

# **Dow University of Health Sciences**



## **Bidding Documents**

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

**IFB / NIT No. DUHS/DP/2024/280 Dated 05 September 2024**

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**Procurement of Laboratory Equipment / Instruments  
under ADP Scheme Establishment of Bio Safety Lab.  
(BSL-III) at Sindh Infectious Diseases Control Hospital &  
Research Centre at Karachi**

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

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# 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 source as defined in the SPP Rules, 2010 (Amended upto 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.

### 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. 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 prior to the deadline for the submission of bids prescribed in the Bid Data Sheet. Written copies of the Procuring agency’s response (including an explanation of the query but without identifying the source of inquiry) will be sent to all interested bidders that have received the bidding documents.

#### **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 a 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, 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) a Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11, and 12;
  - b) 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;
  - c) 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
  - d) 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 Bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope.
- 18.2 The inner and outer envelopes shall:
- (a) be addressed to the Procuring agency at the address given in the Bid Data Sheet; and

- (b) bear the Project name indicated in the Bid Data Sheet, the Invitation for Bids (IFB) title and number indicated in the Bid Data Sheet, and a statement: “DO NOT OPEN BEFORE,” to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.2.

18.3 The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared “late”.

18.4 If the outer envelope is not sealed and marked as required by ITB Clause 18.2, the Procuring agency will assume no responsibility for the bid’s misplacement or premature opening.

## **19 Deadline for Submission of Bids**

19.1 Bids must be received by the Procuring agency at the address specified under ITB Clause 18.2 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 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 and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders.
- 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**

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# 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.

## 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.

# Dow University of Health Sciences



## Bidding Documents

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

**IFB / NIT No. DUHS/DP/2024/280 Dated 05 September 2024**

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**Procurement of Laboratory Equipment / Instruments  
under ADP Scheme Establishment of Bio Safety Lab.  
(BSL-III) at Sindh Infectious Diseases Control Hospital &  
Research Centre at Karachi**

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### **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

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## **Part Two - Section I.**

### **Invitation for Bids**

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

**IFB No: DUHS/DP/2024/280 Dated 05 September 2024**

Dow University of Health Sciences (DUHS), Karachi, invites e-bids through E-Pak Acquisition and Disposable System (EPADS) on CFR/CPT/C&F or DDP Basis (Excluding GST) from the Manufacturers or authorized Agents / Distributors of Manufacturers available on the 'List of Active Taxpayers' of FBR/SRB (whichever is applicable) **for the PROCUREMENT OF LABORATORY EQUIPMENT / INSTRUMENTS under the ADP Scheme Establishment of Bio Safety Lab. (BSL-III) at Sindh Infectious Diseases Control Hospital & Research Centre at Karachi** as per Rule 46(2) of SPP Rules 2010 "Single Stage-Two Envelope Procedure". Bidding Documents containing detailed Terms and Conditions can be viewed/downloaded from <https://portalsindh.eprocure.gov.pk/#/>

Electronic Bids should be submitted through EPADS only. Manual bids shall 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 **28 September 2024 at 12:00 Hrs.** The original instrument of tender fee Rs. 2,000/- (Non-refundable) and bid security @ two percent (2%) of the total bid value along with a hard copy of the technical and financial bid must reach the procuring agency before the deadline for submission of e-bids, which will be opened on the same day at 12:00 Hrs. at the Sindh Infectious Disease Hospital & Research Center, Administration Block, Meeting Hall, at Plot No. ST- 08, Block No. 10, Gulshan-e-Iqbal, Near NIPA Chowrangi, Karachi. In case of conflict between the bid submitted on EPADS and the hard copy, the reference shall be made to the bid submitted on EPADS.

### **Note:**

- a. For any query for e-bidding may contact on Tel # + 92-21-99244711 (Ext. 9014), Email address: [sofia.naz@duhs.edu.pk](mailto:sofia.naz@duhs.edu.pk).
- b. 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.
- c. The purchaser reserves the right to reject any/all bids under the relevant provisions of SPP Rules 2010.
- d. 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**

**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.

<b>Introduction</b>	
<b>ITB 1.1</b>	<b>Name of Procuring Agency:</b> Dow University of Health Sciences, Karachi (DUHS)
<b>ITB 1.1</b>	<b>Project / Scheme / Tender Allocation Amount:</b> PKR. 224.052 million
<b>ITB 1.1</b>	<b>Project / Scheme Allocation Number:</b> <b>ADP 2021-22 Scheme No.:</b> 744
<b>ITB 1.1</b>	<b>Name of Project/Scheme:</b> Establishment of Bio Safety Lab. (BSL-III) at Sindh Infectious Diseases Control Hospital & Research Centre at Karachi
<b>ITB 1.1</b>	<b>Name of Contract:</b> Procurement of Laboratory Equipment / Instruments for the “Establishment of Bio Safety Lab. (BSL-III) at Sindh Infectious Diseases Control Hospital & Research Centre at Karachi”
<b>ITB 2.1</b>	Bids submitted under Joint Venture (JV) / Consortium will not be considered and rejected as ineligible bidder.
<b>ITB 4.1</b>	<b>Name of Procuring agency:</b> Dow University of Health Sciences, Karachi (DUHS)
<b>ITB 6.1</b>	<b>Postal Address:</b> Sindh Infectious Disease Hospital & Research Center, Administration Block, Meeting Hall, at Plot No. ST- 08, Block No. 10, Gulshan-e-Iqbal, Near NIPA Chowrangi, Karachi. Phone No: + 92-21-99244711 (Ext. 9014) Email address: sofia.naz@duhs.edu.pk
<b>ITB 8.1</b>	Language of the bid shall be ENGLISH.

