

Dow University of Health Sciences



Bidding Documents

**Single Stage – Two Envelope Procedure
As per Rule 46 (2) of SPPR, 2010**

IFB No: DUHS/DP/2025/322/323 Dated 30 April 2025

**Procurement of Laboratory Equipment / Instruments on
CFR/CPT/C&F or on DDP Basis (Excluding GST)
(NIT Ref. No. DUHS/DP/2025/322)**



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Part One - Section I **Instructions to Bidders**

Instructions to Bidders

A. Introduction

1. Source of Funds

- 1.1 The Procuring agency has allocated funds / received / applied for loan / grant / federal / provincial / local government funds from the source(s) indicated in the bidding data in various currencies towards the cost of the project / schemes specified in the bidding data and it is intended that part of the proceeds of this loan / grant / funds / will be applied to eligible payments under the contract for which these bidding documents are issued.
- 1.2 Payment by the Fund will be made by procuring agency from university funds or only at the request of the Procuring agency and upon approval by the Government of Sindh., and in case of a project will be subject in all respect to the terms and conditions of the agreement. The Project Agreement prohibits a withdrawal from the allocated fund account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Federal Government / Sindh Government, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Procuring agency shall derive any rights from the Project Agreement or have any claim to the allocated fund proceeds.

2. Eligible Bidders

- 2.1 This Invitation for Bids is open to all suppliers from eligible sources as defined in the SPP Rules, 2010 (Amended up to date) and its Bidding Documents except as provided hereinafter.
- 2.2 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring agency 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 this Invitation for Bids.
- 2.3 Government-owned enterprises in the Province of Sindh may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Government of Sindh.
- 2.4 Bidders intend to enter into an agreement or under an existing agreement in the form of a Joint Venture (JV) or Consortium shall not be eligible, unless otherwise specified in the Bid Data Sheet.
- 2.5 Bidders shall not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by any government organization in accordance with sub-clause 34.1.
- 2.6 The bidder must be registered with E-Pak Acquisition and Disposal System (EPADS).

3. Eligible Goods and Services

- 3.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, defined in the SPP Rules, 2010 (Amended upto date) and its Bidding Documents, and all expenditures made under the contract will be limited to such goods and services.
- 3.2 For purposes of this clause, "origin" means the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized product results that is

substantially different in basic characteristics or in purpose or utility from its components.

- 3.3 The origin of goods and services is distinct from the nationality of the Bidder

4. Cost of Bidding

- 4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring agency named in the Bid Data Sheet, hereinafter referred to as "the Procuring agency," will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. The Bidding Documents

5. Content of Bidding Documents

- 5.1 the bidding documents include:

- a. Instructions to Bidders (ITB)
- b. Bid Data Sheet
- c. General Conditions of Contract (GCC)
- d. Special Conditions of Contract (SCC)
- e. Schedule of Requirements
- f. Technical Specifications
- g. Bid Form and Price Schedules
- h. Bid Security Form
- i. Contract Form
- j. Performance Security Form
- k. Manufacturer's Authorization Form

- 5.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its bid.

6. Clarification of Bidding Documents

- 6.1 An interested Bidder requiring any clarification of the bidding documents may notify the Procuring agency in writing through EPADS. The Procuring agency will respond in writing to any request for clarification of the bidding documents, which it receives no later than five working days before the deadline for the submission of bids prescribed in the Bid Data Sheet. The procuring agency's response (including an explanation of the query but without identifying the source of inquiry) will be uploaded on the official website of the procuring agency and EPADS.

7. Amendment of Bidding Documents

- 7.1 At any time prior to the deadline for submission of bids, the Procuring agency, for any reason, whether at its own initiative or in response to a clarification requested by an interested Bidder, may modify the bidding documents by amendment.
- 7.2 All interested bidders that have received the bidding documents will be notified of the amendment in writing through the official website of the procuring agency and EPADS and will be binding on them.
- 7.3 In order to allow interested bidders reasonable time in which to take the amendment into account in preparing their bids, the Procuring agency, at its discretion, may extend the deadline for the submission of bids.

C. Preparation of Bids

8. Language of Bid

- 8.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Procuring agency shall be written in the language specified in the Bid Data Sheet. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the Bid Data Sheet, in which case, for purposes of interpretation of the Bid, the translation shall govern.

9. Documents Comprising the Bid

- 9.1 The bid prepared by the Bidder shall comprise the following components:
- a Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11, and 12;
 - documentary evidence established in accordance with ITB Clause 13 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted;
 - documentary evidence established in accordance with ITB Clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services and conform to the bidding documents; and
 - bid security furnished in accordance with ITB Clause 15.

10. Bid Form

- 10.1 The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.

11. Bid Prices

- 11.1 The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total bid price of the goods it proposes to supply under the contract.
- 11.2 ***For goods offered within the purchaser's country***, prices indicated on the relevant Price Schedule shall be on delivered duty paid (DDP) AND/OR ***For goods offered from outside the purchaser's country***, prices indicated on the relevant Price Schedule shall be on CFR / CNF / C&F / CPT – Karachi basis. The price of other (incidental) services, if any, listed in the Bid Data Sheet will be entered separately
- 11.3 The Bidder's separation of price components in accordance with ITB Clause 11.2 above will be solely for the purpose of facilitating the comparison of bids by the Procuring agency and will not in any way limit the Procuring agency's right to contract on any of the terms offered.
- 11.4 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet. A bid submitted with an adjustable price quotation will be treated as nonresponsive and will be rejected, pursuant to ITB Clause 24. If, however, in accordance with the Bid Data Sheet, prices quoted by the Bidder shall be subject to adjustment during the performance of the contract, a bid submitted with a fixed price quotation will not be rejected, but the price adjustment would be treated as zero.

12. Bid Currencies

- 12.1 Prices shall be quoted in Pak Rupees unless otherwise specified in the Bid Data Sheet.

13. Documents Establishing Bidder's Eligibility and Qualification

- 13.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.
- 13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Procuring agency's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 2.
- 13.3 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Procuring agency's satisfaction:
- a. that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer or producer to supply the goods in the Procuring agency's country;
 - b. that the Bidder has the financial, technical, and production capability necessary to perform the contract;
 - c. that, in the case of a Bidder not doing business within the Procuring agency's country, the Bidder is or will be (if awarded the contract) represented by an Agent in that country 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
 - d. that the Bidder meets the qualification criteria listed in the Bid Data Sheet.

14. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

- 14.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the Bidder proposes to supply under the contract.
- 14.2 The documentary evidence of the eligibility of the goods and services shall consist of a statement in the Price Schedule of the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.
- 14.3 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, and data, and shall consist of:
- a. a detailed description of the essential technical and performance characteristics of the goods;
 - b. a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period to be specified in the Bid Data Sheet, following commencement of the use of the goods by the Procuring agency; and
 - c. an item-by-item commentary on the Procuring agency's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.
- 14.4 For purposes of the commentary to be furnished pursuant to ITB Clause 14.3(c) above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring agency in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its bid, provided that it demonstrates to the Procuring agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

15. Bid Security

- 15.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount specified in the Bid Data Sheet.
- 15.2 The bid security is required to protect the Procuring agency against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 15.7.
- 15.3 The bid security shall be in Pak. Rupees and shall be in one of the following forms:
- a. a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency and valid for thirty (30) days beyond the validity of the bid; or
 - b. irrevocable encashable on-demand Bank call-deposit.
- 15.4 Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 will be rejected by the Procuring agency as nonresponsive, pursuant to ITB Clause 24.
- 15.5 Unsuccessful bidders' bid security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity prescribed by the Procuring agency pursuant to ITB Clause 16.
- 15.6 The successful Bidder's bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 32, and furnishing the performance security, pursuant to ITB Clause 33.
- 15.7 The bid security may be forfeited:
- a. if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or
 - b. in the case of a successful Bidder, if the Bidder fails:
 - i. to sign the contract in accordance with ITB Clause 32; **or**
 - ii. to furnish performance security in accordance with ITB Clause 33.

16. Period of Validity of Bids

- 16.1 Bids shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Procuring agency, pursuant to ITB Clause 19. A bid valid for a shorter period shall be rejected by the Procuring agency as nonresponsive.
- 16.2 In exceptional circumstances, the Procuring agency may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security provided under ITB Clause 15 shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in the bidding document.

17. Format and Signing of Bid

- 17.1 The Bidder shall prepare an original and the number of copies of the bid indicated in the Bid Data Sheet, clearly marking each "ORIGINAL BID" and "COPY OF BID," as appropriate. In the event of any discrepancy between them, the original shall govern.
- 17.2 The original and the copy or copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.
- 17.3 Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the bid.
- 17.4 The Bidder shall furnish information as described in the Form of Bid on commissions



or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

D. Submission of Bids

18. Sealing and Marking of Bids

- 18.1 The bid shall be typed and shall be signed by the Bidder, the person signing the bid shall initial all pages of the bid. The Bidder shall submit (upload) typed Bid in original scanned copy through EPADS, which shall be signed by the Bidder to bind the Bidder to the contract. Any interlineations, erasures, or overwriting shall be valid only if they are initialled by the person signing the bid. All bidding documents are to be duly attested (signed and stamped) by the authorized person of the bidder.
- 18.2 In Procedures of Open Competitive Bidding – the Envelope means encrypted electronic file(s). The Bid shall be submitted through the electronic procurement system of SPPRA (EPADS) and uploaded with the Technical Proposal and Financial Proposal (encrypted files as specified in EPADS). The original bid security scanned copy must be uploaded on EPADS. The original bid security shall be submitted at the address mentioned in the NIT/IFB/Bidding Documents/BDS. Bids shall: be addressed to the Procuring Agency at the address given in the Bid Data Sheet; and bear the title of procurement Activity indicated in the Bid Data Sheet.

19. Deadline for Submission of Bids

- 19.1 Bids must be received by the Procuring agency through EPADS no later than the time and date specified in the Bid Data Sheet.
- 19.2 The Procuring agency may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB Clause 7, in which case all rights and obligations of the Procuring agency and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

20. Late Bids

- 20.1 Any bid received by the Procuring agency after the deadline for submission of bids prescribed by the Procuring agency pursuant to ITB Clause 19 will be rejected and returned unopened to the Bidder.

21. Modification and Withdrawal of Bids

- 21.1 The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Procuring agency prior to the deadline prescribed for submission of bids.
- 21.2 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of ITB Clause 18. by a signed confirmation copy, postmarked not later than the deadline for submission of bids.
- 21.3 No bid may be modified after the deadline for submission of bids.
- 21.4 No bid may be withdrawn 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 Form. Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its bid security, pursuant to the ITB Clause 15.7.

E. Opening and Evaluation of Bids

22. Opening of Bids by the Procuring agency

- 22.1 The Procuring agency will open all bids (electronically from EPADS) in the presence of bidders' representatives who choose to attend, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register evidencing their attendance.
- 22.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the Procuring agency, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder pursuant to ITB Clause 20.
- 22.3 Bids (and modifications sent pursuant to ITB Clause 21.2) that are not opened electronically and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances, including but not limited to bugs, viruses, system glitches, not readable file etc. Withdrawn bids will not be unopened.
- 22.4 The Procuring agency will prepare minutes of the bid opening.

23. Clarification of Bids

- 23.1 During evaluation of the bids, the Procuring agency may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.

24. Preliminary Examination

- 24.1 The Procuring agency will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 24.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
- 24.3 The Procuring agency may waive any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- 24.4 Prior to the detailed evaluation, pursuant to ITB Clause 25 the Procuring agency will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, such as those concerning Bid Security (ITB Clause 15), Applicable Law (GCC Clause 30), and Taxes and Duties (GCC Clause 32), will be deemed to be a material deviation. The Procuring agency's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 24.5 If a bid is not substantially responsive, it will be rejected by the Procuring agency and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

25. Evaluation and Comparison of Bids

- 25.1 The Procuring agency will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 24.
- 25.2 The Procuring agency's evaluation of a bid will be on delivered duty paid (DDP) price inclusive of prevailing taxes and duties AND/OR on CFR / CNF / C&F / CPT – Karachi basis and will exclude any allowance for price adjustment during the period of execution of the contract, if provided in the bid.
- 25.3 The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted in accordance with ITB Clause 11.2, one or more of the following factors as specified in the Bid Data Sheet, and quantified in ITB Clause 25.4:
- a. incidental costs
 - b. delivery schedule offered in the bid;
 - c. deviations in payment schedule from that specified in the Special Conditions of Contract;
 - d. the cost of components, mandatory spare parts, and service;
 - e. the availability Procuring agency of spare parts and after- sales services for the equipment offered in the bid;
 - f. the projected operating and maintenance costs during the life of the equipment;
 - g. the performance and productivity of the equipment offered; and/or
 - h. other specific criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.
- 25.4 For factors retained in the Bid Data Sheet pursuant to ITB 25.3, one or more of the following quantification methods will be applied, as detailed in the Bid Data Sheet:
- a. Incidental costs provided by the bidder will be added by Procuring agency to the delivered duty paid (DDP) price at the final destination.
 - b. Delivery schedule.
 - (i) The Procuring agency requires that the goods under the Invitation for Bids shall be delivered at the time specified in the Schedule of Requirements, which will be treated as the base; a delivery "adjustment" will be calculated for bids by applying a percentage, specified in the Bid Data Sheet, of the DDP price for each week of delay beyond the base, and this will be added to the bid price for evaluation. No credit shall be given to early delivery; **or**
 - (ii) The goods covered under this invitation are required to be delivered (shipped) within an acceptable range of weeks specified in the Schedule of Requirement. No credit will be given to earlier deliveries, and bids offering delivery beyond this range will be treated as nonresponsive. Within this acceptable range, an adjustment per week, as specified in the Bid Data Sheet, will be added for evaluation to the bid price of bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements; **or**
 - (iii) 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 DDP price per week of variation from the specified delivery schedule.

- c. Deviation in payment schedule.
- (i) Bidders shall state their bid price for the payment schedule outlined in the SCC. Bids will 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 Procuring agency may consider the alternative payment schedule offered by the selected Bidder; **or**
 - (ii) The SCC stipulates the payment schedule offered by the Procuring agency. If a bid deviates from the schedule and if such deviation is considered acceptable to the Procuring agency, 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 this invitation, at the rate per annum specified in the Bid Data Sheet.
- d. Cost of spare parts.
- (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 Bid Data Sheet, is annexed to the Technical Specifications. The total cost of these items, at the unit prices quoted in each bid, will be added to the bid price; **or**
 - (ii) The Procuring agency 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 Bid Data Sheet. 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; **or**
 - (iii) The Procuring agency will estimate the cost of spare parts usage in the initial period of operation specified in the Bid Data Sheet, based on information furnished by each Bidder, as well as on past experience of the Procuring agency or other procuring agencies in similar situations. Such costs shall be added to the bid price for evaluation.
- e. Spare parts and after sales service facilities in the Procuring agency's country.
- The cost to the Procuring agency of establishing the minimum service facilities and parts inventories, as outlined in the Bid Data Sheet or elsewhere in the bidding documents, if quoted separately, shall be added to the bid price.
- f. Operating and maintenance costs.
- Since the operating and maintenance costs of the goods under procurement form a major part of the life cycle cost of the equipment, these costs will be evaluated in accordance with the criteria specified in the Bid Data Sheet or in the Technical Specifications.
- g. Performance and productivity of the equipment.
- (i) Bidders shall state the guaranteed performance or efficiency in response to the Technical Specification. For each drop in the performance or efficiency below the norm of 100, an adjustment for an amount specified in the Bid Data Sheet will be added to the bid price, representing the capitalized cost of additional operating costs over the life of the plant, using the methodology specified in the Bid Data Sheet or in the Technical Specifications; **or**

- (ii) Goods offered shall have a minimum productivity specified under the relevant provision in the Technical Specifications to be considered responsive. Evaluation shall be based on the cost per unit of the actual productivity of goods offered in the bid, and adjustment will be added to the bid price using the methodology specified in the Bid Data Sheet or in the Technical Specifications.
- h. Specific additional criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.

The relevant evaluation method shall be detailed in the Bid Data Sheet and/or in the Technical Specifications.

Alternative

25.4 Merit Point System:

The following merit point system for weighing evaluation factors can be applied if none of the evaluation methods listed in 25.4 above has been retained in the Bid Data Sheet. The number of points allocated to each factor shall be specified in the Bid Data Sheet.

[In the Bid Data Sheet, choose from the range of]

Evaluated price of the goods	60 to 90
Cost of common list spare parts	0 to 20
Technical features, and maintenance and operating costs	0 to 20
Availability of service and spare parts	0 to 20
Standardization	0 to 20
Total	100

The bid scoring the highest number of points will be deemed to be the lowest evaluated bid.

26. Contacting the Procuring agency

- 26.1 Subject to ITB Clause 23, no Bidder shall contact the Procuring agency on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Procuring agency, it should do so in writing.
- 26.2 Any effort by a Bidder to influence the Procuring agency in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.

F. Award of Contract

27. Post-qualification

- 27.1 In the absence of prequalification, the Procuring agency will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 13.3.
- 27.2 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 13.3, as well as such other information as the Procuring agency deems necessary and appropriate.
- 27.3 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Procuring agency will proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.

28. Award Criteria

- 28.1 Subject to ITB Clause 30, the Procuring agency will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

29. Procuring agency's Right to Vary Quantities at Time of Award

- 29.1 The Procuring agency reserves the right at the time of contract award to increase or decrease, the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

30. Procuring agency's Right to Accept any Bid and to Reject any or All Bids

- 30.1 The Procuring agency 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 the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Procuring agency's action.

