



SOUTH EASTERN UNIVERSITY OF SRI LANKA

BIDDING DOCUMENT

**SUPPLY, INSTALLATION AND COMMISSIONING OF CIVIL
ENGINEERING LABORATORY EQUIPMENTS AND INSTRUMENTS.**

NATIONAL COMPETITIVE BIDDING

SEU/SS/FE/NCB/2017/03

19.08.2017

(Volume I and II)

Contents

Volume	Détails	Page No.
Volume I	Section I. Instruction to Bidders (ITB)	3 - 18
	Section VI. Condition of Contract (CC)	19 - 33
	Section VIII. Contract Forms	34 - 38
Volume II	Section II. Bidding Data Sheet (BDS)	39 - 42
	Section III. Evaluation and Qualification Criteria	43 - 47
	Section IV. Bidding Forms	49 - 59
	Section V. Schedule of Requirements	60 - 113
	Section VII. Contract Data	114 - 114

VOLUME I

Details	Page No.
Section I. Instruction to Bidders	3 - 18
Section VI. Condition of Contact (CC)	19 - 33
Section VIII. Contrat Forms	34 - 38

Section I. Instructions to Bidders (ITB)

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

General

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

official in the procurement process or in contract execution;

- (b) “fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
- (c) “collusive practice” means a scheme or arrangement between two or more bidders, with or without the knowledge of the Purchaser to establish bid prices at artificial, noncompetitive levels; and
- (d) “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.

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

4. Eligible Bidders

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

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

- (a) are or have been associated in the past, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under these Bidding Documents ; or
- (b) submit more than one bid in this bidding process. However, this does not limit the participation of subcontractors in more than one bid.

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

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

the BDS.

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

Contents of Bidding Documents

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

Volume 1

- Section I. Instructions to Bidders (ITB)
- Section VI. Conditions of Contract (CC)
- Section VIII. Contract Forms

Volume 2

- Section II. Bidding Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria
- Section IV. Bidding Forms
- Section V. Schedule of Requirements
- Section VII. Contract Data
- Invitation For Bid

6.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Documents may result in the rejection of the bid.

7. Clarification of Bidding Documents

7.1 A prospective Bidder requiring any clarification of the Bidding Documents including the restrictiveness of specifications shall contact the Purchaser in writing at the Purchaser's address **specified in the BDS**. The Purchaser will respond in writing to any request for clarification, provided that such request is received no later than ten (10) days prior to the deadline for submission of bids. The Purchaser shall forward copies of its response to all those who have purchased the Bidding Documents, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB Clause 8.

8. Amendment of Bidding Documents

8.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addendum.

8.2 Any addendum issued shall be part of the Bidding Documents and shall be communicated in writing to all who have purchased the Bidding Documents.

8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB Sub-Clause 23.2

Preparation of Bids

9. Cost of Bidding

9.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

10. Language of Bid

10.1 The Bid, as well as all correspondence and documents relating to the Bid (including supporting documents and printed literature) exchanged by the Bidder and the Purchaser, shall be written in English language.

11. Documents Comprising the Bid

11.1 The Bid shall comprise the following:

- (a) Bid Submission Form and the applicable Price Schedules, in accordance with **ITB Clauses 12, 14, and 15;**
- (b) Bid Security or Bid-Securing Declaration, in accordance with ITB Clause 20;

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

12. Bid Submission Form and Price Schedules

- 12.1 The Bidder shall submit the Bid Submission Form using the form furnished in Section IV, Bidding Forms. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

13. Alternative Bids

- 13.1 Alternative bids shall not be considered.

14. Bid Prices and Discounts

- 14.1 The Bidder shall indicate on the Price Schedule the unit prices and total bid prices of the goods it proposes to supply under the Contract.

- 14.2 Any discount offered against any single item in the price schedule shall be included in the unit price of the item. However, a Bidder wishes to offer discount as a lot the bidder may do so by indicating such amounts appropriately.

- 14.3 If so indicated in ITB Sub-Clause 1.1, bids are being invited for individual contracts (lots) or for any combination of contracts (packages). Unless otherwise indicated in the **BDS**, prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer any price reduction (discount) for the award of more than one Contract shall specify the applicable price reduction separately..

- 14.4 (i) Prices indicated on the Price Schedule shall include all duties and sales and other taxes already paid or payable by the Supplier:

- (a) on components and raw material used in the manufacture or assembly of goods quoted; or

- (b) on the previously imported goods of foreign origin

- (ii) However, VAT shall not be included in the price but shall be indicated separately;

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

destination;

(iv) the price of other incidental services

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

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

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

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

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

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

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

18. Documents Establishing the 18.1 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to

Qualifications of the Bidder

the Purchaser's satisfaction:

- (a) A Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods;
- (b) that, if **required in the BDS**, in case of a Bidder not doing business within Sri Lanka, the Bidder is or will be (if awarded the contract) represented by an Agent in Sri Lanka equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and
- (c) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.

19. Period of Validity of Bids

19.1 Bids shall remain valid until the date **specified in the BDS**. A bid valid for a shorter date shall be rejected by the Purchaser as non responsive.

19.2 In exceptional circumstances, prior to the expiration of the bid validity date, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 20, it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its bid.

20. Bid Security

20.1 The Bidder shall furnish as part of its bid, a Bid Security or a Bid-Securing Declaration, as specified in the BDS.

20.2 The Bid Security shall be in the amount specified in the BDS and denominated in Sri Lanka Rupees, and shall:

- (a) at the bidder's option, be in the form of either a bank draft, a letter of credit, or a bank guarantee from a banking institution;
- (b) be issued by a institution acceptable to Purchaser. The acceptable institutes are published in the NPA website, www.npa.gov.lk.
- (c) be substantially in accordance with the form included in Section IV, Bidding Forms;

- (d) be payable promptly upon written demand by the Purchaser in case the conditions listed in ITB Clause 20.5 are invoked;
 - (e) be submitted in its original form; copies will not be accepted;
 - (f) remain valid for the period specified in the BDS.
- 20.3 Any bid not accompanied by a substantially responsive Bid Security or Bid Securing Declaration in accordance with ITB Sub-Clause 20.1 and 20.2, may be rejected by the Purchaser as non-responsive.
- 20.4 The Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the Performance Security pursuant to ITB Clause 43.
- 20.5 The Bid Security may be forfeited or the Bid Securing Declaration executed:
- (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Submission Form, except as provided in ITB Sub-Clause 19.2; or
 - (b) if a Bidder does not agree to correction of arithmetical errors in pursuant to ITB Sub-Clause 30.3
 - (c) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB Clause 42;
 - (ii) furnish a Performance Security in accordance with ITB Clause 43.

21. Format and Signing of Bid

- 21.1 The Bidder shall prepare one original of the documents comprising the bid as described in ITB Clause 11 and clearly mark it as "ORIGINAL." In addition, the Bidder shall submit a copy of the bid and clearly mark it as "COPY." In the event of any discrepancy between the original and the copy, the original shall prevail.
- 21.2 The original and the Copy of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder.
- 21.3 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

Submission and Opening of Bids

22. Submission, Sealing and Marking of Bids

- 22.1 Bidders may always submit their bids by mail or by hand.
- (a) Bidders submitting bids by mail or by hand, shall enclose the original and the copy of the Bid in separate sealed envelopes, duly marking the envelopes as “ORIGINAL” and “COPY.” These envelopes containing the original and the copy shall then be enclosed in one single envelope.
- 22.2 The inner and outer envelopes shall:
- (a) Bear the name and address of the Bidder;
 - (b) be addressed to the Purchaser in accordance with ITB Sub-Clause 23.1;
 - (c) bear the specific identification of this bidding process as indicated in the BDS; and
 - (d) bear a warning not to open before the time and date for bid opening, in accordance with ITB Sub-Clause 261.

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

23. Deadline for Submission of Bids

- 23.1 Bids must be received by the Purchaser at the address and no later than the date and time **specified in the BDS.**
- 23.2 The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB Clause 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

24. Late Bids

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

25. Withdrawal, and Modification of Bids

- 25.1 A Bidder may withdraw, or modify its Bid after it has been submitted by sending a written notice in accordance with ITB Clause 22, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB Sub-Clause 21.2, (except that no copies of the withdrawal notice are required). The corresponding substitution or modification of the bid must accompany the respective written notice. All notices must be:

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

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

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

26. Bid Opening

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

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

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

26.4 The Purchaser shall prepare a record of the Bid opening that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, or modification; the Bid

Price, per lot if applicable, including any discounts, and the presence or absence of a Bid Security or Bid-Securing Declaration. The bids that were opened shall be resealed in separate envelopes, promptly after the bid opening. The Bidders' representatives who are present shall be requested to sign the attendance sheet. A copy of the record shall be distributed to all Bidders who submitted bids in time.

Evaluation and Comparison of Bids

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

specified in the Contract; or

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

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

30. Nonconformities, Errors, and Omissions

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

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

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

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

30.4 If the Bidder that submitted the lowest evaluated Bid does

not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid-Securing Declaration shall be executed.

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

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

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

Award of Contract

- 39. Award Criteria**
- 39.1 The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
- 40. Purchaser's Right to Vary Quantities at Time of Award**
- 40.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section V, Schedule of Requirements, provided this does not exceed twenty five percent (25%) or one unit which ever is higher and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.
- 41. Notification of Award**
- 41.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted.
- 41.2 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.
- 41.3 Upon the successful Bidder's furnishing of the signed Contract Form and performance security pursuant to ITB Clause 43, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 20.4.
- 42. Signing of Contract**
- 42.1 Within Seven (7) days after notification, the Purchaser shall complete the Agreement, and inform the successful Bidder to sign it.
- 42.2 Within Seven (7) days of receipt of such information, the successful Bidder shall sign the Agreement.

**43. Performance
Security**

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

Section VI. Conditions of Contract

Table of Clauses

1. Definitions	21
2. Contract Documents.....	21
3. Fraud and Corruption	21
4. Interpretation.....	21
5. Language.....	22
6. Joint Venture, Consortium or Association.....	22
7. Eligibility	22
8. Notices	22
9. Governing Law	23
10. Settlement of Disputes	23
11. Scope of Supply	23
12. Delivery and Documents.....	23
13. Supplier's Responsibilities.....	23
14. Contract Price	23
15. Terms of Payment	23
16. Taxes and Duties.....	24
17. Performance Security.....	24
18. Copyright	24
19. Confidential Information	24
20. Subcontracting	25
21. Specifications and Standards	25
22. Packing and Documents.....	25
23. Insurance.....	26
24. Transportation.....	26
25. Inspections and Tests	26
26. Liquidated Damages	27
27. Warranty	27
28. Patent Indemnity	28
29. Limitation of Liability.....	29
30. Change in Laws and Regulations.....	30
31. Force Majeure	30
32. Change Orders and Contract Amendments.....	30
33. Extensions of Time	31
34. Termination.....	31
35. Assignment	33

Section VI. Conditions of Contract

1. Definitions

1.1 The following words and expressions shall have the meanings hereby assigned to them:

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

whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.

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

2. Contract Documents

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

3. Fraud and Corruption

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

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

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

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

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

4. Interpretation

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

4.2 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.3 Amendment

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

4.4 Severability

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

5. Language

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

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

6. Joint Venture, Consortium or Association

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

7. Eligibility

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

8. Notices

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

8.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.

