of Contract

39. Award Criteria
- 39.1 The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
40. Purchaser's Right to Vary Quantities at Time of Award
- 40.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section V, Schedule of Requirements, provided this does not exceed twenty five percent (25%) or one unit which ever is higher and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.
41. Notification of Award
- 41.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted.
- 41.2 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.
- 41.3 Upon the successful Bidder's furnishing of the signed Contract Form and performance security pursuant to ITB Clause 43, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 20.4.

42. Signing of Contract
- 42.1 Within Seven (7) days after notification, the Purchaser shall complete the Agreement, and inform the successful Bidder to sign it.
- 42.2 Within Seven (7) days of receipt of such information, the successful Bidder shall sign the Agreement.
43. Performance Security
- 43.1 Within fourteen (14) days of the receipt of notification of award from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the CC, using for that purpose the Performance Security Form included in Section VIII Contract forms. The Employer shall promptly notify the name of the winning Bidder to each unsuccessful Bidder and discharge the Bid Securities of the unsuccessful bidders pursuant to ITB Sub-Clause 20.4.
- 43.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or execution of the Bid- Securing Declaration. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder, whose offer is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

Section II. Bidding Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

| | |
|-----------------------------|---|
| ITB Clause Reference | A. General |
| ITB 1.1 | The Purchaser is: Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC) |
| ITB 1.1 | The name and identification number of the Contract are: Procurement of Laboratory Equipment for SLIBTEC Phase I Building, Mahenwatta, Thalagala Rd, Pitipana, Homagama (Contract No: SLIBTEC/PROC/211/NCB/G&S/Laboratory Equipment) |
| ITB 2.1 | The source of funding is: Government of Sri Lanka |
| ITB 4.4 | Foreign bidders are not allowed to participate in bidding. |
| | B. Contents of Bidding Documents |
| ITB 7.1 | For <u>Clarification of bid purposes</u> only, the Purchaser's address is: Attention: Procurement Department Address: Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC), Phase I Building, Mahenwatta, Thalagala Road, Pitipana, Homagama Telephone: 011 3431 844/ 078 1200 507 Electronic mail address: tharindu.madushankha@slibtec.gov.lk navoda.balasooriya@slibtec.gov.lk |
| | C. Preparation of Bids |
| ITB 11.1 (e) | The Bidder shall submit the following General Information documents. (To be furnished documentary evidence for the following). All documents submitted by photocopies shall be authenticated by Attorney at Law <ul style="list-style-type: none"> • Should be in the business continuously for last Five years and should be a Manufacture or authorized representative from Manufacturer who must have manufactured and supplied satisfactorily similar products for at least during the last Two years continuously. • The Bidder should furnish information on past supplies and their satisfactory performance for last Two years. |

| | |
|---------------------|---|
| | <ul style="list-style-type: none"> • The Bidder should submit the following documents along with the Bid; <ul style="list-style-type: none"> - Certificate of Business Registration or Incorporation (Certified photocopy) - Records for the last Two years in the supply of similar products to government/ other institutions. (Certified photocopy). - Manufacture’s Authorization (original) |
| ITB 14.3 | The bidders may quote for minimum quantities as mentioned in the list of goods and delivery schedule |
| ITB 15.1 | The bidder shall quote in Sri Lankan Rupees |
| ITB 18.1 (b) | After sales service is required |
| ITB 19.1 | The bid shall be valid until 91 days from the date of bid opening |
| ITB 20.1 | Bid shall include a Bid Security (issued by bank) strictly in accordance with the form included in Section IV Bidding Forms |
| ITB 20.2 | The amount of the Bid Security shall be LKR 3,054,000.00 . The validity period of the bid security shall be until 24th November 2025 from the date of bid opening. |
| | D. Submission and Opening of Bids |
| ITB 22.2 | <p>The Bidder shall seal the original and the copy of the Bids in two separate covers, duly marked as “ORIGINAL OF BIDDING PROPOSAL” and “COPY OF BIDDING PROPOSAL”. The two covers shall then be sealed as inner covers in the Envelope. The original cover shall include the originals and the copy shall include copies of the following;</p> <ul style="list-style-type: none"> • Invitation for Bid • Bidding Data Sheet • Evaluation and Qualification Criteria • Schedule of Requirements • Contract Data • Power of Attorney or Board Resolution for the authentication of the Signature for the Bid • Duly filled and signed form of Bid • Bid Security • Duly filled Section IX – Schedules with documentary evidence • Duly Signed Manufactures Authorization Form • Other information requested in Bidding Data clause 11.1(e); and • Any other information, bidder may wish to include • Finance statement • Last year audit report • Business registration – 5years • Need to provide proof for experience of supplying related equipment’s |

| | |
|-----------------|---|
| | |
| ITB 23.1 | <p>For bid submission purposes, the Purchaser's address is:</p> <p>Attention: Chairperson, Department Procurement Committee</p> <p>Address: Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC), Phase I Building, Mahenwatta, Thalagala Road, Pitipana, Homagama.</p> <p>The deadline for the submission of bids is as mentioned in Invitation for Bids</p> |
| ITB 26.1 | <p>The bid opening shall take place at the same time in following address.</p> <p>Address: Corporate Area, Ground Floor, Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC), Phase I Building, Mahenwatta, Thalagala Road, Pitipana, Homagama.</p> |
| | E. Evaluation and Comparison of Bids |
| ITB 35.4 | <p>The following factors and methodology will be used for evaluation:</p> <p>The bids will be first evaluated for technical compliance. Then from the bids that complied with all technical requirements, the least quoted bid will be selected.</p> <p>Bidder will be bound to deliver one or more items awarded as specified in the letter of award.</p> <p>Other factors that will be considered for evaluation are (List and describe the methodology):</p> |
| ITB 35.5 | <p>Bidders shall be allowed to quote for one or more lots.</p> |

Section III. Evaluation and Qualification Criteria

This Section complements the Instructions to Bidders. It contains the criteria that the Purchaser use to evaluate a bid and determine whether a Bidder has the required qualifications. No other criteria shall be used.

Qualification Criteria

1. Legal and Regulatory Requirements

- **Registration:** The bidder must be a legally registered entity in Sri Lanka (or an international bidder with the ability to operate in Sri Lanka). This includes being registered with the Department of Registrar of Companies (if applicable) and having the appropriate business licenses.
- **Tax Compliance:** The bidder must comply with Sri Lankan tax laws, including VAT, income tax, and other applicable taxes. Evidence of tax registration, such as a Taxpayer Identification Number (TIN), must be provided.

2. Experience and Track Record

- **Previous Supply Experience:** The bidder must demonstrate experience in supplying similar laboratory equipment, preferably within the last 3-5 years. This includes showing successful past deliveries of laboratory equipment to other institutions (e.g., universities, research institutions, hospitals, etc.).
- **Client References:** The bidder should provide references from past clients where they have supplied similar laboratory equipment. The references should include details such as contract value, delivery timelines, and client contact information.

3. Financial Criteria

- **Financial Stability:** The bidder must prove financial stability by submitting audited financial statements for the past 3 years. This helps the procuring entity assess whether the bidder has sufficient liquidity and resources to fulfill the contract.
- **Banking Details:** Proof of financial capacity (e.g., a letter from a bank or bank statements) may be required to demonstrate that the bidder has the financial backing to complete the contract.

4. Technical Criteria

- **Product Specifications and Quality:** The bidder must provide detailed specifications and brochures for the laboratory equipment being offered. This includes meeting internationally recognized standards (e.g., ISO certification for equipment).
- **Compliance with Standards:** Laboratory equipment must meet relevant Sri Lankan national standards (or international standards if applicable). For instance, compliance with ISO, IEC, or CE standards may be required.
- **Installation and Commissioning:** The bidder should have the capacity to install and commission the laboratory equipment. The bidder should provide a plan for installation, calibration, testing, and training of staff, as well as documentation for operational use.

5. Personnel and Equipment

- **Qualified Personnel:** The bidder must demonstrate qualified technical personnel who can oversee the installation, commissioning, and training related to the equipment.
- **Service Engineers:** Bidders may be required to provide details of qualified service engineers or technicians who can maintain and repair the equipment after installation.

Evaluation Criteria

The following factors and methodology will be used for evaluation:

The bids will be first evaluated for technical compliance. Then from the bids that complied with all technical requirements, the least quoted bid will be selected.

Bidder will be bound to deliver one or more items awarded as specified in the letter of award.

Other factors that will be considered for evaluation are (List and describe the methodology):

Section IV. Bidding Forms

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Bid Submission Form

NAME OF CONTRACT: Procurement of Laboratory Equipment for the SLIBTEC, Phase I Building, Mahenwatta, Thalagala Rd, Pitipana, Homagama
Contract - SLIBTEC/PROC/211/NCB/G&S/Procurement of Laboratory Equipment

To:

The Chairperson
Department Procurement Committee
Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC)
Phase I Building
Mahenwatta
Thalagala Road
Pitipana
Homagama.

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda No.....
- (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 Laboratory Equipment.
- (c) The total price of our Bid excluding VAT, including any discounts offered is: *[insert the total bid price in words and figures]*;
.....
.....
- (d) The total price of our Bid including VAT, and any discounts offered is: *[insert the total bid price in words and figures]*;
.....
.....
- (e) Our bid shall be valid for the period of time specified in ITB Sub-Clause 18.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 23.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 43 and CC Clause 17 for the due performance of the Contract;
- (g) We have no conflict of interest in accordance with ITB Sub-Clause 4.3;

- (h) Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared blacklisted by the National Procurement Agency;
- (k) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- (l) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed: *[insert signature of person whose name and capacity are shown]*
In the capacity of *[insert legal capacity of person signing the Bid Submission Form]*

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

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

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

PRICE SCHEDULE

*[The Bidder shall fill in these Price Schedule in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.]*

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|--|--------------|---|--------------------------------|--|-------------------------------------|---|-----|---|
| Goods and related Services offered within Sri Lanka (in Sri Lankan Rupees) | | | | | | | | | |
| A | | | | | | | | | |
| Item No. | Description of Goods or related services | Qty and unit | Unit price (inclusive of duties, sales and other taxes) Excluding VAT | Price per line item (Col. 3x4) | Inland transportation, insurance and other related services to deliver the goods to their final destination if not included under column 4 | Total Price Excluding VAT (Col 5+6) | Discounted Total price (if any) excluding VAT | VAT | Total Price Including VAT (Col. 7 or 8+9) |
| 1 | Tri-gas Incubator with regulators | 1 Units | | | | | | | |
| 2 | BSL-II Cabinets | 1 Unit | | | | | | | |
| 3 | Automated Cell Counter | 1 Unit | | | | | | | |
| 4 | Cell Imaging System | 1 Unit | | | | | | | |
| 5 | Vacuum Aspiration System | 1 Unit | | | | | | | |
| 6 | Centrifuge | 2 Unit | | | | | | | |
| 7 | Combined Refrigerator | 6 Unit | | | | | | | |
| 8 | Water Bath | 3 Units | | | | | | | |
| 9 | Liquid Nitrogen Dewars 30 L | 3 Units | | | | | | | |

| | | | | | | | | | |
|----|--|---------|--|--|--|--|--|--|--|
| 10 | Liquid Nitrogen Containers 1 L for cell vial transport | 3 Units | | | | | | | |
| 11 | Liquid Nitrogen Refill Tank with Transfer Pump | 2 Units | | | | | | | |
| 12 | -80°C Freezer | 1 Unit | | | | | | | |
| 13 | Magnetic Cell Separator | 1 Unit | | | | | | | |
| 14 | Auto Clave 50 L | 1 Unit | | | | | | | |
| 15 | Electroporator System | 1 Unit | | | | | | | |
| 16 | Ductless Fume Hood | 2 Unit | | | | | | | |
| 17 | Inverted Microscope | 1 Unit | | | | | | | |
| 18 | Refrigerated microcentrifuge | 1 Unit | | | | | | | |
| 19 | Non refrigerated microcentrifuge | 1 Unit | | | | | | | |
| 20 | Vortex mixers | 3 Units | | | | | | | |
| 21 | Micropipette (0.5- 10 µl) | 1 Unit | | | | | | | |
| 22 | Micropipette (0.5- 10 µl) | 6 Units | | | | | | | |
| 23 | Micropipette (2- 20 µl) | 6 Units | | | | | | | |

| | | | | | | | | | |
|----|---|---------|--|--|--|--|--|--|--|
| 24 | Micropipette (20-200 µl) | 6 Units | | | | | | | |
| 25 | Micropipette (100-1000 µl) | 6 Units | | | | | | | |
| 26 | Multichannel pipets (8 Channel) (0.5- 10 µl) | 1 Unit | | | | | | | |
| 27 | Multichannel pipets (8 Channel) (2- 20 µl) | 1 Unit | | | | | | | |
| 28 | Multichannel pipets (8 Channel) (20-200 µl) | 1 Unit | | | | | | | |
| 29 | Multichannel pipets (8 Channel) (100-1000 µl) | 1 Unit | | | | | | | |
| 30 | Dry bath | 1 Unit | | | | | | | |
| 31 | pH meter | 1 Unit | | | | | | | |
| 32 | -20 C freezer | 3 Units | | | | | | | |
| 33 | Bunsen burner | 1 Unit | | | | | | | |
| 34 | Minifuge | 3 Units | | | | | | | |
| 35 | Conventional PCR machine (Diagnostic Grade) | 1 Unit | | | | | | | |
| 36 | Real time PCR system (Diagnostic Grade) | 1 Unit | | | | | | | |
| 37 | Gel documentation system with a computer | 1 Unit | | | | | | | |

| | | | | | | | | | |
|----|---|---------|--|--|--|--|--|--|--|
| 38 | Microwave oven | 1 Unit | | | | | | | |
| 39 | Individually ventilated caging systems (60 Cages) | 1 Unit | | | | | | | |
| 40 | Individually ventilated caging systems (40 Cages) | 1 Unit | | | | | | | |
| 41 | BSL-II Cabinets | 2 Units | | | | | | | |
| 42 | Handheld animal tissue Homogenizer | 1 Unit | | | | | | | |
| 43 | Refrigerated bench top mini centrifuge) | 1 Unit | | | | | | | |
| 44 | Autoclave- 70L | 1 Units | | | | | | | |
| 45 | Precision (top-loading) balance | 2 Unit | | | | | | | |
| 46 | Combined Refrigerator and Freezer | 1 Unit | | | | | | | |
| 47 | Forced Air-Drying Oven | 1 Unit | | | | | | | |
| 48 | CO2 Cylinder with CO2 | 1 Unit | | | | | | | |
| 49 | CO ₂ euthanasia chamber | 1 Unit | | | | | | | |
| 50 | Digital Camera | 1 Unit | | | | | | | |
| 51 | Biosafety Cabinet - 4 ft | 1 Unit | | | | | | | |

| | | | | | | | | | |
|----|--|----------|--|--|--|--|--|--|--|
| 52 | Refrigerated centrifuge (50 ml x 6) | 1 Unit | | | | | | | |
| 53 | Non refrigerated microcentrifuge (1.5/2.0 ml x 24) | 1 Unit | | | | | | | |
| 54 | Shaking Incubator | 1 Unit | | | | | | | |
| 55 | Incubator | 1 Unit | | | | | | | |
| 56 | Hot Plate and Magnetic Stirrer | 3 Units | | | | | | | |
| 57 | Water Bath | 2 Units | | | | | | | |
| 58 | pH Meter | 2 Units | | | | | | | |
| 59 | Vortex Mixer | 4 Units | | | | | | | |
| 60 | Sonicator | 1 Unit | | | | | | | |
| 61 | Freezer -20°C- | 2 Unit | | | | | | | |
| 62 | Class I Biosafety cabinet - BSL 1 | 01 Unit | | | | | | | |
| 63 | Class II Biosafety Cabinet - BSL II | 01 Unit | | | | | | | |
| 64 | Vertical Autoclave | 02 Units | | | | | | | |
| 65 | Orbital shaker | 01 Unit | | | | | | | |

| | | | | | | | | | |
|----|--|----------|--|--|--|--|--|--|--|
| 66 | Thermal Cycler Research grade | 01 Unit | | | | | | | |
| 67 | Real Time PCR machine | 01 Unit | | | | | | | |
| 68 | Heating block | 02 Units | | | | | | | |
| 69 | Horizontal Gel Electrophoresis and Power Supply Unit | 01 Unit | | | | | | | |
| 70 | Horizontal Gel Electrophoresis and Power Supply Unit | 01 Unit | | | | | | | |
| 71 | PCR Cabinet | 01 Units | | | | | | | |
| 72 | Micropipettes 0.1 - 2.0 µL | 03 Units | | | | | | | |
| 73 | Micropipettes 0.5 - 10 µL | 04 Units | | | | | | | |
| 74 | Micropipettes 2.0 - 20 µL | 06 Units | | | | | | | |
| 75 | Micropipettes 10 - 100 µL | 03 Units | | | | | | | |
| 76 | Micropipettes 20 - 200 µL | 05 Units | | | | | | | |
| 77 | Micropipettes 100 - 1000 µL | 06 Units | | | | | | | |
| 78 | Micropipettes 1000 - 10000 µL | 01 Unit | | | | | | | |
| 79 | High-precision digital thermometer | 1 Unit | | | | | | | |

| | | | | | | | | | |
|----|--|--------|--|--|--|--|--|--|--|
| 80 | Rotatory evaporator | 1 Unit | | | | | | | |
| 81 | A reflux apparatus | 1 Unit | | | | | | | |
| 82 | Vacuum Filtration Apparatus | 1 Unit | | | | | | | |
| 83 | High-Speed Homogenizer | 1 Unit | | | | | | | |
| 84 | UV Sterilizer (Mini) | 1 Unit | | | | | | | |
| 85 | Micropipettes 0.5 - 10 μ l (8 Channel) | 1 Unit | | | | | | | |
| 86 | Micropipettes 2.0 - 20 μ l (8 Channel) | 2 Unit | | | | | | | |
| 87 | Micropipettes 20 - 200 μ l (8 Channel) | 1 Unit | | | | | | | |
| | | | | | | | | | |

¹ Write the discounted price if any

Bid Security (Guarantee)

[this Bank Guarantee form shall be filled in accordance with the instructions indicated in brackets]

----- *[insert issuing agency's name, and address of issuing branch or office]* -----

**Beneficiary: Chief Operating Officer, Sri Lanka Institute of Biotechnology Pvt Ltd,
Phase 1 Building, Mahenwatta, Thalagala Rd, Pitipana, Homagama**

Date:----- *[insert (by issuing agency) date]*

BID GUARANTEE No.: ----- *[insert (by issuing agency) number]*

We have been informed that ----- *[insert (by issuing agency) name of the Bidder; if a joint venture, list complete legal names of partners]* (hereinafter called "the Bidder") has submitted to you its bid dated----- *[insert (by issuing agency) date]* (hereinafter called "The Bid") for the supply of *[insert name of Supplier]* under Invitation for Bids No. -----
--- *[insert IFB number]* ("the IFB").

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we ----- *[insert name of issuing agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----
----- *[insert amount in figures]* ----- *[insert amount in words]*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); of the IFB; or
- (c) having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This Guarantee shall expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or (b) if the Bidder is not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder that the Bidder was unsuccessful, otherwise it will remain in force up to *(insert date)*

Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date.

[signature(s) of authorized representative(s)]

Bid-Securing Declaration

Date: ----- *[insert date by bidder]*

Name of contract **SLIBTEC/PROC/211/NCB/G&S/ Procurement of Laboratory Equipment**

Contract Identification No **SLIBTEC/PROC/211/NCB/G&S/Procurement of Laboratory Equipment**

Invitation for Bid No: **211**

To: **Chief Operating Officer, Sri Lanka Institute of Biotechnology (Pvt) Ltd**

We, the undersigned, declare that:

1. We understand that, according to instructions to bidders (hereinafter “the ITB”), bids must be supported by a bid-securing declaration;
2. We accept that we shall be suspended from being eligible for contract award in any contract where bids have been invited by any of the Procuring Entity as defined in the Procurement Guidelines published by National Procurement Agency of Sri Lanka, for the period of time of *three years* starting on *the latest date set for closing of bids of this bid*, if we:
 - (a) withdraw our Bid during the period of bid validity period specified; or
 - (b) do not accept the correction of errors in accordance with the Instructions to Bidders of the Bidding Documents; or
 - (c) having been notified of the acceptance of our Bid by you, during the period of bid validity, (i) fail or refuse to execute the Contract Form, if required, or (ii) fail or refuse to furnish the performance security, in accordance with the ITB.
3. We understand this bid securing shall expire if we are not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder that the bidder was unsuccessful; or (ii) twenty-eight days after the expiration of our bid.
4. We understand that if we are a JV, the Bid Securing Declaration must be in the name of the JV that submits the bid. If the JV has not been legally constituted at the time of bidding, the Bid Securing Declaration shall be in the names of all future partners as named in the letter of intent.

Signed *[insert signature(s) of authorized representative]* In the Capacity of *[insert title]*

Name *[insert printed or typed name]*

Duly authorized to sign the bid for and on behalf of *[insert authorizing entity]*

Dated on *[insert day]* day of *[insert month]*, *[insert year]*

Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the BDS.]

Date: *[insert date (as day, month and year) of Bid Submission]*
No.: *[insert number of bidding process]*

To: *[insert complete name of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 27 of the Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

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

Section V. Schedule of Requirements

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1. List of Goods/ Service and Delivery Schedule

[The Purchaser shall fill in this table, with the exception of the column “Bidder’s offered Delivery date” to be filled by the Bidder]

| Item No | Description of Goods/ Service | Quantity | Final (Project Site) Destination as specified in BDS | Delivery date [to be provided by the purchaser] | Bidder’s offered Delivery date [to be provided by the bidder] |
|----------------|--------------------------------------|-----------------|--|--|--|
| 1 | Tri-gas Incubator with regulators | 1 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 2 | BSL-II Cabinets | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 3 | Automated Cell Counter | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 4 | Cell Imaging System | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 5 | Vacuum Aspiration System | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 6 | Centrifuge | 2 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 7 | Combined Refrigerator | 6 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |

| | | | | | |
|----|--|---------|--|------------------------------------|--|
| 8 | Water Bath | 3 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 9 | Liquid Nitrogen Dewars 30 L | 3 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 10 | Liquid Nitrogen Containers 1 L for cell vial transport | 3 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 11 | Liquid Nitrogen Refill Tank with Transfer Pump | 2 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 12 | -80°C Freezer | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 13 | Magnetic Cell Separator | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 14 | Auto Clave 50 L | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 15 | Electroporator System | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 16 | Ductless Fume Hood | 2 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 17 | Inverted Microscope | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |

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|----|---|---------|--|------------------------------------|--|
| 18 | Refrigerated microcentrifuge | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 19 | Non refrigerated microcentrifuge | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 20 | Vortex mixers | 3 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 21 | Micropipette (0.5- 10 μ l) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 22 | Micropipette (0.5- 10 μ l) | 6 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 23 | Micropipette (2- 20 μ l) | 6 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 24 | Micropipette (20- 200 μ l) | 6 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 25 | Micropipette (100- 1000 μ l) | 6 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 26 | Multichannel pipets (8 Channel) (0.5- 10 μ l) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 27 | Multichannel pipets (8 Channel) (2- 20 μ l) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |

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|----|--|---------|--|---------------------------------------|--|
| 28 | Multichanel pipets (8 Channel) (20- 200 µl) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana,Homagama | Within 07 weeks after the awarding | |
| 29 | Multichanel pipets (8 Channel) (100- 1000 µl) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana,Homagama | Within 07 weeks after the awarding | |
| 30 | Dry bath | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana,Homagama | Within 07 weeks after the awarding | |
| 31 | pH meter | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana,Homagama | Within 07 weeks after the awarding | |
| 32 | -20 C freezer | 3 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana,Homagama | Within 07 weeks after the awarding | |
| 33 | Bunsen burner | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana,Homagama | Within 07 weeks after the awarding | |
| 34 | Minifuge | 3 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana,Homagama | Within 07 weeks after the awarding | |
| 35 | Conventional PCR machine (Diagnostic Grade) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana,Homagama | Within 07 weeks after the awarding | |
| 36 | Real time PCR system (Diagnostic Grade) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana,Homagama | Within 07 weeks after the awarding | |
| 37 | Gel documentation system with a computer | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana,Homagama | Within 07 weeks after the awarding | |

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|----|---|---------|--|------------------------------------|--|
| 38 | Microwave oven | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 39 | Individually ventilated caging systems (60 Cages) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 40 | Individually ventilated caging systems (40 Cages) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 41 | BSL-II Cabinets | 2 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 42 | Handheld animal tissue Homogenizer | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 43 | Refrigerated bench top mini centrifuge) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 44 | Autoclave- 70L | 1 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 45 | Precision (top-loading) balance | 2 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 46 | Combined Refrigerator and Freezer | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 47 | Forced Air-Drying Oven | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |

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|----|--|---------|--|------------------------------------|--|
| 48 | CO2 Cylinder with CO2 | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 49 | CO ₂ euthanasia chamber | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 50 | Digital Camera | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 51 | Biosafety Cabinet - 4 ft | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 52 | Refrigerated centrifuge (50 ml x 6) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 53 | Non refrigerated microcentrifuge (1.5/2.0 ml x 24) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 54 | Shaking Incubator | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 55 | Incubator | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 56 | Hot Plate and Magnetic Stirrer | 3 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 57 | Water Bath | 2 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |

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|----|-------------------------------------|----------|--|------------------------------------|--|
| 58 | pH Meter | 2 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 59 | Vortex Mixer | 4 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 60 | Sonicator | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 61 | Freezer -20°C- | 2 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 62 | Class I Biosafety cabinet – BSL 1 | 01 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 63 | Class II Biosafety Cabinet – BSL II | 01 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 64 | Vertical Autoclave | 02 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 65 | Orbital shaker | 01 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 66 | Thermal Cycler Research grade | 01 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 67 | Real Time PCR machine | 01 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |

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|----|--|----------|--|------------------------------------|--|
| 68 | Heating block | 02 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 69 | Horizontal Gel Electrophoresis and Power Supply Unit | 01 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 70 | Horizontal Gel Electrophoresis and Power Supply Unit | 01 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 71 | PCR Cabinet | 01 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 72 | Micropipettes 0.1 - 2.0 μ L | 02 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 73 | Micropipettes 0.5 - 10 μ L | 03 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 74 | Micropipettes 2.0 - 20 μ L | 04 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 75 | Micropipettes 10 - 100 μ L | 03 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 76 | Micropipettes 20 - 200 μ L | 04 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 77 | Micropipettes 100 - 1000 μ L | 05 Units | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |

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|----|--|---------|--|------------------------------------|--|
| 78 | Micropipettes 1000 -10000 μ L | 01 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 79 | High-precision digital thermometer | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 80 | Rotatory evaporator | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 81 | A reflux apparatus | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 82 | Vacuum Filtration Apparatus | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 83 | High-Speed Homogenizer | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 84 | UV Sterilizer (Mini) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 85 | Micropipettes 0.5 - 10 μ l (8 Channel) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 86 | Micropipettes 2.0 - 20 μ l (8 Channel) | 2 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |
| 87 | Micropipettes 20 - 200 μ l (8 Channel) | 1 Unit | Sri Lanka Institute of Biotechnology (SLIBTEC), Phase I Building, Mahenwatta, Thalagala road, Pitipana, Homagama | Within 07 weeks after the awarding | |

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| | Note: Technical specification related to above items are referred to the section 03: Technical Specifications | | | | |
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Refer ITB 17.3 and list accordingly

2. Technical Specifications

[The Technical specifications may be provided in the following format. The bidder shall fill the columns 5 and 6. Bidder's failure to provide the information requested in the columns 5 and 6 may be a reason for the rejection of the bid. If any discrepancy is observed between the information provided by the bidder in the columns 5 and 6 and the other technical information attached to the bid, the information provided herein shall take precedence.]