31. Notification of Award

- 31.1 Prior to the expiration of the period of bid validity, the Procuring agency will notify the successful Bidder in writing by registered letter or by cable, to be confirmed in writing by registered letter, that its bid has been accepted.
- 31.2 The notification of award will constitute the formation of the Contract.
- 31.3 Upon the successful Bidder's furnishing of the performance security pursuant to ITB Clause 33, the Procuring agency will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 15.

32. Signing of Contract

- 32.1 At the same time as the Procuring agency notifies the successful Bidder that its bid has been accepted, the Procuring agency will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.
- 32.2 Within thirty (30) days of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to the Procuring agency.

33. Performance Security



- 33.1 Within twenty (20) days of the receipt of notification of award from the Procuring agency, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents, or in another form acceptable to the Procuring agency.
- 33.2 Failure of the successful Bidder to comply with the requirement of ITB Clause 32 or ITB Clause 33.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Procuring agency may make the award to the next lowest evaluated Bidder or call for new bids.

34. Corrupt or Fraudulent Practices

- 34.1 The Government of Sindh requires that Procuring agency's (including beneficiaries of donor agencies' loans), as well as Bidders/Suppliers/Contractors under Government-financed or Procuring Agency-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the SPPRA, in accordance with the SPP Act, 2009 and Rules made thereunder:
- a. defines, for the purposes of this provision, the terms set forth below as follows:
 - i. "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
 - ii. "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring agency, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non- competitive levels and to deprive the Procuring agency of the benefits of free and open competition;
 - b. will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
 - c. will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Government-financed contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government-financed contract.
- 34.2 Furthermore, Bidders shall be aware of the provision stated in sub-clause 5.4 and sub-clause 24.1 of the General Conditions of Contract.

Part One - Section II
General Conditions of Contract

General Conditions of Contract

1. Definitions

1.1 In this Contract, the following terms shall be interpreted as indicated:

- a. "The Contract" means the agreement entered into between the Procuring agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- b. "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
- c. "The Goods" means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring agency under the Contract.
- d. "The Services" means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
- e. "GCC" means the General Conditions of Contract contained in this section.
- f. "SCC" means the Special Conditions of Contract.
- g. "The Procuring agency" means the organization purchasing the Goods, as named in SCC.
- h. "The Procuring agency's country" is the country named in SCC.
- i. "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.
- j. "The Project Site," where applicable, means the place or places named in SCC.
- k. "Day" means calendar day.
- l. "Envelope" means encrypted electronic file.

2. Application

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

3. Country of Origin

- 3.1 All Goods and Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules and further elaborated in the SCC or Technical Specifications.
- 3.2 For purposes of this Clause, “origin” means the place where the Goods were mined, grown, or produced, or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 3.3 The origin of Goods and Services is distinct from the nationality of the Manufacturer / Supplier.

4. Technical Specifications

- 4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the concerned institution.

5. Use of Contract Documents and Information; Inspection and Audit by the Government

- 5.1 The Supplier shall not, without the Procuring agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The Supplier shall not, without the Procuring agency's prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of performing the Contract.
- 5.3 Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Procuring agency and shall be returned (all copies) to the Procuring agency on completion of the Supplier's performance under the Contract if so required by the Procuring agency.
- 5.4 The Supplier shall permit the Procuring agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the procuring agency, if so required.

6. Patent Rights

- 6.1 The Supplier shall indemnify the Procuring agency against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring agency's country.

7. Performance Security

- 7.1 Within twenty (20) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring agency the performance security in the amount specified in SCC.
- 7.2 The proceeds of the performance security shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 7.3 The performance security shall be denominated in the currency of the Contract acceptable to the Procuring agency and shall be in one of the following forms:
- a. a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring agency's country, in the form provided in the bidding documents or another form acceptable to the Procuring agency; or
 - b. a cashier's or certified check.
- 7.4 The performance security will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.

8. Inspections and Tests

- 8.1 The Procuring agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring agency requires and where they are to be conducted. The Procuring agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.
- 8.2 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring agency
- 8.3 Should any inspected or tested Goods fail to conform to the Specifications, the Procuring agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring agency.
- 8.4 The Procuring agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring agency's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring agency or its representative prior to the Goods' shipment from the country of origin.
- 8.5 Nothing in GCC Clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

9. Packing

- 9.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Procuring agency.

10. Delivery and Documents

- 10.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are specified in SCC.
- 10.2 Documents to be submitted by the Supplier are specified in SCC.

11. Insurance

- 11.1 The Goods supplied under the Contract shall be delivered duty paid (DDP) / CFR / CNF / C&F / CPT – Karachi under which risk is transferred to the buyer after having been delivered at consignees end or Karachi Port, hence insurance coverage is sellers responsibility.

12. Transportation

- 12.1 The Supplier is required under the Contract to transport the Goods to a specified place of destination outside and within the Procuring agency's country, transport to such place of destination in the Procuring agency's country, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price.

13. Incidental Services

- 13.1 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:
- a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;
 - b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;
 - c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
 - d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
 - e. training of the Procuring agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
- 13.2 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged for other parties by the Supplier for similar services.

14. Spare Parts

- 14.1 As specified in SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
- a. such spare parts as the Procuring agency may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
 - b. in the event of termination of production of the spare parts:
 - (i) advance notification to the Procuring agency of the pending termination, in sufficient time to permit the Procuring agency to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the Procuring agency, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

- 15.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

- 15.2 This warranty shall remain valid for twelve (12) months or according to the requirement of extended warranty period 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. In any case this period shall not exceed six (06) months beyond the warranty expiration period from the date of taking over of goods by the procuring agency, unless specified otherwise in SCC.
- 15.3 The Procuring agency shall promptly notify the Supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring agency.
- 15.5 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, within a reasonable period, the Procuring agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring agency may have against the Supplier under the Contract.
- 15.6 The provisions of this Clause include all the expenses that the bidder may have to incur for delivery and installation of such replacement parts, material and equipment as are needed for satisfactory operation of the goods at the consignees end.
- 15.7 During the period of warranty, the bidder shall remedy, at his / her expense all defects in design, material and workmanship that may develop or are revealed under normal use of the goods upon receiving writing notice from the procuring agency; the notice shall indicate in what respect the goods are faulty.
- 15.8 The bidder shall provide warranty / guarantee for supply of reagents, kits and chemicals, consumables, films and ancillaries for at least 10 years (where applicable).
- 15.9 The bidder shall remain responsible for providing after sale services even after expiry of warranty / guarantee period and sign a Service Contract including parts or without parts with Procuring Agency for 05 years (minimum). Bidder shall separately quote the price of service contract (in terms of percentage) inclusive of parts and without parts, separately.
- 15.10 In case of consumable items, reagents, kits, chemicals, films etc. the contractor shall remain responsible for specificity, efficacy & sensitivity with maximum period of expiry as much allowed by manufacturer.
- 15.11 The Procuring Agency shall promptly notify the Bidder in writing of any claims arising out of this warranty.
- 15.12 The bidder shall be responsible to ensure the 95% uptime of the machinery / equipment during the warranty period.

16. Payment

- 16.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.
- 16.2 The Supplier's request(s) for payment shall be made to the Procuring agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.
- 16.3 Payments shall be made promptly by the Procuring agency, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier.

- 16.4 The currency of payment shall be in Pak. Rupees for Goods supplied from within the Procuring Agency's country on DDP basis **AND** payment shall be made in Foreign Currency. through irrevocable letter of credit for Goods supplied from outside the Procuring Agency's country on CFR / CNF/ C&F / CPT Karachi Basis.

17. Prices

- 17.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Procuring agency's request for bid validity extension, as the case may be.

18. Change Orders

- 18.1 The Procuring agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, 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 Procuring agency;
 - b. the method of shipment or packing;
 - c. the place of delivery; and/or
 - d. the Services to be provided by the Supplier.
- 18.2 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 delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring agency's change order.

19. Contract Amendments

- 19.1 Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

20. Assignment

- 20.1 The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring agency's prior written consent.

21. Subcontracts

- 21.1 The Supplier shall notify the Procuring agency in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.
- 21.2 Subcontracts must comply with the provisions of GCC Clause 3.

22. Delay in the Supplier's Performance

- 22.1 Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring agency in the Schedule of Requirements / Contract Award.
- 22.2 If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by

amendment of Contract.

- 22.3 Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of liquidated damages.

23. Liquidated Damages

- 23.1 Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC 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 SCC. Once the maximum is reached, the Procuring agency may consider termination of the Contract pursuant to GCC Clause 24.

24. Termination for Default

- 24.1 The Procuring agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:
- a. if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring agency pursuant to GCC Clause 22; or
 - b. if the Supplier fails to perform any other obligation(s) under the Contract.
 - c. if the Supplier, in the judgment of the Procuring agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

“corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.

“fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

- 24.2 In the event the Procuring agency terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Procuring agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

25. Force Majeure

- 25.1 Notwithstanding the provisions of GCC Clauses 22, 23, and 24, 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.

25.2 For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

25.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring agency 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.

26. Termination for Insolvency

26.1 The Procuring agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring agency.

27. Termination for Convenience

27.1 The Procuring agency, by written 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 Procuring agency's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

27.2 The Goods that are complete and ready for shipment within thirty (30) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring agency at the Contract terms and prices. For the remaining Goods, the Procuring agency may elect:

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

28. Resolution of disputes

28.1 The Procuring agency 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.

28.2 If, after thirty (30) days from the commencement of such informal negotiations, the Procuring agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed manner and/or arbitration.

29. Governing Language

29.1 The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

30. Applicable Law

- 30.1 The Contract shall be interpreted in accordance with the laws of the Procuring agency's country (Islamic Republic of Pakistan), unless otherwise specified in SCC.

31. Notices

- 31.1 Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.
- 31.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

32. Taxes and Duties

- 32.1 Supplier shall be entirely responsible for all taxes, duties, license fees, etc. (excluding GST), incurred until delivery of the contracted Goods to the Procuring agency in case of Delivered Duty Paid (DDP) basis.

Part Two (Procurement Specific Provisions)

- Invitation for Bids (IFB)
- Bid Data Sheet (BDS)
- Special Conditions of Contract (SCC)
- Schedule of Requirements
- Technical Specifications
- Sample Form
- Eligibility

Part Two - Section I Invitation for Bids

Invitation for Bids (IFB) / Notice Inviting Tender (NIT)

IFB No: DUHS/DP/2025/322/323 Dated 30 April 2025

Dow University of Health Sciences (DUHS), Karachi, invites the following e-bids through E-Pak Acquisition and Disposable System (EPADS) from the Manufacturers or authorized Partners / Agents / Distributors of Manufacturers available on the 'List of Active Taxpayers' of FBR/SRB (whichever is applicable). Bidding Documents containing detailed Terms and Conditions can be viewed/downloaded from <https://portalsindh.eprocure.gov.pk/#/> and <https://duhs.edu.pk>.

S#	Description	Bidding Procedure	Tender Reference No.
1.	Procurement of Laboratory Equipment / Instruments on CFR/CPT/C&F or on DDP Basis (Excluding GST)	Single Stage – Two Envelopes	DUHS/DP/2025/322
2.	Procurement of Library Management System on DDP Basis (Excluding GST)	Single Stage – One Envelopes	DUHS/DP/2025/323

Electronic Bids should be submitted through EPADS only. Manual bids will not be received. Interested bidders are required to register themselves on the EPAD System at the link <https://sindh.eprocure.gov.pk/#/supplier/registration> for submission of electronic bids.

The bids, prepared in accordance with the instructions given in the bidding documents, must be submitted on EPADS by **21 May 2025 at 11:30 Hrs.** The original instrument of tender fee Rs. 2,000/- (Non-refundable) and bid security @ two percent (2%) of the total bid value must reach the procuring agency (Procurement Directorate at Library Block, Dow University of Health Sciences (Ojha Campus), SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi) before the deadline for submission of e-bids, which will be opened on the same day at **12:00 Hrs.**

Note:

- For any query regarding e-bidding, please contact the Director Procurement Office at Tel: 021-38771111 (Ext. 4433)
- In case Govt. announces any public holiday or any unfavorable circumstances, the tender/bids will be submitted and opened on the next working day, at the same venue and time.
- The purchaser reserves the right to reject any/all bids under the relevant provisions of SPP Rules 2010.
- In case of any difficulty, prospective bidders may contact the EPADS Helpline 051-111-137-237 during working days/hours.

Director Procurement
Dow University of Health Sciences, Karachi

Part Two - Section II

Bid Data Sheet

Bid Data Sheet

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

Introduction	
ITB 1.1	Name of Procuring Agency: Dow University of Health Sciences, Karachi (DUHS)
ITB 1.1	Project / Scheme / Tender Allocation Amount: PKR. 200.00 million
ITB 1.1	Project / Scheme Allocation Number: Nil
ITB 1.1	Name of Project/Scheme: Dow Institute for Advance Biological & Animal Research, Hematology and Blood Bank of Dr. Ishrat ul Ibad Khan Institute of Blood Diseases, Dow Research Institute of Biotechnology and Biomedical Sciences, Dow International Dental College, Molecular Pathology department, Dow Institute of Biological, Biochemical & Pharmaceutical Sciences and Dow Hospital Pharmacy
ITB 1.1	Name of Contract: Procurement of Laboratory Equipment / Instruments
ITB 2.1	Bids submitted under Joint Venture (JV) / Consortium will not be considered and rejected as ineligible bidder.
ITB 4.1	Name of Procuring agency: Dow University of Health Sciences, Karachi (DUHS)
ITB 6.1	Postal Address: Dow University of Health Sciences (Ojha Campus), Procurement Directorate at Library Block, SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi. Phone No. + 92-21-99261497, Email: director.procurement@duhs.edu.pk
ITB 8.1	Language of the bid shall be ENGLISH.

Bid Price and Currency	
ITB 11.2	<ul style="list-style-type: none"> The price quoted shall be in Pakistani Rupee for the Goods offered within the Procuring Agency's Country on delivered duty paid (DDP) Price (excluding GST). The price quoted shall be in foreign Currency for the Goods offered from Outside the Procuring Agency's Country on CFR / C&F / CPT Karachi Basis. Price of incidental services, if any, must be included in price of goods
ITB 11.4	The price shall be fixed during the contract period.
ITB 12.1	<ul style="list-style-type: none"> For the Goods offered within the Procuring Agency's Country: the price quoted shall be in Pak Rupees on delivered duty paid (DDP) basis (Excluding GST). For the Goods offered from Outside the Procuring Agency's Country: the price quoted shall be in Foreign Currency on CFR / C&F / CPT- Karachi Basis.

Preparation and Submission of Bids	
ITB 13.3 (d)	<p>Mandatory Qualification requirements</p> <p>Please review the following list of requirements/ documents to be enclosed with the Technical Proposal.</p> <p>These are the “MANDATORY REQUIREMENTS/DOCUMENTS”, non-submission of any one of the mandatory documents / non-compliance to the any single mandatory provision will lead to disqualification / rejection of the bid.</p>

S#	DOCUMENT OF PARTICIPATING FIRM	YES / NO
1.	PRODUCT EVALUATION	
1.1	Compliance to the Technical Specifications and Requirements.	
1.2	Item-wise / Feature-wise product compliance / deviation sheet / statement duly sign and stamped must be attached (Form-D) .	
1.3	Catalogue / Brochures / technical data sheet (having complete technical specifications of the offered good).	
1.4	<p>Valid Manufacturer Authorization in accordance with ITB Clause 13.3(a): Original Equipment Manufacturers (OEM) or OEM's Authorized Distributors / Sole Agents in Pakistan are allowed to participate in the bidding process. SUB-DISTRIBUTOR / SPOT AUTHORIZED AGENT is not allowed to participate in the bidding process.</p>	
1.5	The manufacturer must furnish documentary evidence affirming their status as the original equipment manufacturer (OEM) of the quoted product, along with specific details regarding the manufacturing location.	
2.	BIDDER EVALUATION	
2.1	Tender Purchase Receipt / Pay order of Tender Fee.	
2.2	Bid Security of required amount and in prescribed shape. (Must be submitted before the opening of the bids)	
2.3	Bidding Documents (Duly filled, Signed & Stamped by Bidder)	
2.4	<p>Undertaking on stamp paper of Rs. 100/- to the effect that:</p> <ul style="list-style-type: none"> i. The bidder is neither blacklisted nor suspended by any National / International, including Provincial and Federal Government. ii. Any director or owner of the bidding company is not awarded any punishment from any Court of Law. iii. Bidder has submitted the correct and complete information along with the bid/offer. If any document / information is found forged / engineered / fake / bogus at any stage, the bidder may be declared as Blacklisted in accordance with law and the performance guarantee and payment, if any may be forfeited. 	
2.5	Compliance to bid validity period.	
2.6	Compliance to Delivery Schedule.	
2.7	Compliance to Payment Terms & Conditions.	
2.8	Income Tax & GST Registration Certificates (with Active Taxpayer Status on FBR website).	
2.9	DRAP license showing importer of medical devices or proof of on-going process for registration. (Where applicable)	
2.10	Human Resource including detail of Technical Team and Workshop (Educational & Training Certificates to be attached) (Form-A)	