- 9. Governing Law** 9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Democratic Socialist Republic of Sri Lanka.
- 10. Settlement of Disputes** 10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the Arbitration Act No:11 of 1995.
- 10.3 Notwithstanding any reference to arbitration herein,
- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
- (b) the Purchaser shall pay the Supplier any monies due the Supplier.
- 11. Scope of Supply** 11.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.
- 12. Delivery and Documents** 12.1 Subject to CC Sub-Clause 32.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. Where applicable the details of shipping and other documents to be furnished by the Supplier are specified in the **Contract Data**.
- 13. Supplier's Responsibilities** 13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.
- 14. Contract Price** 14.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid.
- 15. Terms of Payment** 15.1 The Contract Price, shall be paid as specified in the **Contract Data**.

- 15.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to CC Clause 12 and upon fulfillment of all other obligations stipulated in the Contract.
- 15.3 Payments shall be made promptly by the Purchaser, but in no case later than twenty eight (28) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.
- 16. Taxes and Duties** 16.1 The Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- 17. Performance Security** 17.1 If required as specified in the **Contract Data**, the Supplier shall, within fourteen (14) days of the notification of contract award, provide a performance security of Ten percent (10%) of the Contract Price for the performance of the Contract.
- 17.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 17.3 As specified in the **Contract Data**, the Performance Security, if required, shall be in Sri Lanka Rupees and shall be in the format stipulated by the Purchaser in the **Contract Data**, or in another format acceptable to the Purchaser.
- 17.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations.
- 18. Copyright** 18.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.
- 19. Confidential Information** 19.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the

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

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

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

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

20. Subcontracting

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

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

21. Specifications and Standards

21.1 Technical Specifications and Drawings

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

(b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.

(c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with CC Clause 32.

- 22. Packing and Documents** 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.
- 23. Insurance** 23.1 Unless otherwise specified in the **Contract Data**, the Goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery.
- 24. Transportation** 24.1 Unless otherwise specified in the **Contract Data**, responsibility for arranging transportation of the Goods shall be a responsibility of the supplier.
- 25. Inspections and Tests** 25.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the **Contract Data**.
- 25.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place as specified in the **Contract Data**. Subject to CC Sub-Clause 25.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.
- 25.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in CC Sub-Clause 25.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
- 25.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.

- 25.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.
- 25.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
- 25.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to CC Sub-Clause 25.4.
- 25.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to CC Sub-Clause 25.6, shall release the Supplier from any warranties or other obligations under the Contract.

26. Liquidated Damages

- 26.1 Except as provided under CC Clause 31, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the **Contract Data** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those **Contract Data**. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to CC Clause 34.

27. Warranty

- 27.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and

materials, unless provided otherwise in the Contract.

- 27.2 Subject to CC Sub-Clause 21.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- 27.3 Unless otherwise specified in the **Contract Data**, the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the **Contract Data**.
- 27.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 27.5 Upon receipt of such notice, the Supplier shall, within the period specified in the **Contract Data**, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 27.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the **Contract Data**, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

28. Patent Indemnity

- 28.1 The Supplier shall, subject to the Purchaser's compliance with CC Sub-Clause 28.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:
- (a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and
 - (b) the sale in any country of the products produced by the Goods.

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

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

29. Limitation of Liability

- 29.1 Except in cases of criminal negligence or willful misconduct,
 - (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser and

- (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the purchaser with respect to patent infringement

30. Change in Laws and Regulations

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

31. Force Majeure

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

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

31.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

32. Change Orders and Contract Amendments

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

- (a) drawings, designs, or specifications, where Goods to

be furnished under the Contract are to be specifically manufactured for the Purchaser;

- (b) the method of shipment or packing;
- (c) the place of delivery; and
- (d) the Related Services to be provided by the Supplier.

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

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

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

33. Extensions of Time

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

33.2 Except in case of Force Majeure, as provided under CC Clause 31, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to CC Clause 26, unless an extension of time is agreed upon, pursuant to CC Sub-Clause 33.1.

34. Termination

34.1 Termination for Default

- (a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in

whole or in part:

- (i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;
 - (ii) if the Supplier fails to perform any other obligation under the Contract; or
 - (iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to CC Clause 34.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

34.2 Termination for Insolvency.

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

34.3 Termination for Convenience.

- (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

- (i) to have any portion completed and delivered at the Contract terms and prices; and/or
- (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

35. Assignment

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

Section VIII. Contract Forms

Table of Forms

1. Contract Agreement	365
2. Performance Security	387
3. Bank Guarantee for Advance Payment.....	398

1. Contract Agreement

THIS CONTRACT AGREEMENT is made

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

BETWEEN

- (1) The South Eastern University of Sri Lanka, a Higher Educational Institution and having its principal place of business at University Park, Oluvil (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., Supply, Installation and Commissioning of Civil Engineering Laboratory Equipments and instruments has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of [*insert Contract Price in words and figures, expressed in the Contract currency(ies)*] (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

5. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

For and on behalf of the Purchaser

Signed: *[insert signature]*

in the capacity of Vice Chancellor, South Eastern University of Sri Lanka, Oluvil
in the presence of

For and on behalf of the Supplier

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

in the capacity of *[insert title or other appropriate designation]*

in the presence of *[insert identification of official witness]*

2. Performance Security

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

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

Beneficiary: Vice Chancellor, South Eastern University of Sri Lanka, University Park, Oluvil # 32360.

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, Installation and Commissioning of Civil Engineering Laboratory Equipments and Instruments (hereinafter called "the Contract").

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

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

This guarantee shall expire, no later than the day of, 20.. *[insert date, three years beyond the scheduled completion date]* 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: Vice Chancellor, South Eastern University of Sri Lanka, University Park, Oluvil # 32360.

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, Installation and Commissioning of Civil Engineering Laboratory Equipments and Instruments.

(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 or sums not exceeding in total an amount of *[insert amount(s)¹ 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 date²]*.

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

¹ The bank shall insert the amount(s) specified in the CONTRACT DATA and denominated, as specified in the CONTRACT DATA, either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Purchaser.

² Insert the Delivery date stipulated in the Contract Delivery Schedule. The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser would need to request an extension of this Guarantee from the bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee. In preparing this Guarantee, the Purchaser might consider adding the following text to the Form, at the end of the penultimate paragraph: "We agree to a one-time extension of this Guarantee for a period not to exceed [six months][one year], in response to the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee."

VOLUME II

Details	Page No.
Section II. Bidding Data Sheet (BDS)	39 - 42
Section III. Evaluation and Qualification Criteria	43 - 47
Section IV. Bidding Forms	48 - 58
Section V. Schedule of Requirements	60 - 113
Section VII. Contract Data	114 - 115

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 notes in italics mentioned for the relevant ITB Clauses.]

ITB Clause Reference	A. General
ITB 1.1	The Purchaser is ³ : SOUTH EASTERN UNIVERSITY OF SRI LANKA
ITB 1.1	The name and identification number of the Contract are ⁴ : Supply, Installation and Commissioning of Civil Engineering Laboratory Equipments and Instruments. SEU/SS/FE/NCB/2017/03
ITB 2.1	The source of funding is ⁵ : GOSL
ITB 5.1	Apart from the instruction given in this clause, goods supplied under this contract shall be of satisfactory quality and fit for laboratory purpose. The goods shall be of reputed brands and the manufacturers should have good track records in market for minimum 10 years or the bidder shall submit documentary evidence to prove the goods are of substantially equivalent quality.
	B. Contents of Bidding Documents
ITB 7.1	For Clarification of bid purposes only, the Purchaser's address is: Attention ⁶ : Mr C.M.Wanniarachchi Address ⁷ : Senior Assistant Bursar, South Eastern University of Sri Lanka, Oluvil # 32360 Telephone: 067 22 55178 Facsimile number: 067 22 55178 Electronic mail address: mangala@seu.ac.lk
ITB 11 C	Bidder shall submit original copy of the manufacturer's Authorization. Bid which does not comply with requirement shall treat the bid as non responsive.
	C. Preparation of Bids
ITB 15.1⁸	The bidder shall quote the local expenditure in Sri Lankan Rupees.
ITB 18.1 (b)	After sales service is: Required
ITB 19.1⁹	The bid shall be valid until 31st November 2017.

³ insert **complete** legal name of the Procuring Entity

⁴ insert title of procurement and bid number reference of the Procuring Entity

⁵ insert the source of funding such as GOSL, World Bank, Asian Development Bank etc

⁶ insert name and designation of the Officer responsible for clarifications e.g. Head of the Procurement Division if any]

⁷ insert floor and room number, if applicable

⁸ Delete if the bidders are not allowed to quote in currencies other than Sri Lankan Rupees

⁹ insert day, month, and year, i.e. 16 September, 2006

ITB 20.1	Bid shall include a Bid Security (issued by bank) included in Section IV Bidding Forms
ITB 20.2¹⁰	The amount of the Bid Security shall be ¹¹ : Package 01: Rs. 150,000.00 Package 02: Rs. 50,000.00 Package 03: Rs. 100,000.00 Package 04: Rs. 40,000.00 Package 05: Rs. 25,000.00 The validity period of the bid security shall be until 31st November 2017.
	D. Submission and Opening of Bids
ITB 22.2 (c)	The inner and outer envelopes shall bear the following identification marks ¹² : Supply, Delivery, Installation and Maintenance of Civil Engineering Equipments and Instruments.
ITB 21.2	The written confirmation of authorization to sign on behalf of the bidder shall consist of letter of power of attorney of authorizing showing the name, position and signature of the person giving the authority and the person to whom the authority is given and authenticated by the company's seal, if not the bid submitted is treated as non responsive and the bid shall be rejected.
ITB 23.1	For bid submission purposes, the Purchaser's address is: Attention ¹³ : The Chairman Address ¹⁴ : Department Procurement Committee (Major), South Eastern University of Sri Lanka, University Park, Oluvil # 32360 The deadline for the submission of bids is: Date ¹⁵ : 19th September 2017 Time ¹⁶ : 2.00 PM

¹⁰ Delete if BDS ITB 20.1 (b) is selected

¹¹ [insert amount

¹² insert the name and/or number that must appear on the bid envelope to identify this specific bidding process

¹³ insert full name and the designation of the officer in charge

¹⁴ insert floor and room number, if applicable] [important to avoid delays or misplacement of bids

¹⁵ insert date, month, and year, i.e. 15 September, 2006

¹⁶ insert time, and identify if a.m. or p.m., i.e. 10:30 a.m

ITB 26.1	The bid opening shall take place at: Address: Board Room-2, Ground Floor, Administrative Building South Eastern University of Sri Lanka, University Park, Oluvil # 32360 Date: 19th September 2017 Time: 2.30 PM
	E. Evaluation and Comparison of Bids
ITB 14.3	Prices quoted for package no 05 shall be correspond to 100% of the items and the quantities specified. Bidders can quote for single package out of the 5 packages.
ITB 31.1	Bidder shall provide the all the documents requested in ITB 11. Incomplete bids shall be rejected.
ITB 34.1	Domestic preference shall not be a bid evaluation factor.
ITB 35.3 d	(a) option 2 Applicable (b) Not applicable (c) Not applicable
ITB 35.4	Not applicable
ITB 35.5	Bidders are allowed to quote for one or more packages and the selected bidder will be awarded for multiple packages.
ITB 37.2	Bidder shall provide all the details requested. The bid which does not complies with this requirement shall be treated as non-responsive

Section III. Evaluation and Qualification Criteria

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

[The Purchaser shall select the criteria deemed appropriate for the procurement process, insert the appropriate wording using the samples below or other acceptable wording, and delete the text in italics]

Contents

1. Evaluation Criteria (ITB 35.3 {d})
2. Evaluation Criteria (ITB 35.4
3. Multiple Contracts (ITB 35.5)
4. Domestic Preference (ITB 34.1)
5. Postqualification Requirements (ITB 37.2)

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 schedule¹⁷

Option 1

The Goods specified in the List of Goods are required to be delivered within the acceptable time range (after the earliest and before the final date, both dates inclusive) specified in Section VI, Delivery Schedule. No credit will be given to deliveries before the earliest date, and bids offering delivery after the final date shall be treated as non responsive. Within this acceptable period, an adjustment, as specified in BDS Sub-Clause 35.3(d), will be added, for evaluation purposes only, to the bid price of bids offering deliveries later than the "Earliest Delivery Date" specified in Section VI, 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 non responsive. Within this acceptable range, an adjustment per week, as specified in the **Bid Data Sheet**, will be added for evaluation to the bid price of bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements.

