

ABDUL WALI KHAN UNIVERSITY MARDAN

“Purchase of Lab Equipments for Department of Microbiology and Medical Lab Technology”

RE-TENDER NOTICE

The Abdul Wali Khan University Mardan invites sealed bids on the basis of “**Single Stage Two Envelopes Procedure**” for the work namely “**Purchase of Lab Equipments for Department of Microbiology and Medical Lab Technology**” under the project titled “Strengthening of Abdul Wali Khan University Mardan” funded by Higher Education Commission (HEC) from the Original Manufactures/Sole/Authorized Distributors/Suppliers registered with FBR, in Active Tax Payers List (ATL) of Federal Board of Revenue (FBR) as per the following detail:

Description	QTY	Pre-Bid Meeting Date	Issuance of Bidding Documents	Bids Submission Date and Time	Technical Bids Opening Date
Purchase of Lab Equipments for Department of Microbiology and Medical Lab Technology	Detail given in SBD	25-11-2024 at (12:00 P.M)	Up to 10-12- 2024	10-12-2024 till (01:00 P.M)	10-12-2024 at (02:00 P.M)

Terms & Conditions:

1. The eligible firms/companies are required to submit two separate sealed envelopes i.e. one envelope containing Technical information of the bidder clearly marked as **Technical Bid** while the second envelope containing bid price, clearly marked as **Financial Bid**, accompanied with Earnest money/Bid security @ 2% of quoted Bid Cost including stamp duty in favor of the Treasurer Abdul Wali Khan University Mardan in shape of Call Deposit/Bank Guarantee (in original) from any scheduled bank of Pakistan.
2. The “**Technical bid**” of the firm/company will be evaluated in accordance with the evaluation criteria as provided in the standard bidding documents. The Financial bids of only those firms shall be

opened and allowed to participate in the tendering process declared qualified by the Technical Committee

3. Bidders must quote all prices as C&F bases.
4. Payment shall be made through Letter of Credit on C&F basis in USD directly to the Principal/Manufacturer by the university.
5. A complete set of standard bidding documents may be purchased from office of the undersigned on submission of written application upon payment of a non-refundable fee amounting to Rs. 2,000/- to be deposited in the Treasurer Abdul Wali Khan University Mardan.
6. The standard bidding documents can also be downloaded from the websites, www.awkum.edu.pk, www.kppra.org.pk, www.ppra.org.pk, however in this case, the firms have to attach a Demand Draft/Pay order OR deposit slip of Rs.2,000/- in favor of Treasurer Abdul Wali Khan University Mardan with the Technical Bid.

PROCUREMENT OFFICER

Abdul Wali Khan University Mardan Khyber Pakhtunkhwa, Pakistan

[Ph.: 0937-920868](tel:0937-920868)

procurement@awkum.edu.pk

STANDARD BIDDING DOCUMENT (SBD)

FOR

PURCHASE OF LAB EQUIPMENTS FOR PURCHASE OF LAB EQUIPMENTS FOR DEPARTMENT OF MICROBIOLOGY AND MEDICAL LAB TECHNOLOGY ON SINGLE STAGE TWO ENVELOPE BASIS AT ABDUL WALI KHAN UNIVERSITY MARDAN



Tender Enquiry No:-----

Bids Due On: -----

Employer's Signature: _____

Bidder's Signature: _____

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Part One - Section I.

Instructions to Bidders

Notes on the Instructions to Bidders

This section of the bidding documents provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring agency. It also provides information on bid submission, opening, and evaluation, and on the award of contract.

Part One Section I contains provisions that are to be used unchanged. Part Two Section II (Bid Data Sheet) consists of provisions that supplement, amend, or specify in detail information or requirements included in Part One Section I and which are specific to each procurement.

Matters governing the performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are not normally included in this section, but rather under Part one Section II, General Conditions of Contract, and/or Part Two Section III, Special Conditions of Contract. If duplication of a subject is inevitable in the other sections of the document prepared by the Procuring agency, care must be exercised to avoid contradictions between clauses dealing with the same matter.

These Instructions to Bidders will not be part of the contract.