Column 5 Mark the sub-components that the Purchaser will consider as critical during the evaluation as "C"

All the following requirements are supplier should provide for each instrument separately.

- Should be able to provide initial and annual calibration service from a third-party accredited laboratory at delivery time (should be able to provide calibration service on request, free of charge within the warranty period).
- Demonstration at the time of installation and commissioning, and on-site training for the staff of the laboratory.
- The local agent should submit the manufacturer's authorization letter along with a letter confirming the availability of spare parts for 10 years for each instrument.
- If the purchaser requests any repair or maintenance, the supplier should attend to that within 24 hours (should provide an undertaking letter).
- Bidder should have good after-sales facility with trained technicians and parts available to carry out any service/ repair immediately (should provide an undertaking letter).
- For all the below-mentioned equipment, training, demonstration, after-sales services, and a list of users in Sri Lanka are required. The trainer should have previous experience with the related equipment. All recommended solutions by the manufacturer that need to be maintained and run the equipment better should be readily available to supply on demand by the contractor (should provide an undertaking letter).
- Supplier should undertake to provide backup equipment to ensure seamless continuation of lab work at the event of equipment breakdown within the warranty period (should provide an undertaking letter).

| Item No | Specification | Requirement | Priority | Bidders' Response (Yes / No) | Remarks |
|---------|-----------------------------|---|---------------------|------------------------------|---------|
| 01 | Equipment | Tri-Gas Incubator | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Direct Heat Chamber | Approximately 160L electropolished copper chamber with compact footprint, easily stackable Adjustable, perforated shelving Reversible exterior door (changing left to right or vice versa) for added flexibility | C C | | |
| | Chamber material | Copper | C | | |
| | Active Airflow | In-chamber fans gently distribute clean, humidified air throughout the chamber ensuring homogeneous conditions Fast recovery of all parameters ten minutes or less for stable culturing conditions Auto-stop function disables fan operation during door openings to minimize air exchange | C C C | | |
| | Filtration | In-chamber ULPA or equivalent to achieve ISO 5 clean room air quality in the culture chamber within five minutes or less and continuously filters the entire chamber air volume every 60 seconds or less Continuous protection by minimizing the ability for contaminants to settle on interior surfaces | C C | | |

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| Protected Humidity Reservoir | <p>Directly heated water reservoir should provide stable high relative humidity levels, preventing culture desiccation</p> <p>Should have a condensation free inner chamber, prevents a breeding ground for contaminant</p> <p>Water level sensor indicates when a refill is needed</p> | C | | |
| CO2 concentration range | 1 to 20% | C | | |
| Lighting | LED | C | | |
| Temperature Range | Ambient +3° to 55°C | C | | |
| Relative Humidity | 90-95% at 37°C | C | | |
| In situ sensors and probes | <p>Should have dual temperature probes for over temperature protection with operational backup</p> <p>Choice of thermal conductivity (TC) with RH compensation or single beam, dual wavelength infrared (IR) CO₂ sensor</p> <p>O₂ control ranges 1 to 21% (hypoxic)</p> | C C C | | |
| High temperature disinfection cycle | <p>Overnight cycle simplifies cleaning and eliminates the need for separate autoclaving of parts</p> <p>180°C cycle assures uniform 6-log sterilization on all chamber surfaces</p> | C | | |
| Intuitive, interactive Touchscreen Control | Bright, door-mounted display for easy accessibility and viewing | C | | |
| Certifications/Compliance | CE, CSA or EC | C | | |
| Documentation | Manufacture product catalogues (hardcopies and softcopies) with the requested information | C | | |
| Power requirement | 220-240 VAC, ~50 Hz, should provide a suitable online UPS with the capability of 15 min backup time | C | | |

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|--|--------------------|--|---|--|--|
| | Accessories | Should be provided with Regulators, separate external gas probe (CO2 and O2) | C | | |
| | Warranty | Local Agent should provide a warranty for the instrument from the manufacturer for 3 years or more with 2 years warranty for UPS system, maintenance of the equipment should be conducted every 06 months during the warranty period | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---|---|------------------|-----------------------------|---------|
| 02 | Equipment | BSL-II Cabinet Class II Type A2 | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | It should be compatible with mammalian cell culture (Primary and immortalized). BSLII should ensure a controlled and safe environment for working with cell lines, cultures, and potentially hazardous materials. Suitable for cell therapy Should be designed to provide both operator protection and environmental safety in the context of cell culture activities. Should have other relevant standard accessories. | C C C C | | |
| | Power requirement | 220-240 VAC, ~50 Hz Should provide a suitable UPS with a minimum of 15 minutes backup plan | C C | | |
| | Energy consumption (in normal operation, fans on, lights on) | 150 W/h or lower | C | | |

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|--|---|---|-------------|--|--|
| | UV sterilization | Cross-beam UV for cut-off shadows in side walls, Programmable UV-C lamps with wavelengths ranging from 200 to 280 nm with timer and interlocking safety switch | C | | |
| | Fluorescent lamp | 2 lamps should be available to give excellent light distribution | | | |
| | Slash | 200 mm slash opening while working Motorized slash | C | | |
| | Average inflow velocity (m/s) | 0.50 or better | C | | |
| | Airflow downflow velocity (m/s) | 0.35 or better | C | | |
| | Exhaust volume of cabinet 200mm opening (m3/h) | Approx. 375 | | | |
| | Interior | 316 stainless steel with glass side walls for a brighter work area | C | | |
| | Filter | ULPA (Ultra Low Penetration Air) or H14 HEPA system for virus cell culture compliance with DIN EN 1822 Filter Efficiency 0.99995 or higher Triple filter design for work with cytotoxic materials | C C C | | |
| | Control system | At least a 7 inch digital display with easy mode operation should have audible and visual alarms Should display all safety information on one screen Selectable fast operation | | | |
| | Airflow | Stable, despite building voltage fluctuations & filter loading | | | |
| | Cabinet | Stainless steel side walls, negative pressure system | | | |
| | Size | 4ft, (Internal working space approx. 1200x450x750), (External working space: 1300x800x1500 or less) | C | | |

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|--|----------------------|--|---|--|--|
| | | | C | | |
| | Support Stand | Fixed height stand with castor wheels should provide work height of around 850mm | | | |
| | Documentation | Manufacture product catalogues (hard copies and soft copies) with the requested information | C | | |
| | Standards | Should have to have applicable international standard certificates EN 12469, NSF/ANSI 49 | C | | |
| | Warranty | Local Agent should provide a warranty for the instrument from the manufacturer for 3 years or more with 2 years warranty for UPS system, maintenance of the equipment should be conducted every 06 months during the warranty period | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------------------|--|----------|-----------------------------|---------|
| 03 | Equipment | Automated Cell Counter | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Camera | 5 MP or higher | C | | |
| | For Use With (Application) | Cell Counting and Viability Measurement | C | | |
| | Process Time | <30 seconds | C | | |
| | Sample concentration range | 1×10^4 - 1×10^7 cells/mL or higher | C | | |
| | Cell diameter range | ~4-60 μ m or better | C | | |
| | Counting area | 2.26 mm x 1.69 mm (3.82 mm ²) or higher | C | | |
| | Cell Types | Adherent cells, non-adherent cells, spheroid, and organoid | C | | |

| | | | | | |
|--|-------------------------------------|--|---|--|--|
| | USB drive | 32 GB (FAT32-, exFAT-, or NTFS-compatible) | C | | |
| | Required sample volume | 10 µL | | | |
| | Detection Method | Brightfield | | | |
| | Light Source | Brightfield | | | |
| | Magnification | 2.5X or higher | C | | |
| | Optics | Channel (Brightfield) | | | |
| | Display | LCD (1280 x 800 pixels) | | | |
| | Memory | Onboard, USB drive | | | |
| | Dimensions | Smaller in size | | | |
| | Certifications/Compliance | GLP compliance | | | |
| | Warranty | Local Agent should provide a warranty for the entire system from the manufacturer for 3 years, and maintenance of the equipment should be conducted every 06 months during the warranty period | C | | |
| | Calibration | In addition to the above-mentioned calibration requirements, the calibration should be performed with suitable beads or standard samples | C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Disposable counting chambers | 200 | | | |
| | Accessories | Reusable slide holder and hemocytometer | C | | |
| | Compatibility | Should be compatible with Trypan blue viability assay | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---|--|------------------|-----------------------------|---------|
| 04 | Equipment | Cell Imaging System | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Description | Infinity-corrected optical system; RMS threaded objectives with 45 mm parfocal distance | | | |
| | Imaging mode | Fluorescence, brightfield, color brightfield, phase contrast | C | | |
| | Imaging methods | Single color, multicolor, time lapse, Z-stacking, movie capture | C | | |
| | Illumination | Adjustable-intensity LED light cubes with integrated hard-coated filter set and >50,000-hour life | C | | |
| | Light cube capacity | 4-position chamber, for 4 fluorescence cubes + brightfield | C | | |
| | Following light cubes should include (ex/em) | DAPI (357/447 nm) GFP (470/525 nm) RFP (531/593 nm) Cy5 (628/692 nm) | C C C C | | |
| | Objective capacity | 5-position manual turret | C | | |
| | Objectives | Set of objectives with a range of magnifications (20x, 40x, 60x) of high-quality long working distance (LWD) and (20x, 60x and 100x-oil immersion) coverslip-corrected objectives, specify the set of objectives provided. Suitable for Phase contrast, Fluorescence and Brightfield applications | C C | | |
| | Condenser | 60-mm LWD condenser; 4-position turret with a clear aperture and 3 phase annuli | C | | |
| | Focus mechanism | Automated focus with sub-micron (0.150 µm) resolution (single-step accuracy) | C | | |

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|--|------------------------------|---|---|--|--|
| | Monochrome camera | High-sensitivity 3.2 MP (2048 x 1536) CMOS sensor with 3.45 µm pixel resolution or higher | C | | |
| | Captured images | 16-bit RAW monochrome: TIFF, PNG (12-bit dynamic range) 8-bit color: TIFF, PNG, JPG | C | | |
| | Inserts | Interchangeable inserts accommodate most vessel types and sizes, including slides, multi-well plates, culture flasks, and petri dishes | C | | |
| | Compatibility | Microscope and chamber slides, Hemocytometers, 6-, 12-, 24-, 48-, 96-, and 384-well microplates, 35, 50, 60, and 100 mm petri dishes, T-25, T-75, and T-175 flasks | C | | |
| | Movies and time-lapse | AVI, WMV | C | | |
| | Power supply | Should be able to operate in 240 V Should provide a suitable online UPS with 15 min. backup time | C | | |
| | Stage | X/Y stage | | | |
| | Travel range | 120 mm x 80 mm with sub-micron resolution Drop-in inserts to receive vessel holders | C | | |
| | Stage mechanism | Mechanical | | | |
| | System Computer | Embedded PC with 4 GB RAM, 10 GB SSD storage with Display: 18.5-inch or larger Full HD (1920x1080) display for clear visibility of data and analysis results and with original licensed OS and software OR a desktop computer with Processor: Minimum Intel Core i5 11 th Gen or better RAM: Minimum 8 GB of RAM to support multitasking and efficient software operation. Display: 18.5-inch or larger Full HD (1920x1080) display for clear visibility of data and analysis results. Connectivity: At least two USB 3.0 ports, one HDMI output for connecting to external monitors or projectors, and a high-speed Ethernet port or Wi-Fi for data transfer. Ports and Expansion: At least 1 USB 3.0 or USB-C port, and an | C | | |

| | | | | | |
|--|------------------------------|---|---|--|--|
| | | HDMI output, for easy connection to external devices and data input. Software Compatibility: Software must be pre-installed or able to support the software required to operate the equipment along with original Windows. Storage: 250 SSD | | | |
| | Software | Stage View for tracking of stage locations; Pin drop and naming tool; Pin find tool; Autofocus; Confluence measurements; Transfection efficiency measurements; Z-stacking with multichannel composite overlay; Batch analysis; Annotation too | C | | |
| | Accessories | 16 GB USB 3.0 memory stick | C | | |
| | Cleaning kit | Cleaning kit, including lint-free tissues and cleaning solution sufficient for monthly cleaning, should be provided free of charge during the warranty period. Should provide an undertaking letter by confirming the availability for 10 years | C | | |
| | Output ports | Power; 4 x USB 2.0; 1 x USB 3.0; 1 DisplayPort; 1 RJ45 (Ethernet port) | C | | |
| | Networking capability | Connection through Windows/SMB network via Ethernet cable connection USB 3.0 WiFi dongle | C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Warranty | Local Agent should provide a warranty of 2 years for the entire system and UPS system, and maintenance of the equipment should be conducted every 06 months during the warranty period | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---------------|--------------------------|----------|-----------------------------|---------|
| 05 | Equipment | Vacuum Aspiration System | | | |

| | | | | | |
|--|------------------------------|--|---|--|--|
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Vacuum range | -250 mbar \pm 20 % | | | |
| | Pump flow rate | 2.3 ml/s (with stainless steel tip 40 mm) | C | | |
| | Description | Vacuum aspiration system for cell culture maintenance | C | | |
| | Dimensions (HxWxD) | 25 x 120 x 162 mm; Height with bottle and aspiration device: 345 mm | | | |
| | Weight | 500 g (without bottle) or less | | | |
| | Battery | Li-Ion (rechargeable) | C | | |
| | Autonomy with battery | 5 days when aspirating 1 h per day | | | |
| | Filter | 0.45 μ m hydrophobic filter | | | |
| | Bottle | Borosilicate with GL45 lid, 500 ml | | | |
| | Warranty | Local Agent should provide a warranty of 2 years for the entire system | C | | |
| | Calibration | Not required | | | |
| | Power requirement | 220-240 VAC, \sim 50 Hz | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------------|---|----------|-----------------------------|---------|
| 06 | Equipment | Refrigerated Centrifuge | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Application | Designed for cell culture workflows, including harvesting, pelleting, washing, and processing of cells. | C | | |

| | | | | | |
|--|------------------------------|--|-----------------|--|--|
| | Temperature Control | <p>Temperature Range: -10°C to +40°C for sensitive sample preservation.</p> <p>Cooling System: Advanced refrigeration technology to maintain stable temperatures during operation.</p> | C | | |
| | Control System | Micro Processor | C | | |
| | Drive system | Direct, brushless induction low profile motor | | | |
| | Capacity | <p>Rotor Options: A swinging-bucket rotor for multiple tube types (15 mL, 50 mL conical tubes), a fixed-angle rotor for multiple tube types (15 mL, 50 mL conical tubes), a swing bucket rotor for multi-well plates (96, 24, 12 wells)</p> <ul style="list-style-type: none"> • Maximum Capacity: Up to 4 x 400 mL or equivalent adapters for cell culture applications. • Should contains rotor, buckets, biocontainment lids, 50 mL conical adapters (maximum capacity 16x50 mL), 15 mL conical adapter, (maximum capacity 36 x 15 mL), microplate adapters (maximum capacity 10 standard, 2 deepwell). | C C C | | |
| | Speed and Performance | <p>Maximum Speed: 6300 rpm or better</p> <p>Increments of 50 rpm / 50 x g or better</p> <p>Acceleration/Deceleration: Rapid start/stop times to minimize cell stress.</p> | C | | |
| | Programmability | <p>User-friendly interface with pre-programmed protocols for cell culture workflows.</p> <p>Memory: Stores multiple user-defined protocols for repeatable workflows.</p> | | | |

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|--|------------------------------|---|----------|--|--|
| | Display and Interface | <p>Digital display showing speed, RCF, temperature, and run time.</p> <p>Push button and high contrast LCD interface</p> <p>Touchscreen control for easy operation and monitoring.</p> | | | |
| | Safety Features | <p>Imbalance Detection: Automatically stops operation in case of imbalance.</p> <p>Lid Locking Mechanism: Ensures safety during high-speed operation.</p> <p>Temperature Alarm: Alerts users if the internal temperature deviates from set parameters.</p> <p>Should have secure locking system which allows easy push-button installation and exchange of rotors.</p> <p>System should saves time when switching between applications. finger-pinch prevention, crash-proof construction</p> <p>Should have easy access to rotor chamber offers quick cleaning, a healthier working environment and longer unit life.</p> | | | |
| | Compliance | EN/UL/IEC 61010-1, EN/UL/IEC 61010-2-020 and 61010-2-101, EN/UL/IEC 61326-1, EN/UL/IEC 61326-2-6, IVD certified | C | | |
| | Noise Level | Operates below 60 dB for a quiet laboratory environment. | | | |
| | Dimensions and Weight | <p>Compact Design: Fits under laboratory benches or on countertops.</p> <p>Approximate Dimensions: ~60 x 40 x 35 cm (HxWxD).</p> | | | |
| | Power Requirements | Operates on standard lab power supplies (220–240 V, 50–60 Hz). Should provide an online UPS with a capability of 30 min backup time. | C | | |

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| | Warranty | Minimum of 2 years warranty period for the entire system, including UPS. Maintenance of equipment every 06 months for free of charge during the warranty period | C | | |
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| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-------------------------------|---|----------|-----------------------------|---------|
| 07 | Equipment | Combined Refrigerator | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Cabinet Type | Upright | C | | |
| | Grade | Medical/ Pharmaceutical | C | | |
| | Cooling System | 2 Independent cooling systems | C | | |
| | Defrost Mode | Ref: manual or auto | | | |
| | Refrigerant | Ref: R600a or R290 | C | | |
| | User Interface | Digital, should indicate the temperature of both refrigerator and freezer compartments | | | |
| | Capacity | <ul style="list-style-type: none"> • Ref: 250L or more • Fre: 200L or more | | | |
| | Noise level | 45 - 60 dB | C | | |
| | Internal Material | Epoxy or similar coated steel | | | |
| | External Material | Epoxy or similar coated steel | | | |
| | Insulation | <ul style="list-style-type: none"> • High density PU foam • Shelf/ Drawer Capacity, Ref: 5 adjustable shelves or more and Fre: 3 adjustable shelves or more | C C | | |
| | Temperature Range (°C) | | C | | |

| | | | | | |
|--|-----------------------------------|--|-----------------------|--|--|
| | | <ul style="list-style-type: none"> • Ref: 2 to 8°C • Fre: -20 to -40°C | | | |
| | Temperature Control System | Microprocessor | C | | |
| | Display | LED digital display | C | | |
| | Precision of Display | 0.1°C Or better | C | | |
| | Lighting | LED lighting with smart on/off | | | |
| | Power Supply (V/Hz) | 230V/ 50-60Hz Power(W) Less than 600W | C C | | |
| | Audio Visual Alarms | High/low temperature, Controller failure, Power failure, Sensor error, Condenser failure, Door ajar, Power failure backup 8 hours | C | | |
| | Additional requirements | At least two power in sockets available in refrigeration compartment to facilitate SDS-PAGE and Western blot running | | | |
| | Accessories | Universal caster with breaks and levelling feet Built in locks for security USB Interface Internal USB data logger Compatible Online UPS is required (Required backup Time: 15 mins) | C C C C C | | |
| | Warranty | Minimum 2 - year for the entire system including UPS and a minimum 10-year warranty for the compressor. Maintenance of the equipment should be every 06 months free of charge during the warranty period | C | | |
| | Documentation | Original technical literature in English and relevant catalogues should be provided with the offer. | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response | Remarks |
|---------|---------------|-------------|----------|------------------|---------|
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| | | | | (Yes / No) | |
|----|--------------------------------|---|-----------------------|------------|--|
| 08 | Equipment | Water Bath with lid | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Application | Biological, clinical research, medical, biochemical applications | | | |
| | Capacity and Dimensions | <p>Tank Capacity: 5 liters.</p> <p>Tank Dimensions: ~24.6 cm (L) x 35.5 cm (W) x 23.2 cm (H)</p> <p>External Dimensions: specify</p> | C C C | | |
| | Temperature Control | <p>Temperature Range: Ambient +5°C to ~100°C.</p> <p>Temperature Accuracy: ±0.1°C or better.</p> <p>Temperature Uniformity: ±0.3°C or better.</p> <p>Controller Type:</p> <ul style="list-style-type: none"> ○ Digital PID controller for precise temperature adjustments. ○ LCD or LED display for real-time temperature monitoring. | C C C C C | | |
| | Heating System | <p>Heating Element: Immersion heater or insulated heating coil for rapid and uniform heating.</p> <p>Power Rating: 500–1000 W</p> | | | |
| | Construction Material | Tank Material: Stainless steel (304/316 grade) for corrosion resistance and easy cleaning. | C | | |

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| | | Exterior Material: Powder-coated steel or ABS plastic for durability. | C | | |
| | | Lid: domed lid, made of transparent polycarbonate. | C | | |
| | Safety Features | Over-temperature Protection: Automatically shuts off the heater in case of overheating. | C | | |
| | | Low Water Level Alarm: Prevents dry heating and damage to the heating element. | C | | |
| | | Non-slip Feet: For stability during operation. | C | | |
| | Additional Features | Drainage Port: for easy water removal and cleaning | C | | |
| | | Accessories: Sample racks, lifting handles, and test tube and microcentrifuge tube holders compatible with the tank dimensions. | C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Warranty | Minimum 2 - year for the entire system. Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------------|---|----------|-----------------------------|---------|
| 09 | Equipment | Liquid Nitrogen Dewars | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Capacity | 30 liters. | C | | |
| | Material | <ul style="list-style-type: none"> Inner Tank: Stainless steel or high-strength aluminum (corrosion-resistant). | C | | |

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| | | <ul style="list-style-type: none"> • Outer Shell: Aluminum or stainless steel with a durable finish. | C | | |
| | Weight | <p>Weight (Empty): ~10-15 kg</p> <p>Weight (Full): ~35-40 kg (liquid nitrogen density: ~0.8 kg/L).</p> | | | |
| | Insulation Technology | <ul style="list-style-type: none"> • Type: Vacuum-insulated with multi-layer reflective material to prevent heat transfer. • Evaporation Loss Rate: 0.09-0.15 liters/day or less. | C C | | |
| | Neck Design and Stopper | <ul style="list-style-type: none"> • Neck Diameter: Narrow neck (50 mm) • Stopper: High-density polyethylene or similar material for thermal insulation. | C | | |
| | Performance Characteristics | <ul style="list-style-type: none"> • Static Holding Time: ~150-200 days • Working Duration: Specify | C | | |
| | Safety Features | <ul style="list-style-type: none"> • Pressure Relief Valve: Ensures safety in case of overpressure buildup. • Shock-Resistant Base: Protects against impacts and vibration. | C C | | |
| | Mobility and Handling | <ul style="list-style-type: none"> • Carrying Handles: Ergonomic handles for manual lifting. • Optional Accessories: Roller bases for ease of movement with locks. | C | | |
| | Other Features | <ul style="list-style-type: none"> • Level Indicator: To monitor the remaining liquid nitrogen volume. • Pouring Spout or Transfer Hose: For controlled dispensing of LN₂. | C C | | |