S#	DOCUMENT OF PARTICIPATING FIRM	YES / NO
2.11	The Bid Form & Price Schedule(s) shall be attached/inserted in the Financial Proposal. However, a copy of the same shall be attached/inserted in the Technical Proposal after hiding the amount.	
2.12	Past performance/experience: Bidder must have experience for supplying at least three (3) for Laboratory Equipment in Pakistan of the quoted model or having the better specifications during the last 5 years. (Documentary evidence must be attached).	
2.13	Bidder's Average Annual Turnover of the last three (03) financial years must not be less than PRs. 100 million (Income Tax Returns for the last 3 years must be attached as supporting documents for the verification of the turnover). (Form-E).	
2.14	Company Profile	

ITB 14.3 (b)	Spare parts required for <u>Ten (10) years</u> of operation.
ITB 15.1	Amount of bid security shall not be less than 2% of the total bid price of the bidder in the form of a Call Deposit, Bank Draft or a Bank Guarantee issued by a scheduled bank of Pakistan, in favour of the Dow University of Health Sciences, Karachi.
ITB 16.1	Bid validity period shall be <u>90 days</u>
ITB 18.2 (a)	Dow University of Health Sciences (Ojha Campus), SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi.
ITB 18.2 (b)	<p>Name of Project / Scheme / Institute / Department: Dow Institute for Advance Biological & Animal Research, Hematology and Blood Bank of Dr. Ishrat ul Ibad Khan Institute of Blood Diseases, Dow Research Institute of Biotechnology and Biomedical Sciences, Dow International Dental College, Molecular Pathology department, Dow Institute of Biological, Biochemical & Pharmaceutical Sciences and Dow Hospital Pharmacy</p> <p>IFB/NIT Title: Procurement of Laboratory Equipment / Instruments (Ref. No: DUHS/DP/2025/322)</p> <p>IFB No: DUHS/DP/2025/322/323 Dated 30 April 2025</p> <p>"Must bear the name of the bidder" and a warning "Do Not Open Before the time and date of bid opening".</p>
ITB 19.1	<p>Deadline for bid submission: Date: 21 May 2025 Time: upto 11:30 Hrs.</p>
ITB 22.1	<p>Date, Time and Place of Bid Opening Date: 21 May 2025 Time: 12:00 Hrs. Place: Procurement Directorate at Library Block, Dow University of Health Sciences (Ojha Campus), SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi.</p>

Bid Evaluation	
ITB 25.4	Criteria for bid evaluation.

i. Technical Bids / Proposals Evaluation:

- (a) The bids not responsive to the MANDATORY QUALIFICATION CRITERIA provided at ITB Clause 13.3(d) shall not be eligible for further Technical Evaluation.
- (b) Joint Venture / Consortium Bids, Conditional Bids, Telegraphic Bids, Bids not accompanied by Bid Security of required amount and form, bids received after specific date and time and bids of Black Listed firms shall be treated as rejected / non-responsive.
- (c) Alternative bids shall not be allowed.
- (d) The bids shall be evaluated and compared on itemized basis OR on the basis of a group of similar nature goods OR goods compatible with each other.
- (e) **Bids are invited as per the Single Stage – Two Envelope Procedure** – via e-Pak Acquisition & Disposal System (EPADS) in accordance with sub-rule 2 of rule 46 of the Sindh Public Procurement Rules, 2010.

ii. Financial Bids / Proposal Evaluation:

- a. Financial Bids/Proposals of only technically qualified bidders meeting the eligibility criteria shall be opened and considered for further evaluation.
- b. Financial Bids / Proposals of Technically disqualified / rejected / non-responsive bids shall not be opened.
- c. The Financial bids shall be opened in the presence of the Bidders at the scheduled date, time and venue communicated in advance.
- d. Bids not accompanied by the Bid Security of the required amount and form shall be rejected.
- e. Procuring Agency shall not be responsible for any erroneous calculation of taxes and all differences arising out shall be fully borne by the Successful Bidder.
- f. The bidder whose offered rate is found lowest amongst other technically qualified bidders shall be considered for acceptance of the offer provided that it fulfils the prescribed terms and conditions of the tender.
- g. The price shall be converted into Pakistani Rupees to compare bids quoted in different currencies. The rate of exchange shall be the selling rate prevailing seven working days before the date of opening of the bids, as notified by the National Bank of Pakistan (NBP) / State Bank of Pakistan (SBP).

Contract Award	
ITB 29.1	Procuring Agency reserves the right to drop any item and increase or decrease the quantity of goods originally specified in Schedule of Requirements / Technical Specifications without any change in unit price and other terms & conditions.
ITM 32.1	Successful Bidder and the Procuring Agency will sign the Contract Agreement on the stamp paper with stamp duties as per the article 22-A (Contract) of the schedule of Stamp Act 1899. The expenditure involved on the said contract agreement will be borne by the bidder.

Part Two - Section III

Special Conditions of Contract

Special Conditions of Contract

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

1. Definitions (GCC Clause 1)

GCC 1.1 (g)—The Procuring agency is: Dow University of Health Sciences, Karachi.

GCC 1.1 (h)—The Procuring agency's country is: Islamic Republic of Pakistan

GCC 1.1 (i)—The Supplier is: _____
[Name and Address of the Bidder]

2. Country of Origin (GCC Clause 3)

All countries and territories as indicated in Part Two Section VI of the bidding documents, "Eligibility for the Provisions of Goods, Works, and Services in Government-Financed Procurement".

3. Technical Specifications (GCC Clause 4)

The technical specifications of the goods provided in these bidding document are only for widest possible competition and not for favor any single contractor or supplier nor put others at a disadvantage. However, the brand name, catalogue No. / Name etc., if any, has only been used for the reference purpose. Equipment offered **"ATLEAST EQUIVALENT OR HAVING BETTER TECHNICAL SPECIFICATIONS"** shall also be considered.

4. Performance Security (GCC Clause 7)

GCC 7.1—The amount of performance security, as a percentage of the Contract Price, shall be Five (5%) percent of the Contract Price in favor of Dow University of Health Sciences, Karachi.

5. Packing (GCC Clause 9)

GCC 9.2—The following SCC shall supplement GCC Clause 9.2:

The packing, marking and documentation within and outside the packages shall be as per manufacturer standards meeting the safety requirements of the goods.

6. Delivery and Documents (GCC Clause 10)

GCC 10.2—***For Goods supplied from within the Procuring Agency's country:***

The Bidder shall provide the following documents at the time of delivery of goods to the Store / Warehouse of the Dow University of Health Sciences, Karachi for verification duly completed in all respects:

- i. Original copies of Delivery Note (Delivery Challan) (in duplicate) showing item's description, make, model, quantity as well as Lot Number, Batch Number, Registration Number, manufacturing and expiry dates (if applicable).
- ii. Original copies of the Bidder's invoices (in duplicate) showing warranty, item's description, make, model as well as Lot Number, Batch Number, Registration Number, manufacturing and expiry dates (if applicable) per unit cost, and total amount.
- iii. Original copies of the Sales Tax Invoices (where applicable) in duplicate showing item's description, quantity, per unit cost without Sales Tax, amount of Sales Tax and total amount with Sales Tax.
- iv. Manufacturer's or Bidder's warranty certificate.

- v. Inspection certificate issued by the nominated inspection committee / Bidder's factory inspection report.
- vi. Certificate of origin.
- vii. Operator manual, technical and service manual, software, spare parts catalogue and price list must be provided with the equipment.

GCC 10.2—For Goods supplied from abroad as per INCOTERM CFR / CNF/ C&F / CPT Karachi: Upon shipment, the Supplier shall notify the Procuring agency the full details of the shipment, including Contract number, description of Goods, quantity and usual transport document. The Supplier shall mail / submit the following documents to the Procuring agency at least one week prior to arrival of the Goods at the port or place of arrival and, if not received, the Bidder will be responsible for any consequent expenses.:

- (i) copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;
- (ii) original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;
- (iii) copies of the packing list identifying contents of each package;
- (iv) insurance certificate;
- (v) Manufacturer's or Supplier's warranty certificate;
- (vi) inspection certificate, issued by the nominated inspection agency, and the Supplier's factory inspection report; and
- (vii) certificate of origin.

7. Insurance (GCC Clause 11)

GCC 11.1— For Goods supplied from within the Procuring Agency's country: The Goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers responsibility. Since the Insurance is seller's responsibility they may arrange appropriate coverage.

GCC 11.1— For Goods supplied from abroad as per INCOTERM CFR / CNF/ C&F / CPT Karachi: The Goods supplied under the Contract shall be **INCOTERM CFR / CNF/ C&F / CPT Karachi** under which risk is transferred to the buyer after the goods reached at Karachi port, hence insurance coverage / marine cover note is sellers responsibility. Since the Insurance / marine cover is seller's responsibility they may arrange appropriate coverage.

8. Spare Parts (GCC Clause 14)

GCC 14.1—Supplier shall carry sufficient inventories to assure ex-stock supply of consumable, spares parts (including X-ray tube, detector, Probes, Lamps, Lens, coils, battery etc.) for the Goods. Other spare parts and components if not in stock shall be supplied as promptly as possible, but in any case, within 4 weeks of placing the order on DDP basis and in case of import of part within 6 weeks after opening the letter of credit. All spares during warranty period must be supplied from stock, and if part is not in stock and requires import, that a loner equipment must be provided. Spare parts/accessories/consumables must be supplied for at least 10 years after successful installation, and if the product is discounted before 10 years, upgrade latest equipment must be provided at 50% of the market value.

9. Warranty (GCC Clause 15)

GCC 15.2—In partial modification of the provisions, the warranty period shall be twelve (12) months or as per the extended warranty period from the date of acceptance of the Goods with 95% uptime during warranty and contract period covering service and spare parts (including X-ray tube, detector, Probes, Lamps, Lens, battery, Coils etc.) .The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. During warranty/contract period, preventative maintenance, Installation qualification, operational qualification, QA/QC must be done as per manufactures checklist and guideline by trained personal. Response time during warranty and contract period would be 4 hours of less, and resolution time should not increase 7 days for any instance. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either:

- (a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with GCC 8;

or

- (b) pay liquidated damages to the Procuring agency with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be 0.5% per week or part thereof the total amount of contract;

or

- (c) Increase the warranty/ contract period, free of cost by 5 times.

GCC 15.4 & 15.5—The period for correction of defects in the warranty period is 7 days or earlier.

GCC 15.9— **The bidder shall separately quote the price of service contract inclusive of parts and without parts for the period defined in the bid data sheet at clause ITB 14.3(b) in term of %age for quote equipment value.**

10. Payment (GCC Clause 16)

GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

i. For Goods supplied from within the Procuring Agency's country:

- (a) Payment shall be made in Pak Rupees.
- (b) 100% of the Contract Price on complete delivery of store within thirty (30) days on submission of claim supported by acceptance certificate from procuring agency declaring Goods have been delivered and that all contracted services have been performed.
- (c) Part payment on part supply may be allowed

OR

ii. For Goods supplied from outside the Procuring Agency's country:

- (a) Payment shall be made in Foreign Currency.
- (b) The Procuring Agency shall pay the Bidder or its Principal through irrevocable letter of credit opened in favor of the Bidder or its Principal in a bank in its country, upon submission of all the requisite documents.
- (c) Bidder will bear the insurance charges and all the additional bank charges inside and outside the Procuring Agency country on account of confirmation of L/C, if he desires to establish a confirmed L/C etc.

11. Prices (GCC Clause 17)

GCC 17.1—No prices adjustment shall be allowed.

12. Liquidated Damages (GCC Clause 23)

GCC 23.1—In case deliveries are not completed within the time frame specified in

the schedule of requirements / contract award, a Show Cause Notice will be served on the Bidder which will be following by cancellation of the Contract to the extent of non-delivered portion of installments. No supplies will be accepted and the amount of Performance Guarantee / Security to the extent of non-delivered portion of supplies of relevant installments will be forfeited. If the firm fails to supply the whole installments, maintenance the entire amount of Performance Guarantee/Security will be forfeited and the firm will be blacklisted at least for two years for future participation in bids:

The liquidated damage shall be 0.5 % per week or part thereof. The maximum amount of liquidated damages shall be 10% of the amount of contract. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, the Procuring Agency shall rescind the contract, without prejudice to other courses of action and remedies open to it.

13. Resolution of Disputes (GCC Clause 28)

GCC 28.1—The dispute resolution mechanism to be applied pursuant to GCC Clause

28.2 shall be as follows:

In the case of a dispute between the Procuring agency and the Supplier, the dispute shall be referred to the dispute resolution mechanism as defined in rule 31, 32 and 34 of the SPP Rules, 2010 (Amended upto date).

14. Governing Language (GCC Clause 29)

GCC 29.1—The Governing Language shall be ENGLISH

15. Applicable Law (GCC Clause 30)

GCC 30.1-The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan which includes the following legislation:

15.1 The Employment of Children (ECA) Act 1991

**The Bonded Labour System (Abolition) Act of
1992 The Factories Act 1934**

16. Notices (GCC Clause 31)

GCC 31.1—**Procuring agency's address for notice purposes:**

Director Procurement
Dow University of Health Sciences (Ojha Campus)
Procurement Directorate at Library Block,
SUPARCO Road, off Main University Road,
Gulzar-e-Hijri, Scheme No. 33, Karachi.
Phone No. + 92-21-99261497
Email: director.procurement@duhs.edu.pk

Supplier's address for notice purposes:

Name of Bidder: _____

Name of Contact Person & Designation: _____

Phone No. _____

Fax No. _____

Mobile Phone No. _____

Email Address _____

Part Two - Section IV Schedule of Requirements

Schedule of Requirements

S#	Description of Goods	Required Delivery Schedule	Location
01.	As per the details of items attached in Section V – Technical Specifications	Delivery & Installation within 12 weeks or earlier from the date of Contact Award/ Establishment of Letter of Credit	Ojha Campus of Dow University of Health Sciences, Karachi.

Part Two - Section V Technical Specifications

Technical Specifications

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
Dow Institute for Advance Biological & Animal Research (D.I.A.B.A.R)		
01	<p>Upright Fluorescence Microscope</p> <p>Universal Infinity Optical System or better Vertical stage movement: Vertical stage movement: 25 mm stage stroke with coarse adjustment limit stopper, torque adjustment for coarse adjustment knobs, stage mounting position variable, high sensitivity fine focusing knob (minimum adjustment gradations: 1µm) Built-in Koehler illumination for transmitted light, light intensity manager switch high color reproductivity 2 W LED light source or better Ceramic-coated coaxial stage with left or right hand low drive control: with rotating mechanism and torque adjustment mechanism Swing out Achromatic Condenser (NA 0.9) Trinocular Tube F.N 22 10X Eyepiece F.N 22 Light Intensity Management Function Coded 7 Position Revolving Nosepiece with DIC slider Objectives: 4X objective 4X/0.13, WD 17 or better 10X objective 10X/0.3, WD 10 or better 20X objective 20X/0.5, WD 2.1 or better 40X objective 40X/0.75, WD 0.51 or better 100XO objective 100X/1.3, WD 0.2 (spring, oil) or better Universal reflected light illuminator 8-position mirror unit cassette Lamp house for 100W mercury burner with collector lens and connecting cable (Equivalent and better than to 100W Halogen Lamp) with power supply unit for Mercury lamp Mirror Unit for fluorescence microscopy, wide band Blue excitation Mirror Unit for fluorescence microscopy, wide band Green excitation Mirror Unit for fluorescence microscopy, wide band UV excitation</p> <p><u>Digital Camera for Fluorescence Microscope</u></p> <p>Type: 6.4-megapixel color camera Imaging Sensor Size: 1/1.8-inch color CMOS Pixels Size: 2.4 µm × 2.4 µm Dynamic Range: 10 bit Sensitivity Gain: 1-24 Exposure time: Manual exposure: 13 µs–15 s, Auto exposure: 13 µs–15 s Camera I/F: USB 3.1 Type-C®*1 (cable length: 2.9 m (9.5 ft)) Scanning method: Progressive scanning Recording area: 7.08(H) × 5.31(V) mm, diagonal length 8.8 mm Maximum recorded pixels: 2.76 megapixels (1920 × 1440) Mount: C-mount, Sensitivity: Equivalent to ISO200/400/800 Metering Area: Full image / 30% / 1% Exposure control: Auto/Manual Dimension: Camera head (W × D × H): 76.7 mm × 70.1 mm × 37.3 mm (3 in. × 2.8 in. × 1.5 in.) Control unit (W × D × H): 180 mm × 180 mm × 53 mm (7 in. × 7 in. × 2 in.) Controller interface: Display output: 2 x HDMI, Peripheral I/F: 4 x USB3.1 Gen1, Wired LAN: 2 x LAN (1000BASE-T/100BASE-TX/10BASE-T), Serial port: RS-232C Audio: Mic. input (monaural), phone jack</p>	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	Zooming magnification: 10% to 1600% Measuring function: Measurement function count, distance between 2 points, polyline, 3-point circle, rectangle, 3-point angle, 4-point angle, perpendicular, area and perimeter of polygon, distance between 2 centers, ruler Live image display (frame rate): 45 fps at 3088 × 2076 (full resolution) 58 fps at 2072 × 2072 (square) 59 fps at 1544 × 1038 (sub-sampling 2 × 2—high speed) 59 fps at 1544 × 1038 (binning 2 × 2) 60 fps at 1920 × 1080 (full HD) Operating Software: Yes Camera Adopter Compatible Computer with 19" LED	
02	Pharmaceutical Refrigerator Unit should have Ergonomic design & Forced – Air Circulation Volume or capacity should be more than 930L Temperature range should be 2 ~ 8°C (Ambient 10°C ~ 32°C) Microprocessor Controlled Audible & Visual alarm should be present Cabinet type: Upright Auto defrost 10 or more adjustable shelves USB interface option should be present Clear & large LED display Unit should have double glass door Interior Dimensions should be 1000(W) x 590(D) x 1550(H) mm approx Certifications: USA-FDA approved or CE Marked or JIS Warranty: Comprehensive 2 years	01 No
03	Freezers -40 to -86, 5-6 compartments, with temperature sensor alarm, installed in at least three reputed pharmaceutical and/or research organizations. Provided with temperature data logger and GSM/Wifi based warning/ alarm system Equipment should have USA FDA / CE / JIS.	03 Nos
Hematology – Dr. Ishrat ul Ibad Khan Institute of Blood Diseases (D.I.E.K.I.B.D)		
04	Dual Head Binocular Microscope Universal Infinity Corrected (UIS2) Optical System Built-in Koehler illumination (Fixed Field Diaphragm) Stage height movement stroke: 15mm 2.4W LED Light Source, AC adapter Quintuple nosepiece with inward tilt Trinocular tube FN 20, Tube Inclination 30 Degree, Interpupillary Distance Adjusting Range 48-75mm Wide field eyepiece 10X, FN20 Wide field eyepiece 10X, FN20 focusable Right-handle low position stage, specimen holder, including rubber stage grip Coarse adjustment nobe 36.8mm, focusing stopper and fine focusing knobs adjustment gradation 2.5um. Coarse and fine focusing knobs both sides Universal Condenser NA 1.25 with 7 turret positions: BF, 2X, DF, PH1, PH2, PH3, FL Condenser Turret Lock-pin, AS Lock pin, Built-in Aperture iris diaphragm	04 Nos