Employer's Signature: _____

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Instructions to Bidders

A. Introduction

1. Source of Funds

- 1.1 The Procuring agency has 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 The funds referred to above in addition shall be “Public Fund” which according to 2 (l) of KPP Rules 2014 means (i) Provincial Consolidated Fund; (ii) foreign assistance; (iii) all moneys standing in the Public Account; and (iv) Funds of enterprises wholly or partly owned or managed or controlled by Government.
- 1.3 Payment by the Fund will be made only at the request of the Procuring agency and upon approval by the Government of Khyber Pakhtunkhwa., 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/ Khyber Pakhtunkhwa 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 KPP Rules, 2014 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 Khyber Pakhtunkhwa 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 Khyber Pakhtunkhwa.
- 2.4 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 the Section 44(1) KPP Rules 2014.

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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 of the world with whom the Islamic Republic of Pakistan has commercial relations 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.

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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 Bidding Procuring agency will respond in writing to any request for Documents clarification of the bidding documents which it receives no later than three 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

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- 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 Prices indicated on the Price Schedule shall be delivered duty paid (DDP) prices. 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 US Dollar 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 3.

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- 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

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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 Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 will be rejected by the Procuring agency as non-responsive, pursuant to ITB Clause 24.
- 15.2 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.
- 15.3 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.

16. Period of Validity of Bids

- 16.1. Bids shall remain valid for a minimum period of **180 days** 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 non-responsive.
- 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.

Employer's Signature: _____

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- 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.

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.

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21. Modification and Withdrawal

- 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.

D. 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 Bids 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.

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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. **To facilitate evaluation and comparison, all bid prices should be quoted in US Dollars**
- 25.2 The Procuring agency's evaluation of a bid will be on delivered duty paid (DDP) price inclusive of prevailing duties 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;

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- 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; the performance and productivity of the equipment offered; and/or other specific criteria indicated in the Bid Data Sheet and/or
- g. 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 non-responsive. Within this acceptable range, an adjustment per week, as specified in the Bid Data Sheet, will be added for evaluation to the bid price of bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements.
 - 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

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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

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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.

E. 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

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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, by the percentage indicated in the Bid Data Sheet, 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.

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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 Khyber Pakhtunkhwa requires that Procuring agency’s (including beneficiaries of donor agencies’ loans), as well as Bidders/Suppliers/Contractors under Government-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the KPPRA, in accordance with the KPP Act, 2009 and Rules made there under:

- 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

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engaged in corrupt or fraudulent practices in competing for the contract in question;

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.

35. Integrity Pact

35.1 The Bidder shall sign and stamp the Integrity Pact provided at Form - 7 to Bid in the Bidding Document for all Provincial Government procurement contracts exceeding Rupees ten million. Failure to such Integrity Pact shall make the bidder non-responsive.

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Part One - Section II.

General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract in Part One Section II, read in conjunction with the Special Conditions of Contract in Part Two Section III and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

The General Conditions of Contract herein shall not be altered. Any changes and complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract in Part Two Section III.

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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.

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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.
- 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 Supplier.

4. Standards

- 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.

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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. Hundred Percent (100%) amount of the Performance Bond in the shape of Bank Guarantee shall remain valid and in full force and effect 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. 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.

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8. 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) under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers responsibility.

12. Transportation

12.1 The Supplier is required under the Contact to transport the Goods to a specified place of destination 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. Duties and Taxes

13.1 Export / Custom Duties and other taxes, if any, levied by the Seller’s country on the goods/material/equipment supplied shall be paid by the seller and should not be included in the quoted price.

13.2 Import / Custom Duties and other taxes, if any, levied by the Purchaser’s country on the

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goods/material/equipment supplied shall be paid by the Purchaser and should not be included in the quoted price.

- 13.1. Custom/Import duties and other charges for import / export of contractor's employees' personnel effects shall be paid by the Contractor.
- 13.2. The Contractor shall be entirely responsible for all taxes, stamp duties and other such levies imposed outside the Purchaser's country.

14. Incidental Services

- 14.1 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:
- 14.2 performance or supervision of on-site assembly and/or start-up of the supplied Goods; furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
- 14.3 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 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.
- 14.4 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.

15. Spare Parts

- 15.1 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;
 - ii. Following such termination, furnishing at no cost to the Procuring agency, the blueprints, drawings, and specifications of the spare parts, if requested.

16. Warranty

- 16.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models and those they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied

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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.

16.3 This warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

16.3 The Procuring agency shall promptly notify the Supplier in writing of any claims arising under this warranty.

16.3 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.

16.3 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.

17. Payment

17.1.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.

17.1.2 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.

17.1.3 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.

17.2 The currency of payment US Dollars

18. Prices

18.1.1 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.