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| | Warranty | Minimum one year or better | C | | |
| | Accessories | Should include all necessary accessories for cell vial storage | | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|----------------|-----------------------------|--|-----------------|----------------------------------|----------------|
| 10 | Equipment | Liquid Nitrogen Containers for cell vial transport | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Capacity | 1 L (Liquid N ₂) | C | | |
| | Neck diameter | Around 10 cm | | | |
| | Canister dimensions | 15cm "H x 12cm "Ø | | | |
| | Weight | Around 8 lbs | | | |
| | Inner vessels | borosilicate glass evacuated to 1x10 ⁻⁵ mmHg | | | |
| | Exterior | standard stainless steel and feature a rubber cushioned bases | | | |
| | Warranty | Comprehensive warranty for entire system for minimum of 1 year. | | | |
| | Documentation | Original technical literature in English and relevant catalogues should be provided with the offer | | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
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| 11 | Equipment | Liquid Nitrogen Refill Tank with transfer Pump | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Capacity | 30 L | C | | |
| | Material | <ul style="list-style-type: none"> • Inner Tank: Stainless Steel (SS304/SS316) to ensure corrosion resistance. • Outer Tank: Insulated stainless steel or aluminum for thermal efficiency. | C C | | |
| | Thermal Insulation: | <ul style="list-style-type: none"> • Vacuum insulation with multi-layer reflective materials to minimize heat transfer. | C | | |
| | Working Pressure | <ul style="list-style-type: none"> • Standard: ~22 psi • Relief Valve: Pre-set pressure relief to ensure safety. | C C | | |
| | Filling and Handling Ports | <ul style="list-style-type: none"> • Fill Port: For refilling the tank. • Dispensing Port: Equipped for attachment to the transfer pump. | C C | | |
| | Safety Features | <ul style="list-style-type: none"> • Pressure relief valve. • Rupture disk for emergency pressure release. • Non-pressurized models available for small-scale applications. • Automatic shutoff to prevent overfilling. • Anti-splash nozzle to minimize spillage and LN₂ loss. | C C C C C | | |
| | Transfer Pump Type | Cryogenic transfer pump | C | | |
| | Flow Rate | <ul style="list-style-type: none"> • 1-5 liters per minute. | C | | |

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| | | <ul style="list-style-type: none"> Adjustable flow rates for precision dispensing. | | | |
| | Material | Cryogenically compatible materials, usually stainless steel or aluminum | | | |
| | Transfer Hose | Vacuum-jacketed or insulated flexible hose to prevent condensation and ensure operator safety. | C | | |
| | Pressure Gauge | For real-time monitoring of internal tank pressure. | C | | |
| | Level Indicator | To measure the remaining LN ₂ volume. | C | | |
| | Mobility | Casters or wheels for ease of movement | C | | |
| | Compliance | Designed to meet international cryogenic safety standards (e.g., ASME, PED). | C | | |
| | Warranty | Minimum one year | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|-----------------------------|--|----------|---------------------------|---------|
| 12 | Equipment | -80°C Freezer | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Application | <ul style="list-style-type: none"> Designed for long-term storage of biological samples, including cells, tissues, RNA/DNA, proteins, and enzymes. Suitable for research labs, biobanking, and pharmaceutical storage. | C | | |
| | Capacity and Storage | <ul style="list-style-type: none"> Storage Volume: 700 liters (~24.7 cubic feet). | | | |

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| | | <ul style="list-style-type: none"> • Storage Options: Adjustable stainless steel shelves or racks to accommodate up to 480-600 standard cryoboxes. | C | | |
| | Temperature Control | <ul style="list-style-type: none"> • Temperature Range: Adjustable from -50°C to -86°C, with a factory default of -80°C. • Temperature Uniformity: ±5°C across all shelves for consistent preservation. • Cooling Recovery: Rapid temperature recovery after door openings (<15 minutes). | C C C | | |
| | Energy Efficiency | <ul style="list-style-type: none"> • Power Consumption: Approximately 12-15 kWh/day for cost-effective operation. • Insulation: Vacuum-insulated panels (VIP) and high-density polyurethane foam minimize thermal transfer. • Eco-Friendly Refrigerants: CFC- and HCFC-free refrigerants, compliant with environmental standards. | C C C | | |
| | Safety Features | <ul style="list-style-type: none"> • Alarms and Monitoring: <ul style="list-style-type: none"> ○ High/low temperature alarms. ○ Power failure and system malfunction alarms. ○ Door ajar alarm with visual and audible notifications. • Backup Systems: Separate online UPS with the capability of minimum 1 hour backup time, and CO₂ or LN₂ backup system for emergency cooling and temperature maintenance. • Security: Lockable door with key access to prevent unauthorized use. | C C C C C C | | |

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| | Cooling System | <ul style="list-style-type: none"> • Compressor System: High-efficiency dual-stage compressor for reliable and consistent cooling. • Defrost System: Manual defrost for better energy efficiency and reduced sample risk. | C | | |
| | Physical Dimensions and Weight | <ul style="list-style-type: none"> • External Dimensions (Approx.): 110 cm (W) x 90 cm (D) x 200 cm (H). • Internal Dimensions (Approx.): 80 cm (W) x 60 cm (D) x 170 cm (H). • Weight: ~290-320 kg. | | | |
| | Noise Level | Operates at ≤60 dB to ensure a quieter laboratory environment. | C | | |
| | Connectivity and Data Management | <ul style="list-style-type: none"> • Data Logging: Integrated USB/Ethernet ports for logging temperature data. • Remote Monitoring: Compatible with cloud-based monitoring platforms for real-time alerts. • Display: LED or touchscreen digital display for temperature, alarms, and system settings. | C C | | |
| | Power Requirements | Operates on standard laboratory power: 220-240 V, 50/60 Hz. Surge protection recommended for uninterrupted operation. | C | | |
| | Documents | Original technical literature in English and relevant catalogues should be provided with the offer | C | | |
| | Warranty | Comprehensive warranty for the entire system for minimum of 3 year and compressor for 5 years. Maintenance of the equipment should be every 6 month free of charge during the warranty period | C | | |

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| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|-----------------------------|---|-----------------------|---------------------------|---------|
| 13 | Equipment | Magnetic Cell Separator | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | | <ul style="list-style-type: none"> • Magnet should be designed for cell separation procedures using Compatible reagents. • The Magnet should generate a high-gradient magnetic field in the interior cavity that is strong enough to separate cells labeled with Magnetic Particles without the use of columns. • The magnet should be designed to hold a standard 12 x 75 mm (5 mL) polystyrene tube. • Compatibility: Various magnetic beads; Portable and high recovery rates. • Should be provided with 3 kits to isolate human Memory B cells • Start sample cell number range: 0.1 - 2.5 x 10⁸ cells | C C C C C | | |
| | Document | Original technical literature in English and relevant catalogues should be provided with the offer | C | | |
| | Warranty | One year or more | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response | Remarks |
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| | | | | (Yes / No) | |
|-----------|---------------------------------|--|-------------|------------|--|
| 14 | Equipment | Auto Clave 50 L | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Capacity | <ul style="list-style-type: none"> Chamber Volume: 50 liters Dimensions: (Specify) | C C | | |
| | Sterilization Type | Steam sterilization with high pressure and temperature. | | | |
| | Material | Chamber and component should be made of stainless steel (grade 304 or 316). | | | |
| | Pressure and Temperature | <ul style="list-style-type: none"> Maximum Temperature: ~121°C to 135°C. Maximum Pressure: ~15-30 psi. | C C | | |
| | Control Panel | <ul style="list-style-type: none"> Digital display with programmable settings for temperature, pressure, and cycle time. Automatic pressure control. | C | | |
| | Power Requirements | <ul style="list-style-type: none"> 220-240V, 50Hz, single-phase (standard). | C | | |
| | Safety Features | <ul style="list-style-type: none"> Pressure safety valve. Door interlock to prevent opening under pressure. Alarms for overpressure or overheating. | C C C | | |
| | Warranty | Comprehensive warranty for the entire system for minimum of 3 years. Maintenance of the equipment should be every 6 month free of charge during the warranty period | C | | |

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|--|-----------------|--|---|--|--|
| | Document | Original technical literature in English and relevant catalogues should be provided with the offer | C | | |
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| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|--------------------------------|---|-----------------------|---------------------------|---------|
| 15 | Equipment | Electroporator System | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Application | <p>High-efficiency lab-scale transfection for research purposes.</p> <p>Cell Capacity: Transfects 10,000–10 million cells per reaction.</p> <p>Transfection Efficiency: Up to 90% across a variety of cell types, including primary and stem cells.</p> <p>Customizability: Over 400 pre-programmed protocols with the ability to save up to 10,000 additional protocols.</p> <p>Workflow: Universal buffer kit for all cell types, with a simplified three-step process.</p> | C C C C C | | |
| | Physical Specifications | <p>Compact, lightweight design for bench-top use.</p> <p>Optimized for small-scale research applications.</p> | | | |
| | Document | Original technical literature in English and relevant catalogues should be provided with the offer | C | | |
| | Warranty | 2 year or more | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|------------------------------|---|-----------------------|---------------------------|---------|
| 16 | Equipment | Ductless Fume Hood | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Application | <ul style="list-style-type: none"> Designed to protect laboratory personnel and the environment by filtering hazardous fumes, vapours, and particulates. Ideal for handling chemicals, biological samples, and other volatile substances in research and educational laboratories | C C | | |
| | Dimensions and Design | <ul style="list-style-type: none"> External Dimensions (Approx.): <ul style="list-style-type: none"> Width: 900-1500 Depth: 700-900 mm Height: 1200 - 1500 mm (workable area) Height with working stand 1800 - 1900 mm Work Area Dimensions: Provides ample working space with ergonomic access. Material: | C C C C C | | |

| | | | | | |
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| | | <ul style="list-style-type: none"> ○ Corrosion-resistant powder-coated steel frame. ○ High-strength tempered glass for front panels and sash. ○ Work surface made of chemical-resistant phenolic resin or stainless steel. | C | | |
| | Filtration System | <ul style="list-style-type: none"> • Type: Multi-stage filtration with activated carbon and HEPA filters. • Efficiency: <ul style="list-style-type: none"> ○ HEPA filter: 99.99% efficiency for particles ≥ 0.3 microns. ○ Carbon filter: Absorbs organic and inorganic chemical vapours. • Filter Replacement: Quick and easy replacement mechanism with visual filter saturation indicators. | C | | |
| | Airflow and Containment | <ul style="list-style-type: none"> • Airflow Type: Recirculating airflow system with adjustable airflow speeds. • Face Velocity: 0.3–0.5 m/s (60–100 fpm) at the sash opening for safe containment. • Airflow Alarm: Visual and audible alarms for low or high airflow to ensure safety. | C | | |
| | Sash System | <ul style="list-style-type: none"> • Type: Vertical or horizontal sash made of shatterproof tempered glass. • Operation: Counterbalanced for smooth, single-hand operation. • Opening: Adjustable sash height for user flexibility and containment optimization. | C | | |
| | Safety Features | <ul style="list-style-type: none"> • Filtration Monitoring: | C | | |

| | | | | | |
|--|---------------------------------|--|--|--|--|
| | | <ul style="list-style-type: none"> ○ Filter saturation indicators (visual and audible alerts). ○ Airflow sensors for consistent containment performance. • Alarms: <ul style="list-style-type: none"> ○ Low airflow alarm. ○ Filter replacement alarm. ○ Sash height alarm for incorrect usage. • Lighting: LED lighting for optimal visibility, with low power consumption. | <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> | | |
| | Connectivity and Control | <ul style="list-style-type: none"> • Control System: Touchscreen or digital control panel for airflow adjustment, filter monitoring, and system settings. | C | | |
| | Power Requirements | <ul style="list-style-type: none"> • Voltage: 220–240 V, 50/60 Hz. • Power Consumption: ~250–500 W, depending on size and fan speed. • Suitable online UPS with the capability of 15 min backup time | <p>C</p> <p>C</p> | | |
| | Noise Level | Operates at ≤55 dB for a quiet laboratory environment. | C | | |
| | Additional Features | <ul style="list-style-type: none"> • Portability: Caster wheels with locks for easy relocation within the laboratory. • Accessories: <ul style="list-style-type: none"> ○ Pass-through ports for cables and tubing. ○ Storage compartments for small lab tools. | <p>C</p> <p>C</p> <p>C</p> | | |
| | Standards | Certified to meet international safety standards (e.g., EN 14175, ANSI/AIHA Z9.5, SEFA 9) | C | | |

| | | | | | |
|--|------------------------|---|--|--|--|
| | UPS Requirement | Compatible UPS providing a minimum 15-minute backup | | | |
| | Warranty | Minimum 3 years for the fume hood and minimum 2 years for UPS. Maintenance of the equipment should be every 12 months free of charge during the warranty period | | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes/No) | Remarks |
|-----------|------------------------|--|----------|----------------------------|---------|
| 17 | Equipment | Inverted Microscope with Phase Contrast turret | | | |
| | Make | Please specify | | | |
| | Model & Model Year | Please specify | | | |
| | Country of Origin | Please specify | | | |
| | Optical System | Infinity Optical System with High Numerical Aperture Objectives | C | | |
| | Observation Methods | Brightfield, Apodized Phase Contrast, Phase Contrast, Emboss Contrast | C | | |
| | Diascopic Illumination | High-luminance white LED (Eco-illumination) with built-in Fly-eye lens | | | |
| | Episcopic Illumination | LED illuminator with built-in Fly-eye lens | | | |
| | Camera | 5MP or better | C | | |
| | Camera Port | Trinocular with C-mount adapter | C | | |
| | Inclination | 45 degrees | | | |
| | Pupillary Distance | Adjustable: 50-75 mm | | | |
| | Viewing Head | Siedentopf type | | | |
| | Camera Port | Attachable | C | | |
| | Eyepiece/Port Ratio | 100/0 : 0/100 | | | |

| | | | | | |
|--|----------------------------------|--|---|--|--|
| | Eyepieces Provided | 10X (FN 22), anti-fungus, high-eyepoint | C | | |
| | Focusing Mechanism | Nosepiece up/down movement | C | | |
| | Focusing Stroke (Manual) | Up 7 mm, Down 1.5 mm | | | |
| | Condenser | ELWD Condenser (NA 0.3, W.D. 75 mm) | | | |
| | Contrast Sliders | Emboss Contrast Sliders (condenser and eyepiece-tube-side) | | | |
| | Objectives | 10X, 20X, 40X with Emboss Contrast capability - long distance | C | | |
| | Stage | Mechanical stage compatible with all types of micro-test plate, well clammer and stage clip Holder ,C-S-HP35 Petridish Holder 35 mm,C-S-HLP100 Petridish Holder 100 mm,C-S-HT Terasaki Holder for Terasaki plate and ϕ 65 dish,C-S-HS Slide Glass Holder for glass slides, ϕ 54 dish and hemocytometer,C-S-HU Universal Holder for Terasaki plate, glass slide, ϕ 35-65 dish and hemocytometer, C-S-HG Glass Ring Holder, C-S HLS Ring Holder | C | | |
| | Computer | Desktop computer with 18-inch LED monitor, i5 11th gen, 8 GB RAM, 256 GB SSD hard drive, original software and drivers including windows 11, Office and compatible image analysis software and all other necessary software for handling equipment and reporting | C | | |
| | Rated Voltage / Electric Current | 240VAC \pm 10%, 50/60 Hz, 0.35 A | C | | |
| | UPS Requirement | Compatible UPS providing a minimum 15-minute backup | C | | |
| | Warranty | Minimum 2 years for the entire system including computer and UPS, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/ No) | Remarks |
|---------|------------------------------------|--|----------|----------------------------|---------|
| 18 | Refrigerated Microfuge | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use or IVD certificates. | C | | |
| | Temperature control | -10 to + 25 | C | | |
| | refrigerant | CFC free refrigerant | C | | |
| | Maximum speed | RCF 25,000 × g or better | C | | |
| | Speed control range : | 200 to 15000 rpm | C | | |
| | Speed control accuracy | ± 100 rpm or better | C | | |
| | Run Time | It should have a timer of minimum 99 min | C | | |
| | Acceleration/ deceleration profile | More than 2 stage braked deceleration pulse free acceleration and deceleration, Soft break function | C | | |
| | Body | The centrifuge should be manufactured with quality materials providing broad chemical resistance with exceptional strength for durability and reliability | C | | |
| | Rotor | It should be supplied with Fixed angle rotor compatible with X24 (13x75 mm tubes, blood/ serum tubes) and X24 (2 ml microcentrifuge tube | C | | |
| | centrifugation chamber | Stainless Steel centrifugation chamber that can be cleaned easily and quickly will be available | C | | |
| | Power: | 200-240 V, AC, 50 Hz, 30 A, single phase | C | | |

| | | | | | |
|--|------------------------------|--|---|--|--|
| | Controlling keys (for speed) | Instrument should be easily toggled between RCF and RPM | C | | |
| | Standard certification | ISO 13485 certification | C | | |
| | UPS requirement | Separate online UPS with the capability of 15 min backup time | | | |
| | Warranty | Minimum 2 years for entire system including UPS system. Maintenance of the equipment should be every 06 months free of charge during the warranty period | C | | |
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/ No) | Remarks |
|---------|----------------------|---|----------|----------------------------|---------|
| 19 | Microfuge | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use / IVD certificates | C | | |
| | Maximum speed | RCF 25,000 × g or better | C | | |
| | Speed control range | 200 to 15000 rpm | C | | |

| | | | | | |
|--|------------------------------------|--|---|--|--|
| | Speed control accuracy | ± 100 rpm or better | C | | |
| | Run Time | It should have a timer of minimum 99 min | C | | |
| | Acceleration/ deceleration profile | More than 2 stage braked deceleration pulse free acceleration and deceleration, Soft break function | C | | |
| | Body | The centrifuge should be manufactured with quality materials providing broad chemical resistance with exceptional strength for durability and reliability | C | | |
| | Rotor | It should be supplied with Fixed angle rotor compatible with X24 (13x75 mm tubes, blood/ serum tubes) and X 24 (2 ml microcentrifuge tube) | C | | |
| | centrifugation chamber | Stainless Steel centrifugation chamber that can be cleaned easily and quickly will be available | C | | |
| | Power: | 200-240 V, AC, 50 Hz, 30 A, single phase | C | | |
| | Controlling keys (for speed) | Instrument should be easily toggle between RCF and RPM | C | | |
| | Standard certification | ISO 13485 certification | C | | |
| | Warranty | Minimum 2 years for entire system. Maintenance of the equipment should be every 06 months free of charge during the warranty period | C | | |
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response | Remarks |
|---------|---------------|-------------|----------|------------------|---------|
|---------|---------------|-------------|----------|------------------|---------|

| | | | | (Yes/No) | |
|----|-----------------------|--|--|----------|--|
| 20 | Vortex Mixture | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Speed | 1000 rpm in continuous mode 2800 rpm in touch mode | C | | |
| | Orbit | Around 4 mm | C | | |
| | Action type | Touch and continuous | C | | |
| | Accessories Included | -1 rubber cup - Plate adapter with rubber disc Plain adapter foam <ul style="list-style-type: none"> • Foam with 96X0.2 well • Foam with 60X0.5 well • Foam with 12mm well Foam with different well | C C C C C C | | |
| | Max. Load | 500g or better | C | | |

| | | | | | |
|--|------------------------|--|---|--|--|
| | Power: | 200-240 V, AC, 50 Hz, 30 A, single phase | C | | |
| | Standard certification | ISO 13485 certification | C | | |
| | Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and author- ized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/ No) | Remarks |
|---------|--------------------------------------|---|------------|----------------------------|---------|
| 21 | Single Channel (0.1 – 2.5 µl) | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Volume | 0.1 – 2.5 µl Accuracy : 0.04 µl maximum at the working range 3 Digit Volume setting | C C | | |
| | No of Channels | Single Channel | C | | |
| | Tips | Compatible for universal tip sizes | C | | |
| | Body | UV resistant | C | | |
| | | Fully autoclavable at 121 ⁰ C for 20 minutes at least 150 cycles. Both full pipette or lower part (Should be mentioned in the manufacturer literature) | C | | |

| | | | | | |
|--|------------------------|--|---|--|--|
| | | There should be secondary adjustment to User to adjust the pipetting volume temporary up to at least 2% to offsets inaccuracies when working with different liquids like warm, cold, viscous or different altitude conditions. | C | | |
| | | Spring loaded tip cone should be available (Should be mentioned in the manufacturer literature) | C | | |
| | | Low tip attachment forces should be enough. Specify the force required | C | | |
| | | Spring materials should be titanium for chemical resistant, corrosion proof and abrasive free | C | | |
| | | Ejector must be without metal parts to prevent corrosion and damaging to the glasses | C | | |
| | | Easy hand lock lever | C | | |
| | Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | Standard certification | ISO 8655 certification or EU IVD 2017/746 certification | C | | |
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|------------------------------------|------------------|----------|---------------------------|---------|
| 22 | Single Channel (0.5 – 10µl) | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |

| | | | | | |
|--|----------------------|--|---|--|--|
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Volume | 0.5 – 10µl | C | | |
| | | Accuracy: 0.02 µl maximum at 0.5 µl | C | | |
| | | Accuracy: 0.1 µl maximum at 10 µl | C | | |
| | | 3 Digit Volume setting | C | | |
| | No of Channels | Single Channel | C | | |
| | Tips | Compatible for universal tip sizes | C | | |
| | Body | UV resistant | C | | |
| | | Fully autoclavable at 121°C for 20 minutes at least 150 cycles. Both full pipette or lower part (Should be mentioned in the manufacturer literature) | C | | |
| | | There should be secondary adjustment to User to adjust the pipetting volume temporary up to at least 2% to offsets inaccuracies when working with different liquids like warm, cold, viscous or different altitude conditions. | C | | |
| | | Spring loaded tip cone should be available (Should be mentioned in the manufacturer literature) | C | | |
| | | Low tip attachment forces should be enough. Specify the force required | C | | |
| | | Spring materials should be titanium for chemical resistant, corrosion proof and abrasive free | C | | |
| | | Ejector must be without metal parts to prevent corrosion and damaging to the glasses | C | | |
| | Easy hand lock lever | C | | | |
| | Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |

| | | | | | |
|--|------------------------|---|---|--|--|
| | Standard certification | ISO 8655 certification or EU IVD 2017/746 certification | C | | |
| | Documentation | User manual and other relevant documentation should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/ No) | Remarks |
|---------|----------------------------------|--|------------------|----------------------------|---------|
| 23 | Single Channel (2 – 20µl) | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Volume | 2 – 20µl Accuracy: 0.12 µl maximum at 2 µl Accuracy: 0.30 µl maximum at 20 µl Minimum of 3 Digit Volume setting | C C C C | | |
| | No of Channels | Single Channel | C | | |
| | Tips | Compatible for universal tip sizes | C | | |
| | Body | UV resistant | C | | |
| | | Fully autoclable at 121°C for 20 minutes at least 150 cycles. Both full pipette or lower part (Should be mentioned in the manufacturer literature) | C | | |
| | | There should be secondary adjustment to User to adjust the pipetting volume temporary up to at least 2% to offsets | C | | |

| | | | | | |
|--|------------------------|--|---|--|--|
| | | inaccuracies when working with different liquids like warm, cold, viscous or different altitude conditions. | | | |
| | | Spring loaded tip cone should be available (Should be mentioned in the manufacturer literature) | C | | |
| | | Low tip attachment forces should be enough. Specify the force required | C | | |
| | | Spring materials should be titanium for chemical resistant, corrosion proof and abrasive free | C | | |
| | | Ejector must be without metal parts to prevent corrosion and damaging to the glasses | C | | |
| | | Easy hand lock lever | C | | |
| | Standard certification | ISO 8655 certification or EU IVD 2017/746 certification | C | | |
| | Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/ No) | Remarks |
|---------|------------------------------------|------------------|----------|----------------------------|---------|
| 24 | Single Channel (20 – 200µl) | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |

| | | | | | |
|--|------------------------|--|-------------|--|--|
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Volume | 20 – 200µl Accuracy: 1 µl maximum at 20 µl Accuracy: 1.5 µl maximum at 200 µl Minimum of 3 Digit Volume setting | C C C | | |
| | No of Channels | Single Channel | C | | |
| | Tips | Compatible for universal tip sizes | C | | |
| | Body | UV resistant | C | | |
| | | Fully autoclable at 121°C for 20 minutes at least 150 cycles. Both full pipette or lower part (Should be mentioned in the manufacturer literature) | C | | |
| | | There should be secondary adjustment to User to adjust the pipetting volume temporary up to at least 2% to offsets inaccuracies when working with different liquids like warm, cold, viscous or different altitude conditions. | C | | |
| | | Spring loaded tip cone should be available (Should be mentioned in the manufacturer literature) | C | | |
| | | Low tip attachment forces should be enough. Specify the force required | C | | |
| | | Spring materials should be titanium for chemical resistant, corrosion proof and abrasive free | C | | |
| | | Ejector must be without metal parts to prevent corrosion and damaging to the glasses | C | | |
| | | Easy hand lock lever | C | | |
| | Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | Standard certification | ISO 8655 certification or EU IVD 2017/746 certification | C | | |

| | | | | | |
|--|---------------|--|---|--|--|
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |
|--|---------------|--|---|--|--|