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	Plan achromat objective 4X/0.1, WD 18.5 Plan achromat objective 10X/0.25, WD 10.6 Plan achromat objective 20X/0.4, WD 1.2 Plan achromat objective 40X/0.65, WD 0.6 (spring) Plan achromat objective 100XO/1.25, WD 0.6 Dual Observation Attachment Face to Face with Arrow Pointer of Two Colors Red/Green with extra Binocular Tube F.N 20 6 MP Digital Camera For Microscope: HDMI C-mount camera 6MP Still resolution 3264x1836 2MP Live video 1920x1080 60 fps (frames per second) via HDMI 2MP Live video 1920x1080 30 fps (frames per second) via USB2.0 Video record: 1080p 30fps (frames per second) on SD card or PC Output: HDMI, USB 2.0, SD Card, 1/3" CMOS chip (use .3x C-mount adapter) Button (1) controls: Exposure, White balance, Gamma, Gain, Sharpness, Saturation, Contrast, Button (2) controls: Cross line, Image Compare, Image Freeze OS support: Windows XP and later Software: IS Capture full parameter control C-mount Adaptor Compatible computer with 40" LED TCL/Haier or equivalent	
Blood Bank – Dr. Ishrat ul Ibad Khan Institute of Blood Diseases (D.I.E.K.I.B.D)		
05	Ultra-Low Temperature Freezer -86 Type -86°C ULT Freezer Cabinet Type Upright Climate Class N Cooling Type Direct cooling Defrost Mode Manual Refrigerant HFC Noise Level (dB) 49 Cooling performance(°C) -86 Temperature Range(°C) -40~-86 Controller Microprocessor Display LED Power Supply(V/Hz) 220-240/50 Power(W) 1200 Electrical Current(A) 7 Capacity(L/Cu.Ft) 628-800 Net/Gross Weight(approx) 301-350 (kg) Interior Dimensions(W*D*H) 660 (lbs) or more Exterior Dimensions(W*D*H) 760*630*1310(mm) High/Low Temperature 40.7*35.4*78.0(in) Remote Alarm 1080*965*2150(mm) Hot Condenser 42.5*38.0*84.6(in) High/Low Voltage Y Sensor Error Y Low Battery Y High Ambient Temp Y Door Ajar Optional Caster Y Foot Y Test Hole Y Shelves/Inner Doors Y Temperature Recorder Optional USB Interface Optional	02 Nos

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	Rs232/485 Interface Optional CO2 Backup System Optional LN2 Backup System Optional Racks & Boxes Optional Certificate CE, UL	
Dow Research Institute of Biotechnology and Biomedical Sciences (D.R.I.B.B.S)		
06	Ultra-Low Temperature Freezer -86 Type -86°C ULT Freezer Cabinet Type Upright Climate Class N Cooling Type Direct cooling Defrost Mode Manual Refrigerant HFC Noise Level (dB) 49 Cooling performance(°C) -86 Temperature Range(°C) -40~-86 Controller Microprocessor Display LED Power Supply(V/Hz) 220-240/50 Power(W) 1200 Electrical Current(A) 7 Capacity(L/Cu.Ft) 628-800 Net/Gross Weight(approx) 301-350 (kg) Interior Dimensions(W*D*H) 660 (lbs) or more Exterior Dimensions(W*D*H) 760*630*1310(mm) High/Low Temperature 40.7*35.4*78.0(in) Remote Alarm 1080*965*2150(mm) Hot Condenser 42.5*38.0*84.6(in) High/Low Voltage Y Sensor Error Y Low Battery Y High Ambient Temp Y Door Ajar Optional Caster Y Foot Y Test Hole Y Shelves/Inner Doors Y Temperature Recorder Optional USB Interface Optional Rs232/485 Interface Optional CO2 Backup System Optional LN2 Backup System Optional Racks & Boxes Optional Certificate CE, UL	01 No
07	CO₂ Incubator Specification Description Type CO ₂ Incubator Capacity 150–170 liters Temperature Range Ambient +5°C to 50°C Temperature Uniformity ±0.3°C CO ₂ Range 0. % to 20% CO ₂ Accuracy ±0.1% CO ₂ Sensor Type Infrared (IR) or thermal conductivity (user preference) Humidity Range Up to 95% RH (non-condensing) Interior Material Stainless steel (corrosion-resistant)	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	Shelves Adjustable perforated stainless steel shelves Number of Shelves Minimum 3 (expandable) Door Inner glass door with outer solid door Decontamination System Automatic high-temperature or UV sterilization cycle Alarms Temperature, CO ₂ , and humidity alarms (visual and audible) Control System Digital microprocessor with LCD/LED touchscreen display Data Logging Built-in or external USB/Ethernet for data logging Compliance Standards CE, ISO 13485, ISO 9001, or relevant standards Power Requirements 110/220V, 50/60 Hz Accessories Humidity tray, optional O ₂ control, stacking adapter Warranty Minimum 1 year	
Dow International Dental College		
08	Nanodrop Spectrophotometer System Performance (Microvolume mode) Sample Volume $\geq 1 \mu\text{L}$ Detection Range dsDNA 2 – 20,000 ng/ μL Detection Range BSA 0.06 – 600 mg/ml Path Length 0.5 mm and 0.05 mm Measurement Time < 3 sec Display 7" glove compatible colour LCD touchscreen Optical Specifications Light Source Pulsed Xenon flash lamp Detector 2,048 CMOS Wavelength Range 190 – 1,000 nm Wavelength Accuracy 1 nm Bandwidth 1.3 nm Absorbance Accuracy 3.0% (at 0.75 A at 300 nm) Absorbance Range (10 mm equivalent) 0.04 – 400 A Spectral Resolution 1.5 nm (FWHM at Hg 253.7 nm) Detection Area Material Of Construction Stainless steel & quartz window with hydrophobic coating General Specifications Dimensions (W x D x H) 206 x 333 x 166 mm Weight 3.5 kg (7.8 lb) Power Input: AC 100 – 240 V, 50/60 Hz Output: DC 24 V, 2.08 A Certifications CE, RoHS Cuvette specifications Cuvette type glass or plastic cuvettes Measurement range 0.002 ~ 1.5 A Dimensions Width: 12.5 mm Length: 12.5 mm Height: 45 mm Beam height: 8.5 mm Functions Heater (37 ~ 45 °C) Stirring (1 ~ 8 speed corresponding to 150 ~ 850 rpm) Detection range dsDNA: 0.3 - 75 ng/ μL ; BSA: 0.003 - 2.25 mg/mL Software & Connectivity USB Type A front port	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
09	<p>High Speed Refrigerated Centrifuge Machine Maintenance-free induction drive Microprocessor with large LCD display Motor driven lid lock Automatic radio-frequency rotor identification system (RFID) with over speed protection, immediately upon rotor insertion Active imbalance identification and cut-off (rotor specific) CFC-free refrigeration system A large variety of rotors and accessories Audible signal at the end of each run with several melody options Noise level under 63 dBA at max. Speed Manufactured according to international safety regulations, i.e. IEC 61010 Rotor exchange is easy to handle Stainless steel chamber</p> <p>Distinct Control Panel Simple one handed Touch-Operation Easy to program with gloves on Splash proof digital display Permanent indication of Preset and Actual Values Selection of speed in both rpm and g-force, with increments of 10 10 acceleration and 10 deceleration rates, Possibility of un-braked deceleration Pre-selection of the temperature from - 20°C to 40°C with 1°C increments Indication of the sample temperature Pre-cooling program Standstill cooling Pre-selection of running time from 10 s to 99 h 59 min or continuous Storage of up to 99 runs incl. rotor type Quick-key for short runs Diagnostic program Max. speed: 18,000 rpm Max. RCF: 23,542xg Max. volume: 4 x 200ml Speed range: 200 – 18,000 rpm Temperature range: -20°C bis 40°C Running time: 59min 50s / 10s increments 99h 59min / 1min increments 01-No. Angle Rotor capacity 18 x 1.5/2ml Speed 18,000rpm</p>	01 No
Molecular Pathology – D.D.R.R.L		
10	<p>Up Right Fluorescent Microscope Optical system CFI60 Infinity Optical System Illumination High luminescent White LED Illuminator Light Intensity Management (LIM) feature, ECO mode*1, Sleep mode*2 Controls Image capture button Eyepieces (F.O.V. mm) Sleeve diameter Φ30mm</p> <p>CFI 10X (22) CFI 12.5X (16) CFI 15X (14.5) CFI UW 10X (25)</p>	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS		Required Quantity
	Focus	Coaxial Coarse/Fine focusing, Focusing stroke: 30 mm, Coarse: 9.33 mm/rotation Fine: 0.1 mm/rotation, Fine movement scale 1µm, Coarse motion torque adjustable, Refocusing function	
	Tubes F.O.V. 22 mm	C-TB Binocular Tube C-TE2 Ergonomic Binocular Tube (Eyepiece: Port = 100:0, 50:50) via optional C-TEP2 DSC Port, C-TEP3 DSC Port C-0.55X Inclination angle: 10-30 degree, Extension: up to 40 mm	
	Tubes F.O.V. 25 mm	C-TF Trinocular Tube F (Eyepiece: Port = 100:0, 0:100) C-TT Trinocular Tube T (Eyepiece: Port = 100:0, 20:80, 0:100)	
	Nosepieces	Exclusive Intelligent sextuple nosepiece (with Analyzer slot)	
	Stages	Cross travel 78 (X) × 54 (Y) mm, with vernier calibrations, stage handle height and torque adjustable for all stages C-SR2S Right Handle Stage with 2S Holder C-CSR Right Handle Ceramic-coated Stage C-CSR1S Right Handle Ceramic-coated Stage with 1S Holder C-H2L Specimen Holder 2L (Option) C-H1L Specimen Holder 1L (Option)	
	Condenser Manual	Focusing stroke: 27mm C-AB Abbe Condenser C-AR Achromat Condenser C-DO Darkfield Condenser Oil C-DD Darkfield Condenser Dry C-PH Phase Contrast Turret Condenser C-AA Achromat/ Aplanat C-SA Slide Achromat Condenser 2-100X C-SW Swing-out Achromat Condenser 1-100X C-SWA Swing-out Achromat Condenser 2-100X C-LAR LWD Achromat Condenser	
	Observation methods*3	Brightfield, Epi-fluorescence, Darkfield, Phase contrast, Simple polarizing, Sensitive color polarizing	
	Epi-fluorescence attachment	CI-FL-2 Epi-fluorescence Attachment (4 filter cubes mountable) D-FL-2 U-EPI Epi-fluorescence Attachment (4 filter cubes mountable, Terminator mechanism)	
	Epi-illumination light source	CI-FL-2 Epi-fluorescence Attachment (4 filter cubes mountable) D-FL-2 U-EPI Epi-fluorescence Attachment (6 filter cubes mountable, Terminator mechanism)	
	Power consumption	5.0W (Brightfield configuration)	
	Weight (approx.)	13.3 kg (Binocular standard set)	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
11	<p>Refrigerated Centrifuge</p> <p>Accel/Decel Profiles yes (9 accel/10 decel)</p> <p>Dimensions (HWD) Inches 14.2 x24.6x26 , Centimeters: 36.2x62.5x66</p> <p>Drive System Direct, Brushless induction low profile motor</p> <p>Program Storage Up to 6 programs</p> <p>Capacity 4 x 400 mL</p> <p>Product Line General purpose centrifuge</p> <p>Max. RCF 25830 xg with Microliter 30 x 2 rotor</p> <p>Rotor speed Max. Speed 15200 rpm with Microliter 30 x 2 rotor</p> <p>Refrigerated yes</p> <p>Voltage 208/230 V</p> <p>Display LED type</p> <p>Memory Stores up to 6 programs</p> <p>Centrifuge Details Control System Microprocessor</p> <p>Drive System Direct, Brushless induction low profile</p> <p>Accel/Decel Profiles Choices of 9 Accel / 10 Decel R</p> <p>Material front, top, sides: PC-ABS plastic painted with</p> <p>PUR-based lacquer; metal housing: cold rolled steel</p> <p>powder paint; centrifuge bowl: stainless steel; centri</p> <p>feet: rubber</p> <p>Safety Features SMARTSpin Imbalance detection, f</p> <p>pinch prevention, crash-proof construction</p> <p>corrosion resistance oil, power cord, declaration of</p> <p>conformity</p> <p>Motor Type Direct brushless low profile motor</p> <p>Safety Features smart spin Imbalance detection, fin</p> <p>pinch prevention, crash-proof construction</p> <p>Includes Rotor needs to be purchased separately</p> <p>Controller Type Microprocessor</p> <p>Model General Use Only</p> <p>Quantity each</p> <p>Profile (Acceleration/Braking) 9 accel/ 10 decel rate</p> <p>Programmability Via push button and high contrast l</p> <p>interface</p> <p>Unit Size Each</p> <p>Swinging Bucket Rotor Biocontainment Yes</p> <p>Type Swinging Bucket Rotor : Capacity 4 x 400mL</p> <p>Max. RCF 4,696 x g : Max. Speed 5,000rpm</p> <p>Radius (Metric) 168mm : Max. Tube Length 135mm</p> <p>Max. Tube Diameter 80mm</p> <p>1) Round Buckets for TX-400 Rotor (Set of 4)</p> <p>Biocontainment Yes</p> <p>Type Swinging Bucket Rotor</p> <p>Capacity 4 x 400 mL</p> <p>2) ClickSeal Biocontainment Lids, (Set of 4)</p> <p>Biocontainment Yes</p> <p>Type Bucket Lid</p> <p>Rotor Capacity 15 mL Conical Tube (Set of 04)</p> <p>Rotor Capacity : 36 x 15 mL :</p> <p>Max. Tube Dimensions (Ø x L) : 17 x 121 mm</p> <p>50mL Conical</p> <p>Max. Tube Diameter 29.5mm : Max. Tube Length 1</p> <p>Capacity 50 mL : Tube Type 50 mL Conical Tube</p> <p>No. per Pack 4 : Type Rotor Adapter</p> <p>Unit Size Pack of 4</p>	01 Nos

