

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA



SABARAGAMUWA UNIVERSITY OF SRI LANKA

**Supply, Delivery and Installation of Laboratory
Equipment & Glassware for Faculty of Medicine**

SUSL/SU/Goods/NCB/2021/01

BIDDING DOCUMENT

Bid Opening on	28.07.2021
Bid Validity up to	28.10.2021

Client

Sabaragamuwa University of Sri Lanka,
Belihuloya,

Senior Assistant Bursar/Supplies
Sabaragamuwa University of Sri Lanka
Belihuloya.

CONTENTS

Content	Page Nos.
Section I: Instructions to Bidders (ITB)	03-16
Section VI: Conditions of Contract (CC)	17-26
Section VIII: Contract Forms	27-30
Section II: Bidding Data Sheet (BDS)	31-32
Section III: Evaluation and Qualification Criteria	33-34
Section IV: Bidding Forms	35-36
Price Schedule	37-39
Bid Guarantee	40
Manufacture's Authorization	41
Section V: Schedule of Requirements	42-43
Technical specification	44-76
Bidder's response	77-109
Section VII: Contract Data	110-111
Procurement Notice	112-114

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	<p>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.</p> <p>1.2 Throughout these Bidding Documents :</p> <p>(a) the term “ in writing” means communicated in written form by mail (other than electronic mail) or hand delivered with proof of receipt;</p> <p>(b) if the context so requires “ singular” means “ plural” and vice versa; and</p> <p>(c) “Day” means calendar day.</p>
2. Source of Funds	<p>2.1 Payments under this contract will be financed by the source specified in the BDS.</p>
3. Ethics, Fraud and Corruption	<p>3.1 The attention of the bidders is drawn to the following guidelines of the Procurement Guidelines published by National Procurement Agency:</p> <ul style="list-style-type: none">• 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. <p>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:</p>

	<p>(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;</p> <p>(b) “fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;</p> <p>(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</p> <p>(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.</p> <p>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.</p>
4. Eligible Bidders	<p>4.1 All bidders shall possess legal rights to supply the Goods under this contract.</p> <p>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:</p> <p>(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</p> <p>(b) Submit more than one bid in this bidding process. However, this does not limit the participation of subcontractors in more than one bid.</p> <p>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.</p> <p>4.4 Foreign Bidder may submit a bid only if so stated in the BDS.</p>
5. Eligible Goods and Related Services	<p>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.</p>

6. Sections of Bidding Documents	<p>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.</p> <p>Volume 1</p> <ul style="list-style-type: none"> • Section I. Instructions to Bidders (ITB) • Section VI. Conditions of Contract (CC) • Section VIII. Contract Forms <p>Volume 2</p> <ul style="list-style-type: none"> • Section II. Bidding Data Sheet (BDS) • Section III. Evaluation and Qualification Criteria • Section IV. Bidding Forms • Section V. Schedule of Requirements • VII. Contract Data • Invitation For Bid <p>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.</p>
7. Clarification of Bidding Documents	<p>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 collies 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.</p>
8. Amendment of Bidding Documents	<p>8.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addendum.</p> <p>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.</p> <p>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</p>

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	<p>11.1 The Bid shall comprise the following:</p> <ul style="list-style-type: none"> (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 from 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	<p>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.</p> <p>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.</p> <p>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. 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.</p> <p>14.4 (i) Prices indicated on the Price Schedule shall include all duties and</p>

	<p>sales and other taxes already paid or payable by the Supplier:</p> <p>(a) on components and raw material used in the manufacture or assembly of goods quoted; or</p> <p>(b) on the previously imported goods of foreign origin</p> <p>(ii) However, VAT shall not be included in the price but shall be indicated separately;</p> <p>(iii) the price for inland transportation, insurance and other related services to deliver the goods to their final destination;</p> <p>(iv) the price of other incidental services</p> <p>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.</p> <p>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.</p>
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 Establishments	<p>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.</p> <p>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.</p> <p>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.</p>

18. Documents Establishing the Qualifications of the Bidder	<p>18.1 The documentary evidence of contract if its bid is accepted shall establish</p> <p>(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;</p> <p>(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</p> <p>(c) That the Bidder meets each of the qualification criterions specified in Section III, Evaluation and Qualification Criteria.</p>
19.Period of Validity of Bids	<p>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.</p> <p>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 he request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its bid.</p>
20. Bid Security	<p>20.1 The Bidder shall furnish as part of its bid, a Bid Security as specified in the BDS.</p> <p>20.2 The Bid Security shall be in the amount specified in the BDS and denominated in Sri Lanka Rupees, and shall:</p> <p>(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;</p> <p>(b) be issued by a institution acceptable to Purchaser. The acceptable institutes are published in the NPA website, www.npa.gov.lk.</p> <p>(c) be substantially in accordance with the form included in Section IV, Bidding Forms;</p> <p>(d) be payable promptly upon written demand by the Purchaser in case the conditions listed in ITB Clause 20.5 are invoked;</p> <p>(e) be submitted in its original form; copies will not be accepted;</p>

	<p>(f) Remain valid for the period specified in the BDS.</p> <p>20.3 Any bid not accompanied by a substantially responsive Bid Security in Accordance with ITB Sub-Clause 20.1 and 20.2, may be rejected by the Purchaser as non-responsive.</p> <p>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.</p> <p>20.5 The Bid Security may be forfeited:</p> <p>(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</p> <p>(b) if a Bidder does not agreeing to correction of arithmetical errors in pursuant to ITB Sub-Clause 30.3</p> <p>(c) if the successful Bidder fails to:</p> <p>(i) sign the Contract in accordance with ITB Clause 42;</p> <p>(ii) Furnish a Performance Security in accordance with ITB Clause 43.</p>
21. Format and Signing of Bid	<p>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.</p> <p>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.</p> <p>21.3 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.</p>
Submission and Opening of Bids	
22. Submission Sealing and Marking of Bids	<p>22.1 Bidders may always submit their bids by mail or by hand.</p> <p>(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.</p> <p>22.2 The inner and outer envelopes shall:</p> <p>(a) Bear the name and address of the Bidder;</p>

	<p>(b) be addressed to the Purchaser in accordance with ITB Sub-Clause 23.1;</p> <p>(c) bear the specific identification of this bidding process as indicated in the BDS; and</p> <p>(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.</p>
23. Deadline for Submission of Bids	<p>23.1 Bids must be received by the Purchaser at the address and no later than the date and time specified in the BDS.</p> <p>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.</p>
24. Late Bids	<p>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.</p>
25. Withdrawal, and Modification on of Bids	<p>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 are required). The corresponding substitution or modification of the bid must accompany the respective written notice. All notices must be:</p> <p>(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</p> <p>(b) Received by the Purchaser prior to the deadline prescribed for submission of bids, in accordance with ITB Clause 23.</p> <p>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.</p> <p>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.</p>

<p>26. Bid Opening</p>	<p>26.1 The Purchaser shall conduct the bid opening in public at the address, date and time specified in the BDS.</p> <p>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.</p> <p>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.</p> <p>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. 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.</p>
<p align="center">Evaluation and Comparison of Bids</p>	
<p>27. Confidentiality</p>	<p>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.</p> <p>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.</p> <p>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.</p>

28. Clarification of Bids	<p>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.</p>
29. Responsiveness of Bids	<p>29.1 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself.</p> <p>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:</p> <p>(a) affects in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or</p> <p>(b) limits in any substantial way, inconsistent with the Bidding Documents, the Purchaser's right or the Bidder's obligations under the Contract ; or</p> <p>(b) 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.</p>
30. Nonconformities, Errors and Omissions	<p>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.</p> <p>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.</p> <p>30.3 Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:</p>

	<p>(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;</p> <p>(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</p> <p>(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.</p> <p>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 disqualified and its Bid- Securing Declaration shall be executed.</p>
31. Preliminary Examination of Bids	<p>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.</p> <p>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.</p> <p>(a) Bid Submission Form, in accordance with ITB Sub- Clause 12.1;</p> <p>(b) Price Schedules, in accordance with ITB Sub-Clause 12;</p> <p>(c) Bid Security, in accordance with ITB Clause 20.</p>
32. Examination of Terms and Conditions ; Technical Evaluation	<p>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.</p> <p>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.</p> <p>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.</p>

33. Conversion to Single Currency	33.1 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	<p>35.1 The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.</p> <p>35.2 To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined in this ITB Clause 35.</p> <p>35.3 To evaluate a Bid, the Purchaser shall consider the following:</p> <ul style="list-style-type: none"> (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. <p>35.4 The Purchaser's evaluation of 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</p> <p>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.</p>

36. Comparison of Bids	36.1 The Purchaser shall compare all substantially responsive bids to determine the lowest-evaluated bid, in accordance with ITB Clause 35.
37. Post Qualification of the Bidder	<p>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.</p> <p>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.</p> <p>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.</p>
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 there by 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 whichever is higher and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.
41. Notification	<p>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.</p> <p>41.2 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.</p> <p>41.3 Upon the successful Bidder's 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.</p>
42. Signing of Contract	<p>42.1 Within Seven (7) days after notification, the Purchaser shall complete the Agreement, and inform the successful Bidder to sign it.</p> <p>42.2 Within Seven (7) days of receipt of such information, the successful Bidder shall sign the Agreement.</p>

43. Performance Security	<p>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.</p> <p>43.2 Failure of the successful Bidder to submit the abovementioned 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.</p>
---------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Senior Assistant Bursar/Supplies
 Sabaragamuwa University of Sri Lanka
 Bellanuloya.

Section VI

Conditions of Contract

1.Definitions	<p>1.1 The following words and expressions shall have the meanings hereby assigned to them:</p> <ul style="list-style-type: none">(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, Section VI General Conditions of Contract 51
---------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>(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.</p> <p>(l) “The Project Site,” where applicable, means the place named in the Contract Data.</p>
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	<p>3.1 The Government of Sri Lanka (GOSL) 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:</p> <p>(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;</p> <p>(ii) “fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;</p> <p>(iii) “Collusive practice” means 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</p> <p>(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 contracts.</p>
4.Interpretation	<p>4.1 If the context so requires it, singular means plural and vice versa.</p> <p>4.2 Entire Agreement The Contract constitutes the entire agreement between the purchaser and the Supplier and supersedes all communications negotiations and agreements (whether 52 Section VII. General Conditions of Contract written or oral) of the parties with respect thereto made prior to the date of Contract.</p> <p>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.</p> <p>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.</p>

5.Language	<p>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.</p> <p>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.</p>
6.Joint Venture, Consortium or Association	<p>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.</p>
7.Eligibility	<p>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.</p>
8.Notices	<p>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. Section VI General Conditions of Contract 53</p> <p>8.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.</p>
9.Governing Law	<p>9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Democratic Socialist Republic of Sri Lanka.</p>
10.Settlement of Disputes	<p>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.</p> <p>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.</p> <p>10.3 Notwithstanding any reference to arbitration herein,</p> <p>(a) The parties shall continue to perform their respective obligations</p>

	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 Scheduled of Requirements.
12.Deliver and Documents	12.1 Subject to CC sub-Clause 32.1, the Delivery of the Goods and Completion of the related service 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 Srilanka 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	19.1 The Purchase and the supplier shall deep confidential and shall not,

Information	<p>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 finished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the supplier may 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 form 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 sub-contractor an undertaking of confidentiality similar to the imposed on the supplier under CC clause 19.</p> <p>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.</p> <p>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.</p> <p>19.4 The provisions of CC Clause 19 shall survive completion or termination, for whatever reason, of the contract.</p>
20.Subcontractin g	<p>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 obligation, duties, responsibilities, or liability under the contract.</p> <p>20.2 Subcontracts shall comply with the provisions of CC clauses 3 and 7</p>
21.Specifications and Standards	<p>21.1 Technical Specifications and Drawings</p> <p>(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.</p> <p>(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.</p> <p>(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.</p>
22.Packing and Documents	<p>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.</p>
23.Insurance	<p>23.1 Unless otherwise specified in the Contract Data, the Goods supplied under the Contract shall be fully insured against loss or damage incidental</p>

	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	<p>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.</p> <p>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 on 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>25.6 The supplier shall provide the purchaser with a report of the results of any such test and/or inspection.</p> <p>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</p> <p>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.</p>
26.Liquidated Damages	26.1 Except as provide 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 Contact, 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 of delay

	<p>until actual delivery or performance, up to a 58 Section VII, General Condition of Contract 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.</p>
27.Warranty	<p>27.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that the incorporate all recent improvements in design and materials, unless provided otherwise in the contract.</p> <p>27.2 Subject to CC Sub- Clause 21.1(b0 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 condition prevailing in the country of final destination.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
28.Patent Indemnity	<p>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, cost, and expense 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:</p> <ul style="list-style-type: none"> (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. <p>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</p>

	<p>settlement of any such proceedings or claim.</p> <p>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.</p> <p>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.</p> <p>28.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, offices, 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.</p>
29.Limitation of Liability	<p>29.1 Except in cases of criminal negligence or willful misconduct,</p> <p>(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</p> <p>(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 limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the purchase with respect to patent infringement.</p>
30.Change in laws and regulations	<p>30.1 I unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order to bylaw having the force of law is enacted, promulgated, abrogated, or changed in Sri Lanka that sub subsequently affects the Delivery Date and/or contract price shall be correspondingly increased or decreased, to the extent that her 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 ne 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.</p>
31.Force Majeure	<p>31.1 The Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination or default if and to the extent that is' obligations under the contract is the result of an event of Force Majeure.</p> <p>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</p>

	<p>Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.</p> <p>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.</p>
32.Change orders and Contract Amendments	<p>2.1 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:</p> <ul style="list-style-type: none"> (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. <p>32.2 If any such change causes and 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.</p> <p>32.2 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.</p> <p>32.3 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.</p>
33.Extensions of Time	<p>3.1 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 121 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 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.</p> <p>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 25, unless an extension of time is agreed upon, pursuant to CC Sub- Clause 33.1.</p>
34.Termination	34.1 Termination for Default

	<p>(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;</p> <p>(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;</p> <p>(ii) If the supplier fails to perform any other obligation under the Contract; or</p> <p>(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.</p> <p>(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.</p> <p>34.2 Termination for Insolvency.</p> <p>(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</p> <p>34.3 Termination for Convenience</p> <p>(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.</p> <p>(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:</p> <p>(i) To have any portion completed and delivered at the Contract terms and prices; and/or</p> <p>(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</p>
35.Assignment	<p>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.</p>

Section VIII

Contract Forms

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 Purchase] (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 Requirement (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 documents(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 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]

Senior Assistant Bursar/Supplies
Sri Lanka University of Sri Lanka
Bellefleur.

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

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]

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

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

Date: [insert date (as day, month and year) of Bid Submission] ICB No. and title: [insert number and title of bidding process] [issuing agency's letterhead] Beneficiary: [insert legal name and address of Purchaser]

ADVANCE PAYMENT GUARANTEE No: [insert Advance payment Guarantee no.]

We, [insert legal name and address of issuing agency], have been informed that [insert complete name and address of Supplier] (hereinafter called "the Supplier") has entered into Contract No. [insert number] dated [insert date of Agreement] with you, for the supply of [insert types of Goods to be delivered] (hereinafter called "the Contract")

Furthermore, we understand that, according to the conditions of the Contract, an advance is to be made against an advance payment guarantee.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum of sums not exceeding in total an amount of [insert amount(s) in figures and words] upon receipt by us of your first demand in writing declaring that the Supplier is in breach of its obligation under the Contract because the Supplier used the advance payment for purposes other than toward delivery of the Goods.

It is a condition for any claim and payment under this Guarantee to be made that the advance payment referred to above must have been received by the Supplier on its account [insert number and domicile of the account]

This Guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until [insert date].

[Signature of authorized representative(s) of the issuing agency]

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.

[Instructions for completing the Bid Data Sheet are provided, as needed, in the relevant ITB Clauses.]