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|--------------------------------------|--|------------------|---------------------------|---------|
| 25 | Single Channel (100 – 1000µl) | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Volume | 100 – 1000µl Accuracy: 3 µl maximum at 100 µl Accuracy: 8 µl maximum at 1000 µl Minimum of 3 Digit Volume setting | C C C C | | |
| | No of Channels | Single Channel | C | | |
| | Tips | Compatible for universal tip sizes | C | | |
| | Body | UV resistant | C | | |
| | | Fully autoclavable at 121°C for 20 minutes at least 150 cycles. Both full pipette or lower part (Should be mentioned in the manufacturer literature) | C | | |
| | | There should be secondary adjustment to User to adjust the pipetting volume temporary up to at least 2% to offsets inaccuracies when working with different liquids like warm, cold, viscous or different altitude conditions. | C | | |

| | | | | | |
|--|------------------------|--|---|--|--|
| | | Spring loaded tip cone should be available (Should be mentioned in the manufacturer literature) | C | | |
| | | Low tip attachment forces should be enough. Specify the force required | C | | |
| | | Spring materials should be titanium for chemical resistant, corrosion proof and abrasive free | C | | |
| | | Ejector must be without metal parts to prevent corrosion and damaging to the glasses | C | | |
| | | Easy hand lock lever | C | | |
| | Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | Standard certification | ISO 8655 certification or EU IVD 2017/746 certification | C | | |
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|--|---|----------|---------------------------|---------|
| 26 | Multi-channel Micropipette (0.5 – 10µl) | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Volume | (0.5 – 10 µl) Accuracy: 0.02 µl maximum at 0.5 µl Accuracy: 0.1 µl maximum at 10 µl | C C | | |

| | | | | | |
|--|------------------------|--|---|--|--|
| | | (for each channel) | C | | |
| | | Minimum of 3 Digit Volume setting | C | | |
| | No of Channels | 8 Channels | C | | |
| | Tips | Compatible for universal tip sizes | C | | |
| | Body | UV resistant | C | | |
| | | Fully autoclavable at 121 ^o C for 20 minutes at least 150 cycles. Both full pipette or lower part (Should be mentioned in the manufacturer literature) | C | | |
| | | There should be secondary adjustment to User to adjust the pipetting volume temporary up to at least 2% to offsets inaccuracies when working with different liquids like warm, cold, viscous or different altitude conditions. | C | | |
| | | Spring loaded tip cone should be available (Should be mentioned in the manufacturer literature) | C | | |
| | | Low tip attachment forces should be enough. Specify the force required | C | | |
| | | Spring materials should be titanium for chemical resistant, corrosion proof and abrasive free | C | | |
| | | Ejector must be without metal parts to prevent corrosion and damaging to the glasses | C | | |
| | | Easy hand lock lever | C | | |
| | Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | Standard certification | ISO 8655 certification or EU IVD 2017/746 certification | C | | |
| | Documentation | User manual and other relevant documentation should be provided | C | | |
| | | Should mention catalogue number, manufacturer and authorized dealer in the quotation | | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|--|--|------------------|-----------------------------|---------|
| 27 | Multi-channel Micropipette (2 – 20µl) | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Volume | (2 – 20 µl) Accuracy: 0.12 µl maximum at 2 µl Accuracy: 0.30 µl maximum at 20 µl (for each channel) Minimum of 3 Digit Volume setting | C C C C | | |
| | No of Channels | 8 Channels | C | | |
| | Tips | Compatible for universal tip sizes | C | | |
| | Body | UV resistant | C | | |
| | | Fully autoclable at 121°C for 20 minutes at least 150 cycles. Both full pipette or lower part (Should be mentioned in the manufacturer literature) | C | | |
| | | There should be secondary adjustment to User to adjust the pipetting volume temporary up to at least 2% to offsets inaccuracies when working with different liquids like warm, cold, viscous or different altitude conditions. | C | | |
| | | Spring loaded tip cone should be available (Should be mentioned in the manufacturer literature) | C | | |
| | | Low tip attachment forces should be enough. Specify the force required | C | | |
| | | Spring materials should be titanium for chemical resistant, corrosion proof and abrasive free | C | | |

| | | | | | |
|--|------------------------|---|---|--|--|
| | | Ejector must be without metal parts to prevent corrosion and damaging to the glasses | C | | |
| | | Easy hand lock lever | C | | |
| | Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | Standard certification | ISO 8655 certification or EU IVD 2017/746 certification | C | | |
| | Documentation | User manual and other relevant documentation should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|--|--|----------|---------------------------|---------|
| 28 | Multi-channel Micropipette (20 – 200µl) | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Volume | (20 – 200 µl) | C | | |
| | | Accuracy: 1 µl maximum at 20 µl | C | | |
| | | Accuracy: 1.5 µl maximum at 200 µl (for each channel) | C | | |
| | | Minimum of 3 Digit Volume setting | C | | |
| | No of Channels | 8 Channels | C | | |

| | | | | | |
|------------------------|---|--|---|--|--|
| | Tips | Compatible for universal tip sizes | C | | |
| | Body | UV resistant | C | | |
| | | Fully autoclable at 121°C for 20 minutes at least 150 cycles. Both full pipette or lower part (Should be mentioned in the manufacturer literature) | C | | |
| | | There should be secondary adjustment to User to adjust the pipetting volume temporary up to at least 2% to offsets inaccuracies when working with different liquids like warm, cold, viscous or different altitude conditions. | C | | |
| | | Spring loaded tip cone should be available (Should be mentioned in the manufacturer literature) | C | | |
| | | Low tip attachment forces should be enough. Specify the force required | C | | |
| | | Spring materials should be titanium for chemical resistant, corrosion proof and abrasive free | C | | |
| | | Ejector must be without metal parts to prevent corrosion and damaging to the glasses | C | | |
| | | Easy hand lock lever | C | | |
| Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | | |
| Standard certification | ISO 8655 certification or EU IVD 2017/746 certification | C | | | |
| Documentation | User manual and other relevant documentation should be provided | C | | | |
| | Should mention catalogue number, manufacturer and authorized dealer in the quotation | | | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|---------------|-------------|----------|---------------------------|---------|
|---------|---------------|-------------|----------|---------------------------|---------|

| | | | | | |
|----|--|--|---|--|--|
| 29 | Multi-channel Micropipette (100 – 1000µl) | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Volume | (100 – 1000 µl) | C | | |
| | | Accuracy: 3 µl maximum at 100 µl | C | | |
| | | Accuracy: 8 µl maximum at 1000 µl (for each channel) | C | | |
| | | Minimum of 3 Digit Volume setting | C | | |
| | No of Channels | 8 Channels | C | | |
| | Tips | Compatible for universal tip sizes | C | | |
| | Body | UV resistant | C | | |
| | | Fully autoclable at 121°C for 20 minutes at least 150 cycles. Both full pipette or lower part (Should be mentioned in the manufacturer literature) | C | | |
| | | There should be secondary adjustment to User to adjust the pipetting volume temporary up to at least 2% to offsets inaccuracies when working with different liquids like warm, cold, viscous or different altitude conditions. | C | | |
| | | Spring loaded tip cone should be available (Should be mentioned in the manufacturer literature) | C | | |
| | | Low tip attachment forces should be enough. Specify the force required | C | | |
| | | Spring materials should be titanium for chemical resistant, corrosion proof and abrasive free | C | | |
| | | Ejector must be without metal parts to prevent corrosion and damaging to the glasses | C | | |

| | | | | | |
|--|------------------------|---|---|--|--|
| | | Easy hand lock lever | C | | |
| | Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | Standard certification | ISO 8655 certification or EU IVD 2017/746 certification | C | | |
| | Documentation | User manual and other relevant documentation should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|------------------------|--|----------|-----------------------------|---------|
| 30 | Dry bath | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use | C | | |
| | Heating Blocks | 2 blocks, 24 x 1.5ml | C | | |
| | Temperature range | 5°C above ambient to 150°C | C | | |
| | Heating time | <30-minute heating time for 20 to 150°C | C | | |
| | Timer | 99h 59m | C | | |
| | Temperature uniformity | 0.3°C or better | C | | |

| | | | | | |
|--|------------------------|--|-----------------------|--|--|
| | LCD display | simple interface | C | | |
| | Features | no noise Built-in temperature calibration function Automatic fault detection and buzzer alarm function Built-in over-heating protection device Multiple optional blocks for improved versatility | C C C C C | | |
| | Power: | 200-240 V, AC, 50 Hz, 30 A, single phase | C | | |
| | Standard certification | ISO 13485 | C | | |
| | Warranty | Minimum 1 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | Documentation | User manual and other relevant documentation should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|--------------------------------------|------------------|----------|-----------------------------|---------|
| 31 | Laboratory Bench Top pH Meter | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |

| | | | | | |
|--|------------------------|---|---|--|--|
| | Usage | It should be compatible with Medical Diagnostic Laboratory use / IVD certificates. | C | | |
| | Accessories | <ol style="list-style-type: none"> 1. The bench top pH Meter Kit should include all the accessories needed to start testing in the laboratory. 2. It should include the meter, probe, electrode stand, standard buffers, storage solution, calibration flasks and other accessories for quick start up. | C | | |
| | Standard | Meter should be water resistant to IP 42 standard | C | | |
| | Display Type | It should have a LCD display with backlight | C | | |
| | Facilities | <ol style="list-style-type: none"> 1. It should have Automatic Temperature Compensation facility. 2. It should have automatic buffer recognition facility with pH 2.00, 4.01, 7.00, 9.25 and 10.01 buffers. 3. It should read parameters pH,mV and Temperature | C | | |
| | Power Supply | The meter should be operated with mains power supply 240V; 50Hz | C | | |
| | Electrode | <ol style="list-style-type: none"> 1. It should be supplied with Gel filled pH combination electrode. 2. The electrode cable length Should be at least 1 meter. | C | | |
| | pH Range | 0 - 14 with 0.01 resolution. | C | | |
| | Standard certification | ISO 13485 and CE compliance | C | | |
| | Warranty | Minimum 2 year of warranty period for the entire system, Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | mV Rang | Range: \pm 1999 mV with resolution 0.1 mV | C | | |

| | | | | | |
|--|---------------|--|---|--|--|
| | Accuracy | >0.3°C | C | | |
| | Other | Documentary evidence of requested specifications should be provided by marking on manufacturer's literature. | C | | |
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-------------------------|--|----------|-----------------------------|---------|
| 32 | -20 deep freezer | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | General Use | It should be compatible with Medical Diagnostic Laboratory use (ISO 13485) | C | | |
| | Freezer Type | Upright | C | | |
| | Temperature range | -10C -to - 30°C | C | | |
| | Adjustable temperature | Yes | C | | |

| | | | | |
|-----------------------|--|---|--|--|
| Insulation | high density polyurethane, with a thickness of 75 mm. CFC-free | C | | |
| Refrigerant | CFC-free | C | | |
| Refrigeration | Forced -air, through a fan | C | | |
| Defrosting | Completely automatic, thermostat controlled. | C | | |
| Capacity | Gross 600 L | C | | |
| Compressors | Hermetic compressor | C | | |
| Internal lighting | Yes | C | | |
| Door | Single solid door | C | | |
| Internal equipment | 6 Open rust proof shelves | C | | |
| Inner door | 3 inner doors | | | |
| Accessories | Should supplied with compatible freezer racks and storage boxes for cryovials and standard blood collection tubes 13 x75 (3 shelves to occupy Blood tube storage boxes and 3 shelves to occupy cryovial storage boxes) | C | | |
| Control panel | Microprocessor controlled, Touch buttons and color display (actual temperature, Compressor functioning, defrosting, alarm running, etc.) | C | | |
| Alarms for | - high and low temperature, with limits programmable - power failure - battery discharged - condenser dirty | C | | |
| Noise level | Below 60 dB(A) | C | | |
| Dimensions (Exterior) | Around (W x D x H cm) : 80 x 90 x 150 cm | C | | |
| Power requirement | Operation on standard laboratory power 220 - 230 V, 50Hz, Should supplied with online UPS with a capability of backup time of 3 hours | C | | |

| | | | | | |
|--|------------------------|---|---|--|--|
| | warranty | The unit shall warrant for a period of not less than 2 years for the entire System Maintenance of the equipment should be every 6-month free of charge during the Warranty period | C | | |
| | standard Certification | ISO 13485 certification | C | | |
| | Documentation | Manufacture product catalogs with requested informations Manufacture authorization for the bidder to represent them | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|----------------------|---|----------|-----------------------------|---------|
| 33 | Bunsen Burner | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use (with a confirmation through a certificate- ISO 13485) | C | | |
| | Gas Type | Natural, propane, and butane | C | | |
| | Inlet Tube OD (in) | 0.375 | C | | |
| | | Handling with Foot Switch | C | | |
| | | Automatic gas valve shut off if the flame extinguishes | C | | |
| | | Burner head detects faulty, clogged, or missing burner heads and protects against overheating | C | | |
| | | Residual heat display illuminates and warns users if the burner head is hot | C | | |
| | | Control both gas and air flow for a broad range of flame temperatures | C | | |

| | | | | | |
|--|------------------------|--|---|--|--|
| | Power: | 200-240 V, AC, 50 Hz, 30 A, single phase | C | | |
| | Standard certification | ISO 13485 certification | C | | |
| | Warranty | Minimum 1 year warranty | C | | |
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|----------------------|---|----------|-----------------------------|---------|
| 34 | Mini Fuge | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usagae | It should be compatible with Medical Laboratory use (with a confirmation through ISO 13485 certification) | C | | |
| | Max Speed | 6,000 rpm / 2,000 x g or better | C | | |
| | Capacity | 8 × 1.5/2.0mL tubes 32 × 0.2mL tubes 4 × PCR Strips | C | | |
| | Power: | 200-240 V, AC, 50 Hz, 30 A, single phase | C | | |

| | | | | | |
|--|---------------|--|---|--|--|
| | Warranty | Warranty for entire system for minimum of 1 year Periodical maintenance should be every 12 months free of charge during the warranty period. | C | | |
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---------------------------------|--|----------|-----------------------------|---------|
| 35 | Conventional PCR Machine | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Diagnostic Laboratory use (with a confirmation through ISO 13485 certification) / IVD certificates (EU IVD 2017/746). | C | | |
| | Dimensions | Around Height: 25cm, Width: 25 cm, Depth: 50 cm | C | | |
| | Display: | 6.5 in. VGA 32k color with touch screen | C | | |
| | Heat block | 96 wells | C | | |
| | Peak Block Ramp Rate: | 6°C/sec or better | C | | |
| | Reaction Volume Range: | 10-100 µl | C | | |
| | Sample Ramp Rate: | around 3.5 °C/sec | C | | |
| | Temperature Range (Metric): | 4.0-99.9 °C | C | | |
| | Temperature gradient | 6 zones Veriflex block with a range of 25°C | C | | |

| | | | | | |
|--|------------------------|---|--------|--|--|
| | Capacity: | 96 x 0.2 ml tubes, 1 x 96-well plate | C | | |
| | Format: | 0.2 ml tubes, 96-well plate | C | | |
| | Temperature Accuracy: | < 0.25°C (35°C to 99.9°C) | C | | |
| | Temperature Uniformity | < 0.5 °C (20 sec after reaching 95 °C) | C | | |
| | Memory: | USB and On-board | C | | |
| | Power Supply | Should be operated with mains power supply 240V; 50Hz | C | | |
| | UPS requirement | Online UPS with the capability of 3 hours backup time | C | | |
| | Standard certification | ISO 13485 certification / IVD certificates (EU IVD 2017/746) | C | | |
| | Warranty | Warranty for entire system for minimum of 5 years and minimum of 2 years for the UPS Periodical maintenance should be every 06 months free of charge during the warranty period. | C C | | |
| | Other | Documentary evidence of requested specifications should be provided by marking on manufacturer's literature. | C | | |
| | Documentation | User manual and other relevant documentations should be provided Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---------------|-------------|----------|-----------------------------|---------|
| 36 | Real time PCR | | | | |

| | | | | | |
|--|------------------------------|---|---|--|--|
| | Make | (please specify) | C | | |
| | Model | (please specify) | C | | |
| | Country of origin | (please specify) | C | | |
| | General Use | It should be compatible with Medical Diagnostic Laboratory use (ISO 13485) / IVD certificates (EU IVD 2017/746) | C | | |
| | Design | Peltier based 96-Well Real Time PCR with 6 Target Multiplexing capabilities | C | | |
| | | Should have mass reduced sample block to allow heating and cooling at a fast controlled rate. | | | |
| | Scan mode | Should have fast scan mode in which the Scanning can be completed fast and a Typical Gene Expression experiment can be done in 40-60 minutes. | C | | |
| | Temperature gradient | System should have Gradient Block with 6 zones. | C | | |
| | Filters / Detector | 6 decoupled filters, CMOS camera | C | | |
| | Excitation –Emission range: | 450- 680 / 500nm -730nm | C | | |
| | software | System should have an integrated software for secondary and tertiary data analysis which is capable to import and analyze data from any real time PCR platform | C | | |
| | HRM analysis | Should supplied with separate software license for HRM analysis | C | | |
| | Florescent dyes | Should be capable of Detecting FAM™/SYBR™ Green, VIC™/JOE™/HEX™/TET™, ABY™*/NED™/TAMRA™/Cy®3, JUN™*, ROX™/Texas Red™, Mustang Purple™, Cy®5/LIZ™, Cy®5.5 Dynamic range of 10 orders. | C | | |
| | Temperature accuracy | Temperature range 0– 100 OC with accuracy of ±0.2 OC and uniformity of ±0.4 OC within 10 sec of arrival at 90 OC | C | | |
| | Laptop Computer requirements | Microsoft™ Windows™ 11 Processor: Intel™ Core™ i5 11 th gen or Better CPU @2.6 | C | | |

| | | | | | |
|--|------------------------|--|---|--|--|
| | | GHz, 512 GB SSD ,16 GB RAM Installed memory: 16 GB | | | |
| | Power requirement | Operation on standard laboratory power 220 - 230 V, 50Hz, Should supplied with online UPS with a capability of backup time of 3 hours | C | | |
| | warranty | The unit shall warrant for a period of not less than 3 years for the entire system and 2 year warranty for UPS system. Maintenance of the equipment should be every 6-month free of charge during the Warranty period | C | | |
| | standard Certification | ISO 13485 certification and EU IVD 2017/746 | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/ No) | Remarks |
|---------|---------------------------------|--|----------|----------------------------|---------|
| 37 | Gel documentation system | | | | |
| | Make | please specify | C | | |
| | Model | please specify | C | | |
| | Country of origin | please specify | C | | |
| | General Useadge | It should be compatible with Medical Diagnostic Laboratory use Should submit relevant proof documents for medical diagnostic laboratory with quotation. | C C | | |

| | | | | | |
|--|-----------------|---|---|--|--|
| | Camera & Optics | <p>Scientific grade camera</p> <ul style="list-style-type: none"> • more than 10 megapixels resolution extendable to 20 megapixels • Passive cooling • 16-bit – more than 60000 grey levels • USB connection • Motorized zoom lens with feedback • Field of view: 25x20cm | C | | |
| | Hardware | <p>Smart Darkroom technology:</p> <ul style="list-style-type: none"> • Software control of the lighting • White light led panels with automatic intensity adjustment • UV cut-off filter and more than 8 positions filter wheel • Slide-out PadBox with automatic recognition of the Application Pad inserted <p>Steel and stainless steel darkroom for long lasting robustness. Wide access door with UV safety shut-off</p> | C | | |
| | Laptop | <p>Processor: Minimum Intel Core i5 11th Gen or better RAM: Minimum 8 GB of RAM to support multitasking and efficient software operation.</p> <p>Display: 14-inch or larger Full HD (1920x1080) display for clear visibility of data and analysis results.</p> <p>Connectivity: At least two USB 3.0 ports, one HDMI output for connecting to external monitors or projectors, and a high-speed Ethernet port or Wi-Fi for data transfer.</p> <p>Battery Life: Minimum 8 hours of battery life for portability during laboratory</p> <p>Ports and Expansion: At least 1 USB 3.0 or USB-C port, and an HDMI output, for easy connection to external devices and data input.</p> <p>Software Compatibility: Original software must be pre-installed or able to support the software required to gel the documentation system (Including original Windows 11 pro</p> | | | |

| | | | | | |
|--|--------------|--|---|--|--|
| | | software) | | | |
| | Software | Free software for image acquisition with full GLP compliance. Molecular weight calculation, band Quantification, colony counting, distance calculation, text annotation and image enhancement included. | C | | |
| | Applications | DNA and RNA gels and fluorescence stain imaging: <ul style="list-style-type: none"> • Ethidium bromide, Sybr-Safe, Sybr-Green, Gel-Red, Gel-Green, Sybr-Gold, GFP, Pro-Q Emerald, Sypro ruby, FITC, DAPI • Colorimetric stained protein gels, X-Ray film, autorads, SSCP gels, colony dish and flask imaging and other EPI white light applications • Coomassie blue, Silver stain, Ponceau S Red, Copper stain... Sky-Pad or Blue light conversion screen for DNA/RNA detection (avoid «nicking» DNA): <ul style="list-style-type: none"> • Sybr Safe, Sybr Green, eGFP | C | | |
| | Power Supply | Should be operated with mains power supply 240V; 50Hz | C | | |
| | Warranty | Minimum 3 year of warranty period for the entire system, Maintenance of the equipment should be every 6 months free of charge during the warranty period | C | | |

| | | | | | |
|--|---------------|--|---|--|--|
| | Other | <p>Should have a good after sales service. Please attach details of after sales service personnel, their qualification, and address of after sales division etc.</p> <p>Documentary evidence of requested specifications should be provided by marking on manufacturer's literature.</p> <p>A letter of authorization is required from the manufacturer.</p> | C | | |
| | Brand name | Brand name should be embedded on the equipment as a permanent mark | C | | |
| | Documentation | <p>User manual and other relevant documentations should be provided</p> <p>Should mention catalogue number, manufacturer and authorized dealer in the quotation</p> | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------|------------------|----------|-----------------------------|---------|
| 38 | Microwave oven | | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |

| | | | | | |
|--|-------------------|--|---|--|--|
| | Country of origin | (Please specify) | C | | |
| | Usage | It should be compatible with Medical Laboratory use Should supplier with any relevant proof documents for medical diagnostic laboratory with quotation. | C | | |
| | Microwave power | 1,000 watts or better | C | | |
| | power levels | 5 or more different power levels plus a hold feature | C | | |
| | Exhaust System | Powered cavity exhaust to remove fumes from the cavity Includes 8 feet of chemical resistant flexible duct to facilitate connection of exhaust system | | | |
| | cavity | 300 x 200 x 300 mm (WxHxD) or better. Stainless steel cavity and cover for easy clean up, chemical resistance and long life | C | | |
| | Frequency | 2.45 GHz | C | | |
| | Power | 200-240 V, AC, 50 Hz, 30 A, single phase | C | | |
| | Warranty | The unit shall warrant for a period of not less than 2 years for the entire system. Maintenance of the equipment should be every 12 months free of charge during the warranty period | C | | |
| | Brand name | Brand name should be embedded on the equipment as a permanent mark | C | | |
| | Documentation | User manual and other relevant documentation should be provided Should mention catalogue number, the manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks | |
|----------------------------|--|---|----------|-----------------------------|---------|--|
| 39 | Equipment | Individually ventilated caging system | | | | |
| | Make | Please specify | C | | | |
| | Model & Model Year | Please specify | C | | | |
| | Country of origin | Please specify | C | | | |
| | IVC Rack Specifications | Rack Material: Stainless steel (304/316); corrosion resistant. | | C | | |
| | | Airflow Control: 50–100 Air Changes/Hour (ACH) (adjustable), unidirectional flow (top-to-bottom preferred) | | C | | |
| | | Filtration: Double HEPA (H14, 99.995% @ 0.3 µm) + UV sterilization (optional) | | C | | |
| | | Both supply & exhaust air streams are HEPA filtered | | C | | |
| | | Pressure Monitoring: Real-time sensors (±5 Pa accuracy) with alarms for leaks/filter breaches. | | C | | |
| | | Noise Level: ≤55 dB inside cages. | | C | | |
| | | Capacity: 60 cages (mouse) | | C | | |
| | | Unit diameter: ~1300 x 500 x 1800mm (LxWxH) do not exceed | | C | | |
| | | Cage holding rails fitted with visual docking indicators to ensure proper fitting of cage | | C | | |
| | | Racks are fitted with common rail | | C | | |
| | Press fit air supply and exhaust valve | | C | | | |
| Cage Specifications | Material: Autoclavable (≥135°C) polysulfone or polyphenylsulfone, chemically resistant. | | C | | | |

| | | | | | |
|--|--|---|---|--|--|
| | | Sealing Mechanism: Airtight gasket (silicone or equivalent) with latch-free operation. | C | | |
| | | Filter Integrity: HEPA/ULPA filters ($\geq 99.97\%$ VFE @ 0.3 μm); 72-hour off-rack survivability | C | | |
| | | Lid Design: 1. Ergonomic access (one-handed operation), full visibility for health checks. 2. Locks enabling quick locking and unlocking at the same time giving safe locking | C | | |
| | | Bedding Containment: Deep-well design to minimize aerosolization during handling | C | | |
| | | S.S 304 grill without any sharp edges | C | | |
| | | Cage diameter: Please mention | C | | |
| | Compliance | BSL-2/BSL-3 ready, ISO 9001/14001, CE | C | | |
| | Display | Touch screen display at eye level. Display has standby screen or night mode to avoid disturbance to animals | C | | |
| | Validation & Certification | Filter Integrity DOP/PAO testing Containment Leakage Tracer gas testing Microbial Clearance Biological indicators | C | | |
| | Biosafety Monitoring & Alarms | Password protected system ensuring restricted access Continuous monitoring of Temperature, RH% and provision to set limits Remote Monitoring: Mobile messaging system for error logs enabling user to take immediate action to protect animals | C | | |
| | Other | Power Backup: Minimum 2-hour UPS. Card holder fitting on the edge gives visibility of the animal inside the cage. External self-centering autoclavable water bottles with | C | | |