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
12	Ultra Low Temperature (-86°C) Freezers <div> <div>Type</div> <div>-86°C ULT Freezer</div> </div> <div> <div>Cabinet Type</div> <div>Upright</div> </div> <div> <div>Climate Class</div> <div>N</div> </div> <div> <div>Cooling Type</div> <div>Direct cooling</div> </div> <div> <div>Defrost Mode</div> <div>Manual</div> </div> <div> <div>Refrigerant</div> <div>HFC</div> </div> <div> <div>Noise Level (dB)</div> <div>49</div> </div> <div> <div>Cooling performance(°C)</div> <div>-86</div> </div> <div> <div>Temperature Range(°C)</div> <div>-40~-86</div> </div> <div> <div>Controller</div> <div>Microprocessor</div> </div> <div> <div>Display</div> <div>LED</div> </div> <div> <div>Power Supply(V/Hz)</div> <div>220-240/50</div> </div> <div> <div>Power(W)</div> <div>1200</div> </div> <div> <div>Electrical Current(A)</div> <div>7</div> </div> <div> <div>Capacity(L/Cu.Ft)</div> <div>628-800</div> </div> <div> <div>Net/Gross Weight(approx)</div> <div>301-350 (kg)</div> </div> <div> <div>Interior Dimensions(W*D*H)</div> <div>660 (lbs) or more</div> </div> <div> <div>Exterior Dimensions(W*D*H)</div> <div>760*630*1310(mm)</div> </div> <div> <div>High/Low Temperature</div> <div>40.7*35.4*78.0(in)</div> </div> <div> <div>Remote Alarm</div> <div>1080*965*2150(mm)</div> </div> <div> <div>Hot Condenser</div> <div>42.5*38.0*84.6(in)</div> </div> <div> <div>High/Low Voltage</div> <div>Y</div> </div> <div> <div>Sensor Error</div> <div>Y</div> </div> <div> <div>Low Battery</div> <div>Y</div> </div> <div> <div>High Ambient Temp</div> <div>Y</div> </div> <div> <div>Door Ajar</div> <div>Optional</div> </div> <div> <div>Caster</div> <div>Y</div> </div> <div> <div>Foot</div> <div>Y</div> </div> <div> <div>Test Hole</div> <div>Y</div> </div> <div> <div>Shelves/Inner Doors</div> <div>Y</div> </div> <div> <div>Temperature Recorder</div> <div>Optional</div> </div> <div> <div>USB Interface</div> <div>Optional</div> </div> <div> <div>Rs232/485 Interface</div> <div>Optional</div> </div> <div> <div>CO2 Backup System</div> <div>Optional</div> </div> <div> <div>LN2 Backup System</div> <div>Optional</div> </div> <div> <div>Racks & Boxes</div> <div>Optional</div> </div> <div> <div>Certificate</div> <div>CE, UL</div> </div>	03 Nos
13	Inverted Laser Scanning Confocal Microscope <u>Inverted Microscope</u> <ul style="list-style-type: none"> Motorized inverted microscope with two tier optical path At least 6 position motorized revolving nosepiece At least 8 position motorized filter turret with built in shutter for epifluorescence visualization LED transmitted light source <u>Objective Lens</u> <ul style="list-style-type: none"> Must be Apochromat grade objectives or better, ranging from 1.25x to 60x. Should be enabled for DIC observation for all objectives from 10x– 60x Objectives should be corrected from 400 – 1000nm for future expansion Plan Apochromat Objective 1.25X with minimal NA of 0.04, WD should be at least 	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p>5.0 mm for Macro Imaging</p> <ul style="list-style-type: none"> Plan Achromat Objective 10X with minimal NA of 0.4, WD should be at least 3.1mm Plan Achromat Objective 20X with minimal NA of 0.8, WD should be at least 0.6mm Plan Achromat Objective 40X with minimal NA of 0.95, WD should be at least 0.18mm Plan Achromat Objective 60X with minimal NA of 1.42, WD should be at least 0.15mm (spring, oil) <p><u>Epi-Fluorescence Module for visualization</u></p> <ul style="list-style-type: none"> LED light source should be used with long life-time (>20,000 hours) High quality filter set for DAPI High quality filter set for GFP High quality filter set for RFP <p><u>Laser Scanning Confocal Microscope Module</u></p> <p>Scanning Unit:</p> <p>Scanning unit with Galvanometer scanners.</p> <p>Scanning Resolution should be up to 4048 x 4048 pixels with adjustable pixel dwelling time from 1us – 1000us</p> <p>Highly accurate real time acquisition control with microsecond order precision</p> <p>Optical zoom up to at least 0.9x - 50x in 0.01X increments</p> <p>Free Rotation 360° in steps of 0.1degree</p> <p>Reflective mirror (Dichroic mirror) supports mirror up to 8 positions and can be customized</p> <p>Confocal pinhole can be freely resized</p> <p>Macro to Micro imaging with confocal light path optimized from low to high magnification</p> <p><u>Confocal Detector:</u></p> <p>System should equip with minimum 4 fluorescence detectors, and capable of upgrading up to 6 fluorescence detectors</p> <p>Detector shall be ready for detecting wavelength from 400 – 900nm</p> <p>Detectors shall be all silicon-based detectors running in Photon counting mode to minimize noise generated by detectors.</p> <p>Detectors shall be capable of detecting 1G cps at 16bit with linear respond for quantification.</p> <p>All fluorescent detectors shall be spectral detectors working as freely adjustable barrier filter as well as lambda scan with 1nm step size in adjusting wavelength and 2nm spectral resolution.</p> <p>Complete spectral detection in every fluorescence channel</p> <p>Spectral Multi Channel Lambda scanning is possible.</p> <p>One Channel Transmitted light detector with LED illuminator for Confocal DIC Imaging.</p> <p><u>Lasers:</u></p> <p>System should provide 4 laser lines, 405nm/488nm/561nm/640nm, for DAPI/FITC/TRICT/CY5 imaging</p> <p>Additional 3 laser lines can be added in future, 445nm/514nm/594nm, for CFP/YFP/mCherry imaging</p> <p>NIR fluorescence imaging can be integrated in future with laser wavelength of 685nm or 730nm or 785nm</p> <p>Maximum system can be accommodated for up to 10 laser lines</p> <p>All lasers should be diode lasers</p> <p>All visible lasers should be controllable via Acousto-optical tunable filter (AOTF), to allow for the modulation of all laser power</p>	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p>System must include automated laser power feedback features to minimize laser power fluctuations in short and long term usage</p> <p><u>Motorized Stage</u> Encoded Motorized Stage for XY scanning for multi-position and mosaic (large FoV) imaging with stage holders for holding a range of samples (slides, multi-well chambered slides, 35 mm and 60mm dishes and multi-well plates including 96 well plate.</p> <p><u>Anti-Vibration Platform</u> Anti-Vibration Table/Plate should be provided with size of 1200 x 900mm</p> <p><u>Software:</u> Acquisition Customize and create layouts of tool windows and the workspace Scanner, detector, and illumination settings for acquisition Simultaneous or sequential multi-channel image acquisition Averaging or accumulation scan Time-lapse image acquisition by defining the interval and repeat number Z-stack image acquisition by changing the microscope's Z position Single view/tile view/three sides/projection display LUT adjustment/auto contrast Photon number display 3D/4D rendering by MIP/alpha blend/iso surface Microscope control to change objectives and light path One-shot/continuous Z-drift compensation during time-lapse imaging Parfocal and parcentral correction Multiposition imaging for multi-area time-lapse/image stitching by controlling the motorized stage Easily set the acquisition settings for multi-well Post-Processing: Stitch images acquired using the multi-area function to create a wide area image Extract, append, merge Rolling average / accumulation Maximum intensity projection Distinguish different fluorochrome images with similar spectra from a lambda stack image. Remove fluorescence cross talk in multichannel images. Live processing is available. Create a ratio image by image modulation display. Live processing is available</p> <p><u>PC</u> Workstation grade computer with Xeon W3-2423 processor or better, 64 GB RAM or higher, 1T SSD with 2TB HDD, Dedicated GPU Quadro T1000 or better, 32" LED Monitor and OS Window 11 Professional 64 bit</p> <p><u>Warranty and Maintenance</u> The warranty period shall commence upon successful completion of installation and commissioning of the complete system. The warranty period must be for a period of 1 year for parts and labour. The Contractor must depute a factory-trained engineer for the testing and commissioning of the system.</p> <p><u>Preventive Maintenance</u> Contractor to offer and provide 3 years of Preventive Maintenance contract after warranty period.</p> <p><u>Training</u> The Contractor must conduct minimum 3 days on-site training immediately after installation of the system. The training shall cover the proper operation and basic maintenance of the equipment</p>	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
14	Biosafety Cabinet Class A2, Type B1 Specification Description Type Biosafety Cabinet Class A2, Type B1 Airflow Type Vertical laminar airflow Exhaust Type Canopy or thimble exhaust Airflow Velocity 100 feet per minute (fpm) at work opening HEPA Filter Efficiency 99.99% efficient at 0.3 microns Motor Blower External or remote-mounted Face Velocity 100 - 120 linear feet per minute (fpm) Work Surface Material Stainless steel Work Surface Dimensions Typically 2 feet deep and 4 feet wide Accessories UV light for decontamination, gas and vacuum connections Noise Level Less than 65 dB(A) Material Stainless steel or powder-coated steel Compliance Standards NSF/ANSI 49, UL 61010-1, EN 12469, CE compliant Power Requirements 110/220V, 50/60 Hz	02 Nos
15	CO₂ Incubator Specification Description Type CO ₂ Incubator Capacity 150–170 liters (varies depending on your requirements) Temperature Range Ambient +5°C to 50°C Temperature Uniformity ±0.3°C CO ₂ Range 0.1% to 20% CO ₂ Accuracy ±0.1% CO ₂ Sensor Type Infrared (IR) or thermal conductivity (user preference) Humidity Range Up to 95% RH (non-condensing) Interior Material Stainless steel (corrosion-resistant) Shelves Adjustable perforated stainless steel shelves Number of Shelves Minimum 3 (expandable) Door Inner glass door with outer solid door Decontamination System Automatic high-temperature or UV sterilization cycle Alarms Temperature, CO ₂ , and humidity alarms (visual and audible) Control System Digital microprocessor with LCD/LED touchscreen display Data Logging Built-in or external USB/Ethernet for data logging Compliance Standards CE, ISO 13485, ISO 9001, or relevant standards Power Requirements 110/220V, 50/60 Hz Accessories Humidity tray, optional O ₂ control, stacking adapter Warranty Minimum 1 year	02 Nos
16	CytoVision Software Specification Description Software Name CytoVision Cytogenetics Imaging Software Application Karyotyping, FISH analysis, and metaphase analysis for cytogenetics labs Supported Hardware Compatible with automated microscopes and image capture systems Image Capture High-resolution image capture with real-time analysis Image Analysis Automatic chromosome recognition, banding pattern analysis, and annotation Karyotyping Features - Semi-automated and manual karyotyping - Flexible chromosome ideograms	01 No

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS		Required Quantity
	FISH Analysis Metaphase Finder System Compatibility Database Data Export User Interface Customization Reporting Features Quality Assurance Network Compatibility Integration Licensing Training and Support Compliance Standards Warranty	Automated spot counting and intensity measurements Automated scanning and identification of metaphase spreads Windows-based operating system (Windows 10 or later) Centralized database for patient records and analysis data Supports multiple formats (e.g., PDF, Excel, JPEG) Intuitive, user-friendly graphical interface Configurable workflows and report templates - Automatic generation of detailed reports - Integration of karyotype images and analysis data Built-in quality control tools for consistent results Compatible with local area networks (LAN) for multi-user environments Integration with laboratory information systems (LIS) Multi-user licenses with options for additional modules Comprehensive training and on-site/remote technical support ISO 15189, CAP, and other regulatory requirements for clinical laboratories Minimum 1-year software warranty and regular updates	

Dow Institute of Biological, Biochemical & Pharmaceutical Sciences

17	UHPLC General Requirement <ul style="list-style-type: none"> UHPLC Series instrument with quaternary pump, Auto sampler with thermostat, column oven, and diode-array detector & Electrochemical Detector. The UHPLC should be provided with a interface to connect with MSMS detector. The system must be a complete UHPLC system suitable for high-resolution, high-throughput, and high-sensitivity analysis. The system should support pressures of at least 15,000 psi (1000 bar) to allow for UHPLC operation. The system should be capable of handling various types of columns (C18, C8, HILIC, etc.). Modular design preferred for easy maintenance and scalability. Compliance with GLP/GMP and 21 CFR Part 11. 	1	01 No
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Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<div data-bbox="236 208 459 241">IT Requirement</div> <ul data-bbox="563 208 1201 510" style="list-style-type: none"> • Processor: Intel Core i5 or higher (10th generation supporting Window 11 or higher) • RAM: 32 GB or higher • Storage: 1 TB or higher SSD • Ethernet connection for network integration . • Lan connection for internet. • HP Laser Printer Latest Model connected with Internet (centralized)Operating System: Windows 11 or higher • Database: Microsoft SQL Server or Oracle • Data backup and recovery procedures • Network security and access controls <div data-bbox="236 611 515 645">Utility Requirement</div> <ul data-bbox="563 611 1201 779" style="list-style-type: none"> • Power supply: 100-240 VAC, 50-60 Hz • 3 phase with proper earthing • German sockets for electrical connection. • UPS, according to the electricity usage 10 KVA backup 0.5 hour. <div data-bbox="236 779 515 813">Safety Requirement</div> <ul data-bbox="563 779 1201 981" style="list-style-type: none"> • Operator safety: protection from electrical shock, chemical exposure • Instrument safety: protection from overpressure, overheating • Emergency procedures: power failure, system malfunction <div data-bbox="236 981 419 1048">Document Requirement</div> <ul data-bbox="563 981 1201 1149" style="list-style-type: none"> • User manuals and guides, Installation and operation qualification protocols and reports. • Performance qualification protocols and reports plus CRM for PQ (eg. Caffeine Kit or any other if applicable) <div data-bbox="236 1182 427 1216">Staff Training</div> <ul data-bbox="563 1149 1201 1350" style="list-style-type: none"> • Maintenance and repair procedures. • Operator training: instrument operation, maintenance, troubleshooting • Analyst training: method development, data analysis and reporting. • International Training of 2 Personnel. <div data-bbox="236 1350 491 1384">After-Sale Service</div> <ul data-bbox="563 1350 1201 1653" style="list-style-type: none"> • Routine maintenance (e.g., cleaning, calibration) • Troubleshooting and repair of instrument malfunctions • Replacement of worn or damaged parts, maintenance and repair services shall be performed by Vendor (For 3 years). • Response time for maintenance and repair requests shall be within 24 hours. <div data-bbox="236 1653 435 1753">Spare Parts & Accessories Requirements</div> <ul data-bbox="563 1653 1201 1821" style="list-style-type: none"> • Solvent bottles with safety caps. • Vial kit including sample vials, caps, and septa. • Column fittings and tubing kit. • Spare pump seals, pistons and lamps. <p data-bbox="547 1865 1121 1933">Columns: Set of UHPLC columns, (C18, C8, HILIC, Phenyl, etc.)</p> <ul data-bbox="563 1933 1201 2096" style="list-style-type: none"> • Two C18 of size 50mm x 4.6 mm x 2.7u • Two C18 of size 100mm x 4.6 & 2.1mm x 2.7u • Two C18 of 150mm x 4.6 mm x 5u • One C8 Column of 150 length 	<div data-bbox="1233 611 1345 678">UPS for UHPLC</div> <div data-bbox="1233 981 1353 1081">Caffeine Kits for UHPLC</div> <div data-bbox="1233 1653 1361 1753">Total 8column s-</div>

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<div data-bbox="592 208 1198 376"> <ul style="list-style-type: none"> One C8 Column of 250 length Two C18 of 250mm x 4.6 mmx 5u Consumables: Vials 1000 transparent and 500 amber color. (1.5 ml) 2000 septum with 2000 vial caps. </div> <div data-bbox="229 779 319 813"> <p>Pump</p> </div> <div data-bbox="592 544 1198 1182"> <ul style="list-style-type: none"> 1 PM Kits for UHPLC (including Two D2 Lamps, Seals, 2 Plunger seals, 2 backup Seals, 2 sets of router seals, etc 2 Sets of Maintenance Kit. Wearable parts (Seals, O-rings & Ferrules) 2 Extra Set of Mobile Phase Filter (Suction Filter). Quaternary or binary solvent pump with a mixing capability for gradient elution. Parallel –Type Double Plugger. Quaternary low-pressure gradient. Gradient range 0 to 100% (0.1% step) Flow rate range: 0.001–10.000 mL/min with an increment of 0.001 mL/min with +/- 2% accuracy. Flow precision: < 0.06% RSD or 0.02 mini SD Pressure range: Up to 15,000 psi (1000 bar). </div> <div data-bbox="1230 544 1335 611"> <p>For UHPLC</p> </div> <div data-bbox="229 1223 448 1256"> <p>Degassing unit</p> </div> <div data-bbox="544 1223 1098 1290"> <p>1 unit connectable Integrated degasser for degassing of solvents.</p> </div> <div data-bbox="229 1290 488 1323"> <p>Flow line capacity</p> </div> <div data-bbox="544 1290 715 1323"> <p>400 µL/1 line</p> </div> <div data-bbox="229 1335 427 1368"> <p>Auto-Sampler</p> </div> <div data-bbox="592 1335 1198 1883"> <ul style="list-style-type: none"> Injection volume range: 0.1–100 µL with an increment of 0.1 µL. Carryover: a) ≤ 0.0015% Without rinse. b) ≤ 0.0003% (with rinse) Volume accuracy Sample capacity: At least 1000 vials (2 mL) or compatible with 6 deep well plates. Cooling capability for temperature sensitive samples (4°C–40°C). ≤ ± 1% (5 µL injection, n = 20) Linearity ≥ 0.9999 Injection cycle time ≤ 10 seconds No. of samples Above 150 (1.5 ml sample vial) Reproducibility RSD ≤ 1.0% (0.5 to 1.0 µL) </div> <div data-bbox="229 1955 411 2022"> <p>Temperature control type</p> </div> <div data-bbox="699 1917 895 1951"> <p>Column Oven</p> </div> <div data-bbox="592 1955 1161 2089"> <ul style="list-style-type: none"> Forced air circulation Temperature range: Ambient to 90°C or better with ±0.1°C precision. Capacity to accommodate at least two </div>	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p>columns.</p> <ul style="list-style-type: none"> • Single column up to 300 mm in length with guard column. Up to 300 mm L. column x 3. • Column can be configured up to 3 columns for support or better • Fast temperature equilibration. <p style="text-align: center;">Detector</p> <ul style="list-style-type: none"> • Wavelength range :190-800nm • Spectral resolution <1.2 nm. • Wavelength range: 190–800 nm. • Spectral resolution: < 1.2 nm. • Simultaneous multi-wavelength detection. • The detector should be designed with light source from D2 Lamp and Tungsten Lamp. <ul style="list-style-type: none"> • The PDA detector should include Advance TC Optics design to allow 3-way temperature control on lamp in numbers. Flow cell and Spectrometer for maximized baseline stabilization. • UV cut-off filter should be available to prevent photo-degradation on photo sensitive chemicals. • be designed with light source from D2 Lamp and Tungsten Lamp. • The photo-diode array detector should have at least 1024 elements with an element resolution of 0.5 nm/element. • The detector must have 2 modes of operation using a variable slit: High Resolution mode at a slit width of 1nm and a High Sensitivity mode at a slit width of 8nm. • A Standard flow cell [1.0 µL volume, 10 mm cell path length, 8 MPa pressure max.] with temperature control should be available as standard with a high sensitivity flow cell [50 mm cell path length, • Wavelength accuracy should be ±1 nm. • Wavelength reproducibility should be ±0.1nm. • The Drift must be equal or smaller than ≤0.4x10⁻³ AU/H • The Noise level must be equal or smaller than ≤4.5x10⁻⁶ AU • Linearity should be equal or more than 2.5 AU • A Conventional flow cell [12 µL volume, 10 mm cell path length, 12 MPa pressure max.] with temperature control should be available as an option · A UHPLC cell [8 uL volume, 10 mm cell path length] with temperature control should be available as option. 	1