ITB Clause Reference	A. General
ITB 1.1	The Purchaser is: Sabaragamuwa University of Sri Lanka
ITB 1.1	The name and identification number of the Contract are: “Supply, Delivery and Installations of Laboratory Equipment & Glassware for Faculty of Medicine - SUSL/SU/Goods/NCB/2021/01”
ITB 1.2	The bidder should have at least three years’ experience in the relevant industry in Sri Lanka and should submit documents to prove experience in the industry.
ITB 2.1	The source of funding is: GOSL
ITB 4.4	Foreign bidders are allowed to participate in bidding: Not allowed
	B. Contents of Bidding Documents
ITB 7.1	For Clarification of bid purposes only, the Purchaser’ address is: Attention: Senior Assistant Bursar/Supplies Address: Sabaragamuwa University of Sri Lanka, Belihuloya. Telephone: 045 – 2280311 Electronic mail address: suslsupplies@gmail.com
	C. Preparation of Bids
ITB 11.1 (e)	The Bidder shall submit the following additional documents: A complete company profile of the bidders including, but not limited to, the following: <ul style="list-style-type: none"> • Data commencing business in Sri Lanka • Names of current Directors • Annual turnover, assets and liabilities • List of client who use the products • Past 3 years relevant experience in the relevant industry in Sri Lanka • Note : Calibration certificate should be provide on request & ISO 9001
ITB 15.1	The bidder shall quote the local expenditure in Sri Lanka Rupees

ITB 18.1 (b)	After sales service is : required
ITB 19.1	The bid shall be validity until: 28.10.2021
ITB 20.1	(a) Bid shall include a Bid Security (issued by bank of surety) included in Section IV Bidding Forms;
ITB 20.2	The amount of the Bid Security shall be: As per the advertisement Beneficiary: The Chairman, Procurement Committee , Supply Branch, Sabaragamuwa University of Sri Lanka The validity period of the bid security shall be until: 28.10.2021
	D. Submission and Opening of Bids
ITB 22.2 (c)	The inner and outer envelopes shall the following identification marks: “Supply , Delivery & Installation of Laboratory Equipment & Glassware for Faculty of Medicine - SUSL/SU/Goods/NCB /2021/01 – 28.07.2021” on the left hand corner of the envelope.
ITB 23.1	For bid submission purposes, the Purchaser’s address is: Attention: Senior Assistant Bursar/Supplies Address: Sabaragamuwa University of Sri Lanka , Belihuloya The deadline for the submission of bids is: Date: 27.07.2021 28.07.2021 Time: 3.00 pm 2.00 pm
ITB 26.1	The bid opening shall take place at: Address: Board Room, Supply Branch Sabaragamuwa University of Sri Lanka Belihuloya. Date: 28.07.2021 Time: 2.00 pm
	E. Evaluation and Comparison of Bids
ITB 34.1	Domestic preference shall not be bid evaluation factor.
ITB 35.3 (d)	The adjustments shall be determined using the following criteria, form amongst those set out in Section III, Evaluation and Qualification Criteria: (a) Deviation in Delivery schedule: Option 2 is selected and the adjustment is 0.5% per week or part thereof (b) Deviation in payment schedule: Not applicable (c) the cost of major replacement components, mandatory spare parts, and service: Not applicable
ITB 35.4	The following factors and methodology will be used for evaluation: Not applicable
ITB 35.5	Bidders shall be allowed to quote for one or more lots. [refer to Section III Evaluation and Qualification Criteria] Purchaser will evaluate the bid item by item basis or package basis.

Section III

Evaluation and Qualification Criteria

1. Evaluation Criteria (ITB 35.3 (d))

The Purchaser's evaluation of a bid may take into account, in addition to the Bid price quoted in accordance with ITB Clause 14, one or more of the following factors as specified in ITB Sub-Clause 35.3 (d) and in BDS referring to ITB 35.3(d), using the following criteria and methodologies.

(a) Delivery schedule

Option 2

The goods covered under this invitation are required to be delivered within an acceptable range of weeks specified in the Schedule of Requirement. No credit will be given to earlier deliveries, and bids offering delivery beyond this range will be treated as nonresponsive. Within this acceptable range, an adjustment per week, as specified in the Bid Data Sheet, will be added for evaluation purposes only, to the bid price of bids offering deliveries later than the earliest delivery period specified in the Section V, Schedule of Requirements

(a) Deviation in payment schedule. **Not applicable**

(b) Cost of major replacement components, mandatory spare parts, and service: **Not applicable**

(c) Specific additional criteria: **None**

2. Evaluation Criteria (ITB 35.4)

3. Multiple Contracts (ITB 35.5)

The Purchaser shall award multiple contracts to the Bidder that offers the lowest evaluated combination of bids (one contract per bid) and meets the post-qualification criteria (this Section III, Sub-Section ITB 37.2 Post-Qualification Requirements)

The Purchaser shall:

- (a) Evaluate only lots or item contracts that include items per lot and quantity per item
- (b) Take into account: The lowest-evaluated bid for each lot or item

4. Post qualification Requirements (ITB 37.2)

After determining the lowest-evaluated bid in accordance with ITB Sub-Clause 36.1, the Purchaser shall carry out the post qualification of the Bidder in accordance with ITB Clause 37, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualification.

Qualification Criteria:

- (a) Bid may be submitted by any reputed supplier of **Laboratory Equipment & Glassware** registered business in Sri Lanka or any accredited local agent who takes fullest responsibility for the whole bid. The local agent shall submit evidence of status, obligations, power of attorney and any other documentary evidence that he is duly authorized and eligible to bid on behalf of the manufacturer.
- (b) The bidders should also have previous experience of at least three years in relevant industry in the supply and also technical and financial capability necessary to perform the contract.
- (c) Bids will be rejected as non- responsive if documentary evidence in proof of above has not been provided.
- (d) If an Agent submits bids on behalf of more than one supplier, unless each such bid is accompanied by a separate Bid Form for each bid, and security when required for each bid, and authorization from the respective Manufacturer, and valid vendor certificate, all such bids will be rejected as non- responsive.
- (e) Bidders should possess the Certificate of Business Registration issued by a Governmental Authority/ Registrar of Companies/ Provincial Registrar of Business in the relevant category.
- (f) Bidders offering goods under their own brand names should provide along with their bids a current certification/s of quality; Bid not complying with this requirement may be treated as non- responsive.

5. Domestic Preference (ITB 34.1) – Not applicable

Section IV

Bidding Forms

Bid Submission Form.

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

Date:

No:

To: Sabaragamuwa University of Sri Lanka

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 Service Procure of **Laboratory Equipment & Glassware** to the Sabaragamuwa University of Sri Lanka.
- (c) The total price of our Bid without VAT, including any discounts offered is:
- (d) The total price of our Bid including VAT, and any discounts offered is:
- (e) Our bid shall be valid for the period of time specified in ITB sub-Clause 19.1, 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;

- (i) We understand that bid, together with your written acceptance thereof include in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- (j) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed:

In the capacity of

Name:

Duly authorized to sign the bid for and on behalf of:

Dated on.....day of

Senior Assistant Bursar/Supplies
Subaragamuwa University of Sri Lanka
Belihuloya.

Price Schedule								
Type	No	Description of the item & item Code	1	2	3	4	5	6
				Qty (Nos)	Unit Rate (Rs)	VAT(Rs)	Unit Price With VAT(2+3)(Rs)	Total Without VAT (Rs) (1*2)
Laboratory Equipment & Glassware								
Package 1	1	Autoclave	4					
	2	CO ₂ Incubator	1					
	3	Incubator	3					
	4	Membrane Filtration Apparatus with Membranes	1					
Package 2	5	Bench-top pH meter	4					
	6	X-ray Illuminator	4					
	7	Drying Oven for Glassware	3					
	8	Homogenizer	1					
Package 3	9	Micropipette set	08 sets					
		0.10-2.50 µL						
		100-1000 µL						
		2.00-20.00 µL						
		20.00-200.00 µL						
		0.50-10.00 µL						
	10	Binocular Microscope	10					
	11	Sperm Counting Chamber	1					
	12	Camera with Light panel and Horizontal tripod	1					
Package 4	13	Micro Centrifuge	4					
	14	Centrifuge	3					

	15	High Speed Mini Centrifuge	3					
	16	Refrigerated Micro Centrifuge	2					
	17	Extruder Set with Holder/Heating Block	2					
	18	Probe Sonicator with Probe and Sound Enclosure	1					
Package 5	19	Microwave Oven	5					
	20	-20°C Freezer	5					
	21	Refrigerator	4					
	22	Digital Heat Block	4					
	23	Labtop cooler	2					
	24	Water Purification System – Deionized	1					
	25	Water Bath Shaking	2					
	26	Water Distillation Unit	2					
Package 6	27	ELISA Reader with Incubator and UV/VIS	3					
	28	Gel Electrophoresis System - Horizontal	2					
	29	Gradient PCR Thermal Cycler	2					
	30	UV Visible Spectrophotometer	1					
Package 7	31	Slide Storage Boxes (Dry Cabinet	4					
	32	RI detector for Compatible to Thermo Scientific LPG-3400SD (N) UHPLC system	1					
	33	Portable Liquid Nitrogen Tank (5.00 L)	1					
	34	Biosafety Cabinet	1					
	35	Biosafety Cabinet for Virology	1					

*Use separate price schedule for options

.....

Signature and seal of the Bidder

.....

Date

Total price without Taxes (in SLR):

Total price without Taxes (in Words):

Vat Registration No:

Total price with VAT:

Total price with VAT (in Words):

Maintenance charges as a percentage after the warranty period:

Name of the Authorized persons:

Signature of the Authorized persons:

Date:

Note : Calibration certificate should be provide on request & ISO 9001

Senior Assistant Bursar/Supplies
Subaragamuwa University of Sri Lanka
Belihuloya.

Bid 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----- [name (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 of 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 obligations(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"); 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

- (c) 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)]

Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill 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

1. List of Goods 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	Qty	Final Destination	Earliest Delivery Date	Latest Delivery Date	Bidder Offered Delivery Date
Package 1	1	Autoclave	4	Faculty of Medicine, Sabaragamuwa University of Sri Lanka, Hidallana, Rathnapura	2 Weeks	4 Weeks	
	2	CO ₂ Incubator	1				
	3	Incubator	3				
	4	Membrane Filtration Apparatus with Membranes	1				
Package 2	5	Bench-top pH meter	4				
	6	X-ray Illuminator	4				
	7	Drying Oven for Glassware	3				
	8	Homogenizer	1				
Package 3	9	Micropipette set	08 sets				
		0.10-2.50 µL					
		100-1000 µL					
		2.00-20.00 µL					
		20.00-200.00 µL					
		0.50-10.00 µL					
	10	Binocular Microscope	10				
	11	Sperm Counting Chamber	1				
Package 4	12	Camera with Light panel and Horizontal tripod	1				
	13	Micro Centrifuge	4				
	14	Centrifuge	3				
	15	High Speed Mini Centrifuge	3				
	16	Refrigerated Micro Centrifuge	2				
	17	Extruder Set with Holder/Heating Block	2				
	18	Probe Sonicator with Probe and Sound Enclosure	1				

	Item No	Description of Goods	Qty	Final Destination	Earliest Delivery Date	Latest Delivery Date	Bidde Offered Delivery Date
Package 5	19	Microwave Oven	5				
	20	-20°C Freezer	5				
	21	Refrigerator	4				
	22	Digital Heat Block	4				
	23	Laptop cooler	2				
	24	Water Purification System – Deionized	1				
	25	Water Bath Shaking	2				
	26	Water Distillation Unit	2				
Package 6	27	ELISA Reader with Incubator and UV/VIS	3				
	28	Gel Electrophoresis System - Horizontal	2				
	29	Gradient PCR Thermal Cycler	2				
	30	UV Visible Spectrophotometer	1				
Package 7	31	Slide Storage Boxes (Dry Cabinet)	4				
	32	RI detector for Compatible to Thermo Scientific LPG-3400SD (N) UHPLC system	1				
	33	Portable Liquid Nitrogen Tank (5.00 L)	1				
	34	Biosafety Cabinet	1				
	35	Biosafety Cabinet for Virology	1				

Technical Specifications

The bidder shall follow the following technical requirement and other requirement.

	Item No	Name and Minimum Requirement	Quantity	Remarks
Laboratory Equipment & Glassware				
Package 1	1	Autoclave Stand-alone	4	
		<p>Instrument should be a fully automatic instrument</p> <p>Suitable for Sterilize culture media, glass, liquids, plastic, metallic elements, waste bag</p> <p>External case, top, chamber and lid made of stainless steel</p> <p>The autoclave should be a temperature-controlled autoclave, not a pressure-controlled autoclave</p> <p>The Instrument should be built to ASME Guidelines and Should have CE certification</p> <p>Should be able to run 4 cycles in 8 hours with cooling time</p> <p>Instrument should be built with movable wheels</p> <p>Microprocessor controlled digital display</p> <p>Manual Valve to drain</p> <p>Safety valve and thermostat and sensor for low water level</p> <p>single lever locking lid with assisted lifting Sensor for open lid</p> <p>The lid should be open upwards sideways from the user</p> <p>capacity 50 Liters (effective capacity) minimum</p> <p>Temperature 100-122 o C</p> <p>Pressure 15 psi</p> <p>Overall dimensions approximately WxDxH cm 60x50x90</p> <p>Voltage: external power supply 240V, 50/60Hz.Single phased.</p> <p>Accessories –</p> <p>2 No. of Stainless-steel wire baskets with separator</p> <p>8 No. of Test tube rack (13 mm X 40)</p> <p>2 No. Pipette box (canisters) 50 X 450 mm (Dia X Height)</p> <p>Maximum down time attending a problem should be within a day</p> <p>Warranty – 2 Year minimum</p> <p>Spare parts availability- 10Years</p> <p>Local Agent authorization letters</p>		

		List of users for Identical model Specifications should be clearly marked on Manufactures literatures		
	2	CO₂ Incubator	1	
Package 1		<p>It should have Polished stainlesssteel interior with coved corners.</p> <p>Stainless steel shelves and supports should be designed to support a full product load, and can be readily removed without tools for easy cleaning</p> <p>Microbiological filters are provided on gas inlet</p> <p>Inner door gasket should be able to remove for cleaning</p> <p>In-chamber HEPA air filtration system should continuously filter the entire chamber volume every 60 seconds reducing particulates to Class 100 cleanroom levels</p> <p>The HEPA filter entraps particulate air contaminants and prevents their escape</p> <p>Optimized air flow system design will not interfere with samples or incubator function</p> <p>Class 100 air quality conditions should be achieved within five minutes</p> <p><u>Temperature</u></p> <p>Temperature Range: 5°C above ambient to 50°C with control of $\pm 0.1^{\circ}\text{C}$</p> <p>Uniformity $\pm 0.3^{\circ}\text{C}$ @ 37°C</p> <p>Over temperature shut off facility should be available</p> <p><u>CO₂</u></p> <p>CO₂ control range: 0-20% with control of $\pm 0.1\%$</p> <p>Sensor T/C</p> <p>Readability should be 0.1%</p> <p>Tracking Alarm should be User-programmable high/low</p> <p><u>Humidity</u></p> <p>Humidity range should be Ambient to 95% @ 37°C</p> <p>Humidity Pan should be 3.0 liters capacity</p>		