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

<b>Preparation and Submission of Bids</b>	
<b>ITB 13.3 (d)</b>	<p><b>Mandatory Qualification requirements</b></p> <p>Please review the following list of requirements/ documents to be enclosed with the Technical Proposal.</p> <p>These are the “<b>MANDATORY REQUIREMENTS/DOCUMENTS</b>”, 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
<b>1.</b>	<b>PRODUCT EVALUATION</b>	
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 <b>(Form-D)</b> .	
1.3	Catalogue / Brochures / technical data sheet (having complete technical specifications of the offered good).	
1.4	<b><i>Valid Manufacturer Authorization in accordance with ITB Clause 13.3(a):</i></b> Original Equipment Manufacturers (OEM) or OEM’s Authorized Distributors / Sole Agents in Pakistan for last 3 years are allowed to participate in the bidding process.	
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.	
<b>2.</b>	<b>BIDDER EVALUATION</b>	
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	Undertaking on stamp paper of Rs. 100/- to the effect that: 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 (Educational & Training Certificates to be attached) and Workshop <b>(Form-A)</b>	
2.11	The Bid Form & Price Schedule(s) shall be inserted in the Financial Proposal. However, a copy of the same shall be inserted in the Technical Proposal after hiding the amount.	
2.12	List of Installation of quoted equipment or equipment having the better specifications (Documentary evidence must be attached).	
2.13	Income Tax Returns for the last 3 years must be attached as supporting documents for the verification of the turnover <b>(Form-E)</b> .	
2.14	Company Profile	

<b>ITB 14.3 (b)</b>	Spare parts required for <b><u>ten (10) years</u></b> of operation.
<b>ITB 15.1</b>	Amount of bid security <b>shall not be less than 2% of the total bid price</b> 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.
<b>ITB 16.1</b>	Bid validity period shall be <b><u>90 days</u></b>
<b>ITB 18.2 (a)</b>	Sindh Infectious Disease Hospital & Research Center, Administration Block, Meeting Hall, at Plot No. ST- 08, Block No. 10, Gulshan-e-Iqbal, Near NIPA Chowrangi, Karachi. Phone No: + 92-21-99244711 (Ext. 9014) Email address: sofia.naz@duhs.edu.pk
<b>ITB 18.2 (b)</b>	<b>Name of Project / Scheme / Institute / Department:</b> Sindh Infectious Diseases Hospital & Research Centre at NIPA Karachi under Dow University of Health Sciences, Karachi.  <b>IFB/NIT Title:</b> Procurement of Laboratory Equipment / Instruments for the “Establishment of Bio Safety Lab. (BSL-III) at Sindh Infectious Diseases Control Hospital & Research Centre at Karachi”  <b>IFB / NIT No. DUHS/DP/2024/280 Dated 05 September 2024</b>  “Must bear the name of the bidder” and a warning “Do Not Open Before the time and date of bid opening”.
<b>ITB 19.1</b>	<b>Deadline for bid submission:</b> <b>Date: 28 September 2024</b> <b>Time: upto 12:00 Hrs.</b>
<b>ITB 22.1</b>	<b>Date, Time and Place of Bid Opening</b> <b>Date: 28 September 2024</b> <b>Time: 12:00 Hrs.</b> <b>Place:</b> Sindh Infectious Disease Hospital & Research Center, Administration Block, Meeting Hall, at Plot No. ST- 08, Block No. 10, Gulshan-e-Iqbal, Near NIPA Chowrangi, Karachi.

<b>Bid Evaluation</b>	
<b>ITB 25.4</b>	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** in accordance with sub-rule 2 of rule 46 of the Sindh Public Procurement Rules, 2010. In case, any bidder encloses the financial bid within the technical bid, the same shall be rejected summarily.
- (f) The following merit point system for evaluating technical bids/proposals will be applied. Bidders who attain a **minimum of 70% points/marks** will exclusively proceed to the next stage, provided they also fulfill all mandatory requirements. Required documentary evidence must be attached in support of your claim.

### **TECHNICAL EVALUATION CRITERIA**

S#	CRITERIA / PARAMETERS / SUB-PARAMETERS	Total Marks
<b>1</b>	<b>Conformity to the Purchaser's Specifications (Mandatory)</b>	<b>30</b>
1.1	Fully compliant with the required tender specifications (Product demonstration, previous technical/support experience of the product/firm may also be considered for technical evaluation)	30
1.2	Compliant with minor deviation, subject to main function is not affected.	25
<b>2</b>	<b>Manufacturer's Authorization</b>	<b>15</b>
2.1	Bidder is OEM direct representative or the Sole Distributor (not agent/sub- distributor) and has registered branch/Liaison office in Pakistan for 10 years or more.	15
2.2	Bidder is OEM direct representative or the Sole Distributor (not agent/sub- distributor) and has registered branch/Liaison office in Pakistan for 05 years or more.	10
2.3	Bidder is OEM direct representative or the Sole Distributor (not agent/sub- distributor) and has registered branch/Liaison office in Pakistan for less than 5 years.	05
2.4	Sub-Distributors / Spot authorized agent and has registered branch/Liaison office in Karachi - Pakistan for 3 years or more.	03
<b>3.</b>	<b>Product Certification</b>	<b>08</b>
3.1	USA Food & Drug Administration (USA-FDA 510k)	02
3.2	European Community (CE) MDD for specific model or series	02
3.3	Japan Quality Assurance Organization (JQAO) / Japan Industrial Standard (JIS) Ministry of Health, Labour and Welfare (MHLW) Govt. of Japan for specific model or series	02
3.4	ISO 13485 Certification	02
<b>4.</b>	<b>Technical Staff</b>	<b>10</b>
4.1	Diploma of Associate Engineer (DAE) in relevant field (electrical / electronic / biomedical / mechatronics / mechanical / industrial). Copy of DAE certificate must be submitted (1 mark for each)	02
4.2	Graduate Engineer in relevant field (electrical / electronic / biomedical / mechatronics / mechanical / industrial). Copy of Degree must be submitted (2 marks for each)	04
4.3	OEM Certified Resource for quoted equipment / product (02 Marks for each Resource)	04
<b>5.</b>	<b>Past Experience / Performance for supplying the laboratory equipment / instruments to Public / Private Sector Universities / Government / Semi-Government Organization (Provincial / Federal / Local) in Pakistan during the last 5 years. (Documentary evidence in shape of Purchase Order and Installation Report / Satisfactory performance certificate must be attached).</b>	<b>25</b>
5.1	Completing the contracts / projects for supplying the laboratory equipment / instruments valuing Rs. 3 million or above (5 marks for each contract / project).	25

S#	CRITERIA / PARAMETERS / SUB-PARAMETERS	Total Marks
5.2	Completing the contracts / projects for supplying the laboratory equipment / instruments valuing Rs. 2 million or above (4 marks for each contract / project).	20
5.3	Completing the contracts / projects for supplying the laboratory equipment / instruments valuing Rs. 1 million or above. (3 marks for each contract / project)	15
5.4	Completing the contracts / projects for supplying the laboratory equipment / instruments valuing Rs. 0.5 million or above. (2 marks for each contract / project)	10
<b>6.</b>	<b>Average Annual Turnover during last three (03) financial years (Income Tax Return Forms must be attached as supporting documents)</b>	<b>12</b>
6.1	Above PKR 80 million	12
6.2	Above PKR 60 million	08
6.3	Above PKR 30 million	04
6.4	Below PKR 30 million	00
	<b>TOTAL MARKS</b>	<b>100</b>
<b>8.</b>	<b>Bonus points</b>	<b>06</b>
8.1	Free of Cost Comprehensive Extended Warranty including Parts, Services, Labor etc. (in addition to the standard or warranty period required in these bidding documents) (2 marks for each additional year)	06