Option 3

The goods covered under this invitation are required to be delivered in partial shipments, as specified in the Schedule of Requirements. Bids offering deliveries earlier or later than the specified deliveries will be adjusted in the evaluation by adding to the bid price a factor equal to a percentage, specified in the **Bid Data Sheet**, of price per week of variation from the specified delivery schedule.

- (b) Deviation in payment schedule. *[insert one of the following]*

- (i) *Bidders shall state their bid price for the payment schedule outlined in the Contract Data. Bids shall be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in bid price they wish to offer for such alternative payment schedule. The Purchaser may consider the alternative payment schedule and the reduced bid price offered by the*

¹⁷ Insert one of the following options.

Bidder selected on the basis of the base price for the payment schedule outlined in the Contract Data.

OR

- (ii) *The Contract Data stipulate the payment schedule specified by the Purchaser. If a bid deviates from the schedule and if such deviation is considered acceptable to the Purchaser, the bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the bid as compared with those stipulated in the Contract Data, at the rate per annum specified in BDS Sub-Clause 35.3 (d).*
- (c) Cost of major replacement components, mandatory spare parts, and service. *[insert one of the following]*
 - (i) *The list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the BDS Sub-Clause 17.3, is in the List of Goods. An adjustment equal to the total cost of these items, at the unit prices quoted in each bid, shall be added to the bid price, for evaluation purposes only. Add quantities*

OR

- (ii) *The Purchaser will draw up a list of high-usage and high-value items of components and spare parts, along with estimated quantities of usage in the initial period of operation specified in the BDS Sub-Clause 17.3. The total cost of these items and quantities will be computed from spare parts unit prices submitted by the Bidder and added to the bid price, for evaluation purposes only.*
- (d) Specific additional criteria
Other specific additional criteria to be considered in the evaluation, and the evaluation method shall be detailed in BDS Sub-Clause 35.3(d)]

2. Evaluation Criteria (ITB 35.4) (describe the methodology)

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 contracts that include at least the percentages of items per lot and quantity per item as specified in ITB Sub Clause 14.8
- I. (b) take into account:
 - (i) the lowest-evaluated bid for each lot and

- (ii) the price reduction per lot and the methodology for its application as offered by the Bidder in its bid”

3. 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 qualifications.

(a) Financial Capability

The Bidder shall furnish documentary evidence that it meets the following financial requirement(s):

- 1). *Audited financial statements for last 03 years.*
- 2) *Certified copies of Bank statements for each month for last year.*

The prospective renderers should be financially sound and should have all the resource at their disposal to successfully carry out the Supply, Delivery, Installation and Maintenance of Civil Engineering Laboratory Equipments and Instruments.

(b) Experience and Technical Capacity

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

1. *Documentary evidence detailing the institutions supplied & contact person and they should be supported with letter from the relevant institutions (Head of institutions) for Package 01, Package 02 and Package 03).*
2. *The bidder must have supplied the same nature items at least for the Universities, technical colleges, other government institutions and reputed private sector institutions. Preference shall be given for the bidders who provide documentary evidence that they have supplied same nature to universities, technological colleges, other government institutions and reputed private sector institutions respectively.*
3. *The bidder shall provide documentary evidence and details of their key technical & managerial staffs. If consultants/ experts are not in their permanent carder, the bidder shall provide documentary evidence received from them to prove their engagement with bidder*
4. *Certified copy of business registration.*

5. The prospective tenderers should have minimum of 10 years experience in Supply, Delivery, Installation and Maintenance of Civil Engineering Equipments/ Instruments who have already undertaken and executed a similar contract for universities and government organization or reputed firm.
- (c) The Bidder shall furnish documentary evidence to demonstrate that the Goods offered meet the following usage requirement:
1. *Bidder shall provide manufacturer's inspection certificate / data sheet and supplier's calibration certificates provided by local authorities for the items in Package 01, Package 02 and Package 03),*
 2. *Bidder shall provide necessary ISO certificates and other safety certification for items Package 01, Package 02 and Package 03 where necessary.*

4. Domestic Preference (ITB 34.1)

If the Bidding Data Sheet so specifies, the Purchaser will grant a margin of preference to goods manufactured in Sri Lanka for the purpose of bid comparison, in accordance with the procedures outlined in subsequent paragraphs.

Bids will be classified in one of three groups, as follows:

- (a) **Group A:** Bids offering goods manufactured in Sri Lanka, for which (i) labor, raw materials, and components from within Sri Lanka account for more than thirty (30) percent of the price quoted; and (ii) the production facility in which they will be manufactured or assembled has been engaged in manufacturing or assembling such goods at least since the date of bid submission.
- (b) **Group B:** All other bids

All evaluated bids in each group will then be compared to determine the lowest evaluated bid of each group. Such lowest evaluated bids shall be compared with each other and if as a result of this comparison a bid from Group A, it shall be selected for the award.

If, as a result of the preceding comparison, the lowest evaluated bid is from Group B, all Group B bids will then be further compared with the lowest evaluated bid from Group A, after adding to the evaluated bid price of goods offered in the bid for Group B, for the purpose of further comparison only an amount equal to % of the bid price¹⁸:

¹⁸ For GOSL funded projects select 20 and WB or ADB funded project select 15

Section IV. Bidding Forms

Table of Forms

Bid Submission Form49

Price Schedule:.....51

Bid Security (Guarantee)57

Bid-Securing Declaration58

Manufacturer’s Authorization59

Bid Submission Form

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

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

No.: SEU/SS/FE/NCB/2017/03

To: The Chairman
Department Procurement Committee (Major)
South Eastern University of Sri Lanka
University Park
Olivil # 32360

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: *[insert the number and issuing date of each Addenda]*;
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services

Supply, Installation and Commissioning of Civil Engineering Laboratory Equipments and Instruments.

<u>Package</u>	<u>Amount (Rs.)</u>
Package – 01
Package – 02
Package – 02
Package – 04
Package – 05
Total Bid Amount

- (c) The total price of our Bid without VAT, including any discounts offered is: *[insert the total bid price in words and figures]*;
- (d) The total price of our Bid including VAT, and any discounts offered is: *[insert the total bid price in words and figures]*;
- (e) Our bid shall be valid for the period of time specified in ITB Sub-Clause 18.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause

23.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

- (f) If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 43 and CC Clause 17 for the due performance of the Contract;
- (g) We have no conflict of interest in accordance with ITB Sub-Clause 4.3;
- (h) Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared blacklisted by the National Procurement Agency;
- (k) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- (l) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

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

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

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

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

Price Schedule

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

PRICE SCHEDULE

1	2	3	4	5	6	7	8	9	10
			Goods and related Services offered within Sri Lanka (in Sri Lankan Rupees)						
Item No.	Description of Goods or related services	Qty and unit	Unit price (inclusive of duties, sales and other taxes) Excluding VAT	Price (Col. 3x4)	Inland transportation, insurance and other related services to deliver the goods to their final destination if not included under column 4	Total Price Excluding VAT (Col 5+6)	Discounted Total price (if any) excluding VAT	VAT	Total Price Including VAT (Col. 7 or 8+9)
Package – 1- Highway Laboratory									
1.	Softening Point Ring & Ball Apparatus	02							
2.	Asphalt Binder Analyzer	01							
3.	Asphalt Rolling thin film Oven	01							
4.	Dynamic Shear Rheometer – DSR	02							
5.	Semi-Automatic Penetrometer	02							
6.	Laboratory Asphalt Mixer	01							
7.	Sieve Shaker	03							
	Sub Total								
Package – 2 - Hydrology Laboratory									
1	Current meter for discharge measurements	02							
2	Handheld electromagnetic water flow meter	02							
3	Rainfall Gauge	01							

4	Centrifugal Pump Apparatus:	01							
	Sub Total								
Package – 3 - Material Laboratory									
1	Rockwell Hardness Tester	01							
2	Charpy Impact Testing Machine	01							
3	Bi-axial testing apparatus	01							
4	Buckling test apparatus	01							
5	Bench-scale shake table	01							
6	Concrete Cube Mould Vibrating Table	01							
7	Splitting Tensile Device for Cylinders	03							
8	Flow Table	03							
9	Cylinder Capping Frame	06							
10	Heat of Hydration Calorimeter	01							
11	LVDT Displacement Sensor	08							
12	LVDT Displacement Sensor	08							
13	5mm Wire Lead Strain Gauges	50							
14	8 mm Wire Lead Strain Gauges	50							
15	Compression Load Cell 100 kN	01							
16	Compression Load Cell 500 kN	01							
17	Pump/Low Height Cylinder Set (10 Ton Capacity)	02							
18	Pump/Low Height Cylinder Set (50 Ton Capacity)	02							
19	Automatic motorized Pull-Off tester	01							
20	Concrete Chloride ion penetration meter	01							
21	Plunger Penetration Apparatus	02							
22	Air Entrainment Meter for Mortar	02							

	Sub Total								
Package 4- Environmental Laboratory:									
1	Imhoff cones	03							
2	Air compressor	02							
3	Auto titrator	01							
4	Centrifuge	01							
5	Centrifuge tubes	100							
6	Vacuum cleaner	02							
7	Sound level meter	04							
8	Noise dosimeters	04							
9	Digital flow meters	01							
10	Portable air quality meter with compatible sensors for CO ₂ , CO, H ₂ S, NO ₂ , SO ₂ , Cl ₂ , VOC, NH ₃ , CH ₄	01							
11	Dust and particulate portable monitors	01							
12	Glass Vacuum filtration apparatus for membrane filters	02							
13	Heavy wall vacuum suction filter kit	02							
14	Pressure Plate Extractor 15bar								
15	Pressure Plate Extractor 5bar	01							
16	Laboratory Turbidity Meter	01							
17	Photometer for colour	01							
18	Analytical grade electronic scale ranging 50g to 0.001mg	01							
19	Digester for spectrophotometer	01							
20	Stereoscope for membrane filtration techniques	01							

	Sub Total								
Package 5- Environmental Laboratory:									
1	Pipette bulbs	01							
2	Pipette pumps								
3	pH papers	50							
4	Hardness measuring strips	50							
5	Dust absorbing carpets	05							
6	Lab shoes	40							
7	Lab coats	20							
8	Gum boots	10							
9	PVC gloves	03							
10	Standard stainless steel Forceps	10							
11	Nitrile gloves	10							
12	Neoprene Gloves	10							
13	Standard BOD bottles	50							
14	Latex gloves packs	20							
15	Glass Volumetric flask	10							
16	Glass Volumetric flask 50 ml	10							
17	Glass Volumetric flask 100 ml	10							
18	Glass Volumetric flask 250 ml	10							
19	Glass Volumetric flask 500 ml	10							
20	Glass Volumetric flask 1000 ml	10							
21	Glass Measuring cylinders - 1 ltr	04							
22	Glass Measuring cylinders - 500 ml	04							
23	Glass Measuring cylinders - 100 ml	04							

24	Glass Measuring cylinders - 50 ml	04							
25	Glass Measuring cylinders - 10 ml	04							
26	Filter Papers	10							
27	Micropipettes								
	Sub Total								
	Total								

Authorized Officer's Signature:

Authorized Officer's Name:

Name of the Company:

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: Vice Chancellor, South Eastern University of Sri Lanka, Oluvil

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

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

We have been informed that ----- *[insert (by issuing agency) name of the Bidder; if a joint venture, list complete legal names of partners]* (hereinafter called "the Bidder") has submitted to you its bid dated ----- *[insert (by issuing agency) date]* (hereinafter called "the Bid") for the supply of *[insert name of Supplier]* under Invitation for Bids No. SEU/SS/FE/NCB/2017/03 ("the IFB").