		<p><u>Shelves</u></p> <p>Construction Stainless steel, perforated with standard 4 shelves</p> <p>Interior Volume should be not less than 180L</p> <p>Interior should be 304 grade polished stainless steel</p> <p>Exterior 18 gauge, cold-rolled steel, powder coated</p> <p>Outer Door Gasket Four-sided, molded, magnetic vinyl</p> <p>Inner Door Gasket Removable, cleanable, feather-edged, silicone</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/repair immediately</p> <p>Warranty: 24 calendar months</p>		
	3	Incubator	3	
Package 1		<p>Capacity of the Oven should be no less than 150L with digital operating system</p> <p>the equipment should be designed with non-rusting hinges and wire mesh shelves</p> <p>Should have a see-through window to observe sample when incubator is at operation</p> <p>internal clear bottoms and rounded corners should be for easy cleaning</p> <p>internal should be stainless steel and exterior should be epoxy coated for better heat resistant</p> <p>should have PID temperature controller for better accuracy</p> <p>should be constructed with a stainless-steel handle with a positive latch system for safety</p> <p>should be supplied with at least 2 shelves</p> <p>the shelves height should be adjustable in 25 mm steps</p> <p>should have a safety function for floating overshoot</p> <p>Temperature range - from ambient +5 to at least 70 °C at least</p> <p>Temperature uniformity $\pm 0.5^{\circ}\text{C}$</p> <p>Temperature control accuracy ± 0.2 minimum</p>		

		<p>power consumption should be less than 500W</p> <p>Should be supplied with at least 2-year standard warranty</p> <p>All the Specifications should be marked on manufactures brochures</p> <p>Warranty: 24 Calendar Months</p>		
	4	Membrane Filtration Apparatus with Membranes	1	
Package 1		<p>Filtration apparatus should be easy to assemble, disassemble and clean</p> <p>Should be made from Borosilicate glass</p> <p>The apparatus should include a vacuum filtration Erlenmeyer flask, a jacket filter funnel with 1” beaded pipe inlet/outlet, a three adapter, a porosity glass filter disc with 25-50 micron porosity and a retaining ring</p> <p>Membrane filter pore size: 75.0 mm</p> <p>Volume of the Jacket funnel: 1000.0 mL</p> <p>Volume of Filter flask: 2000.0 mL</p> <p>Warranty: 24 Calendar Months</p>		
	5	Bench-top pH meter	4	
Package 2		<p>It should be a bench top PH meter with PH Range of 0-14 pH to use in the laboratory for general applications</p> <p>PH Resolution should be 0.01 PH while accuracy is ± 0.02 pH or better</p> <p>mV Range should be ± 1999 mV with resolution of 1 mV while accuracy is ± 1 mV or better</p> <p>Temperature Range should be 50C to 1000C 5-100 C with resolution of 0.1C while accuracy is ± 0.7 °C or better</p> <p>The meter should have auto buffer recognition facility.</p> <p>Calibration should be 3 point with calibration buffers 4.01, 7.00, 10.01</p> <p>It should have Automatic or Manual Temperature Compensation facility</p> <p>The display should be Liquid Crystal Display</p> <p>The equipment should be supplied with stand-alone Electrode Arm.</p>		

		<p>The display of the meter should give error messages if any, to help the user to identify the problem</p> <p>There should be a memory to store up to at least 90 Measurements and most recent calibration date</p> <p>RS 232 interface should be available for data transfer to a printer or a PC</p> <p>The meter should be supplied with plastic refillable pH electrode / buffer powder set</p> <p>Power: 240v/50 Hz</p> <p>The manufacture should have ISO 9001 certified, meter should have electromagnetic Compatibility of EN standard</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 Calendar months</p>		
Package 2	6	X-ray Illuminator	4	
		<p>Color Temperature: Cool white 6500⁰K</p> <p>Protection fuse: 2 x 1A</p> <p>Bipolar light switch</p> <p>Schuko plug with 2m cable</p> <p>All components UL, DVE, IMQ approved</p> <p>Light box: 92 x 38 cm</p> <p>Exterior Dimensions (L x D x H x W): 47 x 97 x 12 x 11 cm</p> <p>Types: 2 panels, vertical</p>		
Package 2	7	Drying Oven for Glassware	3	
		<p>Capacity of the Oven should be no less than 150L with digital operating system</p> <p>the equipment should be designed with non rusting hinges and wire mesh shelves</p>		

Should have a see through window to observe sample when oven is at operation

internal should be stainless steel and exterior should be epoxy coated for better heat resistant

should have PID temperature controller for better accuracy with industrial grade heaters are preferred

the inner corners should be seamless for easily cleanable

should be constructed with a stainless steel handle with a positive latch system for safety with silicon gasket in doors

should be supplied with at least 2 shelves

the shelves height should be adjustable in 25 mm steps

should have a safety function for over temperature and electric overload

Should have function of automatically heater and blower cutoff when the door is opened

Temperature range up to at least 250 °C at least from 50°C

Temperature accuracy $\pm 2.0^{\circ}\text{C}$ at 100°C minimum

Temperature control accuracy ± 0.5 minimum

Should be supplied with at least 1 year standard warranty

All the Specifications should be marked on manufactures brochures

The equipment shall be warranted for a period of not less than 12 calendar months from the date of successful commissioning on full "parts and labor" basis. Such a warranty shall also include servicing and maintenance during the period of validity. Tenderers must specify in detail the means available to them to implement such a warranty.

Documentation

Manufacture product catalogs with requested information should be supplied

Manufacture authorization for the bidder to represent the given brand

User reference list should be attached

Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/repair immediately

Warranty: 24 Calendar months

Package 2	8	Homogenizer	1	
		<p>Should be light weighted and easy to handle</p> <p>Safety switch should be available for emergency stop and overload protection should be available</p> <p>Motor drive should be smooth and easy to operate</p> <p>All dispersing shafts should interchangeable for easy dismantling and cleaning</p> <p>Dispersing shafts should be made from stainless steel to avoid corrosion and should autoclavable</p> <p>Speed range: 8000 – 30000 rpm</p> <p>Working volume (H₂O): 0.1 – 50.0 mL</p> <p>Maximum viscosity : 5000 mPas</p> <p>Ambient Temperature: 0-40⁰C</p> <p>Relative humidity: 85%</p> <p>Power supply: 110/220V±10%, 50/60Hz</p> <p>Dimensions (W x D x H): 40 x 20 x 15 cm</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty : 24 Calendar Months</p>		
Package 3	9	Micropipette		
		0.10-2.50 µL	8 Set	
		100-1000 µL	8 Set	
		2.00-20.00 µL	8 Set	
		20.00-200.00 µL	8 Set	
		0.50-10.00 µL	8 Set	
		Micropipette should be fully autoclavable without disassemble		

		<p>Shall have high level of Precision and Accuracy to obtain correct results</p> <p>Better protection against chemical and physical corrosion</p> <p>Should be supplied with individual QC and calibration report in accordance with ISQ 8655</p> <p>Should have CE & IVD complains</p> <p>Pipette handle should have thermal resistant, which prevents transfer of body heat to obtain high accuracy during continuous use</p> <p>Shall have UV resistance</p> <p>Large and clear 4 digit-display</p> <p>Should be light weight for ergonomic use</p> <p>Should have volume lock for accuracy</p> <p>Color coding should be available for easy identification</p> <p>There should be authorized local agent for the manufacture in Sri Lanka and shall provide letter of authorization with the tender/Quotation</p> <p>Local agent should have facility to calibrate the micropipette</p> <p>Minimum Two year warranty</p> <p>After the sale services: Suppler should have an established after sales service unit with proven records and necessary tools. Supplier should have at least 3 year experience for supply and maintaining similar type of instruments</p>		
	10	Binocular Microscope	10	
Package 3		<p>Optical system</p> <p>The models equipped with plan infinity corrected optical system</p> <p>All optics (including eyepieces and objectives) should be antifungal treated against fungal growth.</p> <p>Head</p> <p>Binocular head ,360° rotatable , 30° inclined siedentopf type</p> <p>Dioptor adjustment + -5 on left eye piece</p>		

Interpupillary distance adjustment at least 48-75mm

Eyepieces

Paired 10x, 20mm Field of View (FOV) with eye guard

Eye piece to be fixed and can not be removed easily

Eye piece to be adjusted at different height to compensate for user height and for comfortable viewing

Objective

Plan Achromatic, Infinity color corrected 4x, 10X, 40X and 100x(Oil) objectives to be supplied

Longer working distance between slide and objectives working distance 20mm or better

Nosepiece

Inward tilt quintuple nosepiece revolving type

Slot for polarization filter is required on the nosepiece

Illumination system

Adjustable Low heat 3W LED illumination system

Fully adjustable Kohler Illumination

Condenser

Abbe N.A. 1.25 condenser for brightfield/ iris diaphragm and swing-out filter holder

Blue, Green and Yellow filters to be supplied

Stage

Scratch resistant rack less with no protrusion, Right hand control large mechanical stage with Vernier scale and removable Slide clips.

Stage size: 190x130 mm or larger

Stage movement minimum 75mm (x) 35mm (y) with low position Xy controls Be able to upgrade with Heated stage with temperature control system

Stage Adjustment

Double coaxial, graduated low-positioned coarse and fine adjustments. With 180 graduations and 1 um precision. Total travel 20mm

Fine adjustment of 200um per rotation

Adjustable friction control and rack stop mechanism to prevent objectives and slide damages

all controls to fix close together with no arm rests should allow comfortable operation

Power Supply: Units to be operate with inbuilt rechargeable battery and through main power 220 - 240 Vac 50/60 Hz

Carrying Handle: Microscope to have integrated carrying handle built in to microscope body. Color coded for carrying handle to identify the holding position.

Cable Storage: Inbuilt cable storage to store the cables when microscope not in use and to store excess length of power cable to protect microscope.

Security slot to fix microscope to prevent unauthorized removal of microscope is required

Accessories to be supplied: System should be supplied with Microscope, Rechargeable battery, Dust cover, spare fuse, immersion oil, white filter and user manual.

Minimum Five-year manufacture warranty for Optical parts and mechanical parts. Documentary evidence from manufacturer should be attached

Microscope should be suitable to tropical environment and should be a proven product at least 50 microscopes be in successful use. Please provide the details of previous supplies with user contact details

Information about after sales service personnel, their qualification and address of the after sales division need to provide

		<p>Letter of authority should be given from manufacturer to represent quoted brand to this tender</p> <p>Warranty: 24 Calendar months</p> <p>After the sale services: Supplier should have an established after sales service unit with proven records and necessary tools. Supplier should have at least 3-year experience for supply and maintaining similar type of instruments.</p>		
Package 3	11	Sperm Counting Chamber	1	
		<p>24"HD touch screen interface</p> <p>75 second automated testing cycle</p> <p>Barcode scanner</p> <p>Built in LIS interface</p> <p>Fully customizable reporting</p> <p>High resolution visualization system</p> <p>Recording video clips and capture image</p> <p>Interactive help menus on each page</p> <p>Built in timer for sample preparations</p> <p>Click to mark visualization counters</p> <p>Automatic backup and restore functions</p> <p>Programmable QC alerts</p> <p>Integrated maintenance checklists and alerts</p> <p>Warranty: one year</p>		
Package 3	12	Camera with Light panel and Horizontal tripod	1	
		<p><u>Camera</u></p> <p>24.2MP APS-C Exmor CMOS Sensor</p> <p>BIONZ X Image Processor</p> <p>Real-Time Eye AF & Real-Time Tracking</p> <p>XGA Tru-Finder 2.36m-Dot OLED EVF</p> <p>20.1MP stacked back illuminated 1" Exmor RS CMOS sensor w/ DRAM</p> <p>Enhanced subject capture: wide 425 Phase/ 425 contrast detection points over 84 percent of the sensor</p>		

Fast & accurate: Up to 11Fps continuous shooting at 24.2 MP raw with crisp, clear natural colors

Multiple movie functions: Make time lapse movies or slow/quick motion videos without post processing

Tiltable LCD screen: customizable for vlogging, still photography or recording a professional film

In the box: rechargeable battery (NP FW50) AC adaptor (ac uud12), shoulder strap, body cap, accessory shoe cap, eyepiece cup, micro

USB cable. Metering Type: 1200 zone evaluative metering

Interchangeable Lens

4K Video

Flip Screen

Warranty: one year

Lens

16-50mm Lens

large aperture 24-70mm1 F1.8-2.8 ZEISS Vario-Sonnar T lens

Warranty: one year

Light Panel

Light Fixture

Color Temperature :3300 to 5600K \pm 300K

Color Accuracy Standard: CRI 95 ,TLCI 95

Dimming: Yes, 10 to 100%

Photometric :3300K:53.9 fc / 580 lux at 1.64' / 0.5 m
4500K:58.5 fc / 630 lux at 1.64' / 0.5 m 5600K:63.2 fc / 680 lux at 1.64' / 0.5 m

Connector: 1pcs

Focal Length :None

Remote Operation

Remote Control Type :None

Max Power Consumption :12 W

Horizontal tripod

		Camera Tripod with Telescopic Horizontal Column Arm Ball Head for Macro Shoot/Video Camcorder, Warranty: one year		
Package 4	13	Micro Centrifuge	4	
		<p>The unit features autoclavable, avoiding of heat generation and corrosion-free rotors to ensure safety and long life.</p> <p>The design should build to accommodate PCR tubes and micro tubes with the volume of 0.20 – 2.00 mL.</p> <p>The maximum capacity of the rotor should 24 tubes with 1.5/2.0 mL and 4 x 8 PCR strips.</p> <p>Operation of the unit can be timed, continuous, or momentary using a separate button (ex: “Pulse Button”)</p> <p>Vibration free operation is ensured by an isolation system. In the event of a significant imbalance, operation of the centrifuge is automatically stopped for safety.</p> <p>Deceleration at the end of a run is very quick, but will not disrupt samples.</p> <p>Key lock function should available to set parameters secured during the operation.</p> <p>The imbalance of mounted tubes should be cut-off</p> <p>The rotor should be fixed angle one with hole diameter 11.1 mm</p> <p>Mounted lips should be protected with a lid on the rotor to avoid the drop of tubes during the operation.</p> <p>Lid of the rotor centrifuge should be automatically released at the completion of the operation.</p> <p>Speed is easily set and displayed in either rpm or rcf and rpm / rcf conversion should available</p> <p>Speed range: 500 – 15000 rpm</p> <p>Maximum rcf : 17135 xg</p> <p>Dimension (W x D x H) : 27.7 x 45.0 x 24.75 cm Approximately</p> <p>Weight without rotor: 18 kg</p> <p>Power supply: 220 V, 50-60 Hz</p> <p>Minimum 02 years warranty</p> <p>Documentation</p> <p>Manufacture product catalogs with requested information should be supplied</p>		

		<p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached. There should be minimum 30 functioning installations within the country</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p>		
	14	Centrifuge	3	
Package 4		<p>The Centrifuge should have a feature to install and remove rotor without tool in less than 5 seconds with just a push of a button for quick and easy change of rotors for different applications.</p> <p>The centrifuge should be manufactured with quality materials providing broad chemical resistance with exceptional strength for durability and reliability</p> <p>It should be a microprocessor control system with digital display</p> <p>The centrifuge must have a minimum of 3 direct program buttons, with alphanumeric program naming</p> <p>It should have Fast acceleration and deceleration times for quicker spins</p> <p>Alphanumeric program naming, of up to 10 characters, will promote correct program selection every time</p> <p>It should have a timer of 90h and continuous</p> <p>Highly visible, backlit display should be available for clear reading of parameters across the lab</p> <p>Stainless Steel centrifugation chamber that can be cleaned easily and quickly will be available</p> <p>Imbalance Detection System with continuous vibration measurement will be available with rotor mass correction</p> <p>Sound level should be less than 61 dBA</p> <p>Instrument should be easily toggle between RCF and RPM</p> <p>Acceleration /Deceleration Rates-2 (standard and soft)</p> <p>It should be supplied with Swing out rotor with 50mlx4 adapter and 15mlx8 adapters. Speed and centrifugal force should be at least 4,500 rpm and 3,200xg</p> <p>The centrifuge must be UL Listed / CE marked / IVD compliant / Certified biocontainment</p>		