| | | | | | |
|--|---------------------------|---|---|--|--|
| | | silicone gasket around the neck , preventing any leakage Unit is fitted with castor wheels with brakes | | | |
| | Power Requirements | Should be compatible with standard electrical outlets in laboratory settings in Sri Lanka | C | | |
| | Warranty | Comprehensive warranty for the entire system for a minimum of 5 years Periodical maintenance must be conducted every 06 months free of charge during the comprehensive warranty period. | C | | |
| | Brand name | Brand name should be embedded on the equipment as a permanent mark | C | | |
| | Documentation | User manual and other relevant documentation should be provided The user reference list should be attached Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-------------------------|---|----------|-----------------------------|---------|
| 40 | Equipment | Individually ventilated caging system | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of origin | Please specify | C | | |
| | IVC Rack Specifications | Rack Material: Stainless steel (304/316); corrosion resistant. | C | | |
| | | Airflow Control: 50–100 Air Changes/Hour (ACH) (adjustable), unidirectional flow (top-to-bottom preferred) | C | | |
| | | Filtration: Double HEPA (H14, 99.995% @ 0.3 µm) + UV sterilization (optional) | C | | |

| | | | | | |
|--|----------------------------|--|---|--|--|
| | | Both supply & exhaust air streams are HEPA filtered | C | | |
| | | Pressure Monitoring: Real-time sensors (± 5 Pa accuracy) with alarms for leaks/filter breaches. | C | | |
| | | Noise Level: ≤ 55 dB inside cages. | C | | |
| | | Capacity: 40 cages (mouse) | C | | |
| | | Unit diameter: $\sim 1300 \times 500 \times 1800$ mm (LxWxH) do not exceed | C | | |
| | | Cage holding rails fitted with visual docking indicators to ensure proper fitting of cage | C | | |
| | | Racks are fitted with common rail | C | | |
| | | Press fit air supply and exhaust valve | C | | |
| | Cage Specifications | Material: Autoclavable ($\geq 135^\circ\text{C}$) polysulfone or polyphenylsulfone, chemically resistant. | C | | |
| | | Sealing Mechanism: Airtight gasket (silicone or equivalent) with latch-free operation. | C | | |
| | | Filter Integrity: HEPA/ULPA filters ($\geq 99.97\%$ VFE @ $0.3 \mu\text{m}$); 72-hour off-rack survivability | C | | |
| | | Lid Design: 1. Ergonomic access (one-handed operation), full visibility for health checks. 2. Locks enabling quick locking and unlocking at the same time giving safe locking | C | | |
| | | Bedding Containment: Deep-well design to minimize aerosolization during handling | C | | |
| | | S.S 304 grill without any sharp edges | C | | |
| | | Cage diameter: Please mention | C | | |
| | Compliance | BSL-2/BSL-3 ready, ISO 9001/14001, CE | C | | |
| | Display | Touch screen display at eye level. Display has standby screen or night mode to avoid disturbance to animals | C | | |

| | | | | |
|--|---|---|--|--|
| Validation & Certification | Filter Integrity DOP/PAO testing Containment Leakage Tracer gas testing Microbial Clearance Biological indicators | C | | |
| Biosafety Monitoring & Alarms | Password protected system ensuring restricted access Continuous monitoring of Temperature, RH% and provision to set limits Remote Monitoring: Mobile messaging system for error logs enabling user to take immediate action to protect animals | C | | |
| Other | Power Backup: Minimum 2-hour UPS. Card holder fitting on the edge gives visibility of the animal inside the cage. External self-centering autoclavable water bottles with silicone gasket around the neck , preventing any leakage Unit is fitted with castor wheels with brakes | C | | |
| Power Requirements | Should be compatible with standard electrical outlets in laboratory settings in Sri Lanka | C | | |
| Warranty | Comprehensive warranty for the entire system for a minimum of 5 years Periodical maintenance must be conducted every 06 months free of charge during the comprehensive warranty period. | C | | |
| Brand name | Brand name should be embedded on the equipment as a permanent mark | C | | |
| Documentation | User manual and other relevant documentation should be provided The user reference list should be attached Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|--------------------|--|----------|-----------------------------|---------|
| 41 | Equipment | Biosafety Cabinet - BSL 2 (Class II, Type A2) | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of origin | Please specify | C | | |
| | General | It should be compatible with mammalian cell culture (Primary and immortalized). BSLII should ensure a controlled and safe environment for working with cell lines, cultures, and potentially hazardous materials. This specific type of cabinet is designed to provide both operator protection and environmental safety in the context of cell culture activities. Should have other relevant standard accessories. | C | | |
| | Grade | Research | C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Filter | ULPA (Ultra Low Penetration Air) or better system for animal cell culture 99.999%@0.1-0.3µm | C | | |
| | Control system | Digital display with easy mode operation should have audible and visual alarms Should display all safety information on one screen Selectable fast operation | C | | |
| | Airflow | Stable, despite building voltage fluctuations & filter loading | C | | |
| | Cabinet | Stainless steel side walls, negative pressure system | C | | |
| | Size | 3 ft | C | | |
| | Other requirements | Transparent Front Door, Auto switch on/off for U.V. Germicidal tube & fluorescent light Comfortable lighting and legroom Intuitive and easy-to-use microprocessor controller Stable and self-compensating airflow Compatible UPS is required (Warranty 2 years for ups) | C | | |
| | Documentation | 1. Manufacture product catalogues with the requested information | C | | |
| | Standards | Should have to have applicable international (EN 12469 and NSF 49) standard certificates, CE compliance, relevant ISO | C | | |

| | | | | | |
|--|----------|---|---|--|--|
| | | certificates ensuring protection against biosafety level 1-3 agents | | | |
| | Warranty | Comprehensive warranty for minimum of 3 years or more better Periodical maintenance should be conducted every 03 months free of charge during comprehensive warranty period. | C | | |

| Item No | Specification | Requirement | Priority | Bidders' Response (Yes / No) | Remarks |
|---------|--------------------|---|----------|------------------------------|---------|
| 42 | Equipment | Handheld animal tissue Homogenizer | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of origin | Please specify | C | | |
| | General | A research-grade handheld animal tissue homogenizer is a compact, portable laboratory instrument designed for rapid and efficient homogenization of biological samples, particularly animal tissues . Suitable for both benchtop and field application | C | | |
| | Grade | Research | C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Motor | Motor Type: AC carbon brush motor | C | | |
| | | Speed Range: 5,000-35,000 RPM | C | | |
| | | Power Input: 100-240V 50/60Hz | C | | |
| | | Power Output: 160W | C | | |
| | | Max Torque: ≥0.5 Nm | C | | |
| | Speed Range | 8,000-35,000 rpm | C | | |
| | Speed level | Manually adjustable: approx. 10 stages | C | | |
| | Probe | Material: Stainless steel 316L, autoclavable | C | | |
| | | Diameter: 5 mm- 30 mm for varied sample sizes | C | | |
| | | Shaft Length: 120-250 mm | C | | |
| | | Homogenization Time: <60 sec/sample | C | | |
| | | Working Volume: 0.5-50mL | C | | |

| | | | | | |
|--|-----------------------|--|---|--|--|
| | Max. Viscosity | ~5,000mPas | C | | |
| | Control & Display | Digital speed adjustment | C | | |
| | | RPM display | C | | |
| | Physical Dimensions | Handpiece: ~200 × 50 × 50 mm (L×W×H) | C | | |
| | | Weight: < 700 g | C | | |
| | Operating Environment | 0-40°C, 85% RH | C | | |
| | Accessories | Interchangeable probes (5mm-30mm) | C | | |
| | | Adjustable Stand & Tube Holder: For hands-free operation | C | | |
| | | Disposable pestles or stainless-steel probes | | | |
| | | Cleaning Brushes | | | |
| | | Cooling adapter | | | |
| | Noise & Vibration | Noise Level: <65 dB @ maximum speed | | | |
| | | Anti-vibration grip | | | |
| | Protection class | IP20 | C | | |
| | Material Safety | Non-toxic, corrosion-resistant | C | | |
| | Documentation | 1. Manufacture product catalogues with the requested information | C | | |
| | Standards | CE, ISO | C | | |
| | Warranty | Comprehensive warranty for minimum of 3 years or more better. Periodical maintenance should be conducted every 06 months free of charge during comprehensive warranty period. | C | | |

| Item | Specification | Requirement | Priority | Bidders' | Remarks |
|------|---------------|-------------|----------|----------|---------|
|------|---------------|-------------|----------|----------|---------|

| No | | | | Response (Yes / No) | |
|------------------------|--|---|---|------------------------|--|
| 43 | Equipment | Refrigerated bench top mini centrifuge | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of origin | Please specify | C | | |
| | Maximum speed | 14500 rpm or better | C | | |
| | Speed control range: | 500-14500 rpm; increment:100 rpm. Max. RCF 15000×g, increment: 100×g | C | | |
| | Speed control accuracy | ±20 rpm or better | C | | |
| | Run Time | 30 sec-99 min/Continuous | C | | |
| | Temperature | The centrifuge should feature a refrigeration system capable of maintaining a temperature range of -10° to 40°C for optimal sample preservation during centrifugation. The temperature control should be accurate to within ±1°C. | C | | |
| | User Interface | The machine should be equipped with a user-friendly interface, including a LED digital display for real-time monitoring of parameters such as speed RPM / RCF, time, and temperature. Intuitive controls for setting and adjusting parameters or more advanced features | | | |
| | Acceleration/Braking time | Pulse free acceleration and deceleration, soft break function | C | | |
| | Rotor Capacity | 0.2 mL/0.5 mL/1.5 mL/ 2 mL×24 | C | | |
| Body | The centrifuge should be manufactured with quality materials that provide broad chemical resistance and exceptional strength for durability and reliability. | C | | | |
| Driving Motor | Brushless DC motor | C | | | |
| Centrifugation chamber | A Stainless-Steel centrifugation chamber | C | | | |

| | | | | | |
|--|-------------------|---|---|--|--|
| | Safety Devices | Door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis | C | | |
| | Noise level | ≤60 dB | C | | |
| | Dimension [D×W×H] | Please mention | C | | |
| | Weight | Please mention | C | | |
| | Certification | EMC (Compliance with electromagnetic compatibility), CE, relevant ISO certificates | C | | |
| | Advanced features | Speed (RPM)/RCF switch, Short-time run function, sound-alert function | C | | |
| | Power | AC 240 V, 50 Hz/60 Hz | C | | |
| | Warranty | Comprehensive warranty for the entire system for a minimum of 3 years Periodical maintenance should be conducted every 06 months free of charge during comprehensive warranty period. | C | | |
| | Brand name | Brand name should be embedded on the equipment as a permanent mark | C | | |
| | Documentation | User manual and other relevant documentation should be provided The user reference list should be attached Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders' Response (Yes / No) | Remarks |
|---------|-------------------------------|-----------------------|----------|------------------------------|---------|
| 44 | Equipment | Autoclave- 70L | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |

| | | | | |
|---------------------------------|--|---|--|--|
| Country of origin | Please specify | C | | |
| Grade | Research | C | | |
| Application | Sterilization of liquids, media, instruments, plastic, glassware, and waste | | | |
| General | Capacity: 70 liters | C | | |
| | Top-Loading | C | | |
| | Material: Chamber and components are usually made of stainless steel (grade 304 or 316) | C | | |
| | Door Mechanism: Double-walled, hinged/swing type, auto-lock with safety interlock | C | | |
| Sterilization Type | Steam sterilization with high pressure and temperature. | C | | |
| Dimension | Please mention | C | | |
| Pressure and Temperature | Maximum Temperature: ~121°C to 135°C. | C | | |
| | Maximum Pressure: ~15-30 psi. | C | | |
| Control Panel | Digital display with programmable settings for temperature, pressure, and cycle time | C | | |
| | Automatic pressure control. | C | | |
| Power Requirements | 220-240V, 50Hz, single-phase (standard). | C | | |
| | Power consumption depends on size and model (~2-3 kW). | C | | |
| Safety Features | Over-pressure | C | | |
| | over-temperature | C | | |
| | low-water cutoffs | | | |
| | Door interlock to prevent opening under pressure | C | | |
| | Pressure safety valve | C | | |
| Documentation | 1. Manufacture product catalogues with the requested information | C | | |
| Standards | CE, ISO | C | | |
| Warranty | Comprehensive warranty for minimum of 2 years or more better. Periodical maintenance should be conducted every 03 months free of charge during comprehensive warranty period. | C | | |

| Item No | Specification | Requirement | Priority | Bidders' Response (Yes / No) | Remarks |
|---------|--------------------------|--|----------|------------------------------|---------|
| 45 | Equipment | Precision (top-loading) balance | | | |
| | Make | (Specify) | C | | |
| | Model & Model Year | (Specify) | C | | |
| | Country Of Manufacture | (Specify) | C | | |
| | Application | Suitable for weighing rodent models and rodent organ tissue samples | C | | |
| | Capacity | 1200 g or better | C | | |
| | Readability | ±0.01 g or better | C | | |
| | Repeatability (sd) | ±0.01 g or better | C | | |
| | Linearity (+/-) | ±0.02 g or better | C | | |
| | Tare Range (Subtractive) | Full Capacity | C | | |
| | Pan Size (mm) | ~180x 200 or better | C | | |
| | Response Time | 2 - 3 Sec. | C | | |
| | Display | Alpha Numeric LCD Display | C | | |
| | Calibration | Motorized Internal Calibration and standard weights required for external calibration | C | | |
| | Units of measure | gm, mg, ct, GN, mo, oz, dwt, t1T, t1H, t1S, mom, Bat, MS | C | | |
| | Operating Temp. | 15° to 35°C | C | | |
| | Sensitivity Drift. | ± 2ppm (2 x 10 ⁻⁶ / °C) | C | | |
| | Application Modes | PCS, % Weighing, Animal / Dynamic Weighing Check Weighing, Automatic Density, Determination, Formulation Automatic Statistic Calculator etc. | C | | |
| | Power Supply | 230 V. - 50/60 Hz. | C | | |
| | Compliance | CE, ISO, GLP, USP Compliance | C | | |
| | Weight Approx. | 6 kg | C | | |
| | Weighing pans | Made with chemical resistant and non-corrosive material | C | | |
| | Other requirements | Provide spatula, cover, and reusable weighing boats (small | C | | |

| | | | | | |
|--|---------------|--|---|--|--|
| | | & medium: 50 each) | | | |
| | Warranty | Comprehensive warranty for entire system for minimum of 2 years Periodical maintenance should be conducted every 06 months free of charge during comprehensive warranty period. | C | | |
| | Documentation | Original technical literature in English and relevant catalogues should be provided with the offer | C | | |

| Item No | Component Description | Minimum Specifications | Priority | Bidder's Response (Yes/No) | Remark |
|---------|---|--|----------|----------------------------|--------|
| 46 | Equipment | Combined Refrigerator and Freezer | | | |
| | Brand | (Specify) | | | |
| | Model | (Specify) | | | |
| | Make | (Specify) | | | |
| | Color | (Specify) | | | |
| | Refrigerator Type | 3 or above 3 doors, Inverter Refrigerator | | | |
| | Special features | Refrigerator, freezer convertible should be available (at least one compartment should be convertible) | | | |
| | Inverter / Non Inverter | Inverter- digital inverter or above | | | |
| | Capacity for refrigerator (temperature range should be within +2°C to +8°C) | Maximum 60% or below of the total capacity | | | |
| | Capacity for freezer (temperature range should be within -10°C to -20°C) | Minimum 40% or above of the total capacity | | | |
| | Total capacity (Internal) | Within the range of 650 L – 700 L | | | |
| | Digital Display | Temperature should be displayed digitally | | | |
| | Refrigerator Gas Type | (Specify) | | | |
| | Storage Features | With adjustable shelves | | | |
| | Door Open Alarm | Specify | | | |
| | Temperature Control panel | Should be able | | | |
| | Power requirement | Operation on standard laboratory power 220 - 230 V, 50Hz, | | | |

| | | | | | |
|--|-------------------------------|--|--|--|--|
| | | Should supplied with online UPS with a capability of backup time of 15 minutes | | | |
| | Dimensions | (Specify) | | | |
| | Weight | (Specify) | | | |
| | Warranty for the Refrigerator | A comprehensive warranty for the refrigerator is a minimum of 2 years Periodical maintenance should be conducted every 06 months free of charge during the comprehensive warranty period. | | | |
| | Warranty for Compressor | 15 Years or more | | | |

| Item No | Specification | Minimum Requirement | Priority | Bidders' Response (Yes / No) | Remarks | |
|--------------------------------|----------------------------|---|----------|------------------------------|---------|--|
| 47 | Equipment | Forced Air-Drying Oven | | | | |
| | Make | (Specify) | | | | |
| | Model | (Specify) | | | | |
| | Country Of Manufacture | (Specify) | | | | |
| | Capacity (L) | 300L-400L | C | | | |
| | Temperature | Range: +5 to ~ 250 (°C) | | C | | |
| | | Fluctuation: ±5 (°C) or better | | C | | |
| | | Resolution: ±5 (°C) or better | | C | | |
| | | Independent temperature limiter | | C | | |
| | Circulation | Forced air convection | | C | | |
| | Timer(min) | 1-9999 | | C | | |
| | Shelves | Number of shelves: 3 | | C | | |
| | | Shelf material: Stainless steel- noncorrosive | | C | | |
| | | Adjustable/removable wire shelving | | C | | |
| Interior and exterior Material | Stainless steel- 316 grade | | C | | | |

| | | | | | |
|--|---------------------------------|--|---|--|--|
| | Dimension(W*D*H) | 700 x 700 x 1000 (mm) Do not exceed | C | | |
| | Weight (kg) | ~60 kg | | | |
| | Power supply | 220/240 V/50 Hz | C | | |
| | Noice | <60 dB | C | | |
| | Safety | Over- temperature alarm | C | | |
| | Digital Display | LCD display | C | | |
| | Temperature and time controller | PID | C | | |
| | Documentation | 1. Manufacture product catalogues with the requested information | C | | |
| | Warranty | 3 Years Warranty | C | | |

| Item No | Specification | Requirement | Priority | Bidders' Response (Yes / No) | Remarks |
|---------|----------------------|---|----------|------------------------------|---------|
| 48 | Equipment | CO₂ Cylinder | | | |
| | General | Quality metal materials should match the standards in Sri Lanka | | | |
| | Grade | Research | | | |
| | Warranty and support | should provide a warranty for accessories from supplier for 2 years or more | | | |
| | Accessories | Regulator, hose (2 m), and hose clips | | | |

| Item No | Specification | Requirement | Priority | Bidders' Response | Remarks |
|---------|---------------|-------------|----------|-------------------|---------|
|---------|---------------|-------------|----------|-------------------|---------|

| | | | | (Yes/No) | |
|----|---------------------------|--|---|----------|--|
| 49 | Equipment | CO₂ euthanasia chamber | | | |
| | Application | To euthanize Mouse/ Rat | | | |
| | Material | Transparent, airtight, acrylic/polycarbonate | C | | |
| | Ports | Inlet & outlet, barbed fittings for CO ₂ tubing | C | | |
| | Size (interior) | ~11 × 6 × 7 (inches) (L x W x H) | | | |
| | Lid | Tight-fitting, lockable | C | | |
| | Flow Control | Two-stage regulator + flow meter (single L increments) + flow Controller | | | |
| | CO ₂ Fill Rate | 30-70% chamber volume/min | | | |
| | Visual Access | Clear walls for monitoring | C | | |
| | Safety | Smooth interior, no sharp edges Leak proof | C | | |
| | Warranty and support | should provide a warranty for the instrument from the manufacturer for 2 years or more | | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|-------------------|------------------------------------|----------|---------------------------|---------|
| 50 | Equipment | Digital Camera | | | |
| | Max resolution | 20mp or better | C | | |
| | Effective pixels: | Specify | C | | |
| | Sensor type | CMOS or Cybershot | C | | |
| | Lens | 20-200mm or better | C | | |
| | Focal length | Specify | C | | |
| | Max aperture | Please mention | C | | |
| | Screen | 3" 230k-Dot, LCD Monitor or better | C | | |
| | Storage types | SD | C | | |
| | USB | USB 2.0 or better | C | | |

| | | | | | |
|--|----------------------|--|--|--|--|
| | Warranty and support | should provide a warranty for the instrument from the manufacturer for 12 months or more | | | |
|--|----------------------|--|--|--|--|

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---|--|----------|-----------------------------|---------|
| 51 | Equipment | BSL-II Cabinet Class II Type A2 4ft | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | Suitable for microbiology and molecular biology applications | | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Energy consumption (in normal operation, fans on, lights on) | Approx. 1000W | C | | |
| | UV sterilization | 30W UV lamp for sterilization. UV timer, UV life indicator, emission of 253.7 nanometers for most efficient decontamination | C | | |
| | LED lamp | Minimum 2 x 14W lamps should be available to give excellent light distribution. ≥ 1000 Lux | | | |
| | Slash | Glass thickness > 5 mm, anti-ultraviolet, 200 mm slash opening | C | | |
| | Average inflow velocity (m³/h) | 450 or better | C | | |
| | Airflow downflow velocity (m³/h) | 900 or better | C | | |
| | Exhaust volume of cabinet 200mm opening (m³/h) | Approx. 450 | C | | |
| | Working area | 304 Stainless-steel with glass side walls for a brighter work area | C | | |
| | Frame and decorative plate | Cold-rolled steel with anti-bacteria powder coating | C | | |
| | Filter | H14 HEPA system or better | C | | |

| | | | | | |
|--|-------------------------------|--|--------|--|--|
| | | Filter Efficiency 99.995% or better at 0.3µm. Filter life indicator | C C | | |
| | Control system | Microprocessor, LCD display | C | | |
| | Airflow | Stable, despite building voltage fluctuations & filter loading | | | |
| | Motor | AC motor, 230V acceptable, adjustable speed, high efficiency, low power | | | |
| | Alarm | Alarm for abnormal wind speed, alarm for glass door not at safe height, alarm for abnormal power failure | C | | |
| | Size External (Approx) | 1300x800x2200mm | C | | |
| | Size Internal (Approx) | 1250*600*650mm | C | | |
| | Support Stand | Fixed height stand with castor wheels. | C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |
| | UPS requirement | Suitable online UPS with the capability of 15 min backup time | C | | |
| | Standards | Should have applicable international standard certificates. – NSF49 or EN 12469 and ISO 14644 | C | | |
| | Warranty | should provide a warranty for the entire equipment including UPS from the manufacturer for 2 years or more Maintenance of the equipment should be carried out every 06 months free of charge during the warranty period | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---------------|-------------------------------------|----------|-----------------------------|---------|
| 52 | Equipment | Refrigerated centrifuge (50 ml x 6) | | | |

| | | | | | |
|--|---------------------------------------|---|---|--|--|
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | <p>Capable to store 99 groups of programs and easy to call at any time.</p> <p>Electric door lock</p> <p>Up to 10 level acceleration/ deceleration with Linear drive.</p> <p>Large LCD display and the parameters can be revised during operation without shutdown.</p> <p>Microcomputer control, AC frequency conversion brush-less motor with fast speed and stable operation.</p> <p>ECO friendly refrigeration system with Special thermal insulation process.</p> <p>Automatic rotor identification system.</p> <p>Over speed, over heat, unbalance protections with auto lid lock.</p> <p>Steel Structure, centrifuge chamber made of stainless steel with Environmentally friendly anti-corrosion coating treatment.</p> <p>Ergonomic, low opening height, close the centrifuge cover with one time press.</p> <p>Special noise reduction system</p> | <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Energy consumption | Approx. 1200 W | C | | |
| | Max Speed | 18000rpm or better | C | | |
| | Max RCF | 31000×g or better | C | | |
| | Max Capacity | 4×100ml | C | | |
| | Rotors | 24x1.5/2.0 ml, 6x50/15 ml (fixed angle rotor), 4x100 ml (swing-out rotor) | C | | |
| | Automatic rotor identification | Yes | C | | |
| | Timer | 1s~99h 59min | C | | |

| | | | | | |
|--|---------------------------------------|--|---|--|--|
| | Revolutions/min | ±10r/min | C | | |
| | Temp Range | -20°C~40°C | C | | |
| | Temp Accuracy | ±1.0°C | C | | |
| | Noise Level | ≤ 60dB (A) | | | |
| | Dimensions (L x W x H) approx. | 550×550×350 (mm) | | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |
| | UPS requirement | Suitable online UPS system with the capability of 15 min backup time | C | | |
| | Standards | Should have to have applicable international standard certificates – ISO 9001 and CE certificates | C | | |
| | Warranty | should provide a warranty for the entire equipment including UPS from the manufacturer for 2 years or more Maintenance of the equipment should be carried out every 06 months free of charge during the warranty period | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------------|--|------------------|-----------------------------|---------|
| 53 | Equipment | Non refrigerated microcentrifuge (1.5/2.0 ml x 24) | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | It should be compatible with mammalian cell culture (Primary and immortalized). Small footprint; space saver for the lab. Microprocessor control and clear digital display Direct brushless rotor; low noise<60dba during operation. 15 or better memory slots available for your personal settings | C C C C | | |

| | | | | | |
|--|-----------------------------------|--|-------------|--|--|
| | | Timer:99hr,59min plus a short spin function Functional design; user friendly programming and interaction RCF or RPM settings as required | C C C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Energy consumption | 150 W/h or lower | C | | |
| | Max RPM (rpm) | 16000rpm | C | | |
| | Max RCF | 18757×g | C | | |
| | Max Capacity | 24×1.5ml | C | | |
| | Rotor | 24×1.5ml / 2 ml | C | | |
| | Timer | 1min~99min | C | | |
| | Revolutions/min | ±20r/min or better | C | | |
| | Rotor diameter | Φ160mm | C | | |
| | Outer Dimensions (approx.) | 420×370×320(mm) | C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |
| | UPS requirement | Suitable online UPS system with the capability of 15 min backup time | C | | |
| | Standards | Should have to have applicable international standard certificates – ISO 9001 and CE certificates | C | | |
| | Warranty | should provide a warranty for the entire equipment including UPS from the manufacturer for 2 years or more Maintenance of the equipment should be carried out every 06 months free of charge during the warranty period | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---------------|--------------------------|----------|-----------------------------|---------|
| 54 | Equipment | Shaking Incubator | | | |
| | Make | (Please specify) | | | |