**ii. Financial Bids / Proposal Evaluation:**

- a. Only those Financial Proposals shall be announced / considered which were technically qualified by the Committee. Therefore, bidders are advised to give separate sealed envelope (s) of every quoted item and should mention the name of the item and tender serial number on the front of the sealed envelope in **BOLD and legible letters** to avoid confusion, otherwise, the Financial Proposal Envelope will be opened on qualified item basis and it will not be challenged by the bidder that procuring agency has opened the Financial Proposal of the disqualified items besides qualified items.
- b. Financial Bids/Proposals of only technically qualified bidders meeting the eligibility criteria shall be opened and considered for further evaluation.
- c. Financial Bids / Proposals of Technically disqualified / rejected / non-responsive bids shall not be opened and sealed envelopes shall be returned to the bidder.
- d. The Financial bids shall be opened in the presence of the Bidders at the scheduled date, time and venue communicated in advance.
- e. Bids not accompanied by the Bid Security of the required amount and form shall be rejected.
- f. 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.
- 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).



<b>Contract Award</b>	
<b>ITB 29.1</b>	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.
<b>ITM 32.1</b>	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.

**Section III.**  
**Special Conditions of Contract**

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## 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:

- 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 \_\_\_\_\_

**Section IV.**  
**Schedule of Requirements**



## Schedule of Requirements

S#	Description of Goods	Qty.	Required Delivery Schedule	Location
01.	As per the details of items attached in <b>Section V – Technical Specifications</b>		Delivery & Installation within 12 weeks or earlier from the date of Contact Award or Establishment of LC.	Sindh Infectious Diseases Hospital & Research Centre at NIPA Karachi under Dow University of Health Sciences, Karachi.

**Section V.**  
**Technical Specifications**

# Technical Specifications

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
<b>01.</b>	<b>Hot Air Oven</b>	<b>01 Unit</b>

Capacity (Metric): 60L-100 L  
 Temperature (Metric): up to 300°C Type: No. of Shelves: 4 shelves.  
 Timer: ON / OFF  
 Controller: Microprocessor with preferably LCD display

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
<b>02.</b>	<b>Refrigerated Incubator</b>	<b>2 Units</b>

Capacity (Metric) 100L-130 L,  
 Material Coated Steel,  
 No. of Shelves >3,  
 Temperature Range (Metric) Rt +5°C to 70°C or better  
 Type Automated Incubator,  
 Door Style Solid outer door & internal glass door,  
 Temperature Accuracy 0.1°C,  
 Timer Range: 0-9999h/min

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
<b>03.</b>	<b>Vertical Autoclave</b>	<b>1 Unit</b>

**Effective Capacity:** ~110 L

**Temp Set Range:**

Sterilization: ~105°C - ~135°C Variable  
 Warming: ~45°C - 80°C Variable  
 Lid Lock: Fixed

Cooling setting: 3 Levels (natural cooling, Pulse cooling, Forced Cooling)

Maximum Working Pressure: ~0.3 MPa

Thermometer: Digital display

Pressure Gauge: Analog display/ Digital 0MPa-0.4MPa

Safety devices: Pressure Safety valve. Over-current and earth leakage breaker. Low water cut off device.

Alarms, Error displays: Low water heating, Temperature sensor wire disconnection, Over-temperature, Over-cool, Over-pressure,

Abnormality in lid opening / closing lever lock.

Pressure vessel category: Small sized pressure vessel

Chamber material: Stainless steel (SUS304/316)

Supplied accessories: Stainless steel wire basket, Bottom plate, Drainage hose, Exhaust hose, Exhaust bottle, Drain bottle, Caster stopper (2)

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
04.	Pharmaceutical Refrigerator	3 Units

Type: Blood Bank Refrigerator,

Defrost mode: auto, Temperature range: 4±1.5,

Controller: microprocessor

display: LED,

Capacity(L):~1300

Door: Double Glass Door

Number of Shelves: 6 -12

Forced Air Cooling

Refrigerant : CFC Free

functions:

Alarm. high/low temperature, power failer, sensor, Temp Recording options etc

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
05.	Microwave Oven	1 Unit

~23L (0.8 Cu.ft.)

Dawlance or equivalent

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
06.	Circulating Water Bath	1 Unit

30 – 40 liter circulating water Bath cover

Microprocessor-based PID controller.

Temperature working range Ambient +5°C-100°C

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
07.	pH meter	3 Units

Parameters: pH, mV(ORP), Temperature, preferably DO, BOD pH Range: -2~20 pH  
Up to 3 pH calibration points  
pH resolutions: 0.1, 0.01 & 0.001 resolutions  
GLP standard  
Measuring range: 0-14, mV Range: +/- 1999mV Temp. Range: -5~135 deg C  
Temp. Sensor: Yes  
Temp. Compensation: Yes  
Temp. Compensation: -5.0 to 135.0°C mV Range: ±1999 mV. mV resolution: 1 mV.  
Temp. resolution: 0.1 deg C.  
With Temp. compensation.  
Measures dissolved oxygen (DO) and biochemical oxygen demand (BOD).  
Up to 60.00 mg/L / 600.0% DO range.  
Compensates salinity, atmospheric pressure, and temperature effects in DO.  
Up to 2 DO calibration points.  
Compatible with galvanic DO electrodes.  
-30.0 to 130.0°C temperature range with calibration option.  
Auto stable, auto hold, and real time measurement modes. Electrode status, temperature, and reading stability indicators on screen of data storage capacity. interface: USB. includes: one-in-three PH combination electrode + standard buffer.  
Pre-programmed 5-day BOD method with seed correction option.

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
08.	Hotplate Magnetic Stirrer	1 Unit

Temperature range: 5°C to 550°C  
Stirring speed: upto~2000 RPM  
Digital LED temperature and stirring display  
capacity 2L-5L  
dimension: approx. ~206x~307x~99mm  
Ceramic-coated aluminium plate 180x180mm  
Accessories: 1x Main unit, 1 x Stirring bar, 1 x Power Cable, 1 x Bracket, 1 x Fuse, 1 x Temperature Probe, 1 x User Manual

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
09.	Micro-Incinerator	1 Unit

High-temperature 900°C ± 50°C  
 Angle 21°-90, Max. Sample Diameter 14mm  
 Power 200w compatible to use in BSC II and BSC III.