		<p>Documentation</p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty – 2 Year minimum</p>		
	15	High Speed Mini Centrifuge	3	
Package 4		<p>The Centrifuge should have a feature to install and remove rotor without tool in less than 5 seconds with just a push of a button for quick and easy change of rotors for different applications.</p> <p>The centrifuge should be manufactured with quality materials providing broad chemical resistance with exceptional strength for durability and reliability</p> <p>It should be a microprocessor control system with digital display</p> <p>The centrifuge must have a minimum of 3 direct program buttons with alphanumeric program naming</p> <p>It should have fast acceleration and deceleration times for quicker spins</p> <p>Alphanumeric program naming of up to 10 characters will promote correct program selection every time.</p> <p>It should have a timing range of 15s – 99 min</p> <p>Large LED display should be available to indicate speed and the set time</p> <p>Large LED display should be available to indicate speed and the set time</p> <p>Stainless Steel centrifugation chamber that can be cleaned easily and quickly should be available</p> <p>Imbalance Detection System with continuous vibration measurement will be available with rotor mass correction</p> <p>The centrifuge should stop automatically when the cover opens during running and restart running after cover closed</p> <p>Instrument should be easily toggle between RCF and RPM</p> <p>Speed range : 800 – 15000 rpm</p> <p>Maximum rcf: 15100 xg</p>		

		<p>Exterior dimensions (W x D x H) : 23 x 22 x 13 cm Approximately</p> <p>Interior dimensions (W x D x H) : 33 x 34 x 27 cm Approximately</p> <p>Power supply: 110/220 V±10%, 50-60 Hz</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/repair immediately</p> <p>Warranty: 24 Calendar momtha</p>		
	16	Refrigerated Micro Centrifuge	2	
Package 4		<p>The unit features powerful brushless motor and an intuitive control panel</p> <p>This refrigerated micro centrifuge model that incorporates a powerful cooling system that maintains temperatures as low as -10°C and can reach 4°C in less than eight minutes.</p> <p>Speed is easily set and displayed in either rpm or rcf.</p> <p>Operation of the unit can be timed, continuous, or momentary using the "Quick" button.</p> <p>Vibration free operation is ensured by an isolation system. In the event of a significant imbalance, operation of the centrifuge is automatically stopped for safety.</p> <p>Deceleration at the end of a run is very quick, but will not disrupt samples.</p> <p>These micro centrifuges are supplied with a uniquely designed 24 x 1.5 / 2.0 mL rotor that allows easy access to the tops of the sample tubes.</p> <p>Individual tube slots in the solid aluminum rotor support tubes along their length and contain the sample in the event of tube failure.</p> <p>Adapters are available for smaller tubes as well as PCR strips</p>		

		<p>The rotor is seated on a tapered shaft which facilitates easy removal for cleaning and autoclaving.</p> <p>Speed range : 500 to 13,500 rpm</p> <p>Maximum RCF: 17,135 x g</p> <p>Maximum capacity: 24 x 1.5/2.0 mL</p> <p>Timer : 0.5 to 99 minutes or continuous, "Quick" button for momentary operation</p> <p>Temperature range: -10° to 40°C</p> <p>Dimensions (W x D x H) : 10.9 x 17.75 x 9.75 in/27.7 x 45 x 24.75 cm</p> <p>Weight : 44 lb/20 kg</p> <p>Electrical : 230V~, 50 Hz or 120V~, 60 Hz</p> <p>Minimum Two year warranty</p>		
	17	Extruder Set with Holder/Heating Block	2	
Package 4		<p>Extruder should allow researchers and scientists to prepare large, unilamellar vesicles by extrusion in an efficient manner.</p> <p>Rapid cleaning of all wetted parts, reducing “down-time” between production of vesicles from different lipid species.</p> <p>Generate uniform populations of unilamellar liposomes without the use of solvents or detergents.</p> <p>Vesicle size readily controlled by polycarbonate membrane selection.</p> <p>Extruder with heating block should allow the extrusion of vesicles at elevated temperatures, which is critical for the successful production of vesicles from phospholipids with a phase transition temperature above room temperature.</p> <p>Kit should be included mini-extruder, Extruder Holder and heating Block, 2 syringe size (250µL and 1000µL) and a choice of pore size for 100 polycarbonate membrane (0.03µm to 1µm), 100 filter supports and instructions,</p>		

		<p>316 Stainless Steel Membrane Forceps, O-rings for extruder</p> <p>Manufacturer authorization should be attached.</p> <p>Warranty: 24 calendar months</p>		
	18	Probe Sonicator with Probe and Sound Enclosure	1	
Package 4		<p>State of the art touch screen interface</p> <p>Amplitude control from 1-100%</p> <p>Programmable- processing time, pulse on and off, amplitude, information should be save to memory and run</p> <p>Adjustable pulse on and off</p> <p>Temperature probe with monitoring capability</p> <p>Shutdown if T exceeds</p> <p>Lead free-programmable with amplitude and auto tuning</p> <p>A large, color LCD touch screen, clear display of all operating parameters</p> <p>Completed with-Generator</p> <p>Converter</p> <p>Standard probe-1/2", 3/4" and 1" horns</p> <p>Power cable</p> <p>Converter cable</p> <p>Wrench set</p> <p>Horns/probes-titanium, solid tips</p> <p>Replacement tips for standards-0.2ml 1/16"(2mm) 320um</p> <p>Probes-1-15ml 1/8"(3mm) 380um</p> <p>10-50ml 1/4" (6mm) 200um</p> <p>Solid tip 20-250ml 1/2" (13mm) 120um</p> <p>Sound enclosure -reduces noise by 20dBa or better</p> <p>Internal support rod and converter mounting system</p> <p>Ability to enclosure of temperature monitoring probe</p> <p>Interior walls lined with acoustical foam</p> <p>Door with a window with good visual picture</p> <p>Portable</p> <p>Minimum Two year warranty</p>		

		<p><u>Documentation</u></p> <p>24 months from date of successful commissioning on full “part and labor” basis. Servicing and preventing maintenance for validity period</p>		
Package 5	19	Microwave Oven	5	
		<p>The oven should include stainless steel cavity and wrapper</p> <p>Interior Dimensions (W x D x H): 33.0 x 33.0 x 20.4 cm</p> <p>Exterior Dimensions (W x D x H): 50.0 x 38.0 x 30.0 cm</p> <p>Microwave should turn on instantly.(2-3 second delay will be accepted)</p> <p>Can be operated in manual or automatic mode</p> <p>Thermal probe should be removable and easy field replacement</p> <p>Cavity air should be removed through chemically resistant duct</p> <p>Fresh air should be pulled into cavity via fan</p> <p>2 clamps should be available for the exhaust duct</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached. There should be minimum 30 functioning installations within the country</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p>		
Package 5	20	Freezer -20°C	5	
		<p>Upright freezer with not less than 250L capacity</p> <p>Microprocessor control with adjustable temperature range-10 to -20°C</p> <p>Should have LED digital display for clear observation</p> <p>Should have permanently lubricated cooling fan for safety and longevity</p> <p>Cold design shelf for fast removal of product heat load</p>		

		<p>Audible and visible flashing light alarm indicates for sensor error, high/low temperature and high/low ambient temperature</p> <p>Five storage drawers with door lock for storage safety</p> <p>Should have voltage tolerance design with applicable voltage range of 190-240 V</p> <p>Power consumption should not more than 350W</p> <p>External dimensions should not more than 700 x 700 x 1700 mm (w*d*h) Freezer should have CE certificate</p> <p>The equipment shall be warranted for a period of not less than 24 calendar months from the date of successful commissioning on full "part & labor" basis. Such a warranty shall also include servicing and preventing maintenance during the period of validity. After the sale services: Supplier should have an established after sales service unit with proven records and necessary tools. Supplier should have at least 3-year experience for supply and maintaining similar type of instruments.</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached.</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty : 24 Calendar Months</p>		
	21	Refrigerator	4	
Package 5		<p>240L Capacity</p> <p>R600a gas saves energy</p> <p>6th Sense Deep Freeze Technology</p> <p>Up to 40% Faster Bottle Cooling</p> <p>Up to 50% Faster Ice Making</p> <p>Up to 3 times longer cooling retention in power cut</p> <p>7 Days garden freshness</p> <p><u>Features</u></p> <p>Tower Cooling System</p> <p>Works Without a stabilizer</p>		

		<p>Toughened Glass Shelves</p> <p>Warranty: 24 Calendar months</p> <p>Documentation</p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/repair immediately</p>		
Package 5	22	Digital Heat Block	4	
		<p>Controller Type: PID digital</p> <p>Dimensions (L x W x H): 288 x 200 x 100 mm (11.3 x 7.9 x 3.9 in.)</p> <p>Temperature Range (Metric) 20°C to 130°C 20-25 C to 130 C</p> <p>Relative Humidity: <80%</p> <p>Material: Powder-coated Steel</p> <p>Fuse: 250V and 2.5A</p> <p>Frequency: 50/60 Hz</p> <p>Heating Rate: ≤ 20 min. 20° to 130°C</p> <p>Includes: Dry bath, CN, EU and UK plugs, block lifter</p> <p>No. of Blocks:2</p> <p>Plug Type: CN, EU and UK plugs</p> <p>Temperature Accuracy: ≤ ± 0.5°C</p> <p>Temperature Uniformity: ≤ ± 1°C</p> <p>Timer: 0 to 99:59 min or continuous</p> <p>Warranty: 24 Calendar months</p> <p>Tube well size - 0.2ml to 1.5ml</p>		
Package 5	23	Labtop cooler	2	
		<p>Should be able to use repeatedly for up to 45 min</p> <p>Should me made from break resistant material with a convenient carrying handle</p> <p>Sliding on the bench surface should be avoided with proper adjustments</p> <p>Temperature ranges : 0°C to -20°C</p>		

		<p>Tube compatibility: 0.2 - 0.5 mL</p> <p>Holding temperature and Time: $\geq 0^{\circ}\text{C}$, 1 hour</p> <p>Capacity: 20 x 0.2/0.5 mL</p> <p>Warranty: 24 Calendar Months</p>		
	24	Water Purification System – Deionized	1	
Package 5		<p>The system should produce ASTM I & ASTM II type water simultaneously.</p> <p>It should be suitable to feed with direct tap water</p> <p>It consists of a microprocessor control system that will ensure proper working condition</p> <p>The system should be supplied with UV-oxidation facility</p> <p>Output water rate should be 3 L/hr</p> <p>Flow rate should be at least 1-1.2 L/min</p> <p>Conductivity should be 0.06 $\mu\text{S}/\text{cm}$ or better</p> <p>Resistivity should be 18.2 m ohm x cm or better</p> <p>Particles level should be less than 1 $\mu\text{m}/\text{mL}$</p> <p>Bacterial content should be less than 1 CFU/ml</p> <p>TOC value should be less than 5 ppb</p> <p>Combination of pretreatment and the reverse osmosis membrane and Polishing cartridge</p> <p>containing high-quality ultrapure resin will ensure consistent purity and long cartridge life</p> <p>System should have ion exchange cartridge to remove ions from the pretreated water</p> <p>The model should be constructed with pigment-free material</p> <p>Conical bottom outlet will allow for complete draining and efficient cleaning and disinfection</p> <p>It should consist of a built in tank with 5-7.5 L</p> <p>It should have automatic water recalculation through the dispenser tubing to protect it from internal bacteria growth</p> <p>It should have real-time clock and code protected operating system</p> <p>There shall be an alphanumeric LCD display</p> <p>Conductivity measuring cell will be available to display conductivity of purified water</p>		

		<p>It should have an ergonomic controlling unit that can be swiveled for best keypad use</p> <p>Power: 230V/50Hz</p> <p>A pretreatment filter should be supplied to increase the life time of the cartridges in the water system</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately.</p> <p>Warranty: 24 Calendar Months</p>		
	25	Water Bath Shaking	2	
Package 5		<p>It should be an equipment combined with heated bath and mechanical shaking function Construction: Steel outer housing and seamless stainless steel inner chamber with round corners for added strength and easy clean</p> <p>Working capacity should not be less than 17 L</p> <p>Temp. setting and Read out should be digital</p> <p>It should have microprocessor PID temperature control system</p> <p>Shaking speed should be adjustable from 20-180 rpm</p> <p>Shaking stroke should be not less than 18 mm reciprocal per cycle</p> <p>It should have water circulation stirrer to ensure uniform temperature</p> <p>Temperature Range shall be Ambient to 99°C</p> <p>Temperature Stability should be at least ± 0.07 C at 37 C or better</p> <p>Temperature Uniformity should be at least ± 0.5 C or better</p> <p>Temperature resolution should be 0.1 C</p> <p>Timer shall be 90 hrs withhold function</p> <p>It should have safety features such as low water cut off</p> <p>Power Supply: 230V, 50 Hz</p>		

		<p>The water bath should be supplied with flask platform, 6 no of 250 ml ^{or} and 4 no of 500 ml flask clamps</p> <p>Warranty: 24 calendar Months</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/repair immediately</p>		
	26	Water Distillation Unit	2	
Package 5		<p>It should be a distiller which provide continuous output for general laboratory use such as glass ware washing, reagent preparation etc...</p> <p>Output water should be with high purity, free of metal ions and pyrogens.</p> <p>Should have safety features required for unattended operation</p> <p>Should stop the water supply when electrical power is not available and should restart the unit when the power resume</p> <p>Should stop the power when water flow is unavailable and restart whet water the flow resume</p> <p>All water contacting materials including boiling chamber, condenser etc... should be made of good quality 3.3 borosilicate glass</p> <p>Boiling chamber and condenser should be mounted on a metal casing</p> <p>It should have a indicator light to show that water still is under operation</p> <p>The heater should be quartz sheathe lengthens for a better life time</p> <p>It should be with small size for easy handling and cleaning</p> <p>Distillation Capacity should be at least 4 L/H</p> <p>Water Consumption should be 1-1.5 L/MIN</p> <p>Conductivity at 20°C should be 1-2 µS/cm</p> <p>Heater power should not be higher than 3100 W</p>		


	<p>Electricity Supply : 230 V. - 50/60 Hz. - 13A</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/repair immediately</p> <p>Warranty: 24 calendar Months</p>		
Package 6	<p>27 ELISA Reader with Incubator and UV/VIS</p>	<p>3</p>	
	<p>Manufacture product catalogs/brochure with requested information should be supplied. Documentary evidence of requested specifications should be provided by marking on manufacturer's literature.</p> <p>Manufacture authorization letter to represent the given brand and ISO certificate</p> <p>User reference list should be attached. The supplier should have at least 3years experience in maintaining such equipment preferably in government sector</p> <p>The equipment shall be warranted for a period of not less than 24 calendar months from the date of successful commissioning on full “part & labour” basis .Such a warranty shall also include servicing and preventing maintenance during the period of validity.</p> <p>After the sale services: Supplier should have an established after sales service unit with proven records and necessary tools.</p> <p>Supplier should have at least 3-year experience for supply and maintaining similar type of instruments</p> <p><u>Specifications</u></p> <p>200 1000</p> <p>It should have freely selectable wavelengths from 340 to 750nm</p> <p>for the demands of various assays</p> <p>It should supports endpoint, kinetic and spectral scanning assays</p> <p>There shall be a visual internal software on a large color screen for quick and easy measurements</p>		