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

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

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

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

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

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

Bid-Securing Declaration

[The Bidder shall fill in this Form in accordance with the instructions indicated in the brackets]

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

*Name of contract: Supply, Delivery, Installation and Maintenance of Civil Engineering Laboratory Equipments and Instruments.

Invitation for Bid No.: SEU/SS/FE/NCB//2017/03

*To: Vice Chancellor, South Eastern University of Sri Lanka, Oluvil

We, the undersigned, declare that:

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

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

Name *[insert printed or typed name]*

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

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

Manufacturer's Authorization

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

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

No.: *[insert number of bidding process]*

To: Vice Chancellor
South Eastern University of Sri Lanka
University Park
Olivil # 32360

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having head office at *[insert full address of Head office of the Manufacturer]* and 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

Contents

1. List of Goods and Delivery Schedule.....	62
2. List of Related Services and Completion Schedule.....	63
3. Technical Specifications.....	64
4. Drawings.....	113
5. Inspections and Tests.....	113

Notes for Preparing the Schedule of Requirements

The Schedule of Requirements shall be included in the bidding documents by the Purchaser, and shall cover, at a minimum, a description of the goods and services to be supplied and the delivery schedule.

The objective of the Schedule of Requirements is to provide sufficient information to enable bidders to prepare their bids efficiently and accurately, in particular, the Price Schedule, for which a form is provided in Section IV. In addition, the Schedule of Requirements, together with the Price Schedule, should serve as a basis in the event of quantity variation at the time of award of contract pursuant to ITB Clause 41.

The date or period for delivery should be carefully specified, taking into account (a) the implications of delivery terms stipulated in the Instructions to Bidders', and (b) the date prescribed herein from which the Purchaser's delivery obligations start (i.e., notice of award, contract signature, opening or confirmation of the letter of credit).

1. List of Goods and Delivery Schedule

Serial No	Description of Goods	Quantity	Final (Project Site) Destination as specified in BDS	Delivery Date	Bidders response (Please specify the days)
1	Package – 01	As in the price schedule	Department of Civil Engineering, Faculty of Engineering, South Eastern University of Sri Lanka	Within 60 - 75 days	
2	Package – 02	As in the price schedule	Department of Civil Engineering, Faculty of Engineering, South Eastern University of Sri Lanka	Within 60 - 75 days	
3	Package – 03	As in the price schedule	Department of Civil Engineering, Faculty of Engineering, South Eastern University of Sri Lanka	Within 60 - 75 days	
4	Package – 04	As in the price schedule	Department of Civil Engineering, Faculty of Engineering, South Eastern University of Sri Lanka	Within 60 - 75 days	
5	Package - 05	As in the price schedule	Department of Civil Engineering, Faculty of Engineering, South Eastern University of Sri Lanka	Within 60 - 75 days	

Bidder's Name & Signature:

Name of the Company:

Date and Company seal:

1. List of Related Services offered and Completion Schedule

(To be filled by the supplier)

Service	Description of Service	Quantity ¹	Unit	Place where Services shall be performed	Final Completion Date(s) of Services
<i>[insert Service No]</i>	<i>[insert description of Related Services]</i>	<i>[insert quantity of items to be supplied]</i>	<i>[insert unit for the items]</i>	<i>[insert name of the Place]</i>	<i>[insert required Completion Date(s)]</i>

3. Technical Specifications

The purpose of the Technical Specifications (TS), is to define the technical characteristics of the Goods and Related Services required by the Purchaser. The Purchaser shall prepare the detailed TS take into account that:

- *The TS constitute the benchmarks against which the Purchaser will verify the technical responsiveness of bids and subsequently evaluate the bids. Therefore, well-defined TS will facilitate preparation of responsive bids by bidders, as well as examination, evaluation, and comparison of the bids by the Purchaser.*
- *The TS shall require that all goods and materials to be incorporated in the goods be new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided for otherwise in the contract.*
- *The TS shall make use of best practices. Samples of specifications from successful similar procurements may provide a sound basis for drafting the TS.*
- *Standardizing technical specifications may be advantageous, depending on the complexity of the goods and the repetitiveness of the type of procurement. Technical Specifications should be broad enough to avoid restrictions on workmanship, materials, and equipment commonly used in manufacturing similar kinds of goods.*
- *Standards for equipment, materials, and workmanship specified in the Bidding Documents shall not be restrictive. Recognized standards should be specified as much as possible. Reference to brand names, catalogue numbers, or other details that limit any materials or items to a specific manufacturer should be avoided as far as possible. Where unavoidable, such item description should always be followed by the words “or substantially equivalent.” When other particular standards or codes of practice are referred to in the TS, a statement should follow other authoritative standards that ensure at least a substantially equal quality, then the standards mentioned in the TS will also be acceptable.*
- *Reference to brand names and catalogue numbers should be avoided as far as possible; where unavoidable the words “or at least equivalent” shall always follow such references.*
- *Technical Specifications shall be fully descriptive of the requirements in respect of, but not limited to, the following:*
 - (a) *Standards of materials and workmanship required for the production and manufacturing of the Goods.*
 - (b) *Detailed tests required (type and number).*
 - (c) *Other additional work and/or Related Services required to achieve full delivery/completion.*
 - (d) *Detailed activities to be performed by the Supplier, and participation of the Purchaser thereon.*
 - (e) *List of detailed functional guarantees covered by the Warranty and the specification of the liquidated damages to be applied in the event that such guarantees are not met.*

- *The TS shall specify all essential technical and performance characteristics and requirements, including guaranteed or acceptable maximum or minimum values, as appropriate. Whenever necessary, the Purchaser shall include an additional ad-hoc bidding form (to be an Attachment to the Bid Submission Sheet), where the Bidder shall provide detailed information on such technical performance characteristics in respect to the corresponding acceptable or guaranteed values.*

When the Purchaser requests that the Bidder provides in its bid a part or all of the Technical Specifications, technical schedules, or other technical information, the Purchaser shall specify in detail the nature and extent of the required information and the manner in which it has to be presented by the Bidder in its bid.

TECHNICAL SPECIFICATIONS

[The bidder shall fill the last three columns given below. Bidder's failure to provide the information requested in these columns may be a reason for the rejection of the bid. If any discrepancy is observed between the information provided by the bidder below and the other technical information attached to the bid, the information provided herein shall take precedence.]

3.1 Supply, delivery, installation and maintenance of civil engineering laboratory equipments & instruments.

Items No	Specification	Nos	Conformity		Specify warranty period (Years)	If no, Bidder's response
			Yes	No		
Package – 1 Highway Laboratory						
01	Softening Point Ring & Ball Apparatus Country of Origin Country of Manufacture Model <ul style="list-style-type: none"> • Ring and Ball Test Set is used for determining the softening point of bituminous materials by ring and ball method. • Hot Plate with Magnetic Stirrer • Brass Ring, with Steel Ball and Ball Centering Guides, 2 pcs.each • Ring Holder and Assembly • Borosilicate Glass Beaker 600 ml • One glass Thermometer Max. 110°C • One glass Thermometer Max. 250°C • ASTM 15C Thermometer -2 +80°C • ASTM 16C Thermometer +30 + 200°C • Compliance to AASHTO T47 • Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 	02 Nos				
02	Asphalt Binder Analyzer Country of Origin Country of Manufacture	01 Nos				

	<p>Model</p> <ul style="list-style-type: none"> • Complies BS EN 126797-39:2004/ASTM D 6307-98/AASHTO T 308-99 • High efficiency heating system with afterburner chamber for a total combustion of exhaust fumes to minimize emissions to conform with • CE Directives • Sample size up to 4500 g for more representative test results • Supplied complete with 2 sample trays, fork to catch the pan and cooling cage. • microprocessor with one CPU card controlling both test data display, temperature, database and internal functions • Permanent memory to store test results • On board 40 column serial printer • 10kg capacity weighing system, 0.1 g resolution and ± 0.1 g repeatability • PID closed loop thermoregulation for both oven and afterburner chamber • 950 °C Afterburner 540 °C oven set temperature according to standard. • Touch screen • Bi-directional real time communication with the weighing system. • Test setting menu with physical and descriptive sample parameters (initial weight, weight loss percentage, correction factor) • Calibration menu to check and set the temperature and weight calibration for possible manual control of the test performance. • Test performance menu with simultaneous 					
--	--	--	--	--	--	--

	<p>display of all the test data.</p> <ul style="list-style-type: none"> • Internal database for up to 100 tests. • Automatic door locking after 150 °C. • Automatic monitoring of closed door before test start. • Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
03	<p>Asphalt Rolling thin film oven Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Full conformity to temperature specifications (time to reach target temperature after switch on, target temperature adjustment after samples insertion) from the Standards: 8 minutes of time to target; • Touch-screen display with 4.5" color control panel, including timer function, visual warnings and digital air flow regulator; • Air flow regulation from 0.1 up to 10000 mL/min; • The high performance thermo regulator of the rolling thin film oven ensures a time saving test execution: 8 minutes (versus 10 specified by the Standards as maximum time to target temperature) are sufficient to reach 163 +/- 0.5 °C in a typical laboratory environment. • Carousel rotation with closed-loop controlled speed; • Safety features: Automatic over-temperature switch, door switch, pilot lamp and alarm for door open with fan still running; magnetothermic switch; 	01 No				

	<ul style="list-style-type: none"> • High quality stainless steel structure, internal and external; • Door with double-glazed window; • Door locking system allowing easy opening also with busy hands. • Supplied complete with ASTM 13C thermometer and 8 heat resistant glass containers (64 mm diameter x 140 mm high). • Diaphragm pump for free air displacement 6 l/min, max. Pressure 2.4 bar (when used as air compressor), ultimate vacuum 100 mbar (when used as a vacuum pump). Complete with needle valve. • Scraper for RTFOT bottle. • Metal rack for holding and cooling RTFOT bottles. • RTFOT bottle tong. • Spare glass container. • ASTM 13C thermometer, +155 to +170°C, 0.5° divisions. • Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
04	<p>Dynamic Shear Rheometer – DSR</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Torque range: Air Bearing: 10µNm to 10mNm & Mechanical bearing: 50µNm to 10mNm • Torque resolution 1µNm • Position resolution 1µrad • Frequency range 10µHz to 100Hz • Temperature control range 5°C to 95°C (Total immersion cell) (range can be extended 	02 Nos				