19. Change Orders

19.1 The Procuring agency may at any time, by a written order given to the Supplier pursuant to GCC

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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.

19.2 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.

20. Contract Amendments

20.1 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.

21. Assignment

21.1 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.

22. Subcontracts

22.1 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.

22.2 Subcontracts must comply with the provisions of GCC Clause 3.

23. Delays in the Supplier's Performance

23.1 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

23.2 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

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ratified by the parties by amendment of Contract.

- 23.3 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.

24. Liquidated Damages

- 24.1. If the contractor fails to deliver any or all of the goods within the time period(s) specified in the Contract, the Purchaser shall, without prejudice to other remedies under the contract, deduct from the contract price / Bank Guarantee as liquidated damages, a sum not more than 0.5% of the contract price per week or part thereof for first four weeks, 1.00% per week for next four weeks and 1.5% per week exceeding four weeks up to maximum extent of **10%** of the contract value.
- 24.2. In case the Purchaser is satisfied that the delayed / defective shipment was due to some mistake or circumstances beyond control of the contractor and the contractor has not intentionally or negligently contributed in the delay, the Purchaser may impose Liquidated Damages for not more than a sum equivalent to 0.5% of the delayed or defective shipment per week or part thereof for first two weeks, 1.00 % per week for next three weeks and 1.5% per week exceeding five weeks but not exceeding 10% of the contract value of the delayed/ defective shipment provided that the contractor takes immediate remedial measures for the replacement of defective shipment and takes prompt steps to mitigate the delay. The Purchaser may however, impose Liquidated Damages as per (a) above if the delayed or defective shipment has affected the project completion schedule or has resulted in production losses.
- 24.3. Even after imposition of LDs, if the supplier fails to materialize the delivery (material and or services); the Purchaser reserves the right to cancel Purchase order/contract/LC and to forfeit the Guarantee (if applicable) after intimating the supplier for such cancellation / forfeiture.

25. LIMITATION OF LIABILITY

- 25.1. 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.

26. Termination for Default

- 26.1. 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

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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 anything 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.

- 26.2. 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.

27. Force Majeure

- 27.1. 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.
- 27.2. 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.
- 27.3. 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.

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28. Termination for Insolvency

28.1. 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.

29. Termination for Convenience

29.1. 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.

29.2. 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.

30. Resolution of Disputes

30.1. 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.

30.2. 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.

31. Governing Language

31.1. 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.

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32. Applicable Law

32.1. The Contract shall be interpreted in accordance with the laws of the Procuring agency’s country, unless otherwise specified in SCC.

33. Notices

33.1. 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.

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

34. Signing of contract:

34.1.1 At the same time that the successful Bidder is notified that his bid has been accepted the Purchaser will issue Purchase Order incorporating all terms & conditions and same will be sent to the Bidder for acceptance.

34.1.2 At the same time that the successful Bidder is notified that his bid has been accepted and his Performance Bond is received by the Purchaser, the Contract incorporating all terms and conditions will be sent to the Bidder for execution.

34.1.3 Letter of Credit shall only be established after receipt of acceptance of Purchase Order and authentication of Performance Bond submitted by the Bidder as per AWKUM’s requirement.

35. Criteria for summary rejection

35.1. Any bid not meeting the following criteria, shall likely to be considered as non- responsive for further evaluation:

35.2. The bids must be prepared in the English language.

35.3. The firm prices shall be quoted on both FOB and CIF Karachi/Islamabad/Peshawar basis as required in the Schedule of Requirement (SOR). The freight will be indicated separately for each item / group on the SOR.

35.4. The bids must be based on firm prices and not on any price adjustable formula.

35.5. Performa Invoice of the Principal in original signed and stamped by the Principal or Annexure-A (SOR) duly filled in, signed & stamped by the Principal must be submitted along with the bid giving all necessary details.

35.6. Bidding Form duly filled in, signed and stamped, as per Annexure-B, (without prices with Technical Bid and with prices with Financial Bid). For this purpose, Bidder may either use the photo copies of the format provided in Tender Documents or may reproduce the same on his own letter head filling in blanks and signing and stamping them in original.

35.7. Original Bid Bond for the amount mentioned in the SOR as per AWKUM’s requirement must be submitted with technical bid. Bid must reach on or before date and time mentioned in the tender notice/corrigendum.