	<p>Light Source should be Tungsten halogen lamp or xenon flash that will ensure long lasting life time ± 10 Linearity at 405 nm will be not higher than 3% for 96-well plate in the range of 0-2.0 OD</p> <p>Accuracy at 405 nm will be not higher than 1.5% + 0.004 OD in the range of 0.0 - 2.0 OD</p> <p>Read-out Range should be up to 3 or better</p> <p>Measurement speed shall be at least 7 s with 96-well plate 11 s with 384-well plate</p> <p>Incubator temperature range should be 50°C to enable temperature sensitive applications such as enzyme kinetics or cellular assays</p> <p>It should have a Linear shaking mode to ensure that the samples in the micro plate stay homogeneous Spectral Scanning Speed shall be not higher than 12s from 200 to 1000nm with 1nm steps</p> <p>System should work stand alone with built in software o and PC with external software provided as standard accessory</p> <p>Should have support internet cloud system to remote data access.</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 Calendar months</p>		
Package 6	<p>28 Gel Electrophoresis System - Horizontal</p> <div style="border: 1px solid red; padding: 5px;"> <p>01. Gel size (W x L) 25cm x 20.0cm (Approximately)</p> <p>02. Buffer volume 1660ml</p> <p>03. Max samples 300 (Approximately)</p> <p>04. Chamber Chamber should have a safety lid, levelling feet and gauge</p> <p>05. Lid dimensions (WxDxH) 30 x 40 x 10cm (Approximately)</p> <p>06. Tray Should be UV transparent</p> <p>07. Compatibility Should be compatibal with Four multichannel pipet combs per tray size</p> <p>08. Construction Acrylic glass wall</p> <p>System should be supply with</p> </div>	2	

	<p>09. Numbers of Combs3</p> <p>10. Numbers of Wells36 (20 µl each)</p> <p>11. Thickness1mm</p> <p>Power Supply</p> <p>12. Voltage400V (Maximum)</p> <p>13. Current1000mA (Maximum)</p> <p>14. Timer0 to 1,999 minutes or continuous mode Should have Automatic power off function after the given time</p> <p>15. No. of Outputs 4 outputs (Minimum)</p> <p>16. Power200W (Maximum)</p> <p>17. CompatibilityMini vertical or horizontal electrophoresis high-throughput electrophoresis semi-dry blotting as well as tankblotting</p> <p>18. DisplayDigital LCD</p> <p>19. Electrical Requirements230V /50 - 60Hz</p> <p>20. WarrantyTwo years from the manufacturer</p> <p>21. ReferenceLocal agent should have supplied minimum 02 units in Sri Lanka within last 05 years</p> <p>22. Manufacturer AuthorizationLetter should be attached</p>		
	29	Gradient PCR Thermal Cycler	2
Package 6		<p>The unit should be more steady, reliable and durable with the newest generation of Peltier-based technology</p> <p>Should include graphical display of protocols</p> <p>Should be built with 96 wells with 0.20 mL volume</p> <p>Block temperature range : 0°C – 105°C</p> <p>Maximum heating/cooling rate : 5°C±1°C</p> <p>Temperature and column uniformity : ±0.2°C (at 95°C)</p> <p>Temperature and gradient accuracy: ±0.1°C (35°C - 100°C)</p> <p>Display resolution: 0.1°C</p> <p>Mode of temperature control should be sim-tube and block mode</p> <p>Gradient range: 30°C – 105°C</p> <p>Temperature differential range: 1°C – 30°C</p> <p>Gradient capacity : 12 column</p> <p>Power supply : 85-265 V, 50-60Hz</p> <p>Dimensions: 36.2 x 25.6 x 25.5 cm</p> <p>Maximum number of programs: 15,000 programs onboard</p> <p>Maximum number of steps: 30 steps</p> <p>Maximum cycles: 100 typical cycles</p> <p>Should be capable of auto pause and auto restart</p> <p>Should automatically calculate the melting and annealing temperature with two primer sequences</p> <p>Heat lip temperature range : 30°C – 112°C</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p>	

		<p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached. There should be minimum 30 functioning installations within the country</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty : 24 Calendar months</p>		
	30	UV Visible Spectrophotometer	1	
Package 6		<p>It should be a dual beam spectrophotometer with UV/Vis range</p> <p>It should have front and rear panel USB connection to convenient access</p> <p>It should have Xenon Flash Lamp to provide years of maintenance-free performance (At least 5-year life time). Deuterium- tungsten lamp models will be rejected since they have very low life time</p> <p>It should have a reference detector to ensure accurate data measurement from each flash of the lamp.</p> <p>It should have dual beam configuration to send the light to both sample detector and reference detectors for accurate measurement</p> <p>Should have Out-of-Plane monochromator configuration for maximum performance with minimum space requirement</p> <p>The system should have GLP facility giving time, date, instrument serial number, sample ID and user ID for traceability</p> <p>The unit shall operate over the wave length range of 190 to 1100nm with spectral bandwidth not greater than 1.8nm, wavelength accuracy shall be ± 1 nm and repeatability shall be ± 0.5 nm</p> <p>Should have scanning speed up to 4200nm per minutes with 0.2, 0.5, 1.0, 2.0, 3.0, 5.0 nm data intervals</p> <p>The unit shall be capable of performing absorbance, transmittance concentration measurement in the photometric range upto 3.5A, 125%T, ± 9999 C, ± 0.005A accuracy and 0.0002A noise at 0A with at least 0.0005 A/hr stability</p> <p>System should have Xenon Flash Lamp and Dual Silicon Photodiodes as detectors.</p>		

	<p>System should have integrated 6 positions cell changer to Increase sample throughput</p> <p>Should be included Quarts and glass cells 02 from each.</p> <p>Stray Light: 0.08% T at 220nm</p> <p>Display: Large Graphical with LCD backlight to get all the details without using computer</p> <p>Power Requirements: 240 V;50 Hz</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 calendar months</p>		
Package 7	<p>31 Slide Storage Boxes (Dry Cabinette</p> <p>Should fully insulated to improve efficiency and energy saving</p> <p>Should have a digital temperature control with fixed over-temperature cut off</p> <p>Should reduce the heat loss by adjustable vent cover when used for warming process</p> <p>Should made from sheet steel with powder coated paint, with stainless steel interior.</p> <p>Shelves should removable chrome-plated wire grids and fit with adjustable shelf runners</p> <p>Ventilation outlet should be available</p> <p>Ambient temperature : 22⁰C</p> <p>Capacity : 100 L</p> <p>Convection type : Natural convection</p> <p>Number of shelves : 3</p>	4	

	<p>Interior dimensions (W x D x H) : 68 x 38 x 40 cm Exterior dimensions (W x D x H) : 74 x 42 x 60 cm Power supply : 220 -240 V, 50 Hz 02 years warranty period</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied Manufacture authorization for the bidder to represent the given brand User reference list should be attached. There should be minimum 30 functioning installations within the country</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 Calendar months</p>		
Package 7	<p>32 RI detector for Compatible to Thermo Scientific LPG-3400SD (N) UHPLC system</p>	1	
	<p>Refractive index range: 1.00-1.75 RIU or better Optics temperature control: 30⁰C-55⁰C or better Flow Cell: Volume of 8.00 µL with a maximum pressure of 0.5 bar or better Maximum flow rate: 10.00 mL/min or better Linearity range: 600 µRIU or better Noise level: Less than 2..5 x 10⁻⁹ RIU Drift : 200 x 10⁻⁹ RIU/h Measuring method: Detection method</p> <p>Warranty: 24 Calendar months</p> <p> Senior Assistant Bursar/Supplies Subaragamuwa University of Sri Lanka Bolinuloya.</p>		

Package 7	33	Portable Liquid Nitrogen Tank (5.00 L)	1	
		<p>Capacity - 5L Static evaporation loss - 0.13 L/d Static holding time - 186 d Canister outer diameter - 38mm Canister height - 120/276mm Canisters No.(Max) - 3~6 pcs Canisters No. (standard) - 3 pcs Straw holding capacity(single) - 0.5ml - 792 Straw holding capacity(double) - 0.5ml – 1284</p> <p><u>Features</u> Capacity - 5L Static evaporation loss - 0.13 L/d Static holding time - 186 d Canister outer diameter - 38mm Canister height - 120/276mm Canisters No.(Max) - 3~6 pcs Canisters No. (standard) - 3 pcs Straw holding capacity(single) - 0.5ml - 792 Straw holding capacity(double) - 0.5ml - 1284</p>		
Package 7	34	Biosafety Cabinet	1	
		<p>The interior and exterior surfaces should be made from stainless steel and should scratch-free</p> <p>Protection for the user and the environment with safety levels I and II (Calss II A2)</p> <p>Should reduce blower speed when the window is closed</p> <p>Sash opening should have 20 cm working height and should fully opened for thorough cleaning</p> <p>Should maintain a constant airflow during normal filter loading and temporary airflow obstruction from foreign objects</p>		

	<p>Pressure sensor should available to monitor pressure levels to ensure safe airflow across the entire work surface</p> <p>Independent alarm system should available as immediate alert for users to inform about any airflow obstruction</p> <p>Front sash and side glass windows should offer an clear and unobstructed view of the complete work area from all angles Should easily trap spilled liquids</p> <p>Should not expose aerosols to the environment Exhaust air volume : 288 m³/h Light System : >800 lux Exterior dimension (W x D x H) : 100 x 80 x 160 cm Interior dimension (W x D x H) : 90 x 47 x 80 cm Weight : 170 kg 02 years warranty</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached. There should be minimum 30 functioning installations within the country</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p>		
Package 7	<p>35 Biosafety Cabinet for Virology</p> <p>The work chamber should made of stainless steel; Front sash should be lifted for equipment loading. Should be made of triplex and should supplied with two glove ports. Sash is resistant to UV-light and disinfectant solutions; Each glove portshould equipped with a butyl chamber glove and a silicon sealing O-ring. Features of the gloves: high impermeability (water, gas, vapor), used at wide temperature range, resistant to solvents and high-concentration acids, used for medical, pharmaceutical, chemical and biotechnological research; Ten-liter liquid gathering tray without drain made of stainless steel is located in the bottom of the work chamber; Two work chamber LED lighting units;</p>	1	

	<p>Removable electrical sockets in the work chamber (on the left side wall); UV light inside the chamber; Pressure gauge of -500 Pa to +500 Pa. Purification System of Supplied and Exhausted Air</p> <p>Filtering system of the air supplied to the chamber has two steps: preliminary coarse filter G4 and plenum HEPA-filter H14 located above the work chamber; Two-step filtering system of the air exhausted from the work chamber is executed through two consecutive HEPA filters H14; Supply and exhaust filtering module for removal of the air from the chamber is supplied with two fans.</p> <p>Pass Box</p> <p>Outer panels of the pass box are made of metal covered with powder enamell; Inner chamber is leak-tight and made of stainless steel; Angular door location: outer door is in front, inner door is built into the side wall of the work chamber; The doors of the pass box are equipped with latch handle made of stainless steel; The doors of the pass box are featured with electromechanical handle locks preventing simultaneous opening of both of the doors; Windows of the pass box are made of tempered glass; LED lighting of the pass box;UV light; Pullout tray made of stainless steel ensuring easy transferring of the objects from the pass box into the work chamber.</p> <p>Control System</p> <p>Microprocessor control system of the electroautomatics Sluice control unit is a button box with indication of sluice's doors and locks statuses; Air balance parameters sensors; Built-in power cord; Separate safety devices for fans and removable sockets; Switch for removable sockets unit installed in the work chamber.</p> <p>Control Elements of Air Flow Parameters</p>		
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--

Bidders Response

	Item No	Name and Minimum Requirement	Bidder's Response		If "No" indicate the specification offered
			Yes	No	
	Laboratory Equipment & Glassware				
Package 1	1	Autoclave Standalone			
		<p>Instrument should be a fully automatic instrument</p> <p>Suitable for Sterilize culture media, glass, liquids, plastic, metallic elements, waste bag</p> <p>External case, top, chamber and lid made of stainless steel</p> <p>The autoclave should be a temperature-controlled autoclave, not a pressure-controlled autoclave</p> <p>The Instrument should be built to ASME Guidelines and Should have CE certification</p> <p>Should be able to run 4 cycles in 8 hours with cooling time</p> <p>Instrument should be built with movable wheels</p> <p>Microprocessor controlled digital display</p> <p>Manual Valve to drain</p> <p>Safety valve and thermostat and sensor for low water level</p> <p>single lever locking lid with assisted lifting Sensor for open lid</p> <p>The lid should be open sideways ^{Upwards} from the user</p> <p>capacity 50 Liters (effective capacity) minimum</p> <p>Temperature 100-122 o C</p> <p>Pressure 15 psi</p> <p>Overall dimensions approximately WxDxH cm 60x50x90</p> <p>Voltage: external power supply 240V, 50/60Hz.Single phased.</p> <p>Accessories –</p> <p>2 No. of Stainless-steel wire baskets with separator</p> <p>8 No. of Test tube rack (13 mm X 40)</p> <p>2 No. Pipette box (canisters) 50 X 450 mm (Dia X Height)</p> <p>Maximum down time attending a problem should be within a day</p> <p>Warranty – 2 Year minimum</p> <p>Spare parts availability- 10Years</p> <p>Local Agent authorization letters</p> <p>List of users for Identical model</p>			

		Specifications should be clearly marked on Manufactures literatures			
Package 1	2	CO₂ Incubator			
		<p>It should have Polished stainless steel interior with coved corners.</p> <p>Stainless steel shelves and supports should be designed to support a full product load, and can be readily removed without tools for easy cleaning</p> <p>Microbiological filters are provided on gas inlet</p> <p>Inner door gasket should be able to remove for cleaning</p> <p>In-chamber HEPA air filtration system should continuously filter the entire chamber volume every 60 seconds reducing particulates to Class 100 cleanroom levels</p> <p>The HEPA filter entraps particulate air contaminants and prevents their escape</p> <p>Optimized air flow system design will not interfere with samples or incubator function</p> <p>Class 100 air quality conditions should be achieved within five minutes</p> <p><u>Temperature</u></p> <p>Temperature Range: 5°C above ambient to 50°C with control of $\pm 0.1^{\circ}\text{C}$</p> <p>Uniformity $\pm 0.3^{\circ}\text{C}$ @ 37°C</p> <p>Over temperature shut off facility should be available</p> <p><u>CO₂</u></p> <p>CO₂ control range: 0-20% with control of $\pm 0.1\%$</p> <p>Sensor T/C</p> <p>Readability should be 0.1%</p> <p>Tracking Alarm should be User-programmable high/low</p> <p><u>Humidity</u></p> <p>Humidity range should be Ambient to 95% @ 37°C</p> <p>Humidity Pan should be 3.0 liters capacity</p> <p><u>Shelves</u></p> <p>Construction Stainless steel, perforated with standard 4 shelves</p> <p>Interior Volume should be not less than 180L</p>			

		<p>Interior should be 304 grade polished stainless steel</p> <p>Exterior 18 gauge, cold-rolled steel, powder coated</p> <p>Outer Door Gasket Four-sided, molded, magnetic vinyl</p> <p>Inner Door Gasket Removable, cleanable, feather-edged, silicone</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 calendar months</p>			
Package 1	3	<p>Incubator</p> <p>Capacity of the Oven should be no less than 150L with digital operating system</p> <p>the equipment should be designed with non rusting hinges and wire mesh shelves</p> <p>Should have a see through window to observe sample when incubator is at operation</p> <p>internal clear bottoms and rounded corners should be for easy cleaning</p> <p>internal should be stainless steel and exterior should be epoxy coated for better heat resistant</p> <p>should have PID temperature controller for better accuracy</p> <p>should be constructed with a stainless-steel handle with a positive latch system for safety</p> <p>should be supplied with at least 2 shelves</p> <p>the shelves height should be adjustable in 25 mm steps</p> <p>should have a safety function for floating overshoot</p> <p>Temperature range - from ambient +5 to at least 70 °C at least</p> <p>Temperature uniformity $\pm 0.5^{\circ}\text{C}$</p> <p>Temperature control accuracy ± 0.2 minimum</p> <p>power consumption should be less than 500W</p> <p>Should be supplied with at least 2-year standard warranty</p>			