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
10.	Analytical Balance	1 Unit

Weighing capacity: 200+ g  
 Sensor: Load cell  
 Minimum weighing: 0.001 g  
 Resolution: 0.001 g  
 Stable time: ≤ 3 S  
 Display: LCD  
 Repeat ability ±0.002 g  
 Liner ± 0.003 g  
 Draft shield size: ~177 x ~173 x ~205 mm

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
11.	Pipette Aid	4 Units

Accept 1 to 100ml pipettes  
 Battery: 9 volt Ni-MH  
 CE marked

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
12.	<b>Micropipette Set – Research Grade</b>	<b>4 Units</b>

2-10 µL, 10-100 µL, 100-1000 µL and 1000-5000 µL.

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
13.	<b>Compound Microscope with Camera Attachment and LCD</b>	<b>2 Units</b>

Trinocular, sturdy, stable base body with focus adjustment controls.

- Eye piece: Paired, high quality, achromatic, wide field, 10x FN 25mm with inbuilt pointer.
- Optical system should be infinity corrected.
- System complete with illumination system is required.
- Objective: Three objectives 10x, 40x, 100x. 10x and 40x objectives should have numerical apertures of 0.25 and 0.65 respectively. 100x should have numerical aperture of 1.25.
- Nose piece: Revolving nose piece to accommodate a minimum of three objectives with click stops. It should be provided with ribbed grip for easy rotation mounted on a precision ball bearing mechanism for smooth and accurate alignment.
- Stage uniformly horizontal, mechanical stage. The stage should be provided with spring loaded slide holder for exact positioning of specimen/ slide. The stage should allow smooth travel in transverse directions.
- The system should have a built-in variable light source (Illuminator). LED source
- All consumables required for installation and standardization of system and microscope cover.
- Camera 20MP or Better with standard software

Critical spares should be quoted separately as optional.

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
14.	<b>Automated Mycobacterial Detection System</b>	<b>1 Unit</b>

36" Wide x 53" High x 28" Deep

Weight equals 794 pounds fully loaded.

Clearance: 4" on all sides except front which requires 48" for open drawer access (4" clearance in back can be utilized by instrument counterweights).

Ambient Temperature: 19°C to 30°C, 66.2°F to 86.0°F

Humidity, 30% to 80% R.H.,

Non Condensing.

Input Voltage: 100 to 117/220 to 240 volts AC ± 10%

Input Current: <15.0 amps, nominal @ 115 VAC

Input Line Frequency: 50/60 Hz ± 3% Hz Requires a dedicated line. Amps vary based on configuration,

input voltage and frequency. Instrument plus printer plus PC

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
15.	<b>Mycobacterium Tuberculosis Detection System</b>	1 Unit

**Mycobacterium Tuberculosis Detection Via GeneXpert MTB Rif Assay Ultra OR Equivalent**

Detection Category: Biological  
 Detection Principle: Molecular; Molecular Spectroscopy;  
 Detection Method: Polymerase Chain Reaction; Fluorescence;  
 PHYSICAL DIMENSIONS: Approximately 27.90 cm W x 30.50 cm H x 29.70 cm D  
 OPTICS: 10 or more (Dye detection limit < 1) nM REACTION SITE THERMAL CONTROLS:  
 Solid state heater and forced-air cooling at each site • Reaction chamber thermistors calibrated to ± 1.0°C using National Institute of Standards and Technology (NIST)-traceable standards  
 • Up to 16 independently-controlled reaction sites  
 CARTRIDGES  
 Single-use disposable cartridges Polypropylene construction PERFORMANCE PARAMETERS:  
 1. Heating ramp rates (max.): 10°C/sec from 50°C to 95°C  
 2. Cooling ramp rates (max.): 2.5C/sec from 95°C to 50°C  
 3. Temperature duration accuracy: ± 1.0 sec from programmed time  
 Temperature accuracy: ± 1.0°C from 60°C to 95°C  
 Melt curve programmable ramp rates: 0.01°C/sec to 1.0°C/sec  
 4 module instrument  
 6 Module system

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
16.	<b>Shaking Refrigerated Incubator</b>	1 Unit

Operating Temperature Range °C: 5°C to 60°C,  
 Temperature Uniformity °C: ±0.1°C at 37°C in flask,  
 Orbit (in./cm): 0.75/1.9,  
 Speed Range-RPM: 15 to 500 ±1 rpm (unstacked) 15 to 300 ±1 rpm (stacked),  
 Clamps:  
 100 (15x), 250ml (10x), 500-1L (6x), 2L (4x).

**Country of Origin:** USA/EU/JAPAN/UK. Other countries will be accepted if a minimum of 10 units of quoted equipment/ instruments are installed in Pakistan, meeting all the standards and specifications. A list of installations must be provided with documentary evidence.



Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
17.	<b>Water Bath with Magnetic Stirrer</b>	<b>1 Unit</b>

20-liter water Bath laboratory With Magnetic Stirrer  
 4-6 Individually stirring positions.  
 Microprocessor based PID controller.  
 Stirring speed adjustable from 300 to 1500rpm  
 (Medium solution: water)  
 Temperature working range Ambient +5°C-100°C  
 Stability (at 37°C) ±0.1°C

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
18.	<b>Refrigerated Fixed Angle High Speed Centrifuge with 1.5/2.0ml, 15mL and 50mL Rotor</b>	<b>5 Units</b>

SPEED up to 15,000rpm  
 TEMPERATURE RANGE: -10°C to 40°C  
 RUNNING TIME 59min 50s / 10s increments or 99h 59min / 1min increments  
 Features and functions

- Brushless induction drive
- Microprocessor control
- Active imbalance detection and cut-off
- Automatic rotor identification system with over speed protection
- Audible signal at the end of each run
- Emergency lid lock
- Stainless steel chamber
- CFC-free refrigeration system (-10° to +40°C)
- Program memory for 99 programs
- Quick key for short runs
- Pre-cooling program
- Standstill cooling
- 10 acceleration and 10 deceleration rates, possibility of unbraked deceleration
- Permanent indication of preset and actual values
- Pre-selection of speed or RCF in steps of 50/10 increments
- Pre-selection of running time from 10 sec to 99h 59min or continuous
- Simple one-handed operation