	<p>depending on circulator fluid)</p> <ul style="list-style-type: none"> • Temperature accuracy Better than $\pm 0.1^{\circ}\text{C}$. (Total immersion cell) • Dimensions mm (WxDxH) 230 x 350 x 600 • Temperature (operating) $15^{\circ}\text{C} - 40^{\circ}$ <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
05	<p>Semi-Automatic Penetrometer Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Semi-Automatic Digital Bitumen Penetrometer is used to determine the penetration of bituminous samples under constant load, time and temperature. • Compliance to AASHTO T49 • Transfer Dish • Sample Cup, $\text{Ø } 55 \times 35$ mm, stainless steel-Three • Sample Cup, $\text{Ø } 70 \times 45$ mm, stainless steel-Three • Penetration Needle, 2,5 g- Three • One-Quarter Scale Cone and Shaft • One-Half Scale Cone and Shaft • Penetrometer Cone ASTM D 217 Resilience Ball Penetration Tool. <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 	02 Nos				
06	<p>Laboratory Asphalt Mixer Country of Origin Country of Manufacture</p>	01 No				

	<p>Model</p> <ul style="list-style-type: none"> The mixer has a capacity of 7.5 litres and is designed for mixing asphalt samples to be used for mechanical tests such as compaction, indirect tensile, Marshall etc... 7.5 l capacity The mixer includes a heater for control mix with Heating Mantle The mixing head rotates at speeds of 10 to 240 r.p.m. and the whisk from 20 to 480 r.p.m. Bowl 7.5 lt Capacity Stainless Steel Mixing Whisk-two Spare bowl-two <p>Warranty Period required: Minimum 03 Years Manufacturer's Warranty Supplier's Warranty</p>					
07	<p>Sieve Shaker Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> The unit accepts up to ten 200-315 mm full height, diameter sieves and lid and receiveris driven by an electric motor Provided of timer 0 - 60 minutes For 220 – 240 V AC, 50 Hz Resistant <ul style="list-style-type: none"> Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	03 Nos				

Package – Hydrology Laboratory						
01	<p>Current meter for discharge measurements</p> <p>Country of Origin Country of Manufacture Model</p> <p>Designed for flow velocity measurements in combination with hand-held wading rods or cable suspended from a bridge or boat.</p> <ul style="list-style-type: none"> • Measuring range 0.025 ... 10 m/s • Current meter 1 pulse/revolution • Accuracy: ± 2% • Reed relay contact lifetime > 1 million contacts switches • Magnetic switch: pressure-tight up to 30bar • Meter body: stainless steel • Propeller: aluminum • Size dia. x length ø35 x 310mm • Weight w/o propeller 1.26 kg • 10 m extension cable to measure depths • Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 	02 Nos				
02	<p>Handheld electromagnetic water flow meter</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Measurement method: Magnetic-inductive • Accuracy : 3 m/s ±2 % of meas. value ±0.015 m/s • Resolution 0.001 at measured value • Measuring range: 0 ... 3.05 m • Measuring range 0.025 ... 10 m/s • Handheld unit display 	02Nos				

	<ul style="list-style-type: none"> • Power supply Lithium-ion battery • 10 m extension cable to measure • Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
03	<p>Rainfall Gauge Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Interfaces with virtually all data acquisition systems • Exceptional splash-out protection improves accuracy in high winds • Resolution 0.2 mm • Accuracy 1.0% up to 2"/hr (50 mm/hr) • Collector Diameter 6.060" (154 mm) with knife-edge • Funnel Depth: 6.4" (163 mm) • Splash Out Protection >2" (50 mm) • Operating temp: 32 to 125°F, (0 to 50°C) • Humidity limits: 0 to 100% • Water discharged by the tipping bucket passes out of the rain gauge with no need for emptying. • Integral Bubble Level • Hardened SS Jewel & Pivot • Bounce Setting Time: 0.75 ms • Switch: Momentary potted reed switch • Pole Mounting Base • Necessary cable • Bird Repellant • Field Calibration Kit • Warranty Period required: Minimum 03 Years 	01 No				

	<ul style="list-style-type: none"> ○ Manufacturer's Warranty Supplier's Warranty 					
04	<p>Centrifugal Pump Apparatus:</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> ● Variable speed pump intended to be used in conjunction with the basic pump in the Hydraulics bench. ● Mounted on floor standing plinth with On/Off switch. ● Discharge manifold with flow control valve & pressure gauge. ● All hoses and fittings supplied for easy connection to hydraulic bench in either series or parallel configuration. ● Pump: centrifugal type ● Pressure and vacuum gauges ● max. head: 21m ● Max. flow :1.35 litres/sec ● Motor rating: 0.36kW ● Speed Controller : Frequency inverter ● Speed Range: 0 to 1500 rpm ● Pressure gauge range: 0 to 60m ● Compound gauge range: -10 to + 32m ● Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty Supplier's Warranty 	01 No				

Package – 3 Material Laboratory					
01	<p>Rockwell Hardness Tester</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Hardness scale: HRA, HRB, HRC, HRD, HRF, HRG • Preliminary Load: 10kg [98.07N] • The extremely wide test force range of 4.9 N to 2.45 kN (0.5 kg to 250 kg). • Enables testing according to Vickers, Knoop, Rockwell and Brinell to ISO 6507, ISO 4545, ISO 6508, ISO 6506 and the relevant ASTM • Standards Display: Digital • Test force: 588, 980, 1471N • Stage elevation: Manual • Load control: Automatic (Load, Dwell, Unload) • Load dwell time: 1-30 seconds • Min. reading: 0.1HR • Data Output: RS232C • Max. workpiece height: 170mm • Max. workpiece depth: 130mm (From center of indenter) • Dimension: 510x212x730mm • Weight: 85kg • Accessories: ø60mm flat anvil, ø150mm flat anvil, V-type anvil, ø1.5875mm carbide ball indenter, Diamond indenter, Rockwell test block (3pcs), RS232C cable, Anti-dustcover • Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer’s Warranty ○ Supplier’s Warranty 	01 No			

02	<p>Charpy Impact Testing Machine Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • For Charpy on various materials • Strictly conforms to ASTM-E-23/EN 10045-1-Current Standards • Works on Pendulum Principle, Difference between height of drop of hammer • Cast iron frame • Pendulum with hardened knife • Brake device to stop the pendulum • Impact energy 300J with 2J graduation • Falling angle 140 degrees, pendulum mass 21.3kg • Impact speed 5.2 m/s • Two hand Pendulum release operation for operator safety • Large safety guards on both sides of Pendulum • Charpy Striker - 1 No. • Charpy Support Block - 1 set • Specimen Setting Gauge (For Charpy) - 1 No. • Set of Spanners - 1 Set • Foundation Bracket - 1 No • Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty <p>Supplier's Warranty</p>	01 No				
03	<p>Bi-axial testing apparatus Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Bench top unit for checking equivalent strain hypotheses from materials science • Multiple axis specimen loading in bending or torsion, or a combination of both 	01 No				

	<ul style="list-style-type: none"> • Compensation for the effect of dead weight • Specimen length 49 mm, free clamping length 11.5 mm • Specimen diameter Ø 4 mm • Load moment 0...3.8Nm, graduations 0.1 Nm • Set of load weights up to 25 N • Deformation measured with dial gauge • Specimens made of steel, copper, brass and aluminium • Specimen • length: 49 mm • free clamping length: 11.5 mm • diameter at the measured cross-section: 4 mm • Load moment • measuring range: 0 to 4 Nm • graduations 0.1Nm • Dial gauge • measuring range: 0 to 10 mm • resolution: 0.01 mm <p>Load weight set</p> <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
04	<p>Buckling test apparatus</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • Test bar length: max. 700 mm • Bore of the probe receptacle: D = 20 mm • Test force: max. 2000 N • Stroke of the load spindle: max. 10 mm • Shear load: max. 20N • Lateral deflection: max. 20 mm • Measuring ranges • dial gauge: 0...20mm, graduation: 0.01mm 	01 No				

	<ul style="list-style-type: none"> • load transducer: 0...2500N, graduation: 50N • Table-top experiment on the investigation and testing of all relevant buckling problems, can be used equally for demonstrations or laboratory experiments • Checking of the Euler theory on buckling, influence of the length, material, cross-section and type of bearings of the bar, exercise on basic procedures for measuring displacement and force • Can be operated horizontally or vertically • 11 test bars • Test force applied by hand operated load spindle • Hydraulic load transducer, can be rotated 90° • Shear loading using set of weights • Bar bearing articulated or clamped <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
05	<p>Bench-scale shake table Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Bench-scale single-axis earthquake simulator ideal for teaching structural dynamics, vibration isolation, feedback control, and other control topics related to earthquake, and mechanical engineering. • Capable to define With pre-loaded acceleration profiles of real earthquakes • Should able be easily programmed through a Graphical User Interface environment. • Precise and accurate positioning using high-resolution encoder and low-backlash guide 	01 No				

	<ul style="list-style-type: none"> • Maximum pay-load 7.5 kg • Maximum travel 7 cm • Operational bandwidth 10Hz • Maximum velocity 60.0 cm/s • Maximum acceleration with load 2.5 g • Motor maximum torque 7.8 Nm • Accelerometer sensitivity 1.0g/v • Lead screw pitch 1.27 cm/rev • Data acquisition system relevant to the system • Amplifier system to the shake table system <p>Real-time control software Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
06	<p>Concrete Cube Mould Vibrating Table</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • The fixed amplitude vibrating table is a compact unit providing controlled vibro-compaction in the laboratory used for cube or cylinder moulds • Should be able to adopt 6 cube or cylinder moulds • Relevant to EN 12390-2 • Rubber mountings to prevent floor damages caused by vibrations. • Waterproof Foot pedal switch for easy operations. • Vibrations: est. 3000rpm • Centrifugal Force-3KN • Dimensions 1250x650 (LxW) • Should be able to vibrate at least 4 moulds (cylinder or cubes) • Vibration/min 3000 	01 No				

	<ul style="list-style-type: none"> Clamping devices for moulds <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 					
07	<p>Splitting Tensile Device for Cylinders</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> Splitting Tensile Device for Cylinders used for testing cylindrical specimens dia. 150×300 mm and dia.160x320mm. Can be installed on all semi-auto and automatic compression machines. <p>Warranty Period required: Minimum 02 Years</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	3 Nos				
08	<p>Flow Table</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> The apparatus consists of a double steel table, the upper table measuring 700x700mm and hinged at one side to the lower table. All parts are protected against corrosion. Compliance to EN 12350-5 Flow cone dia. 130 x dia. 200, 200 mm high <p>Warranty Period required: Minimum 01 Years</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	03 Nos				
09	<p>Cylinder Capping Frame</p> <p>Country of Origin</p>	06 Nos				

	<p>Country of Manufacture Model</p> <ul style="list-style-type: none"> • Cylinder Capping Frame is used to assure plane end surfaces perpendicular to the axis of the cylinder during the capping process. • The frame comprises vertical supports mounted on a steel base. • Supplied complete with base plates for 75, 100 and 150 mm dia. cylinder specimens. • Complies to EN 12390-3&ASTM C617 <p>Warranty Period required: Minimum 02 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
10	<p>Heat of Hydration Calorimeter Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Used for determining the heat of hydration of low heat Portland and hydraulic cement. The apparatus consists of a Dewar flask housed in an insulated box, an electric stirrer, a filler funnel and a high resolution digital thermometer. • Displays, saves and prints ΔT, Min., Max. and Mean Values • Audible alarm if limit values are exceeded • Resolution 0.001°C complete with test certificate • PT100 Probe Measuring Range -40 to +300°C • Protection class IP65 • Accuracy 0.05°C • Memory 10.000 • Compliance to EN 196-8&ASTM C186 • With High Resolution Digital Thermometer 	1 No				