35.8. The bids must be valid for 180 days or as specified in SOR.

Employer’s Signature: _____

Bidder’s Signature: _____

Official Seal: _____

Official Seal: _____

- 35.9. Bid must not be submitted through Fax or Email etc. directly to the Purchaser.
- 35.10. Data Summary Sheet duly filled in, signed and stamped as per Annexure-E (without prices with Technical Bid and with prices with Financial Bid) must be submitted along with the bid.
- 35.11. Copy of Bid received with original Bid Bond will be accepted provisionally provided original bid is received by AWKUM within 10 working days after bid opening
- 35.12. Fax Bid with copy / swift message of Bid Bond shall be rejected.
- 35.13. Bid must be accompanied by an Affidavit (Form 4) of Tender Document on non- judicial paper or company letter head.
- 35.14. Bid must be accompanied with Corporate & Financial Information (Annexure -J) of tender document

36. Clarification of bidding documents

36.1 The bidders are expected to carefully examine all instruction, forms specification in the bidding documents. Any bidder in doubt as to the exact meaning or interpretation of any part of the bidding documents must immediately seek clarification in writing from purchaser at mailing address indicated in the

37. Instructions to bidder

All vendors, suppliers, contractors, consultants and alike are encouraged to inform the Registrar AWKUM and Head of Department in case where any AWKUM employee asks for any type of favor.

Employer’s Signature: _____

Bidder’s Signature: _____

Official Seal: _____

Official Seal: _____

PART TWO

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Employer's Signature: _____

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Part Two
Section I. Invitation for Bids

Notes on the Invitation for Bids

The Invitation for Bids (IFB) shall be issued as an advertisement in at least three newspaper of general circulation in the Province of Khyber Pakhtunkhwa or Authorities web site as the case may be, allowing at least fifteen days for NCB and forty five days(45) ICB for bid preparation and submission ;

The Invitation for Bids provides information that enables interested bidders to decide whether to participate. Apart from the essential items listed in the Standard Bidding Documents (SBD), the Invitation for Bids should also indicate any important bid evaluation criteria or qualification requirement (for example, a requirement for a minimum level of experience in manufacturing a similar type of goods for which the Invitation for Bids is issued) and that the bidders should give their best and final prices as no negotiations are allowed.

The Invitation for Bids should be incorporated into the bidding documents. The information contained in the Invitation for Bids must conform to the bidding documents and in particular to the relevant information in the Bid Data Sheet.

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

ABDUL WALI KHAN UNIVERSITY MARDAN

“Purchase of Lab Equipments for Department of Microbiology and Medical Lab Technology”

RE-TENDER NOTICE

The Abdul Wali Khan University Mardan invites sealed bids on the basis of “**Single Stage Two Envelopes Procedure**” for the work namely “**Purchase of Lab Equipments for Department of Microbiology and Medical Lab Technology**” under the project titled “Strengthening of Abdul Wali Khan University Mardan” funded by Higher Education Commission (HEC) from the Original Manufactures/Sole/Authorized Distributors/Suppliers registered with FBR, in Active Tax Payers List (ATL) of Federal Board of Revenue (FBR) as per the following detail:

Description	QTY	Pre-Bid Meeting Date	Issuance of Bidding Documents	Bids Submission Date and Time	Technical Bids Opening Date
Purchase of Lab Equipments for Department of Microbiology and Medical Lab Technology	Detail given in SBD	25-11-2024 at (12:00 P.M)	Up to 10-12- 2024	10-12-2024 till (01:00 P.M)	10-12-2024 at (02:00 P.M)

Terms & Conditions:

1. The eligible firms/companies are required to submit two separate sealed envelopes i.e. one envelope containing Technical information of the bidder clearly marked as **Technical Bid** while the second envelope containing bid price, clearly marked as **Financial Bid**, accompanied with Earnest money/Bid security @ 2% of quoted Bid Cost including stamp duty in favor of the Treasurer Abdul Wali Khan University Mardan in shape of Call Deposit/Bank Guarantee (in original) from any scheduled bank of Pakistan.
2. The “**Technical bid**” of the firm/company will be evaluated in accordance with the evaluation criteria as provided in the standard bidding documents. The Financial bids of only those firms shall be

Employer’s Signature:_____

Bidder’s Signature: _____

Official Seal: _____

Official Seal: _____

opened and allowed to participate in the tendering process declared qualified by the Technical Committee

3. Bidders must quote all prices as C&F bases.
4. Payment shall be made through Letter of Credit on C&F basis in USD directly to the Principal/Manufacturer by the university.
5. A complete set of standard bidding documents may be purchased from office of the undersigned on submission of written application upon payment of a non-refundable fee amounting to Rs. 2,000/- to be deposited in the Treasurer Abdul Wali Khan University Mardan.
6. The standard bidding documents can also be downloaded from the websites, www.awkum.edu.pk, www.kppra.org.pk, www.ppra.org.pk , however in this case, the firms have to attach a Demand Draft/Pay order OR deposit slip of Rs.2,000/-in favor of Treasurer Abdul Wali Khan University Mardan with the Technical Bid.