Rotor with adapters for the below

- Max. volume: 6 x 50ml Max.
- Max. volume: 30 x 15ml Max.
- Max. volume: 12 x 1.5 /2.0ml.
- Max. volume: 30 x 1.5 /2.0ml

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of

same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
19.	Micro Centrifuge	1 Unit

Capacity: 24 x 1.5/2 mL  
 Max. RCF: ~21,100 x g  
 Type: Benchtop Centrifuge  
 Includes: 24 x 1.5/2.0mL rotor with biocontainment lid  
 Electrical Requirements: 230 V 50/60 Hz  
 Refrigerated: Yes  
 Run Time: 1 to 99 min. (1 min. increments); HOLD

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
20.	Vacuum Filtration	1 Unit

**Pump:**

- ▶ Max. power: 90 W
- ▶ Max. current: 0.5 A
- ▶ Max. vacuum: 99 mbar abs.
- ▶ Max. flow rate: ~30 L/min
- ▶ Noise level: 52 dB
- ▶ Dimension (L\*W\*H): ~27 x ~11 x ~18 cm Filtration Apparatus:

**Specification:**

- ▶ Funnel capacity: ~1000 mL
- ▶ Bottle capacity: ~5000 mL

**Material:**

- ▶ Funnel – Borosilicate glass
- ▶ Support base – Borosilicate glass
- ▶ Membrane support – SS316
- ▶ Clamp – Aluminum
- ▶ Stopper – Silicone rubber (No.8)
- ▶ Filtration adaptor – PP (Autoclavable)
- ▶ Storage bottle – Borosilicate glass

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
21.	<b>Thermocycler</b>	1 Unit

Block Format: 96-well, 0.2ml.  
Sample block type : Fixed.  
Heating and cooling method: Peltier.  
Max block ramp rate: 3.5°C/sec.  
Max sample ramp rate: 3-5 °C/sec.  
Temperature accuracy: ±0.25°C (35–99.9°C).  
Temperature range: 0-100.0°C.  
Temperature uniformity: <0.5°C well to well within 5-10 sec of arrival at 90°C.  
PCR Vol: 96x 0.2ml tuber or 1x 96 well plate.  
Memory: backup.  
Touch-screen display: Yes.  
Programming options: step-based graphical and automatic.  
Connectivity: to Wi-Fi or USB port.  
Security features: password protected.  
Auto restart after power failure.  
Lid type automated.

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
22.	<b>RT-PCR</b>	1 Unit

1. Flexible format

- Interchangeable blocks: Yes, block change user friendly without tools.
- Block Configuration: 96-well, 96-well Fast, 384-well, probe based PCR cards compatible.
- Block change design: Block change from front in less than 1 minute, no tools required.
- Run time:30 min (96-well Fast), 35 min (384-well).
- Upramp rates: 3.5-4°C/sec (96-well), 6.5°C/sec (96-well Fast), 3.5°C/sec (384-well), 4.3°C/sec (TAC).
- Downramp rates: 3.6°C/sec (96-well), 6.0°C/sec (96-well Fast), 3.0°C/sec (384-well), 3.7°C/sec (TAC).
- Well-to-well variability: ±max 0.3.
- Excitation source: OptiFlex System lamp.
- Detection channels: Excitation 455–672 nm Emission 505–723 nm.

2. Efficiency and productivity:

- Multiplexing: 6 (21 filter combination)
- Intuitive touchscreen: yes
- Automation compatible: Yes
- Remote monitoring: yes

3. Maximize Uptime:

- Minimal calibration for easy maintenance: Yes

4. Support:

- Remote desktop support capability.
- Optional to be quoted Features to assist with 21 CFR part 11 compliance: Yes

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
23.	Vertical Electrophoresis with Power Pack	1 Unit

No. of Gels: 2

cassette size: 9-10 x 8-9cm

Glass plate size: Short plate : 10-11 x 7-8 cm

Spacer plate: 10-10.5 x 8-9 cm

Total buffer volume: upto 1000 ml

Typical run time: up to 45 minutes It Should be supplied with combs (various sizes), glass plates, Casting stands, casting frames, sample

loading guide, electrode assembly, tank, lid with power cables, buffer dam.

**POWER PACK:**

Voltage: 10-300 volt Power: 75-100 watt Timer : 1- 999 minutes.

Western blotting option

Output should be provided for 4 sets in parallel, LED display etc. The power pack should have: No load detection, sudden load change detection, overload and short circuit detection, over load protection.

Constant voltage and constant current output.

The capability to pause and resume the electrophoresis run.

8x spare short plates provided with the system

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
24.	Horizontal Electrophoresis with Power Pack	1 Unit

Mini Horizontal Electrophoresis System

Cell size: 9-10 x 25-27 x 5-6cm

Sample Through put : 8 – 30

Base buffer volume : 270-300ml ml

Gel Tray Size: 7-8 x 10 cm

Should be supplied with gel caster, UV-transparent plastic tray with compatible size, combs: at least with 8 & 15 well,

**POWER PACK**

Voltage: 10-300 volt

Current: 4-400 mA Power : 75-100 watt

Timer : 1- 999 minutes.

Output should be provided for 4 sets in parallel, LED display etc. The power pack should have: No

load detection, sudden load change detection, overload and short circuit detection, over load protection.

Constant voltage and constant current output

The capability to pause and resume the electrophoresis run

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
25.	Gel Doc	1 Unit

Supported stain: Protein gels: stain-free gels, oriole fluorescent gel stain, silver stains, coomassie blue stains, coomassie fluor orange stain, SYPRO Ruby stain.

Nucleic acid gels: Ethidium bromide, SYBR Green, SYBR safe, SYBR glod, Gel red stain, gelgreen stain, flast blast DNA stain, UVView stain blots: Stain-free blots, colorimetric blots, ponceau S stain.

Smart tray technology, auto-focus, auto-exposure, touchscreen functionality, Detector 6 MP CMOS or better, Pixel size 2.4 x2.4 um or better, depth

(gray levels) 65.536, dynamic range: > 3.5 orders of magnitude, excitation source trans-UVB (standard)

Epi-white (standard) transwhite (with option white tray), trans-blue (with optional blue tray), emission

filter 535-645nm filter, data output 16bi or 8bit: SCN, TIFF, JPEG image files,

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
26.	Spectrophotometer with Nanodrop, Cuvette and Microplate Reading Provision	1 Unit

Monochromator-based detection, with a freely adjustable selection of wavelengths from 200 nm to 1,000 nm (in 1 nm steps).