		<p>All the Specifications should be marked on manufactures brochures</p> <p>Warranty: 24 Calendar Months</p>			
Package 1	4	<p>Membrane Filtration Apparatus with Membranes</p> <p>Filtration apparatus should be easy to assemble, disassemble and clean</p> <p>Should be made from Borosilicate glass</p> <p>The apparatus should include a vacuum filtration Erlenmeyer flask, a jacket filter funnel with 1” beaded pipe inlet/outlet, a three adapter, a porosity glass filter disc with 25-50 micron porosity and a retaining ring</p> <p>Membrane filter pore size: 75.0 mm</p> <p>Volume of the Jacket funnel: 1000.0 mL</p> <p>Volume of Filter flask: 2000.0 mL</p> <p>Warranty: 24 Calendar Months</p>			
Package 2	5	<p>Bench-top pH meter</p> <p>It should be a bench top PH meter with PH Range of 0-14 pH to use in the laboratory for general applications</p> <p>PH Resolution should be 0.01 PH while accuracy is ± 0.02 pH or better</p> <p>mV Range should be ± 1999 mV with resolution of 1 mV while accuracy is ± 1 mV or better</p> <p>Temperature Range should be 50C to 1000C with resolution of 0.1C while accuracy is ± 0.7 °C or better</p> <p>The meter should have auto buffer recognition facility.</p> <p>Calibration should be 3 point with calibration buffers 4.01, 7.00, 10.01</p> <p>It should have Automatic or Manual Temperature Compensation facility</p> <p>The display should be Liquid Crystal Display</p> <p>The equipment should be supplied with stand-alone Electrode Arm.</p> <p>The display of the meter should give error messages if any, to help the user to identify the problem</p> <p>There should be a memory to store up to at least 90 Measurements and most recent calibration date</p>			

		<p>RS 232 interface should be available for data transfer to a printer or a PC</p> <p>The meter should be supplied with plastic refillable pH electrode / buffer powder set</p> <p>Power: 240v/50 Hz</p> <p>The manufacture should have ISO 9001 certified, meter should have electromagnetic Compatibility of EN standard</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 Calendar months</p>			
Package 2	6	<p>X-ray Illuminator</p> <p>Color Temperature: Cool white 6500⁰K</p> <p>Protection fuse: 2 x 1A</p> <p>Bipolar light switch</p> <p>Schuko plug with 2m cable</p> <p>All components UL, DVE, IMQ approved</p> <p>Light box: 92 x 38 cm</p> <p>Exterior Dimensions (L x D x H x W): 47 x 97 x 12 x 11 cm</p> <p>Types: 2 panels, vertical</p>			
Package 2	7	<p>Drying Oven for Glassware</p> <p>Capacity of the Oven should be no less than 150L with digital operating system</p> <p>the equipment should be designed with non rusting hinges and wire mesh shelves</p> <p>Should have a see through window to observe sample when oven is at operation</p> <p>internal should be stainless steel and exterior should be epoxy coated for better heat resistant</p> <p>should have PID temperature controller for better accuracy with industrial grade heaters are preferred</p>			

		<p>the inner corners should be seamless for easily cleanable</p> <p>should be constructed with a stainless steel handle with a positive latch system for safety with silicon gasket in doors</p> <p>should be supplied with at least 2 shelves</p> <p>the shelves height should be adjustable in 25 mm steps</p> <p>should have a safety function for over temperature and electric overload</p> <p>Should have function of automatically heater and blower cutoff when the door is opened</p> <p>Temperature range up to at least 250 °C at least from 50°C</p> <p>Temperature accuracy $\pm 2.0^{\circ}\text{C}$ at 100°C minimum</p> <p>Temperature control accuracy ± 0.5 minimum</p> <p>Should be supplied with at least 1 year standard warranty</p> <p>All the Specifications should be marked on manufactures brochures</p> <p>The equipment shall be warranted for a period of not less than 12 calendar months from the date of successful commissioning on full "parts and labor" basis. Such a warranty shall also include servicing and maintenance during the period of validity. Tenderers must specify in detail the means available to them to implement such a warranty.</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 Calendar months</p>			
Package 2	8	<p>Homogenizer</p> <p>Should be light weighted and easy to handle</p> <p>Safety switch should be available for emergency stop and overload protection should be available</p> <p>Motor drive should be smooth and easy to operate</p>			

		<p>All dispersing shafts should interchangeable for easy dismantling and cleaning</p> <p>Dispersing shafts should be made from stainless steel to avoid corrosion and should autoclavable</p> <p>Speed range: 8000 – 30000 rpm</p> <p>Working volume (H₂O): 0.1 – 50.0 mL</p> <p>Maximum viscosity : 5000 mPas</p> <p>Ambient Temperature: 0-40⁰C</p> <p>Relative humidity: 85%</p> <p>Power supply: 110/220V±10%, 50/60Hz</p> <p>Dimensions (W x D x H): 40 x 20 x 15 cm</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty : 24 Calendar Months</p>			
Package 3	9	<p>Micropipette</p> <p>0.10-2.50 µL</p> <p>100-1000 µL</p> <p>2.00-20.00 µL</p> <p>20.00-200.00 µL</p> <p>0.50-10.00 µL</p>			
		<p>Micropipette should be fully autoclavable without disassemble</p> <p>Shall have high level of Precision and Accuracy to obtain correct results</p> <p>Better protection against chemical and physical corrosion</p> <p>Should be supplied with individual QC and calibration report in accordance with ISQ 8655</p> <p>Should have CE & IVD complains</p> <p>Pipette handle should have thermal resistant, which prevents transfer of body heat to obtain high accuracy during continuous use</p> <p>Shall have UV resistance</p>			

		<p>Large and clear 4 digit-display</p> <p>Should be light weight for ergonomic use</p> <p>Should have volume lock for accuracy</p> <p>Color coding should be available for easy identification</p> <p>There should be authorized local agent for the manufacture in Sri Lanka and shall provide letter of authorization with the tender/Quotation</p> <p>Local agent should have facility to calibrate the micropipette</p> <p>Minimum Two year warranty</p> <p>After the sale services: Suppler should have an established after sales service unit with proven records and necessary tools. Supplier should have at least 3 year experience for supply and maintaining similar type of instruments</p>			
Package 3	10	Binocular Microscope			
		<p>Optical system</p> <p>The models equipped with plan infinity corrected optical system</p> <p>All optics (including eyepieces and objectives) should be antifungal treated against fungal growth.</p> <p>Head</p> <p>Binocular head ,360° rotatable</p> <p>, 30° inclined siedentopf type</p> <p>Dioptor adjustment + -5 on left eye piece</p> <p>Interpupillary distance adjustment at least 48-75mm</p> <p>Eyepieces</p> <p>Paired 10x, 20mm Field of View (FOV) with eye guard</p> <p>Eye piece to be fixed and can not be removed easily</p> <p>Eye piece to be adjusted at different height to compensate for user height and for comfortable viewing</p> <p>Objective</p> <p>Plan Achromatic, Infinity color corrected 4x, 10X, 40X and 100x(Oil) objectives to be supplied</p>			

Longer working distance between slide and objectives
working distance 20mm or better

Nosepiece

Inward tilt quintuple nosepiece revolving type

Slot for polarization filter is required on the nosepiece

Illumination system

Adjustable Low heat 3W LED illumination system

Fully adjustable Kohler Illumination

Condenser

Abbe N.A. 1.25 condenser for brightfield/ iris diaphragm and
swing-out filter holder

Blue, Green and Yellow filters to be supplied

Stage

Scratch resistant rack less with no protrusion, Right hand
control large mechanical stage with Vernier scale and
removable Slide clips.

Stage size: 190x130 mm or larger

Stage movement minimum 75mm (x) 35mm (y) with low
position Xy controls Be able to upgrade with Heated stage
with temperature control system

Stage Adjustment

Double coaxial, graduated low-positioned coarse and fine
adjustments. With 180 graduations and 1 μ m precision. Total
travel 20mm

Fine adjustment of 200 μ m per rotation

Adjustable friction control and rack stop mechanism to
prevent objectives and slide damages

all controls to fix close together with no arm rests should
allow comfortable operation

Power Supply: Units to be operate with inbuilt rechargeable
battery and through main power 220 - 240 Vac 50/60 Hz

	<p>Carrying Handle: Microscope to have integrated carrying handle built in to microscope body. Color coded for carrying handle to identify the holding position.</p> <p>Cable Storage: Inbuilt cable storage to store the cables when microscope not in use and to store excess length of power cable to protect microscope.</p> <p>Security slot to fix microscope to prevent unauthorized removal of microscope is required</p> <p>Accessories to be supplied: System should be supplied with Microscope, Rechargeable battery, Dust cover, spare fuse, immersion oil, white filter and user manual.</p> <p>Minimum Five-year manufacture warranty for Optical parts and mechanical parts. Documentary evidence from manufacturer should be attached</p> <p>Microscope should be suitable to tropical environment and should be a proven product at least 50 microscopes be in successful use. Please provide the details of previous supplies with user contact details</p> <p>Information about after sales service personnel, their qualification and address of the after sales division need to provide</p> <p>Letter of authority should be given from manufacturer to represent quoted brand to this tender</p> <p>Warranty: 24 Calendar months</p> <p>After the sale services: Supplier should have an established after sales service unit with proven records and necessary tools. Supplier should have at least 3-year experience for supply and maintaining similar type of instruments.</p>			
--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

Package 3	11	Sperm Counting Chamber			
		24"HD touch screen interface 75 second automated testing cycle Barcode scanner Built in LIS interface Fully customizable reporting High resolution visualization system Recording video clips and capture image Interactive help menus on each page Built in timer for sample preparations Click to mark visualization counters Automatic backup and restore functions Programmable QC alerts Integrated maintenance checklists and alerts Warranty: one year			
Package 3	12	Camera with Light panel and Horizontal tripod			
		<u>Camera</u> 24.2MP APS-C Exmor CMOS Sensor BIONZ X Image Processor Real-Time Eye AF & Real-Time Tracking XGA Tru-Finder 2.36m-Dot OLED EVF 20.1MP stacked back illuminated 1" Exmor RS CMOS sensor w/ DRAM Enhanced subject capture: wide 425 Phase/ 425 contrast detection points over 84 percent of the sensor Fast & accurate: Up to 11Fps continuous shooting at 24.2 MP raw with crisp, clear natural colors Multiple movie functions: Make time lapse movies or slow/quick motion videos without post processing Tiltable LCD screen: customizable for vlogging, still photography or recording a professional film In the box: rechargeable battery (NP FW50) AC adaptor (ac uud12), shoulder strap, body cap, accessory shoe cap, eyepiece cup, micro USB cable. Metering Type: 1200 zone evaluative metering Interchangeable Lens 4K Video Flip Screen Warranty: one year			

		<p><u>Lens</u></p> <p>16-50mm Lens large aperture 24-70mm1 F1.8-2.8 ZEISS Vario-Sonnar T lens Warranty: one year</p> <p><u>Light Panel</u></p> <p>Light Fixture Color Temperature :3300 to 5600K ± 300K Color Accuracy Standard: CRI 95 ,TLCI 95 Dimming: Yes, 10 to 100% Photometric :3300K:53.9 fc / 580 lux at 1.64' / 0.5 m 4500K:58.5 fc / 630 lux at 1.64' / 0.5 m 5600K:63.2 fc / 680 lux at 1.64' / 0.5 m Connector: 1pcs Focal Length :None Remote Operation Remote Control Type :None Max Power Consumption :12 W</p> <p><u>Horizontal tripod</u> Camera Tripod with Telescopic Horizontal Column Arm Ball Head for Macro Shoot/Video Camcorder, Warranty: one year</p>			
Package 4	13	<p>Micro Centrifuge</p> <p>The unit features autoclavable, avoiding of heat generation and corrosion-free rotors to ensure safety and long life. The design should build to accommodate PCR tubes and micro tubes with the volume of 0.20 – 2.00 mL. The maximum capacity of the rotor should 24 tubes with 1.5/2.0 mL and 4 x 8 PCR strips. Operation of the unit can be timed, continuous, or momentary using a separate button (ex: “Pulse Button”) Vibration free operation is ensured by an isolation system. In the event of a significant imbalance, operation of the centrifuge is automatically stopped for safety.</p>			

		<p>Deceleration at the end of a run is very quick, but will not disrupt samples.</p> <p>Key lock function should be available to set parameters secured during the operation.</p> <p>The imbalance of mounted tubes should be cut-off</p> <p>The rotor should be fixed angle one with hole diameter 11.1 mm</p> <p>Mounted lips should be protected with a lid on the rotor to avoid the drop of tubes during the operation.</p> <p>Lid of the rotor ^{centrifuge} should be automatically released at the completion of the operation.</p> <p>Speed is easily set and displayed in either rpm or rcf and rpm / rcf conversion should be available</p> <p>Speed range: 500 – 15000 rpm</p> <p>Maximum rcf : 17135 xg</p> <p>Dimension (W x D x H) : 27.7 x 45.0 x 24.75 cm (Aprox.)</p> <p>Weight without rotor: 18 kg</p> <p>Power supply: 220 V, 50-60 Hz</p> <p>Minimum 02 years warranty</p> <p>Documentation</p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached. There should be minimum 30 functioning installations within the country</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p>			
Package 4	14	<p>Centrifuge</p> <p>The Centrifuge should have a feature to install and remove rotor without tool in less than 5 seconds with just a push of a button for quick and easy change of rotors for different applications.</p> <p>The centrifuge should be manufactured with quality materials providing broad chemical resistance with exceptional strength for durability and reliability</p>			

		<p>It should be a microprocessor control system with digital display</p> <p>The centrifuge must have a minimum of 3 direct program buttons, with alphanumeric program naming</p> <p>It should have Fast acceleration and deceleration times for quicker spins</p> <p>Alphanumeric program naming, of up to 10 characters, will promote correct program selection every time</p> <p>It should have a timer of 90h and continuous</p> <p>Highly visible, backlit display should be available for clear reading of parameters across the lab</p> <p>Stainless Steel centrifugation chamber that can be cleaned easily and quickly will be available</p> <p>Imbalance Detection System with continuous vibration measurement will be available with rotor mass correction</p> <p>Sound level should be less than 61 dBA</p> <p>Instrument should be easily toggle between RCF and RPM</p> <p>Acceleration /Deceleration Rates-2 (standard and soft)</p> <p>It should be supplied with Swing out rotor with 50mlx4 adapter and 15mlx8 adapters. Speed and centrifugal force should be at least 4,500 rpm and 3,200xg</p> <p>The centrifuge must be UL Listed / CE marked / IVD compliant / Certified biocontainment</p> <p>Documentation</p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty – 2 Year minimum</p>			
Package 4	15	<p>High Speed Mini Centrifuge</p> <p>The Centrifuge should have a feature to install and remove rotor without tool in less than 5 seconds with just a push of a button for quick and easy change of rotors for different applications.</p>			

	<p>The centrifuge should be manufactured with quality materials providing broad chemical resistance with exceptional strength for durability and reliability</p> <p>It should be a microprocessor control system with digital display</p> <p>The centrifuge must have a minimum of 3 direct program buttons with alphanumeric program naming</p> <p>It should have fast acceleration and deceleration times for quicker spins</p> <p>Alphanumeric program naming of up to 10 characters will promote correct program selection every time.</p> <p>It should have a timing range of 15s – 99 min</p> <p>Large LED display should be available to indicate speed and the set time</p> <p>Large LED display should be available to indicate speed and the set time</p> <p>Stainless Steel centrifugation chamber that can be cleaned easily and quickly should be available</p> <p>Imbalance Detection System with continuous vibration measurement will be available with rotor mass correction</p> <p>The centrifuge should stop automatically when the cover opens during running and restart running after cover closed</p> <p>Instrument should be easily toggle between RCF and RPM</p> <p>Speed range : 800 – 15000 rpm</p> <p>Maximum rcf: 15100 xg</p> <p>Exterior dimensions (W x D x H) : 23 x 22 x 13 cm (Aprox)</p> <p>Interior dimensions (W x D x H) : 33 x 34 x 27 cm (Aprox)</p> <p>Power supply: 110/220 V\pm10%, 50-60 Hz</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 Calendar months</p>			
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