PROCUREMENT OFFICER
Abdul Wali Khan University Mardan
Khyber Pakhtunkhwa, Pakistan
[Ph.: 0937-920868](tel:0937-920868)
procurement@awkum.edu.pk

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

Section II. Bid Data Sheet

Notes on the Bid Data Sheet

Section II is intended to assist the Procuring agency in providing the specific information in relation to corresponding clauses in the Instructions to Bidders included in Part one Section I, and has to be prepared for each specific procurement.

The Procuring agency should specify in the Bid Data Sheet information and requirements specific to the circumstances of the Procuring agency, the processing of the procurement, the applicable rules regarding bid price and currency, and the bid evaluation criteria that will apply to the bids. In preparing Section II, the following aspects should be checked:

- a. Information that specifies and complements provisions of Part One Section I must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of Part One Section I as necessitated by the circumstances of the specific procurement, must also be incorporated.

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

Section III. Special Conditions of Contract

Notes on the Special Conditions of Contract

Similar to the Bid Data Sheet in Section II, the clauses in this Section are intended to assist the Procuring agency in providing contract-specific information in relation to corresponding clauses in the General Conditions of Contract.

The provisions of Section III complement the General Conditions of Contract included in Part one, Section II, specifying contractual requirements linked to the special circumstances of the Procuring agency, the Procuring agency's country, the sector, and the Goods purchased. In preparing Section III, the following aspects should be checked:

- a. Information that complements provisions of Part one Section II must be incorporated.
- b. Amendments and/or supplements to provisions of Part one Section II, as necessitated by the circumstances of the specific purchase, must also be incorporated.

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

Bid Data Sheet

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

Introduction	
ITB 1.1	Source of Fund: Public Fund: {A PC-I titled “ STRENGTHENING OF ABDUL WALI KHAN UNIVERSIT MARDAN ” amounting to Rs. 3641.553 Million was approved by the Federal Government in its meeting dated 27-05-2021 and as such the instant project is being sponsored by the Higher Education Commission (HEC)}.
ITB 1.1	Project Allocated Amount: ----- Million (FEC Component is----- Million)
ITB 1.1	Name of Project: STRENGTHENING OF ABDUL WALI KHAN UNIVERSIT MARDAN
ITB 1.1	Name of Contract: PURCHASE OF LAB EQUIPMENTS FOR ESTABLISHMENT OF MICROBIOLOGY AND MLT
ITB 4.1	Name of Procuring Agency: Abdul Wali Khan University Mardan
ITB 6.1	Address: Procurement Abdul Wali Khan University Mardan Telephone: +92-0937-843368 Fax: +92-0937-843354 Email: procurement@awkum.edu.pk
ITB 8.1	English
Bid Price and Currency	
ITB 11.2	The Price shall be quoted in C&F. (The bidder will be responsible for insurance, custom clearance, local transportation, installation, testing, commissioning, performance and trainings.)
ITB 12.1	Currency: US Dollar (USD)
Preparation and Submission of Bids	
ITB 13.3 (d)	Qualification requirements. As per Qualification criteria mentioned in ITB No. 25.3 of Bid Data Sheet.
ITB 15.1	Amount of bid security. Two (2) percent of the bid amount/quoted price.
ITB 16.1	Bid validity period: 180 days after opening the bids
ITB 17.1	Number of copies: One Original One Copy

Employer’s Signature: _____

Bidder’s Signature: _____

Official Seal: _____

Official Seal: _____

ITB 18.2 (a)	Procurement Abdul Wali Khan University Mardan
ITB 18.2 (b)	IFB title : Purchase of Lab Equipment for Department of Microbiology and MLT
ITB 19.1	Deadline for bid submission: As per invitation to bids
ITB 22.1	Time, date, and place for bid opening. Conference Room or any place selected and notified by the Procurement Officer Abdul Wali Khan University Mardan