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p data-bbox="231 683 422 750">Fluorescence Detector</p> <ul data-bbox="592 212 1204 985" style="list-style-type: none"> • The detector should be designed with Flow Cell ID Chip to record flow cell ID and Lamp ID Chip to record Lamp ID to ensure data performance • The detector should be designed with Flow Cell ID Chip to record flow cell ID and Lamp ID Chip to record Lamp ID to ensure data performance. • It should have Intelligent Peak Deconvolution Analysis program, i-PDeA as post-run analysis function It should have Intelligent Dynamic Range Extension Calculation program, i-DReC as post-run analysis function • The light source should be a Xenon lamp two in numbers and a low-pressure mercury lamp two in numbers should be available as an option for checking wavelength accuracy • Excitation range: 200–700 nm or better. • Emission range: 210–750 nm or better. • Sensitivity: < 10 fmol/mL for anthracene or better. <p data-bbox="544 1019 1181 1120">The wavelength range should be 200nm to 650nm. An option should be available to achieve the range of 200 to 750 nm</p> <p data-bbox="544 1120 1077 1153">The Spectral bandwidth should be 20nm</p> <p data-bbox="544 1153 1053 1187">Wavelength accuracy should be ± 2nm</p> <p data-bbox="544 1198 1141 1232">Wavelength reproducibility should be ± 0.2nm</p> <p data-bbox="544 1232 1173 1299">The Signal to noise ratio for Water Raman peak should be minimum 1200 or better.</p> <p data-bbox="544 1299 1165 1366">A conventional flow cell [12 μL volume, 2 MPa pressure max.] should be available as standard</p> <p data-bbox="544 1377 1173 1444">A Semi-micro flow cell [3 μL volume, 2 MPa pressure max.] should be available as an option</p> <p data-bbox="544 1456 1204 1523">Cell temperature control from 4° c to 40 ° c in 1 ° c step should be available as an option</p> <p data-bbox="544 1534 1197 1646">The detector must be capable of monitoring any 2 wavelengths between 200 and 650nm simultaneously</p> <p data-bbox="614 1646 981 1680">Refractive Index Detector</p> <ul data-bbox="592 1680 1204 2083" style="list-style-type: none"> • The light source of the detector is LED. • RI range: 1.00–1.75 RIU. • Noise: < 5 nRIU. • Operating pH 1 to 13 • Achievable linearity should be 500×10^{-6} RIU • Noise level should be: $\leq 2.5 \times 10^{-9}$ RIU • Drift should be less than 0.1×10^{-6} RIU/Hour • The maximum operating flow rate must be up to 20 mL/min for analytical scale • The flow cell must be able to withstand 0.4 	1

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p>MPa pressure</p> <ul style="list-style-type: none"> The flow cell must be temperature controlled from 30°C to 60°C The flow cell volume should be 9µL It should have the automatic purging (Autopurge) function which can complete in 20 minutes <p>Service, Warranty and Training</p> <p>The system should be accompanied with Conformity Certificate</p> <p>On-site installation, commissioning and training shall be conducted by a qualified factory-trained engineer</p> <p>Warranty Guarantee</p> <p>Manufacturer warranty: 5 years coverage Performance guarantee: criteria, 5 years Complete support for equipment for at least a period of 3 years. This shall include the following at no extra cost:</p> <ul style="list-style-type: none"> Service Parts used for repairs. <p>Vendor to provide service guarantee: should the system require service during the warranty period, vendor must guarantee or replacement of instrument for free</p> <p>Vendor to have logistic support to ensure that over at least 95% of the service parts are readily available and upkeep delivery within 24 hours</p> <p>The warranty shall commence only upon successful completion of the Acceptance Test or commissioning.</p> <p>Accessories & Consumables</p> <ul style="list-style-type: none"> Set of UHPLC columns (C18, C8, HILIC, Phenyl, etc.). Solvent bottles with safety caps. Vial kit including sample vials, caps, and septa. Column fittings and tubing kit. Spare pump seals, pistons and lamps. <p>Vendor must demonstrate that it has a proven appropriate set-up and capability to provide after-sales service efficiently and effectively. The supplier should have in his facility a similar system to that proposed in this tender for training purpose</p> <p>A declaration of Conformity certificate must be provided</p> <ul style="list-style-type: none"> A declaration of System Validation certificate must be provided Software Validation Document & Certificates Computer System Validation must. <p>All modules must be GLP compliant</p> <p>International Training of 3 Persons.</p>	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS		Required Quantity
	UPS Computer with printer Warranty IQ/OQ/PQ	<p>According to the electricity usage 10 kva</p> <p>suitable for the system</p> <p>Define above</p> <p>Comprehensive Warranty</p> <p>5 Years comprehensive warranty from the date of installation of each component / module inclusive of all consumable, non-consumable parts and labor exclusive of columns and sample vials, moreover vendor is bound to provide / perform preventative maintenance of equipment periodically at every six months in addition to normally required maintenance in case of any incidence.</p> <p>Service level agreement valid after expiration of comprehensive warranty.</p> <p>05 Years' Service Level Agreement (5 years as Extended Warranty/ Service Level Agreement inclusive of labor charges only, after 5 years of Successful comprehensive Warranty)</p> <p>Vendors are advised to quote</p> <ol style="list-style-type: none"> 1. Comprehensive warranty 2. Service level agreement as complete packages for HPLC / ANUM. <p>To be performed by the suppliers at the time of installations in accordance with guidelines of relevant International controlling bodies. While successful bidder will be bound to perform Performance Qualifications and Calibrations of its equipment on every 6 months periodically in accordance with guidelines of relevant controlling bodies. Availability of Materials required for Performance Qualifications and Calibrations must be responsibility of successful bidder.</p> <p>Training of the users by vendors: Vendor must provide training of instrument from trainers having technical expertise</p> <p>Comparable specifications may also be allowed on the basis of end user requirement. Minor deviations not affecting performance / efficacy of equipment may also be allowed on the basis of end user requirement. Moreover, all components i.e. Electrical extensions, drilling, sockets, etc. will be ensured by the firm bound to install its equipment.</p> <p>CAT.NO / PART NO Of each quoted accessory must be mentioned. Country of manufacturing / Origin must be indicated where minimum 50% parts are manufactured.</p> <p>All quoted modules, additional & optional accessories must be genuine and brand new. In case of fake or refurbished module & Accessory, Institute reserves the right to take all suitable disciplinary actions against bidder in accordance with Sindh procurement rules.</p>	<p>1</p> <p>1</p>

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	Provided application software(s) of analytical instruments must have license with validity for whole life span. No charges / fee would be paid by the institute for any revalidation / reactivation.	
18	<p>UHPLC1</p> <p>General Requirement</p> <ul style="list-style-type: none"> • UHPLC Series instrument with quaternary pump, Auto sampler with thermostat, column oven, and diode-array detector & Electrochemical Detector. • The UHPLC should be provided with a interface to connect with MSMS detector. • The system must be a complete UHPLC system suitable for high-resolution, high-throughput, and high-sensitivity analysis. • The system should support pressures of at least 15,000 psi (1000 bar) to allow for UHPLC operation. • The system should be capable of handling various types of columns (C18, C8, HILIC, etc.). • Modular design preferred for easy maintenance and scalability. • Compliance with GLP/GMP and 21 CFR Part 11. <p>IT Requirement</p> <ul style="list-style-type: none"> • Processor: Intel Core i5 or higher (10th generation supporting Window 11 or higher) • RAM: 32 GB or higher • Storage: 1 TB or higher SSD • Ethernet connection for network integration . • Lan connection for internet. • HP Laser Printer Latest Model connected with Internet (centralized)Operating System: Windows 11 or higher • Database: Microsoft SQL Server or Oracle • Data backup and recovery procedures • Network security and access controls <p>Utility Requirement</p> <ul style="list-style-type: none"> • Power supply: 100-240 VAC, 50-60 Hz • 3 phase with proper earthing • German sockets for electrical connection. • UPS, according to the electricity usage 10 KVA backup 0.5 hour. <p>Safety Requirement</p> <ul style="list-style-type: none"> • Operator safety: protection from electrical shock, chemical exposure • Instrument safety: protection from overpressure, overheating • Emergency procedures: power failure, system malfunction <p>Document Requirement</p> <ul style="list-style-type: none"> • User manuals and guides, Installation and operation qualification protocols and reports. • Performance qualification protocols and reports plus CRM for PQ (eg. Caffeine Kit or any other if applicable) • Maintenance and repair procedures. 	<p>01 No</p> <p>2</p> <p>UPS for UHPLC</p> <p>Caffeine Kit for UHPLCs</p>

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p style="text-align: center;">Auto-sampler</p> <p>Auto-Sampler</p> <ul style="list-style-type: none"> • Injection volume range: 0.1–100 µL with an increment of 0.1 µL. • Carryover: a) ≤ 0.0015% Without rinse. b) ≤ 0.0003% (with rinse) • Volume accuracy • Sample capacity: At least 1000 vials (2 mL) or compatible with 6 deep well plates. • Cooling capability for temperature sensitive samples (4°C–40°C). • ≤ ± 1% (5 µL injection, n = 20) • Linearity ≥ 0.9999 • Injection cycle time ≤ 10 seconds • No. of samples Above 150 (1.5 ml sample vial) • Reproducibility RSD ≤ 1.0% (0.5 to 1.0 µL) <p>Column Oven</p> <p>Temperature control type</p> <ul style="list-style-type: none"> • Forced air circulation • Temperature range: Ambient to 90°C or better with ±0.1°C precision. • Capacity to accommodate at least two columns. • Single column up to 300 mm in length with guard column. Up to 300 mm L. column x 3. • Column can be configured up to 3 columns for support or better • Fast temperature equilibration. <p style="text-align: center;">Detector</p> <p>Photodiode Array Detector</p> <ul style="list-style-type: none"> • Wavelength range :190-800nm • Spectral resolution <1.2 nm. • Wavelength range: 190–800 nm. • Spectral resolution: < 1.2 nm. • Simultaneous multi-wavelength detection. • The detector should be designed with light source from D2 Lamp and Tungsten Lamp. • The PDA detector should include Advance TC Optics design to allow 3-way temperature control on lamp in numbers. Flow cell and Spectrometer for maximized baseline stabilization. • UV cut-off filter should be available to prevent photo-degradation on photo sensitive chemicals. • be designed with light source from D2 Lamp and Tungsten Lamp. • The photo-diode array detector should have at least 1024 elements with an element resolution of 0.5 nm/element. • The detector must have 2 modes of operation using a variable slit: High Resolution mode at a slit width of 1nm and a 	1

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p>High Sensitivity mode at a slit width of 8nm.</p> <ul style="list-style-type: none"> • A Standard flow cell [1.0 μL volume, 10 mm cell path length, 8 MPa pressure max.] with temperature control should be available as standard with a high sensitivity flow cell [50 mm cell path length, • Wavelength accuracy should be ± 1 nm. • Wavelength reproducibility should be ± 0.1 nm. • The Drift must be equal or smaller than $\leq 0.4 \times 10^{-3}$ AU/H • The Noise level must be equal or smaller than $\leq 4.5 \times 10^{-6}$ AU • Linearity should be equal or more than 2.5 AU • A Conventional flow cell [12 μL volume, 10 mm cell path length, 12 MPa pressure max.] with temperature control should be available as an option · A UHPLC cell [8 μL volume, 10 mm cell path length] with temperature control should be available as option. • The detector should be designed with Flow Cell ID Chip to record flow cell ID and Lamp ID Chip to record Lamp ID to ensure data performance • The detector should be designed with Flow Cell ID Chip to record flow cell ID and Lamp ID Chip to record Lamp ID to ensure data performance. • It should have Intelligent Peak Deconvolution Analysis program, i-PDeA as post-run analysis function It should have Intelligent Dynamic Range Extension Calculation program, i-DReC as post-run analysis function <p>Electrochemical Detector</p> <ul style="list-style-type: none"> • The electrochemical Detector must be combine sensitivity, reliability and simplicity for UHPL electrochemical detection. • Detection mode: Amperometric, Coulometric or pulsed amperometric. • Detection mode: Amperometric, coulometric, or pulsed amperometric. • Sensitivity: < 1 pA. • Potential range: ± 2 V. • Working electrode: Glassy carbon, gold, platinum, or silver. • Noise level: < 10 pA. • Cell volume: ≤ 1 μL for high-resolution analysis. • Compatible with standard electrochemical applications such as neurotransmitters, carbohydrates, and environmental pollutants. • The flow cell accommodates several reference electrodes: ISAAC; traditional salt-bridge design, which limits air Bubble 	

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	<p>formation; and Hy- Ref, ideal for carbohydrate analysis and compatible with extreme mobile phases.</p> <ul style="list-style-type: none"> • Ultra-trace analysis and compatible with both analytical and micro bore scale applications. • All types of electrodes • Flex cell with exchangeable gold electrode (Qty 01) • Reference Electrode: Silver–silver chloride (Qty01) • Dual glassy carbon electrodes:(Q01) Electrode 1: $+0.70 \pm 0.05$ V Electrode 2: $+0.82 \pm 0.05$ V • Volt must be compatible for assay of Amikacin, Azithromycin and other related compounds as per USP Methods. Moreover IQ, OQ and PQ of detector must be performed for assay of mentioned compounds as per USP Method. <p>Service, Warranty and Training</p> <p>Service, Warranty and Training The system should be accompanied with Conformity Certificate On-site installation, commissioning and training shall be conducted by a qualified factory-trained engineer</p> <p>Warranty Guarantee Manufacturer warranty: 5 years coverage Performance guarantee: criteria, 5 years Complete support for equipment for at least a period of 3 years. This shall include the following at no extra cost: • Service Parts used for repairs. Vendor to provide service guarantee: should the system require service during the warranty period, vendor must guarantee or replacement of instrument for free Vendor to have logistic support to ensure that over at least 95% of the service parts are readily available and upkeep delivery within 24 hours The warranty shall commence only upon successful completion of the Acceptance Test or commissioning.</p> <p>Accessories & Consumables</p> <ul style="list-style-type: none"> • Set of UHPLC columns (C18, C8, HILIC, Phenyl, etc.). • Solvent bottles with safety caps. • Vial kit including sample vials, caps, and septa. • Column fittings and tubing kit. • Spare pump seals, pistons and lamps. 	