Compatibility with 96- and 384-well microplates (with and without lids), cuvettes, and  $\mu$ Drop Plate, a 16-well reusable plate for microvolume DNA, RNA, and protein quantification.

Touchscreen: yes

Connectivity: USB port, Wi-Fi

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
27.	Microplate Shaker	1 Unit

Type: Digital microplate shaker.  
Orbit 2.5 mm,  
Speed control accuracy: 1 rpm,  
speed range:150 to 1200 rpm,  
Dimension:~380x ~260x ~145  
Digital or Analog microplate shaker.

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
28.	Benchtop Centrifuge	2 Units

Capacity: ~24 x 1.5/2 mL  
Max. Speed: ~14,000 rpm  
Type: Benchtop Centrifuge  
Includes: 24 x 1.5/2.0mL rotor with biocontainment lid  
Refrigerated: Yes  
Run Time: 1 to 99 min. (1 min. increments); HOLD

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
29.	Sonicator	1 Unit

Voltage: 220V, 50 Hz  
Power Rating: should be able to deliver up to 700 watts of output power  
Frequency of generated sonication wave: 20 khz or more  
Sonication probe: Standard probe of ½” diameter with replaceable tip  
Touch screen control panel with color LCD/LED screen clearly displaying all operating parameters and options that should enable the easy access to all the parameters and functions of the sonicator  
The System should have full amplitude control (1-100 %) for effective processing of the sample  
The System should run in pulse mode with adjustable pulse On and Off times  
Pulse On/Off time should be adjustable to 1 second to an hour or more  
Total Energy delivered to the probe should be displayed.  
Should have programmability and memory to save the Parameters including processing Times, pulse on/off and amplitude that can be run by the touch of a button  
The unit should be equipped with overload protection  
Replacement wrench set should be supplied with the machine.  
Accessories  
A high throughput probe of 24-tip horn or more to process large no of samples at a time

Additional Microtip probes of 1/4 inch diameter and 1/8 inch diameter to process small volume samples  
 One replacement tip for standard horn (1/2")  
 Sound enclosure to house the sonicator horn  
 Jack stand for height adjustment of the sample

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
30.	Transilluminator	1 Unit

Intensity single, wavelength 365nm 302nm and white light, watt 8-9, filter size 20x20 each, approx. 280x360x143mm

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
31.	Heat Block	1 Unit

Temperature range: ~50-150  
 Test tube BOD application  
 Temperature accuracy: ±0.1  
 Temperature display: LED display  
 Time setting [min]: 1~9959 / off  
 Number of heating block (Holes): 1.5ml Eppendorf x 20

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
32.	Vortex	1 Unit

Speed Range: ~200 to 3000 rpm  
 Product Type: Digital Vortex Mixer  
 Frequency: 50/60 Hz  
 Material: Rubber, Plastic Platform  
 Dimensions :(L x W x H): ~8.1 x ~5.9 x ~5.2 in.  
 Operating Modes: Touch, Continuous

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of



same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
33.	<b>Analytical Balance</b>	<b>1 Unit</b>

Weighing capacity: 110 g  
 Sensor: Load cell  
 Minimum weighing: 0.004 g  
 Resolution: 0.001 g  
 Stable time: ≤ 3 S  
 Display: LCD (white back light with black font)  
 Pan size: Φ 90 mm  
 Operation temp: 5-25 °C  
 Repeat ability ±0.002 g  
 Liner ± 0.003 g  
 Draft shield size: 177 x 173 x 205 mm

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
34.	<b>CO2 Incubator</b>	<b>2 Units</b>

1. Capacity: 150L-170L
2. No: of shelves: 3 - 5
3. Co2 range: 0.2-20%, with ±0.1% control
4. Co2 stability at 5% Co2: ±0.2% stability.
5. Inlet pressure: 0.8-1 Bar
6. CO2 sensor type: TC/IR
7. Temperature range: 4°C above ambient to 50°C with temp control: ±0.1°C
8. Temp stability at 37°C: ±0.1°C
9. Six-Sided Direct Heating to ensure stable temperature control.
10. Oxygen Measure and control range: 1 to 21 %, ±0.1% control
11. Oxygen sensor type: Zirconium oxide
12. Humidity: constant humidity: 95±3, Fill amount water: max 3L
13. Interior Chambers: Stainless steel Shelves, fan Impeller: Stainless steel
14. Door Style Solid outer door & internal glass door
15. High-Temperature Decontamination or sterilization Mode to simplify Maintenance. The system should be able to use 90°C/121°C heat or dry heat to decontaminate the chamber, all internal sensors, racks & humidity pan.
16. Large Display & Intuitive Controls Simplify Operation. Features help text, real-time data graphing, programmable alarms.
17. HEPA Filter on CO2 Inlet to provide added protection from potential contamination sources.
18. Fanless design & Ductwork to increase usable chamber space & simplified cleaning. Gentle, fanless convection circulation to provide perfect chamber homogeneity, and to eliminate vibration & reduced sample evaporation.



19. Suitable Servo Voltage Stabilizer, Co2 gas cylinder with 30kg Co2 gas, Two-Stage ISI mark CO2 Gas Regulator should be supplied along with instrument.
20. Optional Stacking kit to stack 2 units one upon another.
21. Comprehensive Two-Level Alarm System to include audio and screen-displayed alarms for system status, with programmable alarms for CO2 and temperature set points, delays & duration. Password Protection to ensure the integrity of all programmable system settings.

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
35.	Fluorescence Microscope with LCD	1 Unit

Observation Method:

Brightfield, Darkfield, Phase Contrast, Fluorescence (Blue/Green excitations).

Illuminator:

Transmitted kohler illuminator: LED LAMP

Fluorescence Illuminator: 100 W Mercury Lamp, Light guide

Illumination

Focusing mechanism: Stage Focus.

Intermediate magnification: Manuel terret.

Revolving Nosepiece: (6 positions), infinite plan florescent objectives 4x, 10x, 40x, 100x.

Stage:

Manual stages with Right-Hand Control X: ~75mm, Y: ~52mm.

Mechanical: Oil rectangular Stage with Right-Hand control.

Condenser:

Swing out condenser: NA 0.9/ 0.25

Observation Tubes: Widefield (FN 22)

Trinocular

Cool CCD Florescent Camera 10MP or better with standard software

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
36.	Compound Microscope	1 Unit

Binocular, sturdy, stable base body with focus adjustment controls.