	<p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
11	<p>LVDT Displacement Sensor Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Stroke Ranges: $\pm 0.25\text{mm}$ to $\pm 50\text{mm}$ • AC mV/V or DC Voltage / Current Output • Environmental Protection: IP54 • Core-Only, Core + Extension, <p>Spring-Loaded & Rod-End Bearing Versions Warranty Period required: Minimum 02 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 	08 Nos				
12	<p>LVDT Displacement Sensor Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Stroke Ranges: $\pm 0.25\text{mm}$ to $\pm 100\text{mm}$ • AC mV/V or DC Voltage / Current Output • Environmental Protection: IP54 • Core-Only, Core + Extension, <ul style="list-style-type: none"> • Spring-Loaded & Rod-End Bearing Versions Warranty Period required: Minimum 02 Years ○ Manufacturer's Warranty ○ Supplier's Warranty 	08 Nos				
13	<p>5mm Wire Lead Strain Gauges Country of Origin</p>	50 Nos				

	<p>Country of Manufacture Model</p> <ul style="list-style-type: none"> • Gauge Factor 2.1 • Gauge Length 5mm • Gauge Resistance 120Ω • Length 9.5mm • Maximum Operating Temperature +80°C • Minimum Operating Temperature -30°C • Terminal Type-Wire Lead • Width-3.5mm <ul style="list-style-type: none"> • Warranty Period required: Minimum 01 Year <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
14	<p>8 mm Wire Lead Strain Gauges Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Gauge Factor 2.1 • Gauge Length 8mm • Gauge Resistance 120Ω • Length 13mm • Maximum Operating Temperature +80°C • Minimum Operating Temperature -30°C • Terminal Type-Wire Lead • Width-4mm • Warranty Period required: Minimum 01 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 	50 Nos				
15	<p>Compression Load Cell 100 kN Country of Origin Country of Manufacture</p>	01 No				

	<p>Model</p> <ul style="list-style-type: none"> • Capacities of 100 kN • Stainless steel construction • Environmental Protection IP68 with complete hermetic sealing • Self-restoring design • Digital load cell with built-in microcontroller and A/D conversion • Easy communication (RS485) and fast system setup <ul style="list-style-type: none"> • Improved handling of corner adjustment, system calibration, fault finding and load cell replacement. • Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
16	<p>Compression Load Cell 500 kN Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Capacities of 500 kN • Stainless steel construction • Environmental Protection IP68 with complete hermetic sealing • Self-restoring design • Digital load cell with built-in microcontroller and A/D conversion • Easy communication (RS485) and fast system setup <ul style="list-style-type: none"> • Improved handling of corner adjustment, 	01 No				

	<p>system calibration, fault finding and load cell replacement</p> <ul style="list-style-type: none"> • Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
17	<p>Pump/Low Height Cylinder Set (10 Ton Capacity) Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Single-Acting Low-Height Cylinder • Capacity 10 Tons, • Cylinder Stroke 1.5 In, • Cylinder Retracted H 3.47 In, • With Hand Pump Type, • Max Pressure 10,000 PSI, • Gauge Scale 0-22,200 Lb, • Max Handle Effort 93 Lbs, • Includes 10,000 PSI • 6 Feet Thermoplastic Hose, • Calibrated Gauge, and Gauge Adapter • Warranty Period required: Minimum 03 Years <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 	02 Nos				
18	<p>Pump/Low Height Cylinder Set (50 Ton Capacity) Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Single-Acting Low-Height Cylinder, • Cylinder Capacity 50 Tons, • Cylinder Stroke 2.38 In, • Cylinder Retracted H 4.81 In, • With Hand Pump Type, • Max Pressure 10,000 PSI, 	02 Nos				

	<ul style="list-style-type: none"> • Max Handle Effort 93 Lbs, • Thermoplastic Hose, • Calibrated Gauge, and Gauge Adapter <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
19	<p>Automatic motorized Pull-Off tester</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Load measurement with high accuracy strain gauge load cell • Effective resolution: 0.1 N • Accuracy: Class 1 starting from 1 % of the full scale • High resolution graphic display • Battery operated: Internal rechargeable type battery • Serial port for PC connection • Software to Data downloading to PC • Graphic display of actual load, load rate, peak value, strength • PID closed-loop control of the load rate • Maximum Tester dimensions: 220x150x240 mm • Bits and die:Drill bit with centering point to obtain 20 mm dia. test surface • Bits and die:Drill bit with centering point to obtain 50 mm dia. test surface • Bits and die: Metal ring (dinking die), 50 mm int. dia, 25 mm high, for fresh plaster. • Test discs and plate: Aluminium square plate 50 mm x 50 mm thick • Test discs and plate: Aluminium test disc 50 	01 No				

	<p>mm dia. x 20 mm thick</p> <ul style="list-style-type: none"> • Test discs and plate: Aluminium test disc 20 mm dia. x 20 mm thick • Stainless steel test disc 50 mm dia. x 20 mm thick • Useful adhesive for the test <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 					
20	<p>Concrete Chloride ion penetration meter</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • Testing up to 8 cells simultaneously • Independent channels • Programmable test duration • Adjustable measuring rate starting from 1 minute • Measurement and record of the test temperature during the whole test • Measuring technique: transmitted current is measured and integrated over time in presence of 60V DC potential difference precisely applied and maintained constant • touch screen color display • Data storage on SD card • Micro USB port to download data to PC • Accuracy: +/-0.1V, +/-1mA • Complete test cell for chloride ion penetration meter including heads and cables • Vacuum saturation apparatus required by ASTM C1202 in order to fully saturate the specimen with water. <p>Warranty Period required: Minimum 03 Years</p>	01 No				

	<ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty ○ 					
21	<p>Plunger Penetration Apparatus</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • The Plunger Penetration Apparatus is used to determine the consistency of fresh mortar, building lime and masonry cement. • The test apparatus consists of a base to place the test cup and a vertical column holding the penetration plunger assembly. The drop default height is adjusted to 100 mm. The plunger assembly weight is 90 g. • Test cup, Ø 80 mm x 70 mm • Tamper <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 	02 Nos				
22	<p>Air Entrainment Meter for Mortar</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • Air Entrainment Meter for Mortar is used for determining the air content of cement paste, cement mortar and lime mortar. • 1 Litre Model. • Manufactured from Cast Aluminium. • 0 to 20% volumetric range. <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty ○ Supplier's Warranty 	02 Nos				

Package 4- Environmental Laboratory:

Note:

1. All equipment should satisfy relevant British Standards. All power operated equipment should be able to use with 220 – 240 V AC, 50 Hz power supply

01	<p>Imhoff cones Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Capacity: 1000mL Top O.D. x Length: 108 x 451mm, . 451 L x 108mm. • Material: Clear Styrene Acrylonitrile. • Graduation Intervals: 0 to 1mL in 0.1mL; 1 to 10mL in 0.5mL; 10 to 40mL in 1mL; 40 to 100mL in 2mL at 250, 500 and 1000mL. • Stand to hold three cones constructed of stainless steel to provide long life. • Conical Imhoff cone cleaning brush <p>Warranty Period required: Minimum 01 Years</p> <ul style="list-style-type: none"> ○ Manufacturer’s Warranty ○ Supplier’s Warranty 	03 Nos				
02	<p>Air compressor Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • 80 galloon storage horizontal tank compressor 2 stage with inbuilt pressure regulator • Built with cast iron to with stand maximum 140 psi and should able to deliver 16 CFM at 90 psi • tank must me complied to ASME code • Power supply: Single phase, 240volt,5 HP,23 amp • 6 feet long 240v, 23 amp ac power code comparing insulated two power wires and one earth wire with plug 	2 Nos				

	<ul style="list-style-type: none"> Over 10,000 hours extended life based on B-10 bearing <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 					
03	<p>Auto titrator</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> Measuring range: pH: pH0.00 - 14.00, mV:0 to +/-1999.9mV, Temp: 0 to 100.0 C. Current/voltage: 0 - 2, 20, 200, 1000 μA (by range Selection)/0.0-+/-2,000.0mv Conductivity: 7 ranges, 0.0 - 200.0 S/m (by range selection) % transmittance: 0.0 - 100.0% Ambient temp; 0.0-50.0C Relative Humidity; 5-90% pH calibration: Automatic 3 point calibration (pH 4.01, 6.86, 9.18) Titration/Measuring Method: Automatic Inflection End point detection (Up to 5 points detectable) Set Point Titration (Up to 5 points detectable) Full Volume Titration (Inflection point plus set point) (Up to 5 points detectable) Intersection of two lines detection titration (Up to 2 points detectable) Stat Titration Preliminary titration (Automatic parameter 	1 Nos				

	<p>evaluation method)</p> <ul style="list-style-type: none"> • pKa Measurement • pH (mV) Measurement • pH Adjustment • Electric Conductivity measurement • Display: Color graphic LCD with Back light • Titration Curve, Titration Volume, pH (mV), Temperature simultaneously displayed • Keyboard operation: Flat Keypad/ Dialogue operation system by function keys and numeric keypad • Printer: Provided (Internal) thermal Printer. External dot matrix Printer is optional • Output: pH: +/-700mV (pH 0-14), mV: +/-1V, (0 to +/-1,999mV) • Number of electrode Input Channels: Maximum of three channels • 2 Channels of pH/mV electrode inputs are installed as standard. • External Control I/O: RS-232C x 5 Channel • 1CH: Automatic Buret (ABT-7 Connectable up to 10 units) • 2CH: Personal Computer • 3CH: Turn Table (TTT-510) • 4CH: 1 from Electric Balance Interface, AST-3210 sampler, or TTT-510 • 5CH: External Printer, EPS-R • LAN x 1 • USB(Host) x 1 • GLP applicable functions: Electrode Calibration Resume function • Electrode replacement time notification • Power Requirements: AC Line 50, 60Hz 					
--	--	--	--	--	--	--

	<ul style="list-style-type: none"> • Power Consumption: 50VA When Connecting one ABT-7 automatic Buret) • Dimensions: approximately 190(w)x192(h)x385(d)mm • Should be capable of dynamic equivalence point titration (DET), monotonic equivalence point titration (MET), set endpoint titration (SET), and manual titration (MAT). • Should comprise of burette, stirrer, and the Touch Control unit <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
04	<p>Centrifuge Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Maximum speed: 100 to 8000 rpm • Centrifuge time: 90 minutes • Maximum 6 tubes of 50ml • Maximum noise level 70 dBA • Power: AC230V, 50HZ • Maximum 6 tubes of 50ml <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	1 Nos				
05	<p>Centrifuge tubes Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Made out of Plastic compatible for centrifuge 	100 Nos				

	<ul style="list-style-type: none"> • Maximum capacity of 50mL <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty <p>Supplier's Warranty</p>					
06	<p>Vacuum cleaner</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • Type Canister vacuum cleaner • Minimum Suction power 20kPa • Noise level below 60dB • Power cable of 23 feet above is preferred • Should comprise of extension hose and all the other attachments • Power consumption of 1200watts, 10amp with an air flow of 158 CFM and should able to operate at 6 power levels • Filtration system should comprise of Air clean bag, white electrostatic pad, HEPA 13 Air Clean Filter cartridge and system should be properly sealed • Should comprise of crush resistant standard hose, stainless steel telescopic wand and AirTeQ Rug/bare floor Nozzle • The body of the vacuum cleaner has to be made of ABS plastic and mounted on three 360 oswivel wheels <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	2 Nos				
07	<p>Sound level meter</p> <p>Country of Origin</p>	4 Nos				