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	<p>Vendor must demonstrate that it has a proven appropriate set-up and capability to provide after-sales service efficiently and effectively. The supplier should have in his facility a similar system to that proposed in this tender for training purpose A declaration of Conformity certificate must be provided</p> <ul style="list-style-type: none"> • A declaration of System Validation certificate must be provided • Software Validation Document & Certificates • Computer System Validation must. <p>All modules must be GLP compliant International Training of 3 Persons.</p> <p>UPS Computer with printer Warranty</p> <p>According to the electricity usage 10 kva suitable for the system Define above Comprehensive Warranty</p> <p>5 Years comprehensive warranty from the date of installation of each component / module inclusive of all consumable, non-consumable parts and labor exclusive of columns and sample vials, moreover vendor is bound to provide / perform preventative maintenance of equipment periodically at every six months in addition to normally required maintenance in case of any incidence. Service level agreement valid after expiration of comprehensive warranty. 05 Years' Service Level Agreement (5 years as Extended Warranty/ Service Level Agreement inclusive of labor charges only, after 5 years of Successful comprehensive Warranty) Vendors are advised to quote</p> <ol style="list-style-type: none"> 1. Comprehensive warranty 2. Service level agreement as complete packages for HPLC / ANUM. <p>IQ/OQ/PQ</p> <p>To be performed by the suppliers at the time of installations in accordance with guidelines of relevant International controlling bodies. While successful bidder will be bound to perform Performance Qualifications and Calibrations of its equipment on every 6 months periodically in accordance with guidelines of relevant controlling bodies. Availability of Materials required for Performance Qualifications and Calibrations must be responsibility of successful bidder.</p> <p>Training of the users by vendors: Vendor must provide training of instrument from trainers having technical expertise Comparable specifications may also be allowed on the basis of end user requirement. Minor deviations not affecting performance / efficacy of equipment may also be allowed on the basis of end user requirement. Moreover, all components i.e. Electrical extensions, drilling, sockets, etc. will be ensured by</p>	<p>1</p> <p>1</p>

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p>the firm bound to install its equipment.</p> <p>CAT.NO / PART NO Of each quoted accessory must be mentioned. Country of manufacturing / Origin must be indicated where minimum 50% parts are manufactured.</p> <p>All quoted modules, additional & optional accessories must be genuine and brand new. In case of fake or refurbished module & Accessory, Institute reserves the right to take all suitable disciplinary actions against bidder in accordance with Sindh procurement rules.</p> <p>Provided application software(s) of analytical instruments must have license with validity for whole life span. No charges / fee would be paid by the institute for any revalidation / reactivation.</p>	
19	<p>Mass Detector (MS/MS Quadrapole)</p> <p>General Requirements:</p> <ul style="list-style-type: none"> The system must be a high-performance tandem mass spectrometer (MS/MS) designed for seamless integration with both Ultra-High-Performance Liquid Chromatography (UHPLC) and High-Performance Liquid Chromatography (HPLC) systems. The system should support high-throughput, high-sensitivity, and high-resolution analysis. Modular design preferred for easy maintenance and scalability. Compliance with GLP/GMP and 21 CFR Part 11 regulations. <p>MS/MS Detector Specifications:</p> <ul style="list-style-type: none"> Ionization Modes: <ul style="list-style-type: none"> Electrospray Ionization (ESI) and Atmospheric Pressure Chemical Ionization (APCI), positive and negative mode The system must be equipped with Atmospheric Pressure Ionization (API) Probes One set of ESI (Electro spray Ionization) must be available as standard. The ESI source must be equipped with heater assembly for achieving efficient desolvation and increased efficiency of ionization. Mass Range: <ul style="list-style-type: none"> At least 5--2000 m/z or better for small molecule applications. Resolution: <ul style="list-style-type: none"> High-resolution capability (>30,000 FWHM) or better for accurate mass analysis. Scan Modes: <ul style="list-style-type: none"> Full scan, MS/MS (product ion scan), precursor ion scan, neutral loss scan, and multiple reaction monitoring (MRM). Sensitivity: <ul style="list-style-type: none"> Limit of detection (LOD) in the femtogram (fg) range for targeted compounds. 	01 No

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	<ul style="list-style-type: none"> • Dynamic Range: <ul style="list-style-type: none"> ◦ At least 5 orders of magnitude (10^5). • Polarity Switching: <ul style="list-style-type: none"> ◦ Fast polarity switching (<50 ms) for simultaneous analysis of positive and negative ions. • Data Acquisition Rate: <ul style="list-style-type: none"> ◦ At least 30 spectra per second for fast chromatography applications. • Vacuum System: <ul style="list-style-type: none"> ◦ Turbo molecular pump with efficient ion optics for maximum ion transmission. • Collision Cell: <ul style="list-style-type: none"> ◦ High-energy collision cell for MS/MS fragmentation with nitrogen or argon gas. <p>UHPLC & HPLC Connectivity:</p> <ul style="list-style-type: none"> • The system must be compatible with both UHPLC and HPLC. • Provision for direct connectivity and software integration with UHPLC and HPLC systems from multiple vendors. • Must support auto-switching between UHPLC and HPLC modes based on method parameters. • System should provide seamless data transfer between chromatography and mass spectrometry software. • Total gas consumption for ionization at any given time should not exceed 70 L/min. lower gas consumption is preferred • APCI (Atmospheric Pressure Chemical Ionization) interface must be available. • ESI source with multiple flow rate must be capable to handle flow rate up to (0.001 to 2mL/min.) or better. • APCI source must be capable to handle flow rate up to 0.05 to 2mL/min or better. • The heating block temperature of APCI must withstand high temperature up to 500 deg. C or better. • An Extra syringe pump must be available as an option for direct infusion of sample. • DART [Direct Analysis in Real Time] interface must be available as an option • ASAP [Atmospheric Solid Analysis Probe] interface must be available as an option • The software must be able to recognize the ion Source. • The ionization probes switching should be simple and tool free • The heating capability of the desolvation line should be at least 300° C or better. <p>The cleaning and maintenance of ion source and desolvation line should be simple and preferably without breaking the vacuum</p> <p>Mass Analyzer</p> <ul style="list-style-type: none"> • The mass analyzer must consist of 2, high standard, fast scanning Quadrupoles and one high efficiency multipole type collision cell. • The Collision cell should be high efficiency collision cell for efficient ion acceleration and ensuring near zero cross talk 	

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	<ul style="list-style-type: none"> The collision gas used should be Argon gas/Nitrogen Gas and optimization of collision gas pressure should be possible for efficient collision thus increasing the sensitivity. The mass stability should be 0.05 Da over 12 hours or better The mass spectrometer must be able to perform fast scanning for achieving high speed data acquisition for accurate and precise quantitation over 2-4 seconds narrow UHPLC peaks. The scan speed should not be less than 10,000 amu/sec. higher scan speed is preferred Detection of Positive/Negative ions should be user-selectable and the switching time between positive and negative polarity must be fast to analyze large number of compounds with both positive and negative polarities in single run without compromising sensitivity. the polarity switching time should be less than 20 msec. lower switching time is preferred Resolution should be below 0.7 u. In High Resolution mode; resolution must be below 0.5u or better The accuracy must be less than +/- 0.1 u or better. Should be able to measure 500 MRM in one Second, more is preferred. Auto-tuning should be standard with a syringe pump that delivers accurate calibrant injection under full workstation control in both positive and negative modes. Sensitivity, Positive ESI Sensitivity, negative ESI The measured signal-to-noise ratio [RMS] obtained from the chromatogram monitoring the transition m/z 321 to m/z 152 on injection of 1 pg of Chloramphenicol should be more than or equal to 300,000:1, based on a 1-µL injection of a 1 pg/µL Chloramphenicol solution in 70:30 Acetonitrile/Water (no additive) The instrument should have a Dynamic range of 2 x 10⁷ pulse counting or better. The vacuum system should be of a differential type with Triple inlet turbo-molecular pump and one rotary pump. The detector should be a secondary electron multiplier with conversion dynode <p>Software controlled flow switching valve for diverting the flow to waste, must be available as an option.</p> <p>Calibration Kit</p> <table border="0"> <tr> <td>Calibration Kit</td><td>1 extra Calibration Kit For Calibration Purpose Calibration will be performed on annual basis for next 5 years FOC Maintenance will be performed for next 5 years FOC.</td><td>1</td></tr> <tr> <td>Nitrogen generator</td><td>Nitrogen Generator & a Separate (Extra Generator Kit)</td><td>2</td></tr> <tr> <td>Accessorize & Consumables</td><td>A LCMS start-up kit should be supplied as standard with complete accessories, washing solution, lint free cloth, swabs to clean mass. Capillary for sample transfer to Mass, orifice, o plunger seals.</td><td>1 extra set</td></tr> </table>	Calibration Kit	1 extra Calibration Kit For Calibration Purpose Calibration will be performed on annual basis for next 5 years FOC Maintenance will be performed for next 5 years FOC.	1	Nitrogen generator	Nitrogen Generator & a Separate (Extra Generator Kit)	2	Accessorize & Consumables	A LCMS start-up kit should be supplied as standard with complete accessories, washing solution, lint free cloth, swabs to clean mass. Capillary for sample transfer to Mass, orifice, o plunger seals.	1 extra set	
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Accessorize & Consumables	A LCMS start-up kit should be supplied as standard with complete accessories, washing solution, lint free cloth, swabs to clean mass. Capillary for sample transfer to Mass, orifice, o plunger seals.	1 extra set									

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p>Pump Oil Lint free clothes (200 pieces) Ferrules for ESI nebulizer Kit Capillary Cleaning wires Cleaning Kit for Mass Spare pump seals, pistons. Calibration and tuning solutions for MS/MS. Maintenance Kits (Spinner, screw driver etc) Software Licensed chromatography and mass spectrometry software with 21 CFR Part 11 compliance. User-friendly interface with customizable reports. Automated peak integration, calibration, and quantification. Real-time monitoring and diagnostics. Multi-user access with audit trails. The data can be converted to other (AIA, ASCII) formats. Spread Sheet software and word-processing software can be readily employed to provide data in tables or graphs through industry standard protocols The software should allow automatic execution of system checks, auto-purge and baseline checks Software must register all events (log files) audit trails for Data, Method, Batch, Report, System Policy and User Administration Software must display the online status of instruments (Name, Type, Analysis, Status, User Running, Queued Count, Estimated End time) Functions to check PC Information, Software Program Files Check, User List, User Groups, Group Rights, Security Policy, Instrument Connection information from software and printable in pdf format An audio-visual multi-media CD-ROM for Maintenance and Troubleshooting must be provided System suitability, System security as well as System check functions must be provided which comply with Good Laboratory Practice (GLP) and Regulatory Conformity Service, Warranty and Training The system should be accompanied with Conformity Certificate Comprehensive Warranty 5 Years comprehensive warranty from the date of installation of each component / module inclusive of all consumable, non-consumable parts and labor exclusive of columns and sample vials, moreover vendor is bound to provide / perform preventative maintenance of equipment periodically at every six months in addition to normally required maintenance in case of any incidence. Service level agreement valid after expiration of comprehensive warranty. 05 Years' Service Level Agreement (5 years as Extended Warranty/ Service Level Agreement inclusive of labor charges only, after 5 years of Successful comprehensive Warranty)</p>	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p>Vendors are advised to quote</p> <ol style="list-style-type: none"> 1. Comprehensive warranty 2. Service level agreement as complete packages for MSMS / ANUM. <p>On-site installation, commissioning and training shall be conducted by a qualified factory-trained engineer</p> <p>Complete support for equipment for at least a period of 5 years.</p> <p>This shall include the following at no extra cost:</p> <ul style="list-style-type: none"> • Service Parts used for repairs. <p>Vendor to provide service guarantee: should the system require service during the warranty period, vendor must guarantee or replacement of instrument for free</p> <p>Vendor to have logistic support to ensure that over at least 95% of the service parts are readily available and upkeep delivery within 24 hours</p> <p>The warranty shall commence only upon successful completion of the Acceptance Test or commissioning.</p> <p>Vendor must demonstrate that it has a proven appropriate set-up and capability to provide after-sales service efficiently and effectively. The supplier should have in his facility a similar system to that proposed in this tender for training purpose</p> <p>A declaration of Conformity certificate must be provided</p> <p>A declaration of System Validation certificate must be provided</p> <p>Software Validation Document & Certificates</p> <p>Computer System Validation.</p> <p>All modules must be GLP compliant</p> <p>International Training of 2 Persons.</p> <p>suitable for the system</p> <p>Define above</p> <ul style="list-style-type: none"> • Latest software version (latest, more than 5.0) LIMS supportive computer hardware and networking requirements (21 CFR Compliance) • Processor: Intel Core i5 or higher (10th generation supporting Window 11 or higher) • RAM: 32 GB or higher • Storage: 1 TB or higher SSD • Ethernet connection for network integration . • Lan connection for internet. • 1 HP Laser Printer Latest Model connected with Internet (centralized) • Operating System: Windows 11 or higher • Database: Microsoft SQL Server or Oracle • Data backup and recovery procedures • Network security and access controls • Power supply: 100-240 VAC, 50-60 Hz • 3 phase with proper earthing • German sockets for electrical connection. • UPS, according to the electricity usage 8 KVA backup 0.5 hour. • Operator safety: protection from electrical shock, chemical exposure 	1

Computer with printer

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS		Required Quantity						
	UPS IQ/OQ/PQ	<ul style="list-style-type: none">Instrument safety: protection from overpressure, overheatingEmergency procedures: power failure, system malfunction <p>According to the electricity usage 10 kva</p> <p>To be performed by the suppliers at the time of installations in accordance with guidelines of relevant International controlling bodies. While successful bidder will be bound to perform Performance Qualifications and Calibrations of its equipment on every 6 months periodically in accordance with guidelines of relevant controlling bodies. Availability of Materials required for Performance Qualifications and Calibrations must be responsibility of successful bidder. Training of the users by vendors: Vendor must provide training of instrument from trainers having technical expertise</p> <p>Comparable specifications may also be allowed on the basis of end user requirement. Minor deviations not affecting performance / efficacy of equipment may also be allowed on the basis of end user requirement. Moreover, all components i.e. Electrical extensions, drilling, sockets, etc. will be ensured by the firm bound to install its equipment. CAT.NO / PART NO Of each quoted accessory must be mentioned. Country of manufacturing / Origin must be indicated where minimum 50% parts are manufactured.</p> <p>All quoted modules, additional & optional accessories must be genuine and brand new. In case of fake or refurbished module & Accessory, Institute reserves the right to take all suitable disciplinary actions against bidder in accordance with Sindh procurement rules.</p> <p>Provided application software(s) of analytical instruments must have license with validity for whole life span. No charges / fee would be paid by the institute for any revalidation / reactivation.</p>	1						
20	Micro analytical balance <table><tr><td>Technical Specifications and Component</td><td><ul style="list-style-type: none">Minimum Weight (USP, 0.1%, typical) 1 mg.Maximum Capacity 3-10g or better.</td></tr><tr><td>Utility Requirement</td><td><ul style="list-style-type: none">PrinterAdapterPower cablePower supply: 220 voltphase with proper earthingUPS, according to the electricity usage 2KVA</td></tr><tr><td>Safety Requirement</td><td><ul style="list-style-type: none">Operator safety: protection from electrical shock, chemical exposure.Instrument safety: Stable surface to prevent vibrations, controlled environment.Emergency procedures: power failure.</td></tr></table>		Technical Specifications and Component	<ul style="list-style-type: none">Minimum Weight (USP, 0.1%, typical) 1 mg.Maximum Capacity 3-10g or better.	Utility Requirement	<ul style="list-style-type: none">PrinterAdapterPower cablePower supply: 220 voltphase with proper earthingUPS, according to the electricity usage 2KVA	Safety Requirement	<ul style="list-style-type: none">Operator safety: protection from electrical shock, chemical exposure.Instrument safety: Stable surface to prevent vibrations, controlled environment.Emergency procedures: power failure.	01 No
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Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity
	<p>Document Requirement User manuals and guides Qualification reports and protocols</p> <p>Staff Training Operator training: instrument operation, maintenance, troubleshooting.</p> <p>Discrepancies Procedure for reporting and addressing discrepancies Investigation and resolution of discrepancies.</p> <p>Accessories Requirements <ul style="list-style-type: none"> • OIML weight box (E1) or ASTM weight box Class 0 with meteorological traceability (at least 3 boxes). • Printer with Printer rolls (1 dozen) • Stainless steel spatulas set (For Minimum to Maximum weigh) small, grooved spatula (3 sets) • Brushes for instrument cleaning (At least 2 Brushes). • Door handles (6 in quantity) • Ink (6 in quantity) • Cartridges (6 in quantity) </p> <p>Warranty Manufacturer warranty: 5 year coverage(Including 3 years FOC Calibration & Services)</p> <p>Guarantee Performance guarantee: criteria, 5years</p> <p>After-Sale Service Routine maintenance (e.g., cleaning, calibration) Troubleshooting and repair of instrument malfunctions Replacement of worn or damaged parts Maintenance and repair services shall be performed by authorized personnel (for 5 years), Response time for maintenance and repair requests shall be within 24 hours Data Integrity Log history (21 CFR Part 11 Compliant) Log history (Basic Metadata) Password protection Handle doors LIMS Supported</p> <p>Features Password protection Supports 21 CFR Part 11 User management</p> <p>User Management Name , ID , Password & User option available</p> <p>Maximum Capacity 3-10 g or better</p> <p>Guaranteed Repeatability 0.5 µg or lower</p> <p>minimum readability 1 µg</p> <p>Minimum Weight (USP, 0.1%, typical) 1 mg</p> <p>Adjustment Internal / FACT</p> <p>Weighing Pan Diameter 30 mm or Lower</p> <p>Display High contrast display (HCD)</p>	

Item No.	NAME OF GOODS, TECHNICAL DESCRIPTION, SPECIFICATIONS, AND STANDARDS	Required Quantity																														
	<p>Vendor must provide one year standard warranty service for equipment and 5 years extended warranty services with parts replace (including all Major parts and Consumable parts)</p> <p>5 years performance calibration and maintenance services as free of charge service.</p> <p>IQ, OQ & PQ to be performed by the vendor with complete qualification documents and manual.</p> <p>All other necessary accessories should be supplied by vendor for equipment running.</p> <p>Quoted model should be latest version</p> <p>Latest model should be quoted with printer.</p> <p>Training: Comprehensive (operational & trouble shooting) training to end-user</p> <p>OIML weight box (E1) or ASTM weight box Class 0 with metrological traceability along with certificate.</p> <p>Printer Compatible with constant un removable ink Printer rolls</p> <p>Stainless steel spatulas set (For Minimum to Maximum weigh) small grooved spatula (6 in quantity)</p> <p>Brushes for instrument cleaning (At least 6 Brushes)</p>																															
Dow Hospital Pharmacy																																
21	<p>Biosafety Cabinet Class A2, Type B1</p> <table><tr><td>Specification</td><td>Description</td></tr><tr><td>Type</td><td>Biosafety Cabinet Class A2, Type B1</td></tr><tr><td>Airflow Type</td><td>Vertical laminar airflow</td></tr><tr><td>Exhaust Type</td><td>Canopy or thimble exhaust</td></tr><tr><td>Airflow Velocity</td><td>100 feet per minute (fpm) at work opening</td></tr><tr><td>HEPA Filter Efficiency</td><td>99.99% efficient at 0.3 microns</td></tr><tr><td>Motor Blower</td><td>External or remote-mounted</td></tr><tr><td>Face Velocity</td><td>100 - 120 linear feet per minute (fpm)</td></tr><tr><td>Work Surface Material</td><td>Stainless steel</td></tr><tr><td>Work Surface Dimensions</td><td>Typically 2 feet deep and 4 feet wide</td></tr><tr><td>Accessories</td><td>UV light for decontamination, gas and vacuum connections</td></tr><tr><td>Noise Level</td><td>Less than 65 dB(A)</td></tr><tr><td>Material</td><td>Stainless steel or powder-coated steel</td></tr><tr><td>Compliance Standards</td><td>NSF/ANSI 49, UL 61010-1, EN 12469, CE compliant</td></tr><tr><td>Power Requirements</td><td>110/220V, 50/60 Hz</td></tr></table>	Specification	Description	Type	Biosafety Cabinet Class A2, Type B1	Airflow Type	Vertical laminar airflow	Exhaust Type	Canopy or thimble exhaust	Airflow Velocity	100 feet per minute (fpm) at work opening	HEPA Filter Efficiency	99.99% efficient at 0.3 microns	Motor Blower	External or remote-mounted	Face Velocity	100 - 120 linear feet per minute (fpm)	Work Surface Material	Stainless steel	Work Surface Dimensions	Typically 2 feet deep and 4 feet wide	Accessories	UV light for decontamination, gas and vacuum connections	Noise Level	Less than 65 dB(A)	Material	Stainless steel or powder-coated steel	Compliance Standards	NSF/ANSI 49, UL 61010-1, EN 12469, CE compliant	Power Requirements	110/220V, 50/60 Hz	02 Nos
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SPECIAL NOTE:

- Demonstration must be arranged within 03 days on the request of Dow University of Health Sciences, Karachi (DUHS) for the evaluation of the product.
- DUHS may reject the bid/or part of it, if previous experience in term of supplies and service is not satisfactory.
- All parts/accessories must be included for complete operation, and all optional parts must be quoted in bid, if not quoted will be considered Free of cost.
- All accessories and utilities required for commissioning must be provided.
- The bidder shall ensure the availability of all spares and accessories including consumables minimum for the next 10 years.
- Documentation:** Operational, installation, maintenance/ service manuals must be provided at the time of installation of the equipment/instruments.
- Prices of all consumables, accessories, major spare parts and optional hardware/ software must be quoted separately.
- Documentary evidence verifying the **original manufacturer** of the goods must be

attached.