- Eye piece: Paired, high quality, achromatic, wide field, 10x FN 25mm with inbuilt pointer.
- Optical system should be infinity corrected.
- System complete with illumination system is required.
- Objective: Three objectives 10x, 40x, 100x. 10x and 40x objectives should have numerical apertures of 0.25 and 0.65 respectively. 100x should have numerical aperture of 1.25.
- Nose piece: Revolving nose piece to accommodate a minimum of three objectives with click stops. It should be provided with ribbed grip for easy rotation mounted on a precision ball bearing mechanism for smooth and accurate alignment.

- Stage uniformly horizontal, mechanical stage. The stage should be provided with spring loaded slide holder for exact positioning of specimen/ slide. The stage should allow smooth travel in transverse directions.
- The system should have a built-in variable light source (Illuminator). LED source

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
37.	<b>Ultracentrifuge with Fixed Angle Rotor</b>	<b>1 Unit</b>

Max speed: ~100,000 rpm

Drive type cooling: Variable Frequency Induction Drive with rotor overspeed ID.

Temperature range: -10-40°C in 1°C increments. Display: LCD/touch screen

Fixed Angle Rotor 250ml \*6

Features and functions

- Brushless induction drive
- Microprocessor control
- Active imbalance detection and cut-off
- Automatic rotor identification system with over speed protection
- Audible signal at the end of each run
- Emergency lid lock
- Stainless steel chamber
- CFC-free refrigeration system (-10° to +40°C)
- Program memory for 99 programs
- Quick-key for short runs
- Pre-cooling program
- Standstill cooling
- 10 acceleration and 10 deceleration rates, possibility of unbraked deceleration
- Permanent indication of preset and actual values
- Pre-selection of speed or RCF in steps of 50/10 increments
- Pre-selection of running time from 10 sec to 99h 59min or continuous
- Simple one-handed operation
- Also provide the autoclavable tubes, rotor of all sizes of ultracentrifuge

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
38.	<b>Inverted Microscope with Camera Attachment and LCD</b>	<b>1 Unit</b>

Objective: 4x, 10x, 20x, and 40x.

Observation Method: Fluorescence (Blue/Green Excitation), Fluorescence (Ultraviolet Excitation), Phase Contrast, Brightfield.

Quintuple Revolving Nosepiece:

Camera:20MP or better with standard Software  
 Manual, Build in, 5 positions.  
 Observation tubes: Widefield: Trinocular.  
 Illuminator: Transmitted illuminator: LED lamp. Fluorescence Illuminator:  
 100 W Mercury Lamp, Light Guide Illumination.  
 Stage: Manual: Plain Stage  
 Condenser: Manual: Ultra-Long Working Distance Condenser

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
39.	Vacuum Flask/ Aspiration Device	1 Unit

Dimensions: ~25 x ~18 x ~45 cm, Collection bottle, lid, tubing, and connectors autoclavable, replaceable hydrophobic filter, built-in pump, polypropylene construction  
**CE Marked**

**Country of manufacturer:** USA/EU/JAPAN/UK/China or Equivalent

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
40.	Virus Counter	1 Unit

Dimensions (W × D × H): ~43 cm × ~52 cm × ~28 cm  
 Weight: 13.2 kg (29 lbs)  
 Linear dynamic range of  $5 \times 10^5$  vp/ml –  $1 \times 10^9$ vp/ml  
 Enveloped and non-enveloped virus detection  
 Detection of large (Baculovirus, 30 to 60 x 250 to 300 nm) and small (AAV, 20 nm) viruses

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
41.	IVC Racks	1 Unit

Single Side Individual Ventilated Cages Seal Safe Rack Complete with 24 Cages for rat and mice  
 Included following:

- a) H. Temp Polysulfone Cage body (20)
- b) Filter Top (20)
- c) Stainless Steel LID (20)
- d) Polysulfone Water Bottle
- e) S/S Bottle Cap

- f) Flexible Inline Rack Interconnection Kit
- g) Universal Easy Flow Air Handling Unit for all IVC Racks

Ventilator unit, flexible hose pipe, silicon end caps, supply, and exhaust HEPA prefilter, Ethernet port for data download and communication with computer, External Exhaust System for IVC:  
 External Exhaust blower unit with filter box unit (HEPA + Carbon filter) + Motorized operating valve with fittings. exhaust pipe for Connecting with external exhaust system  
**Standards and Certification:** ISO 13485

**Country of manufacturer:** USA/EU/JAPAN/UK/China or Equivalent

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
42.	<b>Weighing Balance</b>	<b>1 Unit</b>

1x 1.15 Feet platform,  
 digital screen,  
 capacity up to 50kg,  
 accuracy 0.01gm

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
43.	<b>Freezer -80° C</b>	<b>2 Units</b>

Vertical  
 Capacity(L): ~600L  
 temperature range: ~ -40 to -86,  
 Ambient temperature:16-32°C  
 Cooling performance: -86°C  
 Climate class: N  
 Controller: Microprocessor  
 Display :LCD  
 Compressor: dual Stage compressor  
 Cooling method: Direct cooling  
 Defrost mode: Manual  
 Refrigerant: Mixture gas  
 Insulation thickness(mm): L/R: 130, B: 130  
 External material: Powder Coated  
 Shelves Inner Doors: 3/4  
 Door lock with key: Yes  
 External lock: Yes  
 Casters: 4+(2 leveling feet)  
 Data logging/Interval/Memory capacity USB/Record every 5 minute / 10 years  
 Backup battery Yes

**Alarm**

Temperature: High/Low temperature, High ambient temperature Electrical: Power failure, Low battery

**Standards and Certification:** ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD

93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) any one for specific quoted model/Series.

**Country of manufacturer:** USA/EU/JAPAN/UK/China or Equivalent

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
44.	Freezer -40° C	1 Unit

Vertical,  
 Capacity(L): ~500L  
 temperature range: ~ -20 to -40,  
 Working Environment: Ambient temperature:16-32°C  
 Cooling performance: -40°C  
 Climate class: N  
 Controller: Microprocessor  
 Display : LCD  
 Compressor: lpc  
 Cooling method: Direct cooling  
 Defrost mode: Manual  
 Insulation thickness(mm): L/R: 130, B: 130  
 Inner material: Stainless steel  
 Drawers: 10  
 Door lock with key: Yes  
 External lock: Yes  
 Casters: 4+(2 leveling feet)  
 Data logging/Interval/Memory capacity USB/Record every 5 minute / 10 years  
 Backup battery Yes

**Alarm**

Temperature: High/Low temperature, High ambient temperature Electrical: Power failure, Low battery

**System**

Sensor failure, Main board communication error, Condenser overheating

**Standards and Certification:** ISO 13485, 510(k) FDA (Food & Drug Administration) / European MDD 93/42/EEC (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare) any one for specific quoted model/Series.