| | | | | | |
|--|---|---|------------------|--|--|
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | Ideal for the cultivation of cell & and tissue cultures or microorganisms, molecular biology studies. Space saving with a transparent window in the front which provides good visibility that minimizes the need to open the chamber, Min. noise & no vibration, max. load 20kg Automatic stop shaking, when the door is opened Auto restart after power failure. | C C C C | | |
| | Power requirement | 220-240 VAC, ~50 Hz Should provide a suitable UPS with a minimum of 15 minutes backup plan | C C | | |
| | Energy consumption (in normal operation, fans on, lights on) | 600 W | C | | |
| | Door Type Flip-up door | Flip-up door | C | | |
| | Temp. range | Ambient + 4°C~70°C | | | |
| | Temp. Accuracy/Uniformity | ±0.1°C / ±0.5°C at 37°C | C | | |
| | Speed/Temp. control | PID | C | | |
| | Temp. Display | LED | C | | |
| | Speed programmer | 20~250 rpm 9 steps of speed & direction of rotation | C | | |
| | Shaking Orbit | 25 mm | C | | |
| | Timer | 1 minute to 99 hours & and 99 minutes or continuous operation | C | | |
| | Volume Approximately | 65L | C | | |
| | Universal spring rack | Yes | C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |

| | | | | | |
|--|------------------|--|--------|--|--|
| | Standards | Should have to have applicable international standard certificates – ISO 9001 and CE certificates | C | | |
| | Warranty | should provide a warranty for the entire equipment for 2 years or more Maintenance of the equipment should be carried out every 06 months free of charge during the warranty period | C C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|----------------------------------|--|-----------------------|-----------------------------|---------|
| 55 | Equipment | Incubator | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | Inner bladder of mirror stainless steel, four corners rounded, easy for cleaning, space between shelves adjustable. Microcomputer-based smart controller, temperature control of high precision and reliability, protection against excessive temperature, sensor failure, creepage, over-current, etc., sound & light alarming, timing function. Forced hot air circulation design to ensure temperature uniformity in the operating chamber. Silicon rubber sealing and double-layer observation window, making observation easy. | C C C C C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Energy consumption | Approx. 1000 W | | | |
| | Stackable | Yes | C | | |
| | Chamber Volume | 120 L or better | C | | |
| | Temperature Range Ambient | +5°C to 80°C | C | | |
| | Temperature Stability | ±0.2°C or better | C | | |

| | | | | | |
|--|-----------------------------------|--|--------|--|--|
| | Display Resolution | 0.1 | C | | |
| | Uniformity at 37°C | +/-0.8 | C | | |
| | Heated to 37°C | 30min | C | | |
| | Test Hole | Yes, Ø5mm | C | | |
| | Max # of Shelves | 10 | C | | |
| | # of Shelves | 2 | C | | |
| | Max. Load per Shelf | 20Kg | C | | |
| | Internal Dimension (WxHxD) | 520×530×465(mm) (Approx) | C | | |
| | External Dimension (WxHxD) | 785×750×735(mm) (Approx) | C | | |
| | Timer | 1~9999 min/h or continuous | C | | |
| | Certification | EN 12469, NSF/ANSI 49 | C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |
| | Standards | Should have to have applicable international standard certificates - EN 12469, NSF/ANSI 49 | C | | |
| | Warranty | should provide a warranty for the entire equipment for 2 years or more Maintenance of the equipment should be carried out every 06 months free of charge during the warranty period | C C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|----------------|-----------------------------|---|-----------------|------------------------------------|----------------|
| 56 | Equipment | Hot Plate and Magnetic Stirrer | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | Hot plate material ceramic or SS with ceramic coating | C | | |

| | | | | | |
|--|-------------------------------------|---|-----------------------|--|--|
| | | Overheating protection Hot top warning system Stirring & heating indicators Protection class IP21 should be provided with rod and clamp for holding the temperature probe | C C C C C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Heating power | 1000 W | C | | |
| | Hot plate dimensions | 180x180 mm or better | C | | |
| | Stirring volume | > 15 L | C | | |
| | Motor | DC motor | C | | |
| | Speed range | 50-1100 rpm or better | C | | |
| | Max. magnetic bar length | 80mm | C | | |
| | Speed control | Analog/Digital | C | | |
| | Display | LCD display for temperature and speed | | | |
| | Temperature range | Room temperature – 500/600 °C or better | C | | |
| | Temperature control | Digital/ Analog | C | | |
| | External temperature probe | Yes (PT100) | C | | |
| | Temperature accuracy | ±2°C | C | | |
| | Temperature display accuracy | ±0.1°C | C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |
| | Standards | Should have to have applicable international standard certificates – ISO 9001 and CE certificates | C | | |

| | | | | | |
|--|-----------------|--|--------|--|--|
| | Warranty | should provide a warranty for the entire equipment for 2 years or more Maintenance of the equipment should be carried out every 06 months free of charge during the warranty period | C C | | |
|--|-----------------|--|--------|--|--|

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---|---|----------|-----------------------------|---------|
| 57 | Equipment | Water Bath | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | Internal circulating pump The water tank (inner bath) and lid should be SS-304 | C C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Energy consumption | 1000 W | C | | |
| | Capacity | 20 L or better | C | | |
| | Lid | Supplied with the lid with concentric rings (12 holes) | C | | |
| | Bath opening minimum (mm): | W400xD290xH150 | | | |
| | Temperature range: | ambient +5 up to 100 °C | C | | |
| | Digital PID temperature controller | + -0.1 °C | C | | |
| | Uniformity of Temperature: | + - 0.2 at 37 °C | C | | |
| | Flow Capacity: | 3.5L/minute or better | C | | |
| | Pump circulation speed approx: | 500 rpm/minute | C | | |
| | Heater approx.: | 1000 Watt | C | | |
| | Internal material: | Stainless steel | C | | |
| | External material: | Painted steel | C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |

| | | | | | |
|--|------------------|--|--------|--|--|
| | Standards | Should have to have applicable international standard certificates – ISO 9001 and CE certificates | C | | |
| | Warranty | should provide a warranty for the entire equipment for 2 years or more Maintenance of the equipment should be carried out every 06 months free of charge during the warranty period | C C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---|--|------------------|-----------------------------|---------|
| 58 | Equipment | pH Meter | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | It should include the meter, probe, electrode stand, standard buffers, storage solution. Meter should be water resistant to IP 42 standard It should have an LCD display with backlight It should have Automatic Temperature Compensation facility. | C C C C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | It should have automatic buffer recognition facility | with pH 2.00, 4.01, 7.00, 9.25 and 10.01 buffers. | C | | |
| | It should read parameters | pH, mV and Temperature | C | | |
| | It should be supplied with | Gel filled pH combination electrode (with temperature probe) | C | | |
| | The electrode cable length Should be | at least 1 meter. | C | | |
| | pH Range | 0 - 14 with 0.01 resolution. | C | | |
| | Accuracy | ±0.01 | C | | |
| | mV Rang Range: | ± 1999 mV with resolution 0.1 mV | C | | |

| | | | | | |
|--|---------------------------|--|---|--|--|
| | Temperature Range: | 0-80°C, with resolution 0.10 °C | C | | |
| | Accuracy | >0.3°C | C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |
| | Standards | Should have to have applicable international standard certificates – ISO 9001 and CE certificates | C | | |
| | Warranty | should provide a warranty for the entire equipment for 2 years or more Maintenance of the equipment should be carried out every 06 months free of charge during the warranty period | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|-----------|---|---|----------|-----------------------------|---------|
| 59 | Equipment | Vortex Mixer | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | Tough metal housing combined with enough weight to provide a stable platform for all types of mixing. | C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Variable speed control | 500-3000 or better | C | | |
| | Modes: | timer-hands free and touch-on | C | | |
| | Timer-hands free: | 1-60 minutes or continuous | C | | |
| | Pulse - ON/OFF: | 0.1 seconds - 60 minutes | C | | |
| | Platforms: | Tube head and Platform head (75 mm) | C | | |
| | Digital control and display of speed, time, and “RUN/STOP” time. | YES | C | | |
| | Capable to attach adaptors | Should be supplied with the adaptors for 1.5 ml, 15 ml , and 50 ml tubes | C | | |
| | Orbit | 4 mm or better | C | | |
| | Documentation | Manufacture product catalogues with the requested | C | | |

| | | | | | |
|--|------------------|--|--------|--|--|
| | | information | | | |
| | Standards | Should have to have applicable international standard certificates – ISO 9001 and CE certificates | C | | |
| | Warranty | should provide a warranty for the entire equipment for 2 years or more Maintenance of the equipment should be carried out every 06 months free of charge during the warranty period | C C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|-----------|--------------------------------|---|----------|-----------------------------|---------|
| 60 | Equipment | Sonicator | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | Suitable for lysing bacteria, yeast and tissue cells for the extraction of protein, DNA, RNA, and cellular components. Safety Features: Overload Protection, Noise Reduction (Acoustic enclosures or noise-dampening features to protect the user). | C C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Power Output: | 600W or better | C | | |
| | Frequency: | 20- 25 KHz | C | | |
| | Amplitude control: | 1-99% | C | | |
| | Programmability: | Parameters including processing time, pulse on/off and power output | C | | |
| | Programmable Timer: | 0-999 minutes | C | | |
| | Pulse mode: | Adjustable pulse On and Off times | C | | |
| | Temperature monitoring: | yes | C | | |
| | Probe Diameter: | 3 mm | C | | |
| | Probe Material: | Titanium | C | | |
| | Capacity: | 0.5 – 500 ml or better | C | | |
| | Documentation | Manufacture product catalogues with the requested | C | | |

| | | | | | |
|--|------------------|--|--------|--|--|
| | | information | | | |
| | Standards | Should have to have applicable international standard certificates – ISO 9001 and CE certificates | C | | |
| | Warranty | should provide a warranty for the entire equipment for 2 years or more Maintenance of the equipment should be carried out every 06 months free of charge during the warranty period | C C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|-----------|-----------------------------|---|----------|-----------------------------|---------|
| 61 | Equipment | Freezer -20°C | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | Refrigerant- R600a or equivalent (Environmental friendly) | C | | |
| | Power requirement | 220-240 VAC, ~50 Hz | C | | |
| | Power Consumption | 120W | C | | |
| | Capacity | 270L (Net) or better | C | | |
| | Compressor | Non-Inverter | C | | |
| | Number Of Doors | One | C | | |
| | Technology | Direct Cooling | C | | |
| | Door Type / Finish - | Hard top | C | | |
| | Interior Inner, | Number Of Door Compartments- One | C | | |
| | Door Lock | Yes | C | | |
| | Temperature | -18°C or better | C | | |
| | Climate Class | T | C | | |
| | Body Type | Pre-painted steel, | | | |
| | Outer Body Type | Powder coated finish | | | |
| | Condenser Type- | Inside | C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |

| | | | | | |
|--|---------------------------------|---|--------|--|--|
| | | Manufacture authorization for the bidder to represent them Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Local Agent should submit a letter from the manufacturer confirming spare parts availability for 5 years. | C C | | |
| | Standards | Should have to have applicable international standard certificates | | | |
| | Warranty | Local Agent should provide a warranty for the instrument from the manufacturer for 2 years or more. | | | |
| | Spare parts availability | | | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes / No) | Remarks |
|-----------|---------------------------------|---|----------|------------------------------|---------|
| 62 | Equipment | Class I Biosafety cabinet – BSL 1 | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country Of Manufacture | Please specify | C | | |
| | General | Provide a contained environment to handle and work with organisms that are generally considered safe and pose minimal risk and handle well-characterized agents not known to cause disease in healthy humans. This containment helps prevent accidental exposure to personnel and the release of infectious agents into the laboratory environment. The cabinet creates a physical barrier between the operator and the biological material being handled, minimizing the risk of inhalation or contact with samples. | | | |
| | Permissible relative humidity | 0.8 | | | |
| | Permissible ambient temperature | 5 – 40 °C | | | |
| | Power requirement | Power supply should be 220-230 V- 50/60 Hz with 2 internal electrical socket | C | | |
| | Filter | This unit should be with HEPA Filter, Efficiency: > 99.995% at particle size of 0.3 µm | C C | | |

| | | | | | |
|--|------------------------|---|--|--|--|
| | Control system | Digital display with easy mode operation should have audible and visual alarms Should display all safety information on one screen Selectable fast operation | C C C C | | |
| | Airflow | 0.2~0.5 m/s, Speed adjustable | C | | |
| | Safety height | 200 -305 mm | C | | |
| | Max Opening | ≤500 mm (≤20") | C | | |
| | Cabinet | Stainless steel (SS 304) internal side walls with antimicrobial Powder Coated outer walls Negative pressure system Brushed stainless steel work surface Cabinet should have water proof sockets x 2 HEPA filter base stand with four lockable caster wheels LED lamps- 4 W UV lamp (UV C 254 nm; approx. 20 W)-UV timer function, the display should indicate UV life Front window- 2-layer laminated glass | C C C C C C C C C C | | |
| | Size -Internal | 4 ft width, minimum 2 ft depth, and minimum 2.6 ft height for working area; Mention internal & external dimensions | C C | | |
| | Noise | ≤60 dB | C | | |
| | Visual and Audio Alarm | Abnormal airflow velocity, Filter replacement Front window at unsafe height High filter pressure alarm | C C C C | | |
| | Other requirements | <ul style="list-style-type: none"> • UV resistant, Transparent Front Door, which can be moved up and down without removing from the equipment and with stopping ability at the required heights • Auto switch on/off for U.V. Germicidal tube & LED light • Should be included as standard LED light with lighting >800 lux • Microprocessor controller | C C C C | | |

| | | | | | |
|--|---------------|---|---|--|--|
| | | <ul style="list-style-type: none"> Compatible online UPS with power stabilizing action to provide backup power for the equipment for a minimum of 15 minutes. | C | | |
| | Warranty | Comprehensive warranty for the entire system should be minimum of 3 years and for the UPS minimum of 2 years . Periodical maintenance should be (every 06 months) free of charge during comprehensive warranty period. | C | | |
| | Documentation | Original technical literature in English and relevant manufacturer catalogues should be provided with the offer | C | | |
| | Standards | Should have to have applicable international standard certificates: NSF/ANSI 49 or relevant ISO certificates (ISO 14644) and CE compliance | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes/No) | Remarks |
|-----------|---------------------------------|---|----------|----------------------------|---------|
| 63 | Equipment | Class II- A1 Biosafety Cabinet – BSL II | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country Of Manufacture | Please specify | C | | |
| | General | Provide a contained environment to handle and work with organisms that are generally considered safe and pose minimal risk and handle well-characterized agents not known to cause disease in healthy humans. This containment helps prevent accidental exposure to personnel and the release of infectious agents into the laboratory environment. The cabinet creates a physical barrier between the operator and the biological material being handled, minimizing the risk of inhalation or contact with samples. | | | |
| | Permissible relative humidity | 0.8 | | | |
| | Permissible ambient temperature | 5 – 40 °C | | | |

| | | | | | |
|--|------------------------|---|--|--|--|
| | Power requirement | Power supply should be 220-230 V- 50/60 Hz with 2 internal electrical sockets | C | | |
| | Filter | HEPA system; 99.995% at 0.1-0.3 micrometer | C | | |
| | Control system | User friendly digital display and operation audible and visual alarms Should display all safety information on one screen | C C C | | |
| | Airflow | Stable, despite building voltage fluctuations and filter loading, Adjustable | C | | |
| | Safety height | 200 -254 mm | C | | |
| | Max Opening | ≤500 mm (≤20") | C | | |
| | Cabinet | Stainless steel (SS 304) internal side walls with antimicrobial Powder Coated outer walls Negative pressure system Brushed stainless steel work surface Cabinet should have water proof sockets x 2 HEPA filter base stand with four lockable caster wheels LED lamps- 4 W UV lamp (UV C 254 nm; approx. 20 W)-UV timer function, the display should indicate UV life Front window- 2-layer laminated glass | C C C C C C C C C C | | |
| | Size | 4 ft width, minimum 2 ft depth, and minimum 2.6 ft height for working area; Mention internal & external dimensions | C C | | |
| | Noise | ≤67 dB | C | | |
| | Visual and Audio Alarm | Abnormal airflow velocity Filter replacement Front window at unsafe height High filter pressure alarm | C C C C | | |
| | Other requirements | <ul style="list-style-type: none"> UV resistant, Transparent Front Door, which can be moved up and down without removing from the equipment and with stopping ability at the required heights Auto switch on/off for U.V. Germicidal tube & LED light | C C | | |

| | | | | | |
|--|---------------|---|-------------|--|--|
| | | <ul style="list-style-type: none"> • Should be included as standard LED light with lighting >800 lux • Microprocessor controller • Compatible online UPS with power stabilizing action to provide backup power for the equipment for a minimum of 15 minutes. | C C C | | |
| | Warranty | Comprehensive warranty for the entire system should be minimum of 3 years and for the UPS minimum of 2 years . Periodical maintenance should be (every 06 months) free of charge during comprehensive warranty period. | C | | |
| | Documentation | Original technical literature in English and relevant manufacturer catalogues should be provided with the offer | C | | |
| | Standards | Should have to have applicable international standard certificates: NSF/ANSI 49 or relevant ISO certificates (ISO 14644) and CE compliance | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes / No) | Remarks |
|-----------|---------------------------------|---------------------------|----------|------------------------------|---------|
| 64 | Equipment | Vertical Autoclave | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country Of Manufacture | Please specify | C | | |
| | Permissible relative humidity | 0.8 | | | |
| | Permissible ambient temperature | 5 – 40 °C | | | |
| | Capacity | 200 L | C | | |
| | Chamber Volume | Approx. 500×1000 mm | | | |
| | Working sterilization pressure | 0.22MPa | C | | |
| | Max Safety Pressure | 0.23Mpa | | | |

| | | | | | |
|--|---------------------------------|--|---|--|--|
| | Sterilization Temperature Range | 105 to 134°C | C | | |
| | Heat average | ≤±1°C | C | | |
| | Accuracy of temperature display | 0.1°C | C | | |
| | Power input | 230 V - 50/60 Hz. | C | | |
| | Power Consumption | Approx. 6 kW | | | |
| | Display | LCD of working status, touch-type key | C | | |
| | Timer Range | 0-99min or 0-99hours 59min | C | | |
| | Overall Dimension | Approx. 650x650x1700mm | | | |
| | Door | Door safety interlock: The door cannot be opened until there is no pressure in the chamber and power for heating cannot be switched on until the door is firmly closed | C | | |
| | Safety Features | <ul style="list-style-type: none"> • Over-temperature, Over current protector and over-pressure auto-protection • Automatic air and steam discharge after sterilization • Auto discharge the cool air and stem discharge automatically after sterilization • Automatic shutdown with beep reminder after sterilization • Water level detection with program stops if below limit and Water outlet valve • Self-inflating type seal | C | | |
| | Construction | Fully stainless steel (304) structure, Handwheel type of quick-open door structure | C | | |
| | Accessories | Four stainless steel sterilization baskets | C | | |
| | Warranty and Support | Comprehensive warranty for the entire system for a minimum of 2 years or better Periodical maintenance should be conducted every 06 months free of charge during comprehensive warranty period | C | | |
| | Documentation | User manuals and other relevant documentation should be provided | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes / No) | Remarks |
|-----------|---------------------------------|---|----------|------------------------------|---------|
| 65 | Equipment | Orbital shaker | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of Manufacture | Please specify | C | | |
| | Platform | Platform with clamps for 12x100ml conical flask and Platform with clamps for 6x250ml conical flask | C | | |
| | Platform dimension | Approx. 270×230mm | | | |
| | Speed range | 50 -350rpm | C | | |
| | Shaking motion | Orbital | C | | |
| | Time range | 1min~99h59min | C | | |
| | Operation Type | Continuous /timed operation | C | | |
| | Time display | Error Code Display LED | C | | |
| | Speed display | Error Code Display LED | C | | |
| | Orbit | 10 mm | C | | |
| | Permissible ambient temperature | 5° - 40°C | | | |
| | Permissible relative humidity | 0.8 | | | |
| | Motor Type | DC Motor (Brushless) | C | | |
| | Power input | 230 V - 50/60 Hz. | C | | |
| | Power | 50 W | | | |
| | Max.load capacity | 2.5kg- 3.0kg | | | |
| | External Dimension (WxDxH) | Approx. 250×300×100mm | | | |
| | Protective class | IP 21 | C | | |
| | Alarm | Beep alarm when operation ends | C | | |
| | Warranty | Comprehensive warranty for the entire system for a minimum of 2 years or better Periodical maintenance should be conducted every 06 months free of charge during comprehensive warranty period | C | | |
| | Documentation | User manuals and other relevant documentation should be | C | | |

| | | | | | |
|--|--|----------|--|--|--|
| | | provided | | | |
|--|--|----------|--|--|--|

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes/No) | Remarks |
|-----------|---------------------------------|---|----------|----------------------------|---------|
| 66 | Equipment | Thermal Cycler | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of Manufacture | Please specify | C | | |
| | Grade | Research grade | C | | |
| | Reaction volume | 0-100µL | C | | |
| | Max sample throughput | 96 reactions | C | | |
| | Temperature range | 4 °C –100°C | C | | |
| | Temperature accuracy | ≤±0.5°C | C | | |
| | Temperature uniformity | <0.5°C | C | | |
| | Gradient capability | Yes | C | | |
| | Gradient range | 30 – 100 °C | C | | |
| | Gradient block | 12 row | C | | |
| | Temperature different range | 1- 25 °C | C | | |
| | Heating and cooling method | Peltier | C | | |
| | Lid | Heats up to 105 °C | C | | |
| | Sample capacity | 96 x 0.2 ml tubes, 1 x 96-well plate or 0.2 ml tube strips | C | | |
| | Thermo block | Alloy block | C | | |
| | Port | 1 USB A | C | | |
| | Display | LCD display and touch screen | C | | |
| | Permissible relative humidity | 0.8 | | | |
| | Power input | 230 V - 50/60 Hz. | C | | |
| | Permissible ambient temperature | 5° - 40°C | | | |
| | Memory | Minimum up to 500 protocols; unlimited with USB flash drive expansion | C | | |
| | Noise output | Idling: <50dBA | C | | |
| | | Operation: <60dBA | C | | |

| | | | | | |
|--|---------------------------|---|---|--|--|
| | Maximum ramp rate, °C/sec | ≤ 4 °C/sec | C | | |
| | Average ramp rate, °C/sec | ≤ 2.5 °C/sec | C | | |
| | Onboard software | Yes | C | | |
| | Instant incubation | Yes | C | | |
| | Dimensions(WxDxH) | Approx. 260mmx400mmx260mm | | | |
| | Weight | ≤15 kg | | | |
| | Warranty | Comprehensive warranty for a minimum of 3 years or better for the entire PCR system and 02 years for UPS system Periodical maintenance should be provided every 06 months free of charge during comprehensive warranty period. | C | | |
| | Documentation | User manuals and other relevant documentation should be provided | C | | |
| | Power Backup Requirements | The online UPS should be able to provide backup power for the equipment for a minimum of 120 minutes. | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes / No) | Remarks |
|-----------|------------------------|---|----------|------------------------------|---------|
| 67 | Equipment | Real Time PCR machine | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of Manufacture | Please specify | C | | |
| | Grade | Research grade | C | | |
| | Fluorescence Channels | 5 | C | | |
| | Dye Compatibility | Should be capable of detecting FAM, SYBR Green I , SYTO 9, Eva Green, LC Green, HEX, VIC, TET, JOE ,ROX, Texas Red, Cy5, and Quasar 705 | C | | |
| | Excitation | Filtered LED | C | | |
| | Excitation range | 450-730nm | C | | |
| | Detector | LED - filter Photodiodes (PDs), top scanning | C | | |
| | Detection Range | 510-730nm | C | | |

| | | | | | |
|--|----------------------------------|--|---|--|--|
| | Sensitivity | 1 copy | C | | |
| | Dynamic Range | 1-10 ¹⁰ Copies | C | | |
| | Fluorescence Dynamic Range | Adjustable | C | | |
| | Light Source | High-brightness, excitation from the top, long life and maintenance-free LED light source | C | | |
| | Reaction volume | 0-100µL | C | | |
| | Max sample throughput | 96 reactions | C | | |
| | Temperature range | 0/4 °C –100°C | C | | |
| | Temperature accuracy | ≤±0.2°C | C | | |
| | Temperature uniformity | <0.5°C | C | | |
| | Gradient capability | Yes | C | | |
| | Gradient range | 30 – 100 °C | C | | |
| | Gradient block | 12 row | C | | |
| | Temperature different range | 1- 25 °C | C | | |
| | Maximum ramp rate, °C/sec | ≤ 5 °C/sec | C | | |
| | Average ramp rate, °C/sec | ≤ 3 °C/sec | C | | |
| | Heating and cooling method | Peltier | C | | |
| | Lid | Heats up to 105 °C | C | | |
| | Display | LCD display and touch screen | C | | |
| | Permissible relative humidity | 0.8 | C | | |
| | Power input | 230 V - 50/60 Hz. | C | | |
| | Permissible ambient temperature | 5° - 40°C | C | | |
| | Sample capacity | 96 x 0.2 ml tubes, 1 x 96-well plate or 0.2 ml tube strips | C | | |
| | Thermo block | Alloy block | C | | |
| | Laptop for Real-Time PCR Machine | <p>Processor: Minimum Intel Core i5 11th Gen or better</p> <p>RAM: Minimum 8 GB of RAM to support multitasking and efficient software operation.</p> <p>Display: 14-inch or larger Full HD (1920x1080) display for clear visibility of data and analysis results.</p> <p>Connectivity: At least two USB 3.0 ports, one HDMI output for connecting to external monitors or projectors, and a high-speed Ethernet port or Wi-Fi for data transfer.</p> <p>Battery Life: Minimum 8 hours of battery life for portability during laboratory</p> <p>Ports and Expansion: At least 1 USB 3.0 or USB-C port, and an HDMI output, for easy connection to external</p> | C | | |