9. Documentary proof verifying the Country of Origin of Equipment/ Instrument must be attached.
10. The manufacturer's country of origin and the goods' country of origin are distinct. Therefore, the country of origin of the goods must be clearly specified with supporting documents.

Part Two - Section VI Sample Forms

A. Bid Form and Price Schedules

NIT / IFB N°: _____

Date: _____

To: *[name and address of Procuring Agency]*

Gentlemen and/or Ladies:

Having examined the bidding documents including Addenda Nos. *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver *[description of goods and services]* in conformity with the said bidding documents for the sum of *[total bid amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods *[insert offered delivery schedule]*.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to _____ percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring agency.

We agree to abide by this Bid for a period of *[number]* days from the date fixed for Bid opening under Clause 22 of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of agent	Amount and Currency	Purpose of Commission or gratuity
_____	_____	_____
_____	_____	_____
_____	_____	_____

(if none, state "none")

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this _____ day of _____ 20_____.

[Signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

(A) **PRICE SCHEDULE IN PAK RUPEES**
Delivered Duty Paid (DDP BASIS - EXCLUDING GST)

FOR GOODS OFFERED WITHIN THE PROCURING AGENCY'S COUNTRY

Name of Bidder_____. **IFB / NIT Number**_____.

S#	Detailed Specification of Goods	Model / Cat No.	Name of Manufacturer	Country of Origin	Quantity of Stores	Unit	Rate Per Unit (Excluding GST)	Total Price (Excluding GST)
1	2	3	4	5	6	7	8	9
Total Amount in Pak Rs. on DDP Basis (Excluding GST)								

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

**(B) PRICE SCHEDULE IN FOREIGN CURRENCY
(CFR / CNF/ C&F / CPT - KARACHI BASIS)**

FOR GOODS OFFERED FROM OUTSIDE THE PROCURING AGENCY'S COUNTRY

Name of Bidder_____. **IFB / NIT Number**_____.

S#	Detailed Specification of Goods	Model / Cat No.	Name of Manufacturer	Country of Origin	Port of Shipment	Quantity of Stores	Unit	Currency	Rate Per Unit	Total Price
1	2	3	4	5	6	7	8	9	10	11
Total Amount in Foreign Currency										

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

NOTE:

Port of Shipment and Country of origin of "MAJOR PART(S) OF THE EQUIPMENT" must be clearly reflected separately in the Technical and Financial bids. The "Origin" means the place where the "goods" are mined, grown, or produced.

B. Bid Security Form

Whereas *[name of the Bidder]* (hereinafter called "the Bidder") has submitted its bid dated *[date of submission of bid]* for the supply of *[name and/or description of the goods]* (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE *[name of bank]* of *[name of country]*, having our registered office at *[address of bank]* (hereinafter called "the Bank"), are bound unto *[name of Procuring agency]* (hereinafter called "the Procuring agency") in the sum of for which payment well and truly to be made to the said Procuring agency, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ____ day of _____ 20_.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its Bid by the Procuring agency during the period of bid validity:
 - a. fails or refuses to execute the Contract Form, if required; or
 - b. fails or refuses to furnish the performance security, in accordance with the Instructions to Bidders;

we undertake to pay to the Procuring agency up to the above amount upon receipt of its first written demand, without the Procuring agency having to substantiate its demand, provided that in its demand the Procuring agency will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including twenty eight (28) days after the period of bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

[signature & Seal of the bank]

C. Contract Form

THIS AGREEMENT made the _____ day of _____ 20 _____ between [name of Procuring Agency] (hereinafter called "the Procuring Agency") of the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called "the Supplier" of the other part:

WHEREAS the Procuring agency invited bids for certain goods and ancillary services, viz., *[brief description of goods and services]* and has accepted a bid by the Supplier for the supply of those goods and services in the sum of *[contract price in words and figures]* (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 be deemed to form and be read and construed as part of this Agreement, viz.:
 - a) the Bid Form and the Price Schedule submitted by the Bidder;
 - b) the Schedule of Requirements;
 - c) the Technical Specifications;
 - d) the General Conditions of Contract;
 - e) the Special Conditions of Contract; and
 - f) the Procuring agency's Notification of Award.
3. In consideration of the payments to be made by the Procuring agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring agency to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract
4. The Procuring agency 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 their respective laws the day and year first above written.

Signed, sealed, delivered by _____ the (for the Procuring agency)

Signed, sealed, delivered by _____ the (for the Supplier)

D. Performance Security Form

To: *[name of Procuring agency]*

WHEREAS *[name of Supplier]* (hereinafter called "the Supplier") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated _____ 20____ to supply *[description of goods and services]* (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a bank guarantee by a reputable bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of 20____.

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

E. Bank Guarantee for Advance Payment

To: *[name of Procuring agency]*

[name of Contract]

Gentlemen and/or Ladies:

In accordance with the payment provision included in the Special Conditions of Contract, which amends Clause 16 of the General Conditions of Contract to provide for advance payment, *[name and address of Supplier]* (hereinafter called "the Supplier") shall deposit with the Procuring agency a bank guarantee to guarantee its proper and faithful performance under the said Clause of the Contract in an amount of *[amount of guarantee in figures and words]*.

We, the *[bank or financial institution]*, as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the Procuring agency on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding *[amount of guarantee in figures and words]*.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between the Procuring agency and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition, or modification.

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

Yours truly,

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

F. Manufacturer's Authorization Form

[See Clause 13.3 (a) of the Instructions to Bidders.]

To:
The [Procuring Agency]
Karachi.

WHEREAS [name of the Manufacturer] who are established and reputable manufacturers of [name and/or description of the goods] having factories at [address of factory] do hereby authorize [name and address of Agent] to submit a bid, and subsequently negotiate and sign the Contract with you against IFB No. [reference of the Invitation to Bid] for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Bids.

We hereby undertake that we will provide the complete after sale services support in case of agency transfer or withdrawn from the bidder and will inform timely of any transition.

Our representative may be reached in need of support,
Name:
Designation:
Email Address:

[signature for and on behalf of Manufacturer]

Note: This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its bid.

G. Integrity Pact (AFFIDAVIT)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS/CONTRACTORS/CONSULTANTS.

Contract Number: _____ Dated: _____
Contract Value: _____
Contract Title: _____

[Name of Supplier/Contractor/Consultant] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, **[Name of Supplier/ Contractor/ Consultant]** represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit, in whatsoever form, from Procuring Agency (PA), except that which has been expressly declared pursuant hereto.

[Name of Supplier/Contractor/Consultant] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[Name of Supplier/Contractor/Consultant] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.

Notwithstanding any rights and remedies exercised by PA in this regard, **[Name of Supplier/Contractor/Consultant]** agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by **[Name of Supplier/Contractor/Consultant]** as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit, in whatsoever form, from PA.

[Procuring Agency]

[Supplier /Contractor/Consultant]

Sample Forms

(FORM A)
HUMAN RESOURCE INCLUDING DETAIL OF TECHNICAL TEAM

S. #	Name	Designation	Contact Number	Posted Location	Date of Joining	Education	Trainings (Equipment, Country)

Note: Supporting Documents must be provided for each employee.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

(FORM B)
SPECIALIZED TESTING AND CALIBRATION TOOLS (if applicable)

S. #	Tool Description	Make	Model	Date of Last Calibration

(FORM C)
MAJOR SPARE PARTS

- It may include a Sensor, PCB, LCD display, Pumps, motors, detectors, Laser and other items recommended by the manufacturer etc.
- Parts such as cables and connectors will not be considered major spare parts.
- Bidders using inventory management software may provide a software-generated list instead of the below format.

S. #	Part Number	Part Description	Make	Model	Qty

(FORM D)
COMPLIANCE SHEET/ TECHNICAL EVALUATION SHEET

Name the Vendor: _____

Make/Manufacturer: _____

Model: _____ Year of introduction: _____

Country of Origin of the Goods: _____

Country of Manufacturer of the Goods: _____

Country of Major Parts Sourcing: _____

Number of units installed in Pakistan: _____

Use full life as per manufacturer (in Years): _____

Pre-installation requirement.

Electrical Connection: _____

Grounding: _____

Backup Supply: _____

Water (RO/DI with flow): _____

Drain: _____

Any other Requirements: _____

S. #	Tender Specification	Offered Specification	Page # of the supporting Document

Note: Supporting documents must be provided

(FORM - E)

FINANCIAL EVALUATION SHEET

Year	Annual Turnover for the last 3 years Year (PKR)
Year 1	
Year 2	
Year 3	
TOTAL	
Average Turn-over in 3 years	

Financial Information in PKR	Year 1	Year 2	Year 3
Total Assets (TA)			
Total Liabilities (TL)			
Current Assets (CA)			
Current Liabilities (CL)			
Total / Gross Revenue (TR)			

Supporting Document		Yes / No
Income Tax Returns	Year 1	
	Year 2	
	Year 3	

(FORM - F)

LIST OF INSTALLATION / REFERENCE CLIENT

Name of Equipment:

Model:

Make/Manufacturer:

Country of Origin of the Manufacturer:

Country of Origin of Equipment/Goods:

S. #	Department	Name of Institute	City	Date of Installation	Date of PO / Satisfactory Certificate

Note: Valid documentary evidence must be enclosed.

DAWN

E-PAPER | APRIL 30, 2025



DOW UNIVERSITY OF HEALTH SCIENCES

IFB No: DUHS/DP/2025/322/323

Dated 28 April 2025

NOTICE INVITING TENDER (NIT)

Dow University of Health Sciences (DUHS), Karachi, invites the following e-bids through E-Pak Acquisition and Disposable System (EPADS) from the Manufacturers or authorized Partners/Agents/Distributors of Manufacturers available on the 'List of Active Taxpayers' of FBR/SRB (whichever is applicable). Bidding Documents containing detailed Terms and Conditions can be viewed/downloaded from <https://portalsindh.eprocure.gov.pk/#/> and <https://duhs.edu.pk>

S#	Description	Bidding Procedure	Tender Reference No:
1.	Procurement of Laboratory Equipment / Instruments on CFR/CPT/C&F or on DDP Basis (Excluding GST)	Single Stage-Two Envelopes	DUHS/DP/2025/322
2.	Procurement of Library Management System on DDP Basis (Excluding GST)	Single Stage-One Envelopes	DUHS/DP/2025/323

Electronic Bids should be submitted through EPADS only. Manual bids will not be received. Interested bidders are required to register themselves on the EPAD System at the link <https://sindh.eprocure.gov.pk/#/supplier/registration> for submission of electronic bids.

The bids, prepared in accordance with the instructions given in the bidding documents, must be submitted on EPADS by **21 May 2025 at 1130 Hrs.** The original instrument of tender fee Rs. 2,000/- (Non-refundable) and bid security @ two percent (2%) of the total bid value must reach the procuring agency (Procurement Directorate at Library Block, Dow University of Health Sciences (Ojha Campus), SUPARCO Road, off Main University Road, Gulzar-e-Hijri, Scheme No. 33, Karachi) before the deadline for submission of e-bids, which will be opened on the same day at **1200 Hrs.**

Note:

- For any query regarding e-bidding, please contact the Director Procurement Office at Tel: 021-38771111 (Ext. 4433)
- In case Govt. announces any public holiday or any unfavourable circumstances, the tender/bids will be submitted and opened on the next working day, at the same venue and time.
- The purchaser reserves the right to reject any/all bids under the relevant provisions of SPP Rules 2010.
- In case of any difficulty, prospective bidders may contact the EPADS Helpline 051-111-137-237 during working days/hours.

Director Procurement
Dow University of Health Sciences, Karachi

www.duhs.edu.pk

SUPARCO Road, Gulzar-e-Hijri, Scheme No. 33, Karachi
Tel: 021-38771111 Fax: 021-38771112



B. Hussain

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DOW UNIVERSITY OF HEALTH SCIENCES

آفي ايف بي نمبر: DUHS/DP/2025/322/323 تاريخ: 28 اپريل، 2025

واڪ گهريل آهن

ڊائيوينيورسٽي آف هيلٿ سائنسز (ڊي يو ايج ايس) ڪراچي، ڪي اڇي پاڪ اسٽيٽيوٽس اينڊ ڊسپوزيل سسٽم (EPADS) جي مينوفڪچررز يا انهن جي مجاز پارٽنرز/ايجنٽس/ڊسٽريبيوٽرز کان هيٺ ڄاڻايل اي بڊز گهريل آهن، جيڪي ايف بي آر/ايس آر بي جي ايڪٽو ٽيڪس پيشر فهرست ۾ شامل هجن (انهن مان جيڪو به لاڳو ٿيڻ جو ڳو هجي). تفصيلي شرطن ۽ ضابطن تي مشتمل واڪ جا دستاويز <https://portalsindh.eprocure.gov.pk/#/> يا <https://duhs.edu.pk> تان ڏسي/ڊائون لوڊ ڪري سگهجن ٿا.

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الڪٽرانڪ واڪ صرف EPADS ذريعي جمع ڪرايا وڃن. هٿوڪ واڪ وصول نه ڪيا ويندا. دلچسپي رکندڙ واڪ

ڏيندڙن لاءِ اليڪٽرانڪ واڪ جمع ڪرائڻ لاءِ لنڪ:

<https://sindh.eprocure.gov.pk/#/supplier/registration> جي ذريعي اي بڊز سسٽم تي رجسٽر هئڻ ضروري آهي.

واڪ دستاويزن ۾ ڏنل هدايتن مطابق تيار ڪيل واڪ EPADS تي 21 مئي 2025 تي صبح 11:30 وڳي تائين جمع ڪرايا وڃن. اصل ٽينڊر في 2000 روپيا (ٺاڦايل واپسي) ۽ ڪل واڪ جي قيمت جو 2 سيڪڙو بطور واڪ سيڪيورٽي لازمي پروڪيورنگ ايجنسي (پروڪيورمينٽ ڊائريڪٽوريٽ، لائبريري بلاڪ، ڊائيوينيورسٽي آف هيلٿ سائنسز) اوجها ڪيمپس، سهارڪو روڊ، لڳا مين يونيورسٽي روڊ، گلزار هجري، اسڪيم نمبر 33، ڪراچي ڪي اڇي واڪ جمع ڪرائڻ جي آخري تاريخ کان پهرين پهچي وڃن جيڪي ساڳئي ڏينهن 12:00 وڳي کوليا ويندا.

نوٽ: اي بڊنگ جي حوالي سان ڪنهن به سوال يا معلومات لاءِ ڊائريڪٽر پروڪيورمينٽ آفيس سان فون نمبر 021-38771111 Ext. 4433 تي رابطو ڪريو.

حڪومت طرفان موڪل يا غير يقيني صورتحال سبب ٽينڊر/واڪ ان جي ورنڊڙ ڏينهن ساڳئي هنڌ ۽ وقت تي جمع ڪيا ويندا ۽ کوليا ويندا.

خريداڙ ايس بي بي روز 2010 جي واسطيدار شتن تحت ڪنهن به يا سمورن واڪن کي رد ڪرڻ جو حق محفوظ رکي ٿو.

ڪنهن به ڏکيائي جي صورت ۾، واڪ ڏيندڙ ڪم وارن ڏينهن دوران EPADS، هيلپ لائن 051-111-137-237 تي رابطو ڪري سگهن ٿا.

ڊائريڪٽر پروڪيورمينٽ

ڊائيوينيورسٽي آف هيلٿ سائنسز، ڪراچي

www.duhs.edu.pk
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