**Country of manufacturer:** USA/EU/JAPAN/UK/China or Equivalent

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
45.	Fumigator (Hydrogen Peroxide)	1 Unit

Portable  
 H2O2 vol: 1-2 L  
 Injection Rate: ≥25g/Min  
 Control Mode: Touch Screen/LCD Display  
 Alarm: Sound and Light  
 Continuous Working: 3 Hours  
 Sterilant 8-10% H2O2 solution  
 Monitoring: RH, Temperature, H2O2 concentration  
 Data Record: Yes  
 Cable, remote control: Yes

**Country of Origin:** USA/EU/JAPAN/UK. Other countries will be accepted if a minimum of 10 units of

quoted equipment/ instruments are installed in Pakistan, meeting all the standards and specifications. A list of installations must be provided with documentary evidence.

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
46.	<b>Stability Chamber</b>	<b>1 Unit</b>

Stability Chamber with 3 position illumination cassettes ICH Complaint US/VIS Light Source  
 Advance preheating Chamber Technology  
 Capacity : 240L  
 Temperature range: 0°C to 70°C.  
 Temperature range without illumination cassettes: 0°C to 70°C.  
 Temperature range with 100% illumination cassettes: 0°C to 70°C.  
 Heat Dryer  
 Humidity Regulation with capacitive humidity sensor and vapour humidification  
 Humidity Range RH 10-80%  
 Inner Chamber : Stainless Steel  
 Software Multi task Management Software  
 Controller: intuitive Touch Screen with time management and real time programming  
 Internal Data logger, data can be collected through USB  
 3 Stainless racks  
 Unit self test for comprehensive status analysis.  
 Independent temperature Safety device (DIN 12880) with visual and Audible temperature alarm  
 Digital Dual LED, 0.1 C steps readability and set ability  
 Program: Single set point, ramp & soak (to 40 steps)  
 Temp. uniformity @ 20° to 37°C  
 Temp. stability @ 20° to 37°C ≤ ±0.1°C  
 Water consumption / specification: Max. 12L per day / 3 gal per day;  
 Relative humidity range: Above ambient to 95% @ 37°C (98.6°F) ±5.0%  
 RH

**Country of Origin:** USA/EU/Japan/UK. Other countries will be accepted if a minimum **10 installations** (A list of installations must be provided with documentary evidence) of the similar or better model of same brand in Pakistan besides complying with 510(k) FDA (Food & Drug Administration)/ European [MDD 93/42/EEC] (Medical Device Directive) / Japanese MHLW (Ministry of Health, Labor & Welfare)/ ISO 13485 for quoted model/series (anyone).

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
47.	<b>Liquid Nitrogen Container (Dewar)</b>	<b>1 Unit</b>

Liquid Nitrogen Volume (L): 130-150  
 No. of Rack: 6-8  
 2ml Storage Vials (100/box): 4800  
 Layers in Rack: 6-8  
 5ml Storage Vials (81/box): 1944  
 Layers in Rack: 4  
 Liquid Nitrogen Volume (L): 130-150  
 Static Evaporation Rate\* (%/d): 0.9-0.94  
 Static Holding Time\*\* (Day): 130- 154

**Country of manufacturer:** USA/EU/JAPAN/UK/China or Equivalent

Item No.	Name of Goods, Technical Description, Specifications and Standards	Required Quantity
48.	Liquid Nitrogen Self-pressurized tank	1 Unit

Liquid Nitrogen Volume (L): 200-250

LN2 Output (L/Min): 6-8

Static Evaporation (L/Day): 2.4-2.9

With accessories

Cryogenic Gloves & Aprons

Cryo boxes

**Country of manufacturer:** USA/EU/JAPAN/UK/China or Equivalent

**SPECIAL NOTE:**

1. Demonstration / Site visit must be arranged within 03 days on the request of Dow University of Health Sciences, Karachi (DUHS).
2. DUHS may reject the bid/or part of it, if previous experience in term of supplies and service is not satisfactory.
3. 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.
4. All accessories and utilities required for commissioning must be provided, the manufacturer shall ensure the availability of all spares and accessories minimum for the next 10 years.
5. **Warranty:** Goods must be quoted with 05 Years comprehensive warranty including service, labour, spare parts, from the date of installation of the goods.
6. **Documentation:** Operational, installation, maintenance/ service manuals must be provided at the time of installation of the equipment/instruments.
7. Prices of all consumables, accessories and optional hardware must be quoted separately.
8. 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.

**Section VI.**  
**Sample Forms**



## Sample Forms

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# 1. 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 \_\_\_\_\_

2. (A) **PRICE SCHEDULE IN PAK RUPEES**  
**Delivered Duty Paid (DDP BASIS)**

**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	Total Price
1	2	2	4	5	6	7	8	9
<b>Total Amount in Pak Rs. on DDP Basis</b>								

Name \_\_\_\_\_

In the capacity of \_\_\_\_\_

Signed \_\_\_\_\_

Duly authorized to sign the Bid for and on behalf of \_\_\_\_\_

Date \_\_\_\_\_

**2. (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
<b>Total Amount in Foreign Currency</b>										

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.

## 2. 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]*

### 3. 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)

# 1. 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]*

## 2. 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

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*[name of bank or financial institution]*

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*[address]*

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*[date]*



### 3. 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:

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*[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.

#### 4. 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]

**(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 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 - E)**

**FINANCIAL EVALUATION SHEET**

<b>Year</b>	<b>Annual Turnover for the last 3 years Year (PKR)</b>
Year 2021	
Year 2022	
Year 2023	
<b>TOTAL</b>	
<b>Average Turn-over in 3 years</b>	

<b>Financial Information in PKR</b>	<b>Year 2021</b>	<b>Year 2022</b>	<b>Year 2023</b>
Total Assets (TA)			
Total Liabilities (TL)			
Current Assets (CA)			
Current Liabilities (CL)			
Total / Gross Revenue (TR)			
Profits Before Taxes (PBT)			
Net Profit			
Current Ratio			

<b>Supporting Document</b>	<b>Yes / No</b>	
Income Tax Returns	Year 2021	
	Year 2022	
	Year 2023	