Package 4	16 Refrigerated Micro Centrifuge			
	<p>The unit features powerful brushless motor and an intuitive control panel</p> <p>This refrigerated micro centrifuge model that incorporates a powerful cooling system that maintains temperatures as low as -10°C and can reach 4°C in less than eight minutes. Speed is easily set and displayed in either rpm or rcf.</p> <p>Operation of the unit can be timed, continuous, or momentary using the "Quick" button.</p> <p>Vibration free operation is ensured by an isolation system. In the event of a significant imbalance, operation of the centrifuge is automatically stopped for safety.</p> <p>Deceleration at the end of a run is very quick, but will not disrupt samples.</p> <p>These micro centrifuges are supplied with a uniquely designed 24 x 1.5 / 2.0 mL rotor that allows easy access to the tops of the sample tubes.</p> <p>Individual tube slots in the solid aluminum rotor support tubes along their length and contain the sample in the event of tube failure.</p> <p>Adapters are available for smaller tubes as well as PCR strips</p> <p>The rotor is seated on a tapered shaft which facilitates easy removal for cleaning and autoclaving.</p> <p>Speed range : 500 to 13,500 rpm</p> <p>Maximum RCF: 17,135 x g</p> <p>Maximum capacity: 24 x 1.5/2.0 mL</p> <p>Timer : 0.5 to 99 minutes or continuous, "Quick" button for momentary operation</p> <p>Temperature range: -10° to 40°C</p> <p>Dimensions (W x D x H) : 10.9 x 17.75 x 9.75 in/27.7 x 45 x 24.75 cm</p> <p>Weight : 44 lb/20 kg</p> <p>Electrical : 230V~, 50 Hz or 120V~, 60 Hz</p> <p>Minimum Two year warranty</p>			

Package 4	17	Extruder Set with Holder/Heating Block			
		<p>Extruder should allow researchers and scientists to prepare large, unilamellar vesicles by extrusion in an efficient manner.</p> <p>Rapid cleaning of all wetted parts, reducing “down-time” between production of vesicles from different lipid species.</p> <p>Generate uniform populations of unilamellar liposomes without the use of solvents or detergents.</p> <p>Vesicle size readily controlled by polycarbonate membrane selection.</p> <p>Extruder with heating block should allow the extrusion of vesicles at elevated temperatures, which is critical for the successful production of vesicles from phospholipids with a phase transition temperature above room temperature.</p> <p>Kit should be included mini-extruder, Extruder Holder and heating Block, 2 syringe size (250µL and 1000µL) and a choice of pore size for 100 polycarbonate membrane (0.03µm to 1µm), 100 filter supports and instructions, 316 Stainless Steel Membrane Forceps, O-rings for extruder</p> <p>Manufacturer authorization should be attached.</p> <p>Warranty: 24 calendar months</p>			
Package 4	18	Probe Sonicator with Probe and Sound Enclosure			
		<p>State of the art touch screen interface</p> <p>Amplitude control from 1-100%</p> <p>Programmable- processing time, pulse on and off, amplitude, information should be save to memory and run</p> <p>Adjustable pulse on and off</p> <p>Temperature probe with monitoring capability</p> <p>Shutdown if T exceeds</p> <p>Lead free-programmable with amplitude and auto tuning</p>			

		<p>A large, color LCD touch screen, clear display of all operating parameters</p> <p>Completed with-Generator Converter</p> <p>Standard probe-1/2", 3/4" and 1" horns</p> <p>Power cable</p> <p>Converter cable</p> <p>Wrench set</p> <p>Horns/probes-titanium, solid tips</p> <p>Replacement tips for standards-0.2ml 1/16"(2mm) 320um</p> <p>Probes-1-15ml 1/8"(3mm) 380um</p> <p>10-50ml 1/4" (6mm) 200um</p> <p>Solid tip 20-250ml 1/2" (13mm) 120um</p> <p>Sound enclosure -reduces noise by 20dBa or better</p> <p>Internal support rod and converter mounting system</p> <p>Ability to enclosure of temperature monitoring probe</p> <p>Interior walls lined with acoustical foam</p> <p>Door with a window with good visual picture</p> <p>Portable</p> <p>Minimum Two year warranty</p> <p><u>Documentation</u></p> <p>24 months from date of successful commissioning on full "part and labor" basis. Servicing and preventing maintenance for validity period</p>			
	19	Microwave Oven			
Package 5		<p>The oven should include stainless steel cavity and wrapper</p> <p>Interior Dimensions (W x D x H): 33.0 x 33.0 x 20.4 cm</p> <p>Exterior Dimensions (W x D x H): 50.0 x 38.0 x 30.0 cm</p> <p>Microwave should turn on instantly.(2-3 second delay will be accepted)</p> <p>Can be operated in manual or automatic mode</p> <p>Thermal probe should be removable and easy field replacement</p> <p>Cavity air should be removed through chemically resistant duct</p> <p>Fresh air should be pulled into cavity via fan</p> <p>2 clamps should be available for the exhaust duct</p> <p><u>Documentation</u></p>			

		<p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached. There should be minimum 30 functioning installations within the country</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p>			
	20	Freezer -20°C			
Package 5		<p>Upright freezer with not less than 250L capacity</p> <p>Microprocessor control with adjustable temperature range-10 to -20°C</p> <p>Should have LED digital display for clear observation</p> <p>Should have permanently lubricated cooling fan for safety and longevity</p> <p>Cold design shelf for fast removal of product heat load</p> <p>Audible and visible flashing light alarm indicates for sensor error, high/low temperature and high/low ambient temperature</p> <p>Five storage drawers with door lock for storage safety</p> <p>Should have voltage tolerance design with applicable voltage range of 190-240 V</p> <p>Power consumption should not more than 350W</p> <p>External dimensions should not more than 700 x 700 x 1700 mm (w*d*h) Freezer should have CE certificate</p> <p>The equipment shall be warranted for a period of not less than 24 calendar months from the date of successful commissioning on full "part & labor" basis. Such a warranty shall also include servicing and preventing maintenance during the period of validity.</p> <p>After the sale services: Suppler should have an established after sales service unit with proven records and necessary tools. Supplier should have at least 3-year experience for supply and maintaining similar type of instruments.</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p>			

		<p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached.</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty : 24 Calendar Months</p>			
Package 5	21	<p>Refrigerator</p> <p>240L Capacity</p> <p>R600a gas saves energy</p> <p>6th Sense Deep Freeze Technology</p> <p>Up to 40% Faster Bottle Cooling</p> <p>Up to 50% Faster Ice Making</p> <p>Up to 3 times longer cooling retention in power cut</p> <p>7 Days garden freshness</p> <p><u>Features</u></p> <p>Tower Cooling System</p> <p>Works Without a stabilizer</p> <p>Toughened Glass Shelves</p> <p>Warranty: 24 Calendar months</p> <p>Documentation</p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p>			
Package 5	22	<p>Digital Heat Block</p> <p>Controller Type: PID digital</p> <p>Dimensions (L x W x H): 288 x 200 x 100 mm (11.3 x 7.9 x 3.9 in.)</p> <p>Temperature Range (Metric) 20°C to 130°C 20-25 C to 130 C</p> <p>Relative Humidity: <80%</p> <p>Material: Powder-coated Steel</p> <p>Fuse: 250V and 2.5A</p>			

		<p>Frequency: 50/60 Hz</p> <p>Heating Rate: ≤ 20 min. 20° to 130°C</p> <p>Includes: Dry bath, CN, EU and UK plugs, block lifter</p> <p>No. of Blocks:2</p> <p>Plug Type: CN, EU and UK plugs</p> <p>Temperature Accuracy: $\leq \pm 0.5^{\circ}\text{C}$</p> <p>Temperature Uniformity: $\leq \pm 1^{\circ}\text{C}$</p> <p>Timer: 0 to 99:59 min or continuous</p> <p>Warranty: 24 Calendar months</p> <p>Tube well size-0.2ml to 1.5ml</p>			
Package 5	23	<p>Laptop cooler</p> <p>Should be able to use repeatedly for up to 45 min</p> <p>Should be made from break resistant material with a convenient carrying handle</p> <p>Sliding on the bench surface should be avoided with proper adjustments</p> <p>Temperature ranges : 0°C to -20°C</p> <p>Tube compatibility: 0.2 - 0.5 mL</p> <p>Holding temperature and Time: $\geq 0^{\circ}\text{C}$, 1 hour</p> <p>Capacity: 20 x 0.2/0.5 mL</p> <p>Warranty: 24 Calendar Months</p>			
Package 5	24	<p>Water Purification System – Deionized</p> <p>The system should produce ASTM I & ASTM II type water simultaneously.</p> <p>It should be suitable to feed with direct tap water</p> <p>It consists of a microprocessor control system that will ensure proper working condition</p> <p>The system should be supplied with UV-oxidation facility</p> <p>Output water rate should be 3 L/hr</p> <p>Flow rate should be at least 1-1.2 L/min</p> <p>Conductivity should be $0.06\ \mu\text{S/cm}$ or better</p> <p>Resistivity should be $18.2\ \text{m ohm} \times \text{cm}$ or better</p> <p>Particles level should be less than $1\ \mu\text{m/mL}$</p> <p>Bacterial content should be less than 1 CFU/ml</p> <p>TOC value should be less than 5 ppb</p> <p>Combination of pretreatment and the reverse osmosis membrane and Polishing cartridge containing high-quality ultrapure resin will ensure</p>			

		<p>consistent purity and long cartridge life</p> <p>System should have ion exchange cartridge to remove ions from the pretreated water</p> <p>The model should be constructed with pigment-free material</p> <p>Conical bottom outlet will allow for complete draining and efficient cleaning and disinfection</p> <p>It should consist of a built in tank with 5-7.5 L</p> <p>It should have automatic water recalculation through the dispenser tubing to protect it from internal bacteria growth</p> <p>It should have real-time clock and code protected operating system</p> <p>There shall be an alphanumeric LCD display</p> <p>Conductivity measuring cell will be available to display conductivity of purified water</p> <p>It should have an ergonomic controlling unit that can be swiveled for best keypad use</p> <p>Power: 230V/50Hz</p> <p>A pretreatment filter should be supplied to increase the life time of the cartridges in the water system</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately.</p> <p>Warranty: 24 Calendar Months</p>			
Package 5	25	<p>Water Bath Shaking</p> <p>It should be an equipment combined with heated bath and mechanical shaking function Construction: Steel outer housing and seamless stainless steel inner chamber with round corners for added strength and easy clean</p> <p>Working capacity should not be less than 17 L</p> <p>Temp. setting and Read out should be digital</p> <p>It should have microprocessor PID temperature control system</p> <p>Shaking speed should be adjustable from 20-180 rpm</p>			

		<p>Shaking stroke should be not less than 18 mm reciprocal per cycle</p> <p>It should have water circulation stirrer to ensure uniform temperature</p> <p>Temperature Range shall be Ambient to 99°C</p> <p>Temperature Stability should be at least ± 0.07 C at 37 C or better</p> <p>Temperature Uniformity should be at least ± 0.5 C or better</p> <p>Temperature resolution should be 0.1 C</p> <p>Timer shall be 90 hrs withhold function</p> <p>It should have safety features such as low water cut off</p> <p>Power Supply: 230V, 50 Hz</p> <p>The water bath should be supplied with flask platform, 6 no of 250 ml and ^{or} 4 no of 500 ml flask clamps</p> <p>Warranty: 24 calendar Months</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p>			
Package 5	26	<p>Water Distillation Unit</p> <p>It should be a distiller which provide continuous output for general laboratory use such as glass ware washing, reagent preparation etc...</p> <p>Output water should be with high purity, free of metal ions and pyrogens.</p> <p>Should have safety features required for unattended operation</p> <p>Should stop the water supply when electrical power is not available and should restart the unit when the power resume</p> <p>Should stop the power when water flow is unavailable and restart whet water the flow resume</p>			

		<p>All water contacting materials including boiling chamber, condenser etc... should be made of good quality 3.3 borosilicate glass</p> <p>Boiling chamber and condenser should be mounted on a metal casing</p> <p>It should have a indicator light to show that water still is under operation</p> <p>The heater should be quartz sheathe lengthens for a better life time</p> <p>It should be with small size for easy handling and cleaning</p> <p>Distillation Capacity should be at least 4 L/H</p> <p>Water Consumption should be 1-1.5 L/MIN</p> <p>Conductivity at 20°C should be 1-2 μS/cm</p> <p>Heater power should not be higher than 3100 W</p> <p>Electricity Supply : 230 V. - 50/60 Hz. - 13A</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 calendar Months</p>			
Package 6	27	<p>ELISA Reader with Incubator and UV/VIS</p> <p>Manufacture product catalogs/brochure with requested information should be supplied. Documentary evidence of requested specifications should be provided by marking on manufacturer's literature.</p> <p>Manufacture authorization letter to represent the given brand and ISO certificate</p> <p>User reference list should be attached. The supplier should have at least 3years experience in maintaining such equipment preferably in government sector</p>			

The equipment shall be warranted for a period of not less than 24 calendar months from the date of successful commissioning on full “part & labour” basis .Such a warranty shall also include servicing and preventing maintenance during the period of validity.

After the sale services: Suppler should have an established after sales service unit with proven records and necessary tools. Supplier should have at least 3-year experience for supply and maintaining similar type of instruments

Specifications

It should have freely selectable wavelengths from 200 to 1000 nm for the demands of various assays

It should supports endpoint, kinetic and spectral scanning assays

There shall be a visual internal software on a large color screen for quick and easy measurements

Light Source should be Tungsten halogen lamp or xenon flash that will ensure long lasting life time

Linearity at ± 10 405 nm will be not higher than 3% for 96-well plate in the range of 0-2.0 OD

Accuracy at 405 nm will be not higher than 1.5% + 0.004 OD in the range of 0.0 - 2.0 OD

Read-out Range should be up to 3 or better

Measurement speed shall be at least 7 s with 96-well plate 11 s with 384-well plate

Incubator temperature range should be 50°C to enable temperature sensitive applications such as enzyme kinetics or cellular assays

It should have a Linear shaking mode to ensure that the samples in the micro plate stay homogeneous Spectral Scanning Speed shall be not higher than 12s from 200 to 1000nm with 1nm steps

System should work stand alone with built in software o and PC with external software provided as standard accessory

Should have support internet cloud system to remote data access.