| | | | | | |
|--|---------------------------|--|---|--|--|
| | | devices and data input. Software Compatibility: Software must be pre-installed or able to support the software required to operate the real-time PCR machine along with original Windows. | | | |
| | Warranty | Comprehensive warranty for a minimum of 3 years or better for the entire PCR system and for laptop and UPS system for a minimum of 2 years Periodical maintenance should be provided every 06 months free of charge during comprehensive warranty period. | C | | |
| | Documentation | User manuals and other relevant documentation should be provided | C | | |
| | Power Backup Requirements | The online UPS should be able to provide backup power for the equipment for a minimum of 02 hours. | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes / No) | Remarks |
|-----------|---------------------------------|---|----------|------------------------------|---------|
| 68 | Equipment | Heating block | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of Manufacture | Please specify | C | | |
| | Type | Dry Bath/Block | C | | |
| | Temperature Accuracy | $\leq \pm 0.5^{\circ}\text{C}$ | C | | |
| | Timer | 0 to 99:59 min or continuous | C | | |
| | Permissible relative humidity | 0.8 | | | |
| | Power input | 220 V- 230 V - 50/60 Hz. | C | | |
| | Permissible ambient temperature | $5^{\circ} - 40^{\circ}\text{C}$ | | | |
| | Temperature stability | $\leq \pm 1^{\circ}\text{C}$ | C | | |
| | Temperature display | LED display | C | | |
| | Temperature homogeneity | at 37°C - 0.2K and at 60°C – 0.4K | C | | |
| | Temperature setting | Touch button | C | | |
| | Temperature setting range | $30\text{-}130^{\circ}\text{C}$ | C | | |
| | No. of Blocks | 2 interchangeable Aluminium blocks (for 1.5 mL/ | C | | |

| | | | | | |
|--|----------------------------|---|-------------|--|--|
| | | 2 mL microcentrifuge tubes and 0.5 mL PCR tubes 1.5 mL/ 2 mL = 20 holes 0.5 mL = 20 holes | C C C | | |
| | Max Dimensions (W x D x H) | 250 mm x 310 mm x 100 mm | C | | |
| | Characteristics | Front panel on/off switch, Slanted front control panel | C | | |
| | Warranty | Comprehensive warranty for a minimum of 2 years or better. Periodical maintenance should be done every 06 months free of charge during the comprehensive warranty period | C | | |
| | Accessories | Tube clips -100 each- compatible with the above tube sizes Power cable | C | | |
| | Documentation | User manuals and other relevant documentation should be provided | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes / No) | Remarks |
|-----------|----------------------------------|---|----------|------------------------------|---------|
| 69 | Equipment | Horizontal Gel Electrophoresis and Power Supply Unit – 08 wells | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of Manufacture | Please specify | C | | |
| | Gel casting tray | 4 gel casting trays (two trays each: 7 x 10 cm and 7 x 7 cm); UV transparent; tapeless gel casting; 2 Rubber gates; Loading strips | C | | |
| | Unit | Dimensions: Approx. : 9 x 20 x 9 cm | | | |
| | The gel box | Side tabs and pressure pads for easy, safe lid removal; Lid fits in only one direction; Protective electrode cassettes; should be moulded for leakproof performance and durability; corrosion-resistant platinum electrodes | C | | |
| | Buffer volume | ≤ 300 mL | | | |
| | Supplied combs | 4 (8 tooth) combs; two combs each: 1 mm thickness and 1.5 mm thickness; Combs with adjustable well depth; Max. samples: 32/64 | C | | |
| | Power input | 220 V - 230 V; 50/60 Hz. | C | | |
| | Power supply unit | | | | |
| | Output voltage range/ Increments | 5-300V/1V | C | | |

| | | | | | |
|--|---------------------------------|---|---|--|--|
| | Output current range/Increments | 4-500mA/1mA | C | | |
| | Operating constant modes | voltage or current | C | | |
| | Timer | 1-999 minutes or continuous | C | | |
| | Dimensions (W x D x H) | ≤ 20 x 25 x 10 cm | | | |
| | Characteristics | Power supply should be raised with the integral folding feet | | | |
| | Warranty | Comprehensive warranty for the entire system for a minimum of 2 years or better. Periodical maintenance should be conducted every 01 year free of charge during comprehensive warranty period. | C | | |
| | Documentation | User manuals and other relevant documentation should be provided. | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes / No) | Remarks |
|-----------|----------------------------------|--|----------|------------------------------|---------|
| 70 | Equipment | Horizontal Gel Electrophoresis and Power Supply Unit – 16 wells | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of Manufacture | Please specify | C | | |
| | Gel casting tray | 2 gel casting trays (15 x 10 cm); UV transparent; tapeless gel casting; 2 Rubber gates; Loading strips | C | | |
| | Unit | Dimensions: Approx. 18 x 27 x 10 cm | | | |
| | The gel box | Side tabs and pressure pads for easy, safe lid removal; Lid fits in only one direction; Protective electrode cassettes; should be molded for leakproof performance and durability; corrosion resistant platinum electrodes | C | | |
| | Buffer volume | Approx. 500 ml | | | |
| | Supplied combs | 2 (16 tooth) and 2 (20 tooth/28 tooth); 1.5 mm thick; Combs with adjustable well depth; Max. samples: 32 | C | | |
| | Power input | 220 V- 230 V - 50/60 Hz. | C | | |
| | Power supply unit | | | | |
| | Output voltage range/Increments | 5-300V/1V | C | | |
| | Output current range/ Increments | 4-500mA/1mA | C | | |
| | Operating constant modes | voltage or current | C | | |
| | Timer | 1-999 minutes or continuous | C | | |

| | | | | | |
|--|------------------------|---|---|--|--|
| | Dimensions (W x D x H) | ≤ 20 x 25 x 10 cm | | | |
| | Characteristics | Power supply should be raised with the integral folding feet | | | |
| | Warranty | Comprehensive warranty for the entire system for a minimum of 2 years or better Periodical maintenance should be conducted every 01 year free of charge during comprehensive warranty period | C | | |
| | Documentation | User manuals and other relevant documentation should be provided | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes/No) | Remarks |
|-----------|------------------------|--|----------|----------------------------|---------|
| 71 | Equipment | PCR Cabinet | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of Manufacture | Please specify | C | | |
| | Work Surface Height | ≥750 mm | C | | |
| | Max Opening | Motorized; 300 – 320 mm | C | | |
| | Pre-filter | Polyester fiber, washable | C | | |
| | HEPA Filter | 99.999% efficiency at 0.3μm | C | | |
| | Noise | ≤65dB | C | | |
| | Airflow Velocity | 0.3-0.5m/s, speed adjustable | C | | |
| | Material | Main Body: Cold-rolled steel with anti-bacterial powder coating Work Table: 304 stainless steel | C | | |
| | Front & Side Windows | 5mm toughened glass, anti-UV; Motorized | C | | |
| | Shelf with IV bar | Stainless steel, 500x150x50mm | C | | |
| | Caster | Universal caster with levelling feet | C | | |
| | Illumination Lamp | <10 W x 2 | C | | |
| | Illumination | ≥800 lx | C | | |
| | Waterproof Socket | Two, total load ≤500W | C | | |
| | UV lamp | 20 W | C | | |
| | Power consumption | <500 W | C | | |

| | | | | | |
|--|-----------------------|--|---|--|--|
| | Power input | 230 V - 50/60 Hz. | C | | |
| | Standard Accessory | UV lamp, Fluorescent lamp, Waterproof sockets x2, Shelf with IV bar, Base stand | C | | |
| | External Size (WxDxH) | Approx. 800x700x1800mm | | | |
| | Internal Size (WxDxH) | Approx. 700x600x500mm | | | |
| | Power backup | Suitable online UPS with the capability of 15 min backup time | | | |
| | Warranty | Comprehensive warranty for the entire unit including the UPS for a minimum of 2 years Periodical maintenance (every 06 months) free of charge during comprehensive warranty period. | C | | |
| | Documentation | User manuals and other relevant documentation should be provided User reference list should be attached Should mention catalogue number, manufacturer and authorized dealer in the quotation | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------------|---|----------|-----------------------------|---------|
| 72 | Equipment | Micropipettes 0.1 - 2.0 µL | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Autoclave | Fully autoclavable at 121°C for 20 minutes | C | | |
| | Construction | Single Channel Pipettes Adjustable-volume micropipettes Digital Volume setting UV resistant | C | | |
| | | Resin material of ejector pipe could enhance high tolerance to the solvents and prevent damaging to the glasses | C | | |

| | | | | | |
|--|-------------------------------|--|---|--|--|
| | | Pipette should be able to dispense liquids which have smaller molecular weight without any residue adhere to tip's inside wall Longer second - push stroke | | | |
| | | PTFE (Fluorine resin) in the airtight chamber of the pipette Easy single hand lock lever Pipette should be non greasing type Pipette should be with Hyper Blower System Compatible for universal tip sizes | C | | |
| | Increments(µL) | 0.002 | | | |
| | Accuracy and precision | Indicate the accuracy of the quoted model according to each referenced volume Indicate the precision of the quoted model according to each referenced volume | C | | |
| | Plunger materials | Plunger materials should be ceramic for chemical resistant, corrosion proof and abrasive | C | | |
| | Documentation | All the specifications required should be mentioned in the original literatures. Manufacture authorization for the bidder to represent them Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Attach the list of user references Attached major consuming spare parts list and prices | C | | |
| | Warranty | Minimum warranty period – 3 years | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---------------|-------------|----------|-----------------------------|---------|
|---------|---------------|-------------|----------|-----------------------------|---------|

| | | | | | |
|----|-------------------------------|--|---|--|--|
| 73 | Equipment | Micropipettes 0.5 - 10 µL | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Autoclave | Fully autoclavable at 121°C for 20 minutes | C | | |
| | Construction | Single Channel Pipettes Adjustable-volume micropipettes Digital Volume setting UV resistant | C | | |
| | | Resin material of ejector pipe could enhance high tolerance to the solvents and prevent damaging to the glasses Pipette should be able to dispense liquids which have smaller molecular weight without any residue adhere to tip's inside wall Longer second - push stroke | C | | |
| | | PTFE (Fluorine resin) in the airtight chamber of the pipette Easy single hand lock lever Pipette should be non greasing type Pipette should be with Hyper Blower System Compatible for universal tip sizes | C | | |
| | Increments(µL) | 0.01 | | | |
| | Accuracy and precision | Indicate the accuracy of the quoted model according to each referenced volume Indicate the precision of the quoted model according to each referenced volume | C | | |
| | Plunger materials | Plunger materials should be ceramic for chemical resistant, corrosion proof and abrasive | C | | |
| | Documentation | All the specifications required should be mentioned in the original literatures. Manufacture authorization for the bidder to represent them | C | | |

| | | | | | |
|--|-----------------|--|---|--|--|
| | | Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Attach the list of user references Attached major consuming spare parts list and prices | | | |
| | Warranty | Minimum warranty period - 3 years | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------------|--|----------|-----------------------------|---------|
| 74 | Equipment | Micropipettes 2.0 - 20 µL | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Autoclave | Fully autoclavable at 121°C for 20 minutes | C | | |
| | Body | Single Channel Pipettes Adjustable-volume micropipettes Digital Volume setting UV resistant | C | | |
| | | Resin material of ejector pipe could enhance high tolerance to the solvents and prevent damaging to the glasses Pipette should be able to dispense liquids which have smaller molecular weight without any residue adhere to tip's inside wall Longer second - push stroke | C | | |
| | | PTFE (Fluorine resin) in the airtight chamber of the pipette Easy single hand lock lever Pipette should be non greasing type Pipette should be with Hyper Blower System Compatible for universal tip sizes | C | | |

| | | | | | |
|--|--------------------------------------|--|---|--|--|
| | Increments(μL) | 0.02 | | | |
| | Accuracy and precision | Indicate the accuracy of the quoted model according to each referenced volume Indicate the precision of the quoted model according to each referenced volume | C | | |
| | Plunger materials | Plunger materials should be ceramic for chemical resistant, corrosion proof and abrasive | C | | |
| | Documentation | All the specifications required should be mentioned in the original literatures. Manufacture authorization for the bidder to represent them Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Attach the list of user references Attached major consuming spare parts list and prices | C | | |
| | Warranty | Minimum warranty period - 3 years | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------------|--|----------|-----------------------------|---------|
| 75 | Equipment | Micropipettes 10 - 100 μL | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Autoclave | Fully autoclavable at 121 ^o C for 20 minutes | C | | |
| | Body | Single Channel Pipettes Adjustable-volume micropipettes | C | | |

| | | | | | |
|--|--------------------------------------|--|---|--|--|
| | | Digital Volume setting UV resistant | | | |
| | | Resin material of ejector pipe could enhance high tolerance to the solvents and prevent damaging to the glasses Pipette should be able to dispense liquids which have smaller molecular weight without any residue adhere to tip's inside wall Longer second - push stroke | C | | |
| | | PTFE (Fluorine resin) in the airtight chamber of the pipette Easy single hand lock lever Pipette should be non greasing type Pipette should be with Hyper Blower System Compatible for universal tip sizes | C | | |
| | Increments(μL) | 0.1 | | | |
| | Accuracy and precision | Indicate the accuracy of the quoted model according to each referenced volume Indicate the precision of the quoted model according to each referenced volume | C | | |
| | Plunger materials | Plunger materials should be ceramic for chemical resistant, corrosion proof and abrasive | C | | |
| | Documentation | All the specifications required should be mentioned in the original literatures. Manufacture authorization for the bidder to represent them Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Attach the list of user references Attached major consuming spare parts list and prices | C | | |
| | Warranty | Minimum warranty period - 3 years | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|--------------------------------------|--|----------|-----------------------------|---------|
| 76 | Equipment | Micropipettes 20 - 200 μL | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Autoclave | Fully autoclavable at 121 ^o C for 20 minutes | C | | |
| | Body | Single Channel Pipettes Adjustable-volume micropipettes Digital Volume setting UV resistant | C | | |
| | | Resin material of ejector pipe could enhance high tolerance to the solvents and prevent damaging to the glasses Pipette should be able to dispense liquids which have smaller molecular weight without any residue adhere to tip's inside wall Longer second - push stroke | C | | |
| | | PTFE (Fluorine resin) in the airtight chamber of the pipette Easy single hand lock lever Pipette should be non greasing type Pipette should be with Hyper Blower System Compatible for universal tip sizes | C | | |
| | Increments(μL) | 0.2 | | | |
| | Accuracy and precision | Indicate the accuracy of the quoted model according to each referenced volume Indicate the precision of the quoted model according to each referenced volume | C | | |

| | | | | | |
|--|--------------------------|--|---|--|--|
| | Plunger materials | Plunger materials should be ceramic for chemical resistant, corrosion proof and abrasive | C | | |
| | Documentation | All the specifications required should be mentioned in the original literatures. Manufacture authorization for the bidder to represent them Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Attach the list of user references Attached major consuming spare parts list and prices | C | | |
| | Warranty | Minimum warranty period – 3 years | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------------|--|----------|-----------------------------|---------|
| 77 | Equipment | Micropipettes 100 -1000 µL | | | |
| | Make | (Please specify) | C | | |
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Autoclave | Fully autoclavable at 121°C for 20 minutes | C | | |
| | Body | Single Channel Pipettes Adjustable-volume micropipettes Digital Volume setting UV resistant | C | | |
| | | Resin material of ejector pipe could enhance high tolerance to the solvents and prevent damaging to the glasses Pipette should be able to dispense liquids which have smaller molecular weight without any residue adhere to tip's inside wall Longer second - push stroke | C | | |

| | | | | | |
|--|--------------------------------------|--|---|--|--|
| | | PTFE (Fluorine resin) in the airtight chamber of the pipette Easy single hand lock lever Pipette should be non greasing type Pipette should be with Hyper Blower System Compatible for universal tip sizes | C | | |
| | Increments(μL) | 1 | | | |
| | Accuracy and precision | Indicate the accuracy of the quoted model according to each referenced volume Indicate the precision of the quoted model according to each referenced volume | C | | |
| | Plunger materials | Plunger materials should be ceramic for chemical resistant, corrosion proof and abrasive | C | | |
| | Documentation | All the specifications required should be mentioned in the original literatures. Manufacture authorization for the bidder to represent them Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Attach the list of user references Attached major consuming spare parts list and prices | C | | |
| | Warranty | Minimum warranty period – 3 years | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|------------------|--|----------|-----------------------------|---------|
| 78 | Equipment | Micropipettes 1000 -10000 μL | | | |
| | Make | (Please specify) | C | | |

| | | | | | |
|--|-------------------------------|--|---|--|--|
| | Model and Model year | (Please specify) | C | | |
| | Country of origin | (Please specify) | C | | |
| | Autoclave | Fully autoclavable at 121°C for 20 minutes | C | | |
| | Body | Single Channel Pipettes Adjustable-volume micropipettes Digital Volume setting UV resistant | C | | |
| | | Resin material of ejector pipe could enhance high tolerance to the solvents and prevent damaging to the glasses Pipette should be able to dispense liquids which have smaller molecular weight without any residue adhere to tip's inside wall Longer second - push stroke | C | | |
| | | PTFE (Fluorine resin) in the airtight chamber of the pipette Easy single hand lock lever Pipette should be non greasing type Pipette should be with Hyper Blower System Compatible for universal tip sizes | C | | |
| | Increments(µL) | 10 | | | |
| | Accuracy and precision | Indicate the accuracy of the quoted model according to each referenced volume Indicate the precision of the quoted model according to each referenced volume | C | | |
| | Plunger materials | Plunger materials should be ceramic for chemical resistant, corrosion proof and abrasive | C | | |
| | Documentation | All the specifications required should be mentioned in the original literatures. Manufacture authorization for the bidder to represent them | C | | |

| | | | | | |
|--|-----------------|--|---|--|--|
| | | Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Attach the list of user references Attached major consuming spare parts list and prices | | | |
| | Warranty | Minimum warranty period - 3 years | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------------|---|-------------|-----------------------------|---------|
| 79 | Equipment | High-precision digital thermometer | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | A high-precision digital thermometer with external detachable probe designed for laboratory applications, ensuring accurate and reliable temperature measurements in biopharmaceutical and research environments. The device should be suitable for monitoring temperature in various laboratory processes. | | | |
| | Power requirement | Battery Type: should provide rechargeable batteries Battery Life: Up to 1000 hours of continuous use Voltage: 3V DC | C C C | | |
| | Temperature Range: | -50°C to ~ 200°C Accuracy: ±0.5°C (within -10°C to 100°C), ±1°C (beyond this range) Resolution: 0.1°C | C C C | | |

| | | | | | |
|--|--------------------|--|---|--|--|
| | | Response Time: ≤3 seconds | C | | |
| | | Measurement Units: Celsius (°C) and Fahrenheit (°F) | C | | |
| | | Sensor Type: Thermocouple or better advanced | C | | |
| | Display & Controls | Display Type: large LCD with backlight | C | | |
| | | Control Type: Push buttons for unit selection, hold function, and calibration | C | | |
| | | Data Hold Function: Available | C | | |
| | Build & Material | Body Material: excellent material resistant to chemical and heat | C | | |
| | | Probe Material: Stainless steel (304 or 316 grade) or better suitable than stainless steel | C | | |
| | | Cable Length: 1m | C | | |
| | | IP Rating: IP65 (dust and water-resistant) | C | | |
| | Accessories | Temperature Probe (detachable) - 1 included | C | | |
| | | Should be provided with rechargeable batteries and a charger | C | | |
| | | Protective Carry Case | C | | |
| | | Calibration Certificate | C | | |
| | | User Manual & Warranty Card | C | | |
| | Safety Features: | Over-temperature warning | C | | |
| | | Low battery indicator | C | | |
| | | Anti-slip grip for secure handling | C | | |
| | | Shock-resistant casing | C | | |
| | Application Areas: | Pharmaceutical and biopharma R&D | C | | |
| | | Chemical and analytical laboratories | | | |
| | | Food and beverage industry quality control | | | |
| | | Environmental monitoring | | | |

| | | | | | |
|--|----------------------|--|---|--|--|
| | Documentation | Manufacture product catalogues with the requested information | C | | |
| | Standards | Should have to have applicable international standard certificates, ISO 9001, CE, RoHS, and GMP compliance | C | | |
| | Warranty | Local Agent should provide a warranty for the instrument from the manufacturer for 2 years or more. | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|-----------------------------|--|------------------|---------------------------|---------|
| 80 | Equipment | Rotatory evaporator | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General | A rotary evaporator designed for efficient and precise evaporation, concentration, and solvent recovery in biopharmaceutical laboratory applications. The equipment should ensure high performance, safety, and reliability for research and production processes. | | | |
| | Evaporation System | Evaporation Flask (24/29) Volume: 1000 ml and 2000 ml Receiving Flask (24/29) Volume: 1000 ml and 2000 ml Rotary Speed Range: 20-280 RPM Bath Temperature Range: Room temperature to 180°C or above Temperature Control Accuracy: Water: ±1°C, Oil: ±3°C | C C C C | | |

| | | | | | |
|--|---------------------|--|--|--|--|
| | | <p>Heating Power: 1300W or better</p> <p>Material of Water/Oil Bath: chemical resistant Stainless steel or equivalent</p> <p>5L heating bath with switchable water/oil heating mode</p> <p>Overheating Protection Temperature: 220°C</p> | <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> | | |
| | Vacuum System | <p>Ultimate Vacuum: ≤ 1 mbar</p> <p>Vacuum Control: Digital or analog adjustable control</p> <p>Vacuum Pump Compatibility: Chemical-resistant diaphragm pump (optional)</p> | <p>C</p> <p>C</p> <p>C</p> | | |
| | Condensation System | <p>Condenser Type: Vertical or diagonal double helix glass coil</p> <p>Cooling Surface Area: 1500 cm² or higher</p> <p>Cooling Medium: Water, dry ice, or other compatible refrigerants</p> | <p>C</p> <p>C</p> <p>C</p> | | |
| | Display | <p>Display Type: LCD display (speed, temperature, time, etc)</p> <p>Rotation Direction: Clockwise and Anti-clockwise</p> <p>Timer: Time Setting Range: 1-999 min, Interval Time Setting Range: 1~999s</p> | <p>C</p> <p>C</p> <p>C</p> | | |
| | Build & Material | <p>Frame Material: High-quality stainless steel or better</p> <p>Glass Components: High-borosilicate glass (chemical-resistant, should provide details for this)</p> <p>Protection Features: PTFE or better sealing for solvent resistance</p> <p>Weight: ~ 15 - 25 kg</p> | <p>C</p> <p>C</p> <p>C</p> <p>C</p> | | |

| | | | | | |
|--|----------------------|--|-----------------------|--|--|
| | Safety Features | Over-temperature protection Overload and short-circuit protection Auto-lift mechanism to prevent flask breakage Emergency stop function Non-slip rubber feet for stability | C C C C C | | |
| | Application Areas: | Pharmaceutical and biopharma R&D Chemical and analytical laboratories | C | | |
| | Warranty & Support: | Warranty period for the whole unit should be a minimum 2-years and maintenance of the equipment should be provided every 06 months free of charge during the warranty period | C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|-----------------------------|---|----------|-----------------------------|---------|
| 81 | Equipment | A reflux apparatus | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General Description | A reflux apparatus designed for continuous heating and condensation of solvents to facilitate efficient chemical reactions. | | | |

| | | | | | |
|---------------------|---|---|--|--|--|
| | | Suitable for biopharmaceutical, analytical, and research applications requiring controlled and sustained reflux conditions. | | | |
| Reflux System | Material: High-quality borosilicate glass (chemical-resistant, 3.3, class A) Flask Capacity: Flask (24/29): 5000 mL Glass Joints: Standard ground glass joints for secure assembly Number of Units: Single or multi-unit configurations available | C C C C | | | |
| Heating System | Heating Method: Electric heating mantle Temperature Range: Ambient to 450°C Temperature Control: Digital thermostat with $\pm 1^\circ\text{C}$ accuracy Outer Casing: Chemical-resistant, powder-coated metal/aluminum body Heating Chamber: Fiberglass insulation for uniform heat distribution Flask Compatibility: Round-bottom flasks (50 mL to 5000 mL) with suitable clamps or adjusters Control Type: Variable heat control knob or digital keypad | C C C C C C C | | | |
| Condensation System | Condenser Type: Liebig coil condenser for efficient cooling: 40 cm Cooling Medium: Water circulation system Condensation Surface Area: Optimized for effective solvent recovery | C C C | | | |
| Safety & Compliance | Safety Features: Over-temperature protection, fume extraction compatibility Voltage: 220-240V AC, 50/60 Hz (compatible with Sri Lanka power standards) Plug Type: Sri Lanka standard three-pin plug Compliance: ISO 9001, and CE | C C C C | | | |
| Accessories | Round-bottom Flask (Borosilicate Glass) - 1 included per unit Condenser Unit - 1 included | C C | | | |

| | | | | | |
|--|---------------------|--|----------------------------|--|--|
| | | Heating Mantle or Water/Oil Bath (based on model) Stand and Clamps All tubings and joints User Manual & Warranty Card Suitable thermometer | C C C C C | | |
| | Safety Features | Over-temperature and overload protection Secure glassware locking system Auto-shutoff heating function Chemical-resistant glass and seals Short circuits and overload protection Non-slip rubber feet for stability | C C C C C C | | |
| | Application Areas | Pharmaceutical and biopharma R&D Environmental and chemical research Organic synthesis and reaction studies Research and industrial laboratories | C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |
| | Warranty & Support: | Minimum 2-year warranty for the whole unit | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes / No) | Remarks |
|---------|---------------|-----------------------------|----------|-----------------------------|---------|
| 82 | Equipment | Vacuum Filtration Apparatus | | | |

| | | | | | |
|--|---------------------------------|--|----------------------------|--|--|
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General Overview | Function: Used for separating solid-liquid mixtures under reduced pressure to enhance filtration efficiency. Applications: Suitable for laboratory filtration of suspensions, crystallization processes, microbiological analysis, and chemical synthesis. | | | |
| | Material: | Borosilicate glass, stainless steel, and PTFE components for chemical resistance and durability. | C | | |
| | Applications | Suitable for laboratory filtration of suspensions, crystallization processes, microbiological analysis, and chemical synthesis. | C | | |
| | Buchner Funnel | Made from porcelain or better. Available in diameters: ~ 90 mm (custom sizes available). Features a perforated plate for even distribution of filter paper. Comes with a standard ground glass joint for secure sealing. Resistant to acids and solvents. Available with fixed or removable filter plates. | C C C C C C | | |
| | Filtration Flask (Vacuum Flask) | Constructed from thick-walled borosilicate glass for vacuum applications. Capacity: 1000 mL, Designed with a standard ground glass joint or reinforced hose connection. Includes a sidearm made of glass or metal with a hose barb for secure vacuum tubing connection. Resistant to high vacuum pressures. Graduation markings for volume measurement. | C C C C C C | | |

| | | | | |
|----------------------------|---|---|--|--|
| Rubber Stopper | <p>Made from high-quality rubber or silicone.</p> <p>Available in various sizes to fit Buchner funnel and filtration flask (custom fit available).</p> <p>Pre-drilled hole for smooth airflow.</p> <p>Chemically resistant and durable.</p> | <p>C</p> <p>C</p> <p>C</p> <p>C</p> | | |
| Vacuum Pump | <p>Electric diaphragm pump</p> <p>Power rating: 220V, 50/60 Hz</p> <p>Capable of achieving a maximum vacuum of -0.1 MPa or better.</p> <p>Offers a flow rate of 5-20 L/min or suitable</p> <p>Oil-free and maintenance-free options available.</p> <p>Equipped with a built-in pressure gauge for vacuum control.</p> | <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> | | |
| Vacuum Tubing | <p>Manufactured from flexible and durable silicone or rubber.</p> <p>Inner diameter compatible with vacuum flask and pump</p> <p>Standard tubing length is 1.5 m,</p> <p>Resistant to vacuum collapse and designed for high durability</p> | <p>C</p> <p>C</p> <p>C</p> <p>C</p> | | |
| Performance Specifications | <p>Provides fast filtration with vacuum-assisted pressure.</p> <p>Capable of achieving a maximum vacuum of -0.1 MPa</p> <p>Glass components can withstand temperatures up to 500°C.</p> <p>Highly resistant to acids, bases, and organic solvents.</p> <p>Leak-proof ground glass joints and hose connections ensure a secure seal.</p> | <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> | | |
| Safety Considerations | <p>The vacuum flask is designed with thick-walled glass to prevent implosions under vacuum.</p> <p>The apparatus is chemically resistant and compatible with most organic solvents and acids.</p> | <p>C</p> <p>C</p> | | |