	<p>Country of Manufacture Model</p> <ul style="list-style-type: none"> • Measurement Range: 35 to 80dB 50 to 100dB 80 to 130dB • Measurement Rate : 2.5 times per second • Dynamic Range: 50dB • Frequency Range: 31.5 to 8000Hz • Accuracy: ± 1.5dB • Resolution: 0.1dB • Precision: ± 2.0dB • Operating Temperature: 32° to 122°F (0° to 50°C), 80% RH without condensation • Storage Temperature: -4° to 140°F (-20° to 60°C), 0 to 80% RH without battery • Power Source: 9V Alkaline battery <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
08	<p>Noise dosimeters Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Standards: ANSI S1.25:1991 Personal Noise Dosimeters • Measurement range; 70 dB(A) to 130 dB(A) RMS; 120dB(C) to 140 dB(C)peak • Measurement functions: 115 dB(A) Maximum Sound Level exceedence 1 minute time history of LAeq (3dB), LAVG (4dB or 5dB); For 3dB Exchange Rate: LAeq, LEX,8h, LAE, %; Dose, Exposure (Pa2h), Estimated % Dose, Estimated %Dose, For 4DB & 5dB Exchange rates LAVG, TWA, % Dose, Estimated % Dose 	4 Nos				

	<ul style="list-style-type: none"> • Configuration: ISO(Q=3, Time=none); OSHA (Q=5, Time=Slow) • Memory: The reader unit must store the following measurement data With 8 hours of 1 minute Time History Up to 93 measurements, With 12 hours of 1 minute Time History Up to 64 measurements, With 24 hours of 1 minute Time History Up to 33 measurements. • Power: NIMH rechargeable battery with reader 2XAA/LR6 with auto power swith off an should comprise of CU:195A Mains Power Supply with UK, EU or US plug • Output; Infrared to RC: 110A reader unit and USB 2 connector to computer • Environmental Conditions: -10 °C to +50 °C Operating, -20 °C to +60 °C Storage, Humidity upto 95% RH Non-condensing <p>Software: should be compatible with Microsoft windows versions 98 or later</p> <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer’s Warranty • Supplier’s Warranty 					
09	<p>Digital flow meters</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • Handheld electromagnetic water flow meter • Measuring range 0 to 6m/s • Accuracy at 3m/s is ± 2 % of measured value ± 0.015 m/s • Power supply 18hrs lasting rechargeable batteries • Cable length 30m 	1 Nos				

	<ul style="list-style-type: none"> • Sensor specifications IP68 <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
10	<p>Portable air quality meter with compatible sensors for CO₂, CO, H₂S, NO₂, SO₂, Cl₂, VOC, NH₃, CH₄</p> <ul style="list-style-type: none"> • Able to detect 6 gases simultaneously • Battery life: 18hrs • Dada logger capacity more than 16,000 points • Display: Graphic LCD • Temperature range: -20 to 50 0C • Humidity range: 15% to 100% • Sensor specification • O₂ sensor with measuring range 0-30% ppm, resolution 0.15% ppm, Lower level 19.5% and upper level 23.5% • IR(CH₄) sensor with measuring range 0-50000ppm, resolution 0.05% ppm, Lower level 0.5% and upper level 1.0% • IR(CO₂) sensor with measuring range 0-50000ppm, resolution 250 ppm, Lower level 0.5ppm and upper level 3ppm • PID (VOCs) sensor with measuring range 0-2000ppm, resolution 0.1 ppm, Lower level 50ppm and upper level 100ppm • CO sensor with measuring range 0-999ppm, resolution 1 ppm, Lower level 35ppm and upper level 100ppm • H₂S sensor with measuring range 0-200ppm, resolution 1 ppm, Lower level 10ppm and upper level 20 ppm • SO₂ sensor with measuring range 0-25 ppm, resolution 0.1 ppm, Lower level 2 ppm and 	1 Nos				

	<p>upper level 5ppm</p> <ul style="list-style-type: none"> • Cl₂ sensor with measuring range 0-50 ppm, resolution 0.1 ppm, Lower level 0.3ppm and upper level 0.5ppm • NO₂ sensor with measuring range 0-30%ppm, resolution 0.1 ppm, Lower level 0.5ppm and upper level 1ppm • NH₃ sensor with measuring range 0-100 ppm, resolution 1 ppm, Lower level 12.5 ppm and upper level 25 ppm <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
11	<p>Dust and particulate portable monitors</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Instrument should able to measure following parameters as per declared specifications • PM₁₀, PM_{4.0}, PM_{2.5} and PM_{1.0} measurement • Total dust (VDI 2463) • Soot (EC) measurement (VDI 2465) • Asbestos measurement (VDI 3492) • Measurement of dioxins and furans (VDI 3498) • Measurement of PAHs (VDI 3875) • Measurement of airborne molds (VDI 4252) <p>Measurement of PCP/lindane (VDI 4301)</p> <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	1 Nos				
12	<p>Glass Vacuum filtration apparatus for membrane filters</p>	2 Nos				

	<p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Compatible for Paper size 47mm in diameter should be fitted to fritted disc of 47mm • Borosilicate glass housing • Borosilicate glass funnel • Stainless steel clamp • Must be resistant to all aquatic and organic solutions • Must be autoclavable upto 180 °C • <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> ○ Manufacturer's Warranty <p>Supplier's Warranty</p>					
13	<p>Heavy wall vacuum suction filter kit</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • 120mm filtration bunch funnel kit with heavy wall glass flask • Original Rubber O ring to be supplied with the apparatus <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	2 Nos				
14	<p>Pressure Plate Extractor 15bar</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • The pressure vessel is 4" (10 cm) deep and has an inside diameter of 12" (30 cm). 					

	<ul style="list-style-type: none"> Up to 4 ceramic plates can be accommodated at one time, Allowing approximately 36 each 2-1/4" samples to be analyzed simultaneously. The Pressure Plate Extractor consists of a pressure vessel and lid, clamping bolts, O-ring seals, and outflow tube assemblies. And extra 15 bar pressure plates <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 					
15	<p>Pressure Plate Extractor 5bar</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> The pressure vessel is 9" (22 cm) deep and has an inside diameter of 12" (30 cm). Up to 4 ceramic plates can be accommodated at one time, allowing approximately 48 each 2-1/4" (5.7 cm) diameter samples to be analyzed simultaneously. The Pressure Plate Extractor consists of a pressure vessel and lid, clamping bolts, O-ring seals and outflow tube assemblies. Additional 5 bar pressure plates required <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 					
16	<p>Laboratory Turbidity Meter</p> <p>Country of Origin Country of Manufacture</p>	1 Nos				

	<p>Model</p> <ul style="list-style-type: none"> • Range : 0 - 10,000 NTU, 0 - 2,450 EBC , 0 - 10,000 FNU , 0 - 10,000 FAU • Principal of operation: Nephelometric • Ratio (color correction) : Full time ON or OFF • Accuracy: $\pm 2\%$ of reading plus 0.01 NTU (0 to 1000 NTU) , $\pm 5\%$ of reading (1000 to 4000 NTU), $\pm 10\%$ of reading (4000 to 10,000 NTU) • Resolution 0.0001 NTU on lowest range • Response time Less than 6 seconds • Sample size: 30 ml • Light source: Quick connect tungsten filament or infrared • Operating temperature: 32° - 122°F (0° - 50°C) • Outputs: RS-232 serial port (bidirectional) • Required Certification: UL, CSA, CE, USEPA, ISO7027 <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
17	<p>Photometer for colour Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Light Source: tungsten lamp • Light Detector: silicon photocell with narrow band interference filter @ 420 nm and 525 nm • Range: 0 to 150 mm Pfund • Resolution: 1 mm Pfund • Accuracy @ 25°C (77°F): ± 2 mm Pfund @ 80 mm Pfund • Method: direct measure 	1 Nos				

	<ul style="list-style-type: none"> • Auto-off: after ten minutes of non-use in measurement mode; after one hour of non-use in calibration mode; with last reading reminder • Environment: 0 to 50°C (32 to 122°F); RH max 95% non-condensing • Weight: 360g (12.7oz.) • Battery Type: 9V battery • Dimensions: 193 x 104 x 69 mm (7.6 x 4.1 x 2.7") • To be supplied with sample cuvettes (5), 9V battery, light shield cap, instrument quality certificate, and instruction manual. <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
18	<p>Analytical grade electronic scale ranging 50g to 0.001mg</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Capacity and Readability: 22g x 0.001mg • Repeatability (Standard deviation):0.0025 mg (for 1 g) • Linearity: ±0.010 mg • Stabilization time: Approx. 10 secs • Display mode: g, mg, oz, ozt, ct, mom, dwt, GN, tael, tola, PC (counting mode), % (percent mode), Specific gravity • Weighing pan: 25 mm (50 mm, 95 mm for weighing filters) • Standard accessories: AC adapter, Instruction manual with software, Weighing data logger, Tweezers for calibration mass, Tweezers and two weighing pans for PM filters, Microfuge 	1 Nos				

	<p>tube holder, additional analytical pans (10 pcs each)</p> <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
19	<p>Digester for spectrophotometer</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • Vial capacity: 25Nos • Selectable temperatures: from 100°C to 170°C • Selectable times: from 30 minutes, 60 minutes, 120minutes, 180 minutes or continuous • Warring: noise warning with blinking light signals on completing digestion • Range of testing: able to be used for a range of digesting tests such as COD, phosphorous and other tests <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	1 Nos				
20	<p>Stereoscope for membrane filtration techniques</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • 10x, 23mm super widefield eyepieces and a 450 inclined binocular tube • Four steps magnification changer at 6X, 12X, 25X, 50X <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty 	1 Nos				

	<ul style="list-style-type: none"> Supplier's Warranty 					
	Package 5- Environmental Laboratory:					
1	Pipette bulbs Country of Origin Country of Manufacture Model <ul style="list-style-type: none"> Made of Silicone and synthetic rubber bulb type materials Should comprise of three valves Separate bulbs up to 10ml and 100ml Warranty Period required: Minimum 01 Years <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	4 Nos				
2	Pipette pumps Country of Origin Country of Manufacture Model <ul style="list-style-type: none"> Thumb wheel rotated to raise or lower plunger without quick release valve Polypropylene housing, with silicone rubber seals Separate pumps for up to 2ml, up to 10ml, up to 25 ml Warranty Period required: Minimum 01 Years <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 					
3	pH papers Country of Origin Country of Manufacture Model	50 Nos				

	<ul style="list-style-type: none"> • Universal pH indicator papers • Should comprise of at least 20 strips per pack • Should supply the Colour scale <p>Warranty Period required: Minimum 01 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
4	<p>Hardness measuring strips</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Should able to measure total hardness as CaCO₃ • Comprise of color scales • Measuring range from 0 to 425 ppm • 50 test papers per pack • Incremental steps of 0,25,50,120, 250, 425 ppm <p>Warranty Period required: Minimum 01 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	50 Nos				
5	<p>Dust absorbing carpets</p> <p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Should be made out of coir fibber • Should be of 8ft X 4ft size • Should possess a minimum thickness of 1cm or above to hold the dust until it is cleaned <p>Warranty Period required: Minimum 02 Years</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	5 Nos				
6	Lab shoes	40				