Documentation

		<p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 Calendar months</p>			
Package 6	28	Gel Electrophoresis System - Horizontal <p>01. Gel size (W x L)25cm x 20.0cm (Approximately)</p> <p>02. Buffer volume1660ml</p> <p>03. Max samples300 (Approximately)</p> <p>04. ChamberChamber should have a safety lid, levelling feet and gauge</p> <p>05. Lid dimensions (WxDxH)30 x 40 x 10cm (Approximately)</p> <p>06. TrayShould be UV transparent</p> <p>07. CompatibilityShould be compatibal with Four multichannel pipet combs per tray size</p> <p>08. ConstructionAcrylic glass wall</p> <p>System should be supply with</p> <p>09. Numbers of Combs3</p> <p>10. Numbers of Wells36 (20 µl each)</p> <p>11. Thickness1mm</p> <p>Power Supply</p> <p>12. Voltage400V (Maximum)</p> <p>13. Current1000mA (Maximum)</p> <p>14. Timer0 to 1,999 minutes or continuous mode Should have Automatic power off function after the given time</p> <p>15. No. of Outputs 4 outputs (Minimum)</p> <p>16. Power200W (Maximum)</p> <p>17. CompatibilityMini vertical or horizontal electrophoresis high-throughput electrophoresis semi-dry blotting as well as tankblotting</p> <p>18. DisplayDigital LCD</p> <p>19. Electrical Requirements230V /50 - 60Hz</p> <p>20. WarrantyTwo years from the manufacturer</p> <p>21. ReferenceLocal agent should have supplied minimum 02 units in Sri Lanka within last 05 years</p> <p>22. Manufacturer AuthorizationLetter should be attached</p>			
Package 6	29	Gradient PCR Thermal Cycler <p>The unit should be more steady, reliable and durable with the newest generation of Peltier-based technology</p> <p>Should include graphical display of protocols</p> <p>Should be built with 96 wells with 0.20 mL volume</p> <p>Block temperature range : 0°C – 105°C</p> <p>Maximum heating/cooling rate : 5°C±1°C</p> <p>Temperature and column uniformity : ±0.2°C (at 95°C)</p> <p>Temperature and gradient accuracy: ±0.1°C (35°C - 100°C)</p>			

		<p>Display resolution: 0.1°C</p> <p>Mode of temperature control should be sim-tube and block mode</p> <p>Gradient range: 30°C – 105°C</p> <p>Temperature differential range: 1°C – 30°C</p> <p>Gradient capacity : 12 column</p> <p>Power supply : 85-265 V, 50-60Hz</p> <p>Dimensions: 36.2 x 25.6 x 25.5 cm</p> <p>Maximum number of programs: 15,000 programs onboard</p> <p>Maximum number of steps: 30 steps</p> <p>Maximum cycles: 100 typical cycles</p> <p>Should be capable of auto pause and auto restart</p> <p>Should automatically calculate the melting and annealing temperature with two primer sequences</p> <p>Heat lip temperature range : 30°C – 112°C</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached. There should be minimum 30 functioning installations within the country</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty : 24 Calendar months</p>			
Package 6	30	<p>UV Visible Spectrophotometer</p> <p>It should be a dual beam spectrophotometer with UV/Vis range</p> <p>It should have front and rear panel USB connection to convenient access</p> <p>It should have Xenon Flash Lamp to provide years of maintenance-free performance (At least 5-year life time). Deuterium- tungsten lamp models will be rejected since they have very low life time</p> <p>It should have a reference detector to ensure accurate data measurement from each flash of the lamp.</p>			

It should have dual beam configuration to send the light to both sample detector and reference detectors for accurate measurement

Should have Out-of-Plane monochromator configuration for maximum performance with minimum space requirement

The system should have GLP facility giving time, date, instrument serial number, sample ID and user ID for traceability

The unit shall operate over the wave length range of 190 to 1100nm with spectral bandwidth not greater than 1.8nm, wavelength accuracy shall be ± 1 nm and repeatability shall be ± 0.5 nm

Should have scanning speed up to 4200nm per minutes with 0.2, 0.5, 1.0, 2.0, 3.0, 5.0 nm data intervals

The unit shall be capable of performing absorbance, transmittance concentration measurement in the photometric range upto 3.5A, 125%T, ± 9999 C, ± 0.005 A accuracy and 0.0002A noise at 0A with at least 0.0005 A/hr stability

System should have Xenon Flash Lamp and Dual Silicon Photodiodes as detectors.

System should have integrated 6 positions cell changer to Increase sample throughput

Should be included Quarts and glass cells 02 from each.

Stray Light: 0.08%T at 220nm

Display: Large Graphical with LCD backlight to get all the details without using computer

Power Requirements: 240 V;50 Hz

Documentation

Manufacture product catalogs with requested information should be supplied

Manufacture authorization for the bidder to represent the given brand

User reference list should be attached

Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately

Warranty: 24 calendar months

Package 7	31	Slide Storage Boxes (Dry Cabinette)			
		<p>Should fully insulated to improve efficiency and energy saving</p> <p>Should have a digital temperature control with fixed over-temperature cut off</p> <p>Should reduce the heat loss by adjustable vent cover when used for warming process</p> <p>Should made from sheet steel with powder coated paint, with stainless steel interior.</p> <p>Shelves should removable chrome-plated wire grids and fit with adjustable shelf runners</p> <p>Ventilation outlet should be available</p> <p>Ambient temperature : 22⁰C</p> <p>Capacity : 100 L</p> <p>Convection type : Natural convection</p> <p>Number of shelves : 3</p> <p>Interior dimensions (W x D x H) : 68 x 38 x 40 cm</p> <p>Exterior dimensions (W x D x H) : 74 x 42 x 60 cm</p> <p>Power supply : 220 -240 V, 50 Hz</p> <p>02 years warranty period</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached. There should be minimum 30 functioning installations within the country</p> <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p> <p>Warranty: 24 Calendar months</p>			

Package 7	32	RI detector for Compatible to Thermo Scientific LPG-3400SD (N) UHPLC system			
		Refractive index range: 1.00-1.75 RIU or better Optics temperature control: 30 ⁰ C-55 ⁰ C or better Flow Cell: Volume of 8.00 µL with a maximum pressure of 0.5 bar or better Maximum flow rate: 10.00 mL/min or better Linearity range: 600 µRIU or better Noise level: Less than 2..5 x 10 ⁻⁹ RIU Drift : 200 x 10 ⁻⁹ RIU/h Measuring method: Detection method Warranty: 24 Calendar months			
Package 7	33	Portable Liquid Nitrogen Tank (5.00 L)			
		Capacity - 5L Static evaporation loss - 0.13 L/d Static holding time - 186 d Canister outer diameter - 38mm Canister height - 120/276mm Canisters No.(Max) - 3~6 pcs Canisters No. (standard) - 3 pcs Straw holding capacity(single) - 0.5ml - 792 Straw holding capacity(double) - 0.5ml – 1284 <u>Features</u> Capacity - 5L Static evaporation loss - 0.13 L/d Static holding time - 186 d Canister outer diameter - 38mm Canister height - 120/276mm Canisters No.(Max) - 3~6 pcs Canisters No. (standard) - 3 pcs Straw holding capacity(single) - 0.5ml - 792 Straw holding capacity(double) - 0.5ml – 1284			

Package 7	34	Biosafety Cabinet			
		<p>The interior and exterior surfaces should be made from stainless steel and should scratch-free</p> <p>Protection for the user and the environment with safety levels I and II (Class II A2)</p> <p>Should reduce blower speed when the window is closed</p> <p>Sash opening should have 20 cm working height and should fully opened for thorough cleaning</p> <p>Should maintain a constant airflow during normal filter loading and temporary airflow obstruction from foreign objects</p> <p>Pressure sensor should be available to monitor pressure levels to ensure safe airflow across the entire work surface</p> <p>Independent alarm system should be available as immediate alert for users to inform about any airflow obstruction</p> <p>Front sash and side glass windows should offer a clear and unobstructed view of the complete work area from all angles</p> <p>Should easily trap spilled liquids</p> <p>Should not expose aerosols to the environment</p> <p>Exhaust air volume : 288 m³/h</p> <p>Light System : >800 lux</p> <p>Exterior dimension (W x D x H) : 100 x 80 x 160 cm</p> <p>Interior dimension (W x D x H) : 90 x 47 x 80 cm</p> <p>Weight : 170 kg</p> <p>02 years warranty</p> <p><u>Documentation</u></p> <p>Manufacture product catalogs with requested information should be supplied</p> <p>Manufacture authorization for the bidder to represent the given brand</p> <p>User reference list should be attached. There should be minimum 30 functioning installations within the country</p>			

		Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately			
	35	<p>Biosafety Cabinet for Virology</p> <p>The work chamber should made of stainless steel; Front sash should be lifted for equipment loading. Should be made of triplex and should supplied with two glove ports. Sash is resistant to UV-light and disinfectant solutions;</p> <p>Each glove port should equipped with a butyl chamber glove and a silicon sealing O-ring.</p> <p>Features of the gloves: high impermeability (water, gas, vapor), used at wide temperature range, resistant to solvents and high-concentration acids, used for medical, pharmaceutical, chemical and biotechnological research;</p> <p>Ten-liter liquid gathering tray without drain made of stainless steel is located in the bottom of the work chamber;</p> <p>Two work chamber LED lighting units;</p> <p>Removable electrical sockets in the work chamber (on the left side wall); UV light inside the chamber;</p> <p>Pressure gauge of -500 Pa to +500 Pa. Purification System of Supplied and Exhausted Air</p>			
	35	<p>Filtering system of the air supplied to the chamber has two steps: preliminary coarse filter G4 and plenum HEPA-filter H14 located above the work chamber;</p> <p>Two-step filtering system of the air exhausted from the work chamber is executed through two consecutive HEPA filters H14; Supply and exhaust filtering module for removal of the air from the chamber is supplied with two fans.</p> <p>Pass Box</p> <p>Outer panels of the pass box are made of metal covered with powder enamell; Inner chamber is leak-tight and made of stainless steel; Angular door location: outer door is in front, inner door is built into the side wall of the work chamber; The doors of the pass box are equipped with latch handle made of stainless steel; The doors of the pass box are featured with electromechanical handle locks preventing simultaneous opening of both of the doors; Windows of the pass box are made of tempered glass; LED lighting of the pass box;UV light; Pullout tray</p>			

	<p>made of stainless steel ensuring easy transferring of the objects from the pass box into the work chamber.</p> <p>Control System Microprocessor control system of the electroautomatics Sluice control unit is a button box with indication of sluice's doors and locks statuses; Air balance parameters sensors; Built-in power cord; Separate safety devices for fans and removable sockets; Switch for removable sockets unit installed in the work chamber. Control Elements of Air Flow Parameters</p>			
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

Senior Assistant Registrar/Supplies
Sabaragamuwa University of Sri Lanka
Belitupaya.

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.

CC1.1 (i)	The Purchaser is :- Sabaragamuwa University of Sri Lanka
CC 1.1 (m)	The Project Site(s) / Final Destinations (s) is / are :- Sabaragamuwa University of Sri Lanka , Faculty of Medicine , Hidallana, Rathnapura
CC 8.1	<p>For notices, the purchaser' s address</p> <p>Attention :- Senior Assistant Bursar</p> <p>Address :- Sabaragamuwa University of Sri Lanka, Belihuloya</p> <p>Telephone :- 045 -2280311 (Senior Assistant Bursar)</p> <p>045 - 2261601 (Dean office, Faculty of Medicine)</p>
CC 11	Goods shall be supplies in compliance with the quality and the specification given.
CC 15.1	<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 thirty (30) 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> <p>(i) On Delivery: up to a maximum of ninety (90) percentage of the Contract price, shall be paid on receipt of the Goods.</p> <p>(ii) On Acceptance: the remaining ten(10) percentage of the Contract price</p>

	shall be paid to the Supplier within ninety (90) days. After the certification of acceptance.
CC 17.1	A Performance Security – 10%
CC 26.1	The liquidated damage shall be : 2% per week
CC 26.1	The maximum amount of liquidated damages shall be : 10%

Senior Assistant Bursar/Supplies
 Subaragamuwa University of Sri Lanka
 Belitupaya.



SABARAGAMUWA UNIVERSITY OF SRI LANKA

PROCUREMENT NOTICE

Supply, Delivery and Installation of Laboratory Equipment & Glassware for Faculty of Medicine

Chairman, Department Procurement Committee, Sabaragamuwa University of Sri Lanka invites sealed bids from eligible bidders for Supply, Delivery & Installation of Laboratory Equipment & Glassware for Faculty of Medicine to the Sabaragamuwa University of Sri Lanka as described below.

1. Bidding will be conducted through the National Competitive Bidding (NCB) Procedure.
2. Bidder should have at least Three years' experience in the relevant field in Sri Lanka.
3. Interested eligible bidders may obtain further information from the Senior Assistant Bursar/ Supplies (**Contact No 045 – 2280311**) of the Sabaragamuwa University of Sri Lanka and inspect the bidding documents at the Supplies Branch of the University from **9.00 am to 3.00 pm** from **28.06.2021 to 27.07.2021**.
4. A Complete set of bidding documents in English may be purchased by interested bidders on submission of a written application to the Senior Assistant Bursar / Supplies, or could be downloaded from the University website www.sab.ac.lk upon payment of a non – refundable fee of Rupees **12,500.00/=** either in cash at the Shroff Counter of the Sabaragamuwa University of Sri Lanka or to the credit of Bank of Ceylon, Sabaragamuwa University of Sri Lanka, account No **0002246976** the cash receipt of the Shroff or the Bank deposit slip to be attached with the bidding documents. The documents may be purchased **9.00 am to 3.00 pm** from **28.06.2021 to 27.07.2021**.
5. Bids must be delivered in duplicate to be addressed **Senior Assistant Bursar, Supply Branch, Sabaragamuwa University of Sri Lanka, Belihuloya** on or before **2.00 pm on 28.07.2021**. please indicate “**Supply, Delivery & Installation of Laboratory Equipment & Glassware for Faculty of Medicine - SUSL/SU/Goods/NCB /2021/01 – 28.07.2021**” on the left hand corner of the envelope.
6. All bids must be accompanied by a Bid Security addressed to the **Chairman, Department Procurement Committee, Sabaragamuwa University of Sri Lanka**, valid for 120 days from the date of the bid opening specified in the following Table.

Type	Item No	Items	Qty (Nos)	Bid Security (Rs)
Laboratory Equipment & Glassware				
Package 1	1	Autoclave	4	83,000.00
	2	CO ₂ Incubator	1	
	3	Incubator	3	
	4	Membrane Filtration Apparatus with Membranes	1	
Package 2	5	Bench-top pH meter	4	49,000.00
	6	X-ray Illuminator	4	
	7	Drying Oven for Glassware	3	
	8	Homogenizer	1	
Package 3	9	Micropipette set	08 sets	53,000.00
		0.10-2.50 µL		
		100-1000 µL		
		2.00-20.00 µL		
		20.00-200.00 µL		
		0.50-10.00 µL		
	10	Binocular Microscope	10	
	11	Sperm Counting Chamber	1	
Package 4	12	Camera with Light panel and Horizontal tripod	1	202,000.00
	13	Micro Centrifuge	4	
	14	Centrifuge	3	
	15	High Speed Mini Centrifuge	3	
	16	Refrigerated Micro Centrifuge	2	
	17	Extruder Set with Holder/Heating Block	2	
Package 5	18	Probe Sonicator with Probe and Sound Enclosure	1	184,000.00
	19	Microwave Oven	5	
	20	-20°C Freezer	5	
	21	Refrigerator	4	
	22	Digital Heat Block	4	
	23	Labtop cooler	2	
	24	Water Purification System – Deionized	1	
	25	Water Bath Shaking	2	
Package 6	26	Water Distillation Unit	2	103,000.00
	27	ELISA Reader with Incubator and UV/VIS	3	
	28	Gel Electrophoresis System - Horizontal	2	
	29	Gradient PCR Thermal Cycler	2	
Package 7	30	UV Visible Spectrophotometer	1	87,000.00
	31	Slide Storage Boxes (Dry Cabinet	4	
	32	RI detector for Compatible to Thermo Scientific LPG-3400SD (N) UHPLC system	1	
	33	Portable Liquid Nitrogen Tank (5.00 L)	1	
	34	Biosafety Cabinet	1	
	35	Biosafety Cabinet for Virology	1	

7. Pre Bid meeting will be held on 14.07.2021 at 10.00 am in the Board Room , Faculty of Medicine of Sabaragamuwa University of Sri Lanka .
8. The bids shall be deposited in the 'Tender Box' available in the Senior Assistant Bursar's Office(Supply Branch) of the University, or sent under Registered post to be received on or before the deadline to the address given in Clause No.5 .
9. Late bids will be rejected. The bids will be opened at 2.00 pm on 28.07.2021 in presence of the bidders or their authorized representatives who choose to attend the bid opening at the Board Room ,Supply Branch of Sabaragamuwa University of Sri Lanka .

**Chairman,
Department Procurement Committee,
Sabaragamuwa University of Sri Lanka**

**Senior Assistant Bursar/Supplies
Sabaragamuwa University of Sri Lanka
Belitupaya.**