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|--|--------------------------|--|--------|--|--|
| | | Secure connections, including clamps and seals, prevent leaks. A pressure gauge for controlled vacuum operation. | C C | | |
| | Packaging and Shipping | Glass components are securely padded for protection during transport. Vacuum pumps are vacuum sealed for safety. | C C | | |
| | Warranty and Maintenance | Comes with a warranty of minimum 2 years for the whole unit Vacuum tubing and seals should be periodically (every 06 months free of charge during the warranty period) inspected for wear. Pump components may need lubrication if required. | C C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |

| Item No | Specification | Requirement | Priority | Bidders Response (Yes/No) | Remarks |
|---------|-----------------------------|---|----------|---------------------------|---------|
| 83 | Equipment | High-Speed Homogenizer | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | General Overview | Function: Used for emulsification, dispersion, and homogenization of liquid-liquid or solid-liquid mixtures at high speeds. | | | |
| | Material | Stainless steel (SS 304/SS 316) for rotor-stator components | C | | |
| | Applications | Suitable for pharmaceutical, biotechnology, food, cosmetics, and chemical laboratories | | | |
| | Motor Unit | High-performance brushless or AC motor. Power rating: approx. 500 W | C | | |

| | | | | | |
|--|----------------------------|---|-----------------------|--|--|
| | | Speed range: 500 to 35,000 RPM (variable speed control) or better. Digital display for speed monitoring Overload protection for motor safety. | C C C C | | |
| | Rotor-Stator Assembly | Rotor diameters (6 mm, 10 mm, 20 mm, 30 mm, 50 mm). High shear forces enable efficient homogenization. Easy to dismantle for cleaning and maintenance. | C C C | | |
| | Homogenizing Shaft | Made of stainless steel or PTFE-coated material for chemical resistance. Immersion depth: 40 mm to 170 mm or better Compatible with various rotor-stator sizes Designed for easy attachment to the motor unit. | C C C C | | |
| | Speed Control Mechanism | Manual or digital speed adjustment. Stepless variable speed regulation for precise control. Digital models include an LED or LCD display. | C C | | |
| | Sample Volume Capacity | Suitable for a wide range of sample volumes: <ul style="list-style-type: none"> • 500 mL – 20 L. | C | | |
| | Cooling System (Optional) | Air-cooled or water-cooled motor housing for prolonged operation. Prevents overheating during continuous usage. | | | |
| | Performance Specifications | Speed range adjustable between 3,000 and 35,000 RPM. Capable of processing viscosities up to 10,000 cP. Homogenization efficiency: Reduces particle size to below 1 μ m. Noise level: \leq 65 dB for quiet operation. Operates in a temperature range of 5°C to 50°C. | C C C C C | | |
| | Safety Considerations | Overload protection prevents motor burnout. Secure mounting stand to ensure stability during operation. Safety interlock system | C C | | |

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|--|--------------------------|--|--------|--|--|
| | | Compliance with CE, and ISO standards. | C | | |
| | Warranty and Maintenance | Warranty period: minimum 3 years for the whole system, Maintenance of the equipment should be every 06 months free of charge during the warranty period | C C | | |
| | Documentation | Manufacture product catalogues with the requested information | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes/No) | Remarks |
|-----------|--------------------------|---|----------|----------------------------|---------|
| 84 | Equipment | UV Sterilizer (Mini) | | | |
| | Make | Please specify | C | | |
| | Model & Model Year | Please specify | C | | |
| | Country of Origin | Please specify | C | | |
| | UV Bulbs: | 6 x 4W | | | |
| | UV Wavelength: | 254nm | C | | |
| | UV Intensity: | +500 μ W/cm ² | | | |
| | UV Dosage: | 600mJ/cm ² | C | | |
| | UV Timer: | 5-20 min. | C | | |
| | Heater Timer: | 30 -120 min. | | | |
| | Heater Temp: | 55° C | | | |
| | Internal Dims | 8.5x10.1x12.2 in / 21.6x25.6x31.8 cm or higher | | | |
| | External Dims | 11.5x10.5x15.7 in / 29.2x26.7x40 cm or higher | | | |
| | Max. Height | 30 cm | | | |
| | Shelf Dims | 10 x 8 in / 25.4 x 20.3 cm | | | |
| | Shelf Material | Choose 2 Stainless steel wire (Incl). 1 UV-C transparent | | | |
| | Warranty and maintenance | Warranty period for the whole unit should be a minimum of 2 years | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes/No) | Remarks |
|---------|-------------------------------|--|----------|----------------------------|---------|
| 85 | Equipment | Micropipettes 0.5 - 10 µL | | | |
| | Make | (Please specify) | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Autoclave | Fully autoclavable at 121°C for 20 minutes | C | | |
| | Construction | 8 Channel Micropipettes Adjustable-volume micropipettes Digital Volume setting UV resistant | C | | |
| | | Resin material of ejector pipe could enhance high tolerance to the solvents and prevent damaging to the glasses Pipette should be able to dispense liquids which have smaller molecular weight without any residue adhere to tip's inside wall Longer second - push stroke | C | | |
| | | PTFE (Fluorine resin) in the airtight chamber of the pipette Easy single hand lock lever Pipette should be non greasing type Pipette should be with Hyper Blower System Compatible for universal tip sizes | C | | |
| | Increments(µL) | 0.01 | | | |
| | Accuracy and precision | Indicate the accuracy of the quoted model according to each referenced volume Indicate the precision of the quoted model according to each referenced volume | C | | |
| | Plunger materials | Plunger materials should be ceramic for chemical resistant, corrosion proof and abrasive | C | | |
| | Documentation | All the specifications required should be mentioned in the | C | | |

| | | | | | |
|--|-----------------|---|---|--|--|
| | | original literatures. Manufacture authorization for the bidder to represent them Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Attach the list of user references Attached major consuming spare parts list and prices | | | |
| | Warranty | Minimum warranty period - 3 years | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes / No) | Remarks |
|---------|-----------------------------|--|----------|------------------------------|---------|
| 86 | Equipment | Micropipettes 2.0 - 20 µL | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Autoclave | Fully autoclavable at 121°C for 20 minutes | C | | |
| | Body | 8 Channel Micropipettes Adjustable-volume micropipettes Digital Volume setting UV resistant | C | | |
| | | Resin material of ejector pipe could enhance high tolerance to the solvents and prevent damaging to the glasses Pipette should be able to dispense liquids which have smaller molecular weight without any residue adhere to tip's inside wall Longer second - push stroke | C | | |
| | | PTFE (Fluorine resin) in the airtight chamber of the pipette Easy single hand lock lever Pipette should be non greasing type Pipette should be with Hyper Blower System Compatible for universal tip sizes | C | | |

| | | | | | |
|--|--------------------------------------|--|---|--|--|
| | Increments(μL) | 0.02 | | | |
| | Accuracy and precision | Indicate the accuracy of the quoted model according to each referenced volume Indicate the precision of the quoted model according to each referenced volume | C | | |
| | Plunger materials | Plunger materials should be ceramic for chemical resistant, corrosion proof and abrasive | C | | |
| | Documentation | All the specifications required should be mentioned in the original literatures. Manufacture authorization for the bidder to represent them Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Attach the list of user references Attached major consuming spare parts list and prices | C | | |
| | Warranty | Minimum warranty period - 3 years | C | | |

| Item No | Specification | Requirement | Priority | Bidder's Response (Yes / No) | Remarks |
|---------|-----------------------------|---|----------|------------------------------|---------|
| 87 | Equipment | Micropipettes 20 - 200 μL | | | |
| | Make | (Please specify) | | | |
| | Model and Model year | (Please specify) | | | |
| | Country of origin | (Please specify) | | | |
| | Autoclave | Fully autoclavable at 121°C for 20 minutes | C | | |
| | Body | 8 Channel Micropipettes Adjustable-volume micropipettes Digital Volume setting UV resistant | C | | |
| | | Resin material of ejector pipe could enhance high tolerance to the solvents and prevent damaging to the glasses | C | | |

| | | | | | |
|--|-------------------------------|--|---|--|--|
| | | Pipette should be able to dispense liquids which have smaller molecular weight without any residue adhere to tip's inside wall Longer second - push stroke | | | |
| | | PTFE (Fluorine resin) in the airtight chamber of the pipette Easy single hand lock lever Pipette should be non greasing type Pipette should be with Hyper Blower System Compatible for universal tip sizes | C | | |
| | Increments(µL) | 0.2 | | | |
| | Accuracy and precision | Indicate the accuracy of the quoted model according to each referenced volume Indicate the precision of the quoted model according to each referenced volume | C | | |
| | Plunger materials | Plunger materials should be ceramic for chemical resistant, corrosion proof and abrasive | C | | |
| | Documentation | All the specifications required should be mentioned in the original literatures. Manufacture authorization for the bidder to represent them Bidder should have an excellent after sales facility with trained technicians and parts available locally to carry out any service/ repair immediately Attach the list of user references Attached major consuming spare parts list and prices | C | | |
| | Warranty | Minimum warranty period – 3 years | C | | |

Section VI. Conditions of Contract

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Conditions of Contract

1. Definitions
- 1.1 The following words and expressions shall have the meanings hereby assigned to them:
- (a) “Contract” means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
 - (b) “Contract Documents” means the documents listed in the Contract Agreement, including any amendments thereto.
 - (c) “Contract Price” means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
 - (d) “Day” means calendar day.
 - (e) “Completion” means the fulfillment of the supply of Goods to the destination specified and completion of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
 - (f) “CC” means the Conditions of Contract.
 - (g) “Goods” means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.
 - (h) “Purchaser” means the entity purchasing the Goods and Related Services, as specified in the Contract Data.
 - (i) “Related Services” means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.
 - (j) “Subcontractor” means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.

(k) “Supplier” means the natural person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.

(l) “The Project Site,” where applicable, means the place named in the Contract Data.

2. Contract Documents
2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

3. Fraud and Corruption
3.1 The Government of Sri Lanka requires the Purchaser as well as bidders, suppliers, contractors, and consultants to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy:

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

(ii) “fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;

(iii) “collusive practice” means a scheme or arrangement between two or more bidders, with or without the knowledge of the Purchaser to establish bid prices at artificial, noncompetitive levels; and

(iv) “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.

4. Interpretation
4.1 If the context so requires it, singular means plural and vice versa.

4.2 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether

written or oral) of the parties with respect thereto made prior to the date of Contract.

4.3 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.4 Severability

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 the Contract.

5. Language

5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in English language. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified, in which case, for purposes of interpretation of the Contract, this translation shall govern.

5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

6. Joint Venture, Consortium or Association

6.1 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 fulfillment 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.

7. Eligibility

7.1 All goods supplied under this contract shall be complied with applicable standards stipulated by the Sri Lanka Standards Institute. In the absence of such standards, the Goods supplied shall be complied to other internationally accepted standards, such as British Standards.

8. Notices

8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the Contract Data. The term "in writing" means communicated in written form with proof of receipt.

- 8.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.
9. Governing Law 9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Democratic Socialist Republic of Sri Lanka.
10. Settlement of Disputes 10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the Arbitration Act No:11 of 1995.
- 10.3 Notwithstanding any reference to arbitration herein,
- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
- (b) the Purchaser shall pay the Supplier any monies due the Supplier.
11. Scope of Supply 11.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.
12. Delivery and Documents 12.1 Subject to CC Sub-Clause 32.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. Where applicable the details of shipping and other documents to be furnished by the Supplier are specified in the Contract Data.
13. Supplier's Responsibilities 13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.
14. Contract Price 14.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not

vary from the prices quoted by the Supplier in its bid.

15. Terms of Payment

- 15.1 The Contract Price, shall be paid as specified in the Contract Data.
- 15.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to CC Clause 12 and upon fulfillment of all other obligations stipulated in the Contract.
- 15.3 Payments shall be made promptly by the Purchaser, but in no case later than twenty eight (28) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.

16. Taxes and Duties

- 16.1 The Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.

17. Performance Security

- 17.1 If required as specified in the Contract Data, the Supplier shall, within fourteen (14) days of the notification of contract award, provide a performance security of Ten percent (10%) of the Contract Price for the performance of the Contract.
- 17.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 17.3 As specified in the Contract Data, the Performance Security, if required, shall be in Sri Lanka Rupees and shall be in the format stipulated by the Purchaser in the Contract Data, or in another format acceptable to the Purchaser.
- 17.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations.

18. Copyright

- 18.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall

remain vested in such third party.

19. Confidential Information

19.1 The Purchaser and the Supplier 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 hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under CC Clause 19.

19.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.

19.3 The above provisions of CC Clause 19 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

19.4 The provisions of CC Clause 19 shall survive completion or termination, for whatever reason, of the Contract.

20. Subcontracting

20.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the bid. Such notification, in the original bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

20.2 Subcontracts shall comply with the provisions of CC Clauses 3 and 7.

21. Specifications and Standards

21.1 Technical Specifications and Drawings

(a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section V, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.

- (b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
- (c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with CC Clause 32.

22.1 The Supplier shall pack the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract.

22. Packing and Documents

23. Insurance 23.1 Unless otherwise specified in the Contract Data, the Goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery.

24. Transportation 24.1 Unless otherwise specified in the Contract Data, responsibility for arranging transportation of the Goods shall be a responsibility of the supplier.

25. Inspections and Tests 25.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the Contract Data.

25.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place as specified in the Contract Data. Subject to CC Sub-Clause 25.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.

25.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in CC Sub-Clause 25.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.

- 25.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
- 25.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.
- 25.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
- 25.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to CC Sub-Clause 25.4.
- 25.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to CC Sub-Clause 25.6, shall release the Supplier from any warranties or other obligations under the Contract.
- 26.1 Except as provided under CC Clause 31, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the Contract Data of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a

26. Liquidated Damages

maximum deduction of the percentage specified in those Contract Data. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to CC Clause 34.

27. Warranty

- 27.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 27.2 Subject to CC Sub-Clause 21.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- 27.3 Unless otherwise specified in the Contract Data, the 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 Data.
- 27.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 27.5 Upon receipt of such notice, the Supplier shall, within the period specified in the Contract Data, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 27.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the Contract Data, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

28. Patent Indemnity

- 28.1 The Supplier shall, subject to the Purchaser's compliance with CC Sub-Clause 28.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the

Contract by reason of:

- (a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and
- (b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

- 28.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in CC Sub-Clause 28.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.
- 28.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.
- 28.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.
- 28.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

29. Limitation of Liability

- 29.1 Except in cases of criminal negligence or willful misconduct,

- (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser and
- (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the purchaser with respect to patent infringement

30. Change in
Laws and
Regulations

30.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in Sri Lanka that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with CC Clause 14.

31. Force Majeure

31.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

31.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

31.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably

practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

32. Change Orders and Contract Amendments

32.1 The Purchaser may at any time order the Supplier through notice in accordance CC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- (b) the method of shipment or packing;
- (c) the place of delivery; and
- (d) the Related Services to be provided by the Supplier.

32.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Purchaser's change order.

32.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

32.4 Subject to the above, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

33. Extensions of Time

33.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to CC Clause 12, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

33.2 Except in case of Force Majeure, as provided under CC Clause 31, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the

Supplier liable to the imposition of liquidated damages pursuant to CC Clause 26, unless an extension of time is agreed upon, pursuant to CC Sub-Clause 33.1.

34. Termination

34.1 Termination for Default

- (a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:
 - (i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;
 - (ii) if the Supplier fails to perform any other obligation under the Contract; or
 - (iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to CC Clause 34.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

34.2 Termination for Insolvency.

- (a) The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser

34.3 Termination for Convenience.

- (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the

Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

- (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - (i) to have any portion completed and delivered at the Contract terms and prices; and/or
 - (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

35. Assignment

35.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

Section VII Contract Data

The following Contract Data shall supplement and / or amend the Conditions of Contract (CC). Whenever there is a conflict, the provisions herein shall prevail over those in the CC.

| | |
|-------------------|--|
| CC 1.1(i) | The Purchaser is: Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC) |
| CC 1.1 (m) | The Project Site/Final Destination is: Sri Lanka Institute of Biotechnology Pvt. Ltd (SLIBTEC), Phase I Building, Mahenwatta, Thalagala Rd, Pitipana, Homagama |
| CC 8.1 | <p>For <u>notices</u>, the Purchaser’s address shall be:</p> <p>Attention: Chief Operating Officer Address: Sri Lanka Institute of Biotechnology Pvt Ltd (SLIBTEC), Phase I Building, Mahenwatta, Thalagala Rd, Pitipana, Homagama Telephone: 011 3431 844 Electronic mail address: amali.ranasinghe@slibtec.gov.lk</p> <p>The Supplier’s address shall be:</p> <p>Attention:</p> |
| CC 12.1 | Details of Shipping and other Documents to be furnished by the Supplier are <u>as requested by the purchaser</u> . |
| CC 15.1 | <p><i>Sample provision [Select appropriately]</i></p> <p>CC 15.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:</p> <p>A: For Goods offered within Sri Lanka</p> <p>Payment shall be made in Sri Lanka Rupees within Fourteen (14) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed.</p> |
| CC 17.1 | <p>Supplier shall, withing 14 days of the notification of the contract award, provide a performance security of 10% of the contract price for the performance of the contract.</p> <p>The performance security shall be discharged by the purchaser and returned to the supplier not later than twenty-eight 28 days following the date of completion of the supplier’s performance obligations under the contract, including any warranty obligations.</p> |
| CC 25.1 | The inspections and tests shall be: as requested by the purchaser |
| CC 26.1 | The liquidated damage shall be: <u>1% per week of the contracted value</u> |
| CC 26.1 | The maximum number of liquidated damages shall be: <u>10% of the contracted value</u> |

Section VIII Contract Forms

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1. Contract Agreement

THIS CONTRACT AGREEMENT is made

the *[insert: number]* day of *[insert: month]*, *[insert: year]*.

BETWEEN

- (1) *[insert complete name of Purchaser]*, a *[insert description of type of legal entity, for example, an agency of the Ministry of or corporation]* and having its principal place of business at *[insert address of Purchaser]* (hereinafter called “the Purchaser”), and
- (2) *[insert name of Supplier]*, a corporation incorporated under the laws of *[insert: country of Supplier]* and having its principal place of business at *[insert: address of Supplier]* (hereinafter called “the Supplier”).

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., *[insert brief description of Goods and Services]* and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of *[insert Contract Price in words and figures, expressed in the Contract currency(ies)]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:
 - (a) This Contract Agreement
 - (b) Contract Data
 - (c) Conditions of Contract
 - (d) Technical Requirements (including Schedule of Requirements and Technical Specifications)
 - (e) The Supplier’s Bid and original Price Schedules
 - (f) The Purchaser’s Notification of Award
 - (g) *[Add here any other document(s)]*
3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

4. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
5. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *Democratic Socialist Republic of Sri Lanka* on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[insert signature]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

2. Performance Security

[The issuing agency, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]

----- *[Issuing Agency's Name, and Address of Issuing Branch or Office]* -----

Beneficiary: Chief Operating Officer, Sri Lanka Institute of Biotechnology, Phase I Building, Mahenwatte, Pitipana, Homagama

Date: _____

PERFORMANCE GUARANTEE No.: _____

We have been informed that ----- *[name of Supplier]* (hereinafter called "the Supplier") has entered into Contract No ----- *[reference number of the contract]* dated ----- with you, for the ----- *Supply* of ----- *[name of contract and brief description]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Supplier, we ----- *[name of Agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----- *[amount in figures]* (-----) *[amount in words]*, such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the day of, 20.. *[insert date, 28 days beyond the scheduled completion date including the warranty period]* and any demand for payment under it must be received by us at this office on or before that date.

[signature(s)]

3. Guarantee for Advance Payment

| Acceptable Format for Advance Payment Guarantee (Procurement Manual Reference - 5.17) |
|--|
| Advance payment securities issued in the format given below is acceptable: |
| ----- <i>[Name and addressed of Agency, and Address of issuing Branch or Office]</i> |
| Beneficiary: ----- <i>[Name and Address of Employer]</i> |
| Date: ----- |
| ADVANCE PAYMENT GUARANTEE No.: ----- |
| We have been informed that ----- <i>[name of contractor / supplier]</i> (hereinafter called “the Contractor”) has entered in to contract No. ----- ---- <i>[reference number of the contract]</i> dated ----- with you, for the ----- ----- <i>(insert “construction” or “supply”)</i> of ----- <i>[name of contract and brief description]</i> (hereinafter called “the Contract”). |
| Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum ----- <i>[amount of figures]</i> (-----) <i>[amount in words]</i> is to made against an advance payment Guarantee. |
| At the request of the Contractor, we ----- <i>[name of issuing agency]</i> hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of <i>[amount of figures]</i> (-----) <i>[amount of words]</i> ¹ upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract. |
| The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment recovered from the contractor or repaid by the Contractor. |
| This guarantee shall expire, <i>Insert the date, 28 days beyond the expected expiration date (completion date) of the Contract.</i> |
| Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date. |

The guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency/currencies) of the advance payment as specified in the contract.

4. Guarantee of Release of Retention Money

Acceptable Format for Guarantee of Release of Retention Money (Procurement Manual Reference - 5.18)

-----[Issuing Agency's Name, and Address of Issuing Branch or Office]

Beneficiary: -----[Name and Address of Employer]

Date: -----

RETENTION MONEY GUARANTEE No.: -----

We have been informed that ----- [Name of Contractor] (hereinafter called „the Contractor”) has entered into Contract No. ----- [Reference number of the contract] dated ----- with you, for the execution of-----[Name of the contract and brief description of works] (hereinafter called “the Contract”).

Furthermore, we understand that, according to the conditions of the Contract, when the Works have been taken over and the first half of the retention money could be obtained by submission of retention money guarantee. The balance fifty percent (50%) also could be released may be made against a retention money guarantee which shall be valid 28 days beyond the defects notification period.

At the request of the Contractor, we ----- [Name of the bank] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----- [amount of figures] (-----) [amount in words] ¹ upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor has not attended to the defects in accordance with the Contract.

This guarantee shall expire, at the latest,-----[Insert 28 days after the end of the defects liability period]. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

[signature(s)]