	<p>Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> Washable White Clean Room Safety Shoes Should be supplied with many different sizes(4,5,6,7,8,9,10) Should be independently verified shoes to satisfy the ASTM F2892-11 <p>Warranty Period required: Minimum 02 Years</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	Nos				
7	<p>Lab coats Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> TC white or blue fabric with Three pockets With customer's label on the collar Button closing Button on the end of sleeves Crimping: 1.5CM Available in S, M, L, XL, 2XL Surface resistance of (longitude) 106 -108 ohm/unit <p>Warranty Period required: Minimum 01 Years</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	20 Nos				
8	<p>Gum boots Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> Description: Knee length gumboot with a Steel 	10 Nos				

	<p>toe cap</p> <ul style="list-style-type: none"> • Identification: Black Shaft with Black Sole. White CLAW Branding. • Sizes: Unisex 4 – 12 • Should be verified to the standards IS:12254:1993 <p>Warranty Period required: Minimum 02 Years</p> <ul style="list-style-type: none"> • Manufacturer’s Warranty • Supplier’s Warranty 					
9	<p>PVC gloves Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Description: PVC-coated glove on cotton support, length: 35 cm. Thickness 0.9 mm. • Materials: 100% red PVC vulcanized and coated on jersey cotton support. Complete protection from acids and chemicals <p>Warranty Period required: Minimum 03 Years</p> <ul style="list-style-type: none"> • Manufacturer’s Warranty • Supplier’s Warranty 	3 Nos				
10	<p>Standard stainless steel Forceps Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Should be 160 long, blunt ended, high quality acid resistant stainless steel coating <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> • Manufacturer’s Warranty • Supplier’s Warranty 	10 nos				
11	<p>Nitrile gloves Country of Origin</p>	10 Nos				

	<p>Country of Manufacture Model</p> <ul style="list-style-type: none"> • Non sterile and powder free • Made from synthetic nitrile latex • Ultra Soft to minimize stress. • Stronger. Meets/exceeds NFPA requirements. • Tested using medical level standard ASTM D6319. • 2 thickness options: 3mil and 4mil, satisfy all situations. • Length: 9.5" <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
12	<p>Neoprene Gloves Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • Made from chloroprene and should be 12" long • Resistant to Nitric Acid up to a concentration of 10%. • Resistant to Hydrochloric Acid up to a concentration of 36%. • Resistant to Sulphuric Acid up to a concentration of 50%. <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	10 Nos				
13	<p>Standard BOD bottles Country of Origin Country of Manufacture Model</p>	50 Nos				

	<ul style="list-style-type: none"> 300 mL BOD bottles with black PVC coating, robotic stopper, Opaque black cap, with narrow, flared mouth and tapered, ground-glass pointed <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 					
14	<p>Latex gloves packs Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> White gloves Each packet should contain 50 pares Sizes S, M, L, XL Material 100% latex Length 230mm~240mm <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	20 Nos				
15	<p>Glass Volumetric flask Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> 10 ml capacity Made of Borosilicate glass <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	10 Nos				
16	<p>Glass Volumetric flask Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> 50 ml capacity 	10 Nos				

	<ul style="list-style-type: none"> Made of Borosilicate glass Warranty Period required: Minimum 01 Year <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 					
17	Glass Volumetric flask Country of Origin Country of Manufacture Model <ul style="list-style-type: none"> 100 ml capacity Made of Borosilicate glass Warranty Period required: Minimum 01 Year <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	10 Nos				
18	Glass Volumetric flask Country of Origin Country of Manufacture Model <ul style="list-style-type: none"> 250 ml capacity Made of Borosilicate glass Warranty Period required: Minimum 01 Year <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	10 Nos				
19	Glass Volumetric flask Country of Origin Country of Manufacture Model <ul style="list-style-type: none"> 500 ml capacity Made of Borosilicate glass Warranty Period required: Minimum 01 Year <ul style="list-style-type: none"> Manufacturer's Warranty Supplier's Warranty 	10 Nos				
20	Glass Volumetric flask Country of Origin Country of Manufacture	10 Nos				

	<p>Model</p> <ul style="list-style-type: none"> • 1000 ml capacity • Made of Borosilicate glass <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
21	<p>Glass Measuring cylinders</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • 1 liter capacity • least count of 10ml • Made of Borosilicate glass <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	4 Nos				
22	<p>Glass Measuring cylinders</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • 500 ml capacity • least count of 5ml • Made of Borosilicate glass <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	4 Nos				
23	<p>Glass Measuring cylinders</p> <p>Country of Origin</p> <p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • 100 ml capacity • least count of 1ml • Made of Borosilicate glass <p>Warranty Period required: Minimum 01 Year</p>	4 Nos				

	<ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
24	<p>Glass Measuring cylinders Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • 50 ml capacity • least count of 1ml • Made of Borosilicate glass <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	4 Nos				
25	<p>Glass Measuring cylinders Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • 10 ml capacity • least count of 0.2ml • Made of Borosilicate glass <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	4 Nos				
26	<p>Filter Papers Country of Origin Country of Manufacture Model</p> <ul style="list-style-type: none"> • 10 in a pack • Maximum permissible pore size 1 micrometer • Diameter of the paper 110 <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 	10 Nos				
27	<p>Micropipettes Country of Origin</p>					

	<p>Country of Manufacture</p> <p>Model</p> <ul style="list-style-type: none"> • Variable Volume Micropipettes feature built-in tip ejectors and autoclavable tip cones. • Should work on a click-stop digital system, are easy to calibrate and maintain, and easy to disassemble for autoclaving. • Calibration certificate must be provided with each pipette. • Accuracy and Precision values should be those laid down in the ISO 8655 standards. • Built-in, streamlined tip ejector facilitates easy tip ejection and access to narrow necked bottles and tubes. • Variable Volume Pipette: 0.1-50 µl • Accuracy (±) %: 2.5 to 0.7 • Precision (±) %: 1.5 to 0.3 <p>Warranty Period required: Minimum 01 Year</p> <ul style="list-style-type: none"> • Manufacturer's Warranty • Supplier's Warranty 					
--	--	--	--	--	--	--

Bidder's Name & Signature:

Name of the Company:

Date and Company seal:

4. Drawings

These Bidding Documents includes ***no*** drawings.

5. Inspections and Tests

Required inspections and tests shall be performed at Department of Civil Engineering, Faculty of Engineering, and South Eastern University of Sri Lanka

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.

[The Purchaser shall select insert the appropriate wording using the samples below or other acceptable wording, and delete the text in italics]

CC 1.1(i)	The Purchaser is ¹⁹ : South Eastern University of Sri Lanka
CC 1.1 (m)	The Project Site(s)/Final Destination(s) is/are ²⁰ : South Eastern University of Sri Lanka.
CC 8.1	<p>For notices, the Purchaser's address shall be:</p> <p>Attention²¹: Mr. C.M.Wanniarachchi</p> <p>Address: Senior Assistant Bursar, South Eastern University of Sri Lanka, University Park, Oluvil # 32360</p> <p>Telephone: 067 2255178</p> <p>Facsimile number: 067 2255178</p> <p>Electronic mail address: mangala@seu.ac.lk</p>
CC 12	<p>Payment shall be made on the submission of following documents, after acceptance & recommendation of user Departments.</p> <ol style="list-style-type: none"> 1. Invoice. 2. Details of shipping and other documents. 3. Manufacturer's Warranty Certificate / Supplier's Warranty Certificate. 4. Manufacturer's inspection certificate / data sheet and supplier's calibration certificates where necessary.
CC 15.1	<p><i>Sample provision[Select appropriately]</i></p> <p>CC 15.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:</p> <p>Payment shall be made in Sri Lanka Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser</p>

¹⁹ Insert complete legal name of the Purchaser

²⁰ Insert name(s) and detailed information on the location(s) of the site(s)

²¹ insert full name and the designation of the officer, if applicable

	<p>declaring that the Goods have been delivered (including the necessary documents to the custom clearance) and that all other contracted Services have been performed.</p> <p>(i) On Delivery and Acceptance: Up to a maximum of Ninety (90) percent of the Contract Price, shall be paid on receipt of the Goods and upon submission of the documents specified in CC Clause 12.</p> <p>(ii) On Completion: The remaining ten (10) percent of the Contract Price shall be paid to the Supplier within sixty (90) days after the successful operation and certification form the end user of the equipment & Machinery</p>
--	---

CC 17.1	A Performance Security: 10% of the contract price
CC 17.4	The performance security shall be discharged after 360 days of delivery and acceptance of the goods.
CC 25.1	The inspections and tests shall be: based on best suitable proposal
CC 25.2	The Inspections and tests shall be conducted at: Department of Civil Engineering, Faculty of Engineering, South Eastern University of Sri Lanka, University Park, Oluvil # 32360.
CC 26.1	The liquidated damage shall be: 0.5 % per week.
CC 26.1	The maximum amount of liquidated damages shall be ²² : 10 %
CC 27.3	As specified in the technical specification of the bidding documents.

²² insert number



INVITATION FOR BIDS (IFB)
SOUTH EASTERN UNIVERSITY OF SRI LANKA

**SUPPLY, INSTALLATION AND COMMISSIONING OF CIVIL ENGINEERING
LABORATORY EQUIPMENTS AND INSTRUMENTS.**
(SEU/SS/FE/NCB/2017/03)

1. The **Chairman, Department Procurement Committee (Major)** of the South Eastern University of Sri Lanka invites sealed bids from eligible and qualified bidders for Supply Installation and Commissioning of Laboratory Equipments and Instruments for the use of South Eastern University of Sri Lanka.

Items No.	Category	Bid Bond Rs.
01	Package 01	150,000.00
02	Package 02	50,000.00
03	Package 03	100,000.00
04	Package 04	50,000.00
05	Package 05	25,000.00

2. Bidding will be conducted through **National Competitive Bidding**.
3. Interested eligible bidders may obtain further information from the Deputy Bursar (Telephone no: 067 22 55 178), South Eastern University of Sri Lanka, University Park, Oluvil # 32360 from 9.00 a.m. to 4.00 pm up to **18.09.2017**. (Week days only).
4. A completed set of bidding documents in English Language may be purchased by interested bidders on the submission of a written application by Bidder himself or by bidders' representatives to the address above (In Item 5) and upon payment of non refundable fee of LKR 5,000/= per procurement document, from 9.00 am to 3.00 pm up to **15.09.2017**. The mode of payment shall be either in cash or bank draft in favor of "Bursar, South Eastern University of Sri Lanka". The Bidders can also down load the Bidding documents from the University Website i.e. www.seu.ac.lk. Those who are obtaining bidding documents from the University Website should submit the completed documents along with a Bank Draft drawn in favour of the "Bursar, South Eastern University of Sri Lanka" for Rs. 5000/- as non-refundable fee or **to the shroff** The documents may be purchased up to **15.09.2017**.
5. Sealed Bids should be marked "**Tender for Supply Installation and Commissioning of Laboratory Equipments and Instruments for South Eastern University of Sri Lanka**" on the left hand corner of the envelope and delivered to the **Chairman, Department Procurement Committee (Major), South Eastern University of Sri Lanka, University Park, Oluvil # 32360** or place in the tender box kept in the office of the Vice Chancellor, South Eastern University of Sri Lanka, on or before **2.00 p.m., 19.09.2017**. All bids must be accompanied by **bid security as stated in paragraph 01 above**. Bids will be opened in the presence of the bidders' representatives who choose to attend in person **at 2.30 p.m. on 19.09.2017**. at The Board Room – 2, Ground Floor, Administrative Building, South Eastern University of Sri Lanka, University Park, Oluvil # 32360. Late bids will be rejected.

Chairman,
Department Procurement Committee (Major),
South Eastern University of Sri Lanka,
University Park,
Oluvil #32360.
30.08.2017