Bid Evaluation

ITB 25.3	Criteria for bid evaluation. Qualification of Bidders shall be evaluated on the basis of below mentioned criteria. Bidders must secure at least 60% score in addition to fulfillment of mandatory requirements. The Employer reserves the right to waive minor deviations, if they do not materially affect the capability of the Bidder to perform the Contract.			
	A. Detailed Evaluation Criteria			
	S #	Parameters	Sub-parameters	Marks
	1	Product Specification		10
		Product that 100% comply with the advertised specifications	Fully compliance with the required specifications as per statement of Requirement (Up to a maximum of four Minor deviations may be accommodated subject to the condition that main function and performance in any aspect would not affect. 1 mark will be deducted on each deviation. However, up to Four marks will be deducted.	10
	2	Legal Requirement		02
		Sales Tax Registration Certificate		Mandatory
		NTN Registration Certificate		Mandatory
		Manufacturer Authorization Certificate from Principal for all quoted items		Mandatory
		Professional tax Certificate		02
3	Product Certifications		10	
	European/USA standard certification for each equipment. Each certificate shall carry 02 marks each			
4	Firm Similar Nature works Experience		30	

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

	Firm Experience of similar nature projects each project worth Rs.5 Million (10 Marks for Each Project) Work order/ P.O of clearly mentioning the amount of Rs.5 Million needs to be provided Similar Nature works experience all lab equipment related works	
5	Product's Global Performance Certificates	10
	Valid ISO 9001 Quality Management Certificate	05
	Valid ISO 13485 Quality Management Certificates	05
6	Qualified Technical Staff	10
	Diploma Engineer	4
	Graduate Engineers Bio-Medical/Electronics	6
7	Financial Capabilities	12
	Turnover in Millions Audit Report / Bank Statement Should be Attached	Turn over verified from IT-1 or IT-2 form of FBR 10 - 30 Million or by audit reports 6
		Turnover will be verified from IT-1 or IT-2 form of FBR 31 - 50 Million or by audit reports 12
8	National Office / Peshawar Office	06
	Availability of office in Peshawar	03
	Availability of office at National Level	06
	To be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name. /Physical verification	
09	Warranty	10
	Warranty: 02 Years is Mandatory Warranty must be from Original Manufacturer Head office.	Mandatory
	05 years post warranty certificate	10
	Total Marks	100
<p>Bidder'' for the current month of submission of Bidding document.</p> <p>Best Evaluated Bid Criteria</p> <p>The bidder obtaining at least 60 % score in technical bid will be considered as qualified. Financial bids of technically bidders will be opened in the presence of the representatives of the firms who wish to attend the tender opening. Amongst the Technically qualified bidder, the bidder offering the lowest priced bid will be awarded the project.</p>		

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

	<p>Bidder shall provide verifiable documentary evidence to demonstrate their Experience, Personnel, Equipment and Financial Capabilities. No marks will be given to the information for which documentary evidence is not provided.</p> <p>1. Supply Orders along with Completion Certificates/Satisfactory Reports of Completed Works.</p> <p>2. No Marks will be given to the information for which documentary evidence is not provided.</p>
ITB 25.4 (a) ITB 25.4 (b) Option (i)	One option only: Delivery schedule.
ITB 25.4 (c) (ii)	Deviation in payment schedule: As per bid documents GCC Clause 16
ITB 25.4 (d)	Cost of spare parts: As per bid documents GCC Clause 14
ITB 25.4 (e)	Spare parts and after sales service facilities in the Procuring agency's country: As per bid documents GCC Clause 14
ITB 25.4 (f)	Operating and maintenance costs: As per bid documents GCC Clause 8
ITB 25.4 (g)	Performance and productivity of equipment: As per bid documents GCC Clause 8
ITB 25.4 (h)	As per Qualification criteria mentioned in ITB No. 25.3 of Bid Data Sheet.

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

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Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

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.

[Instructions for completing the Special Conditions of Contract are provided, as needed, in the notes in italics mentioned for the relevant SCC. Where sample provisions are furnished, they are only illustrative of the provisions that the Procuring agency should draft specifically for each procurement.]

1. Definitions (GCC Clause 1)

The Procuring agency is: Abdul Wali Khan University Mardan, Abdul Wali Khan University Mardan

The Procuring agency's country is: Islamic Republic of Pakistan

The Project Site is: Abdul Wali Khan University Mardan (Main Campus), Abdul Wali Khan University Mardan

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".

Performance Security (GCC Clause 7)

The amount of performance security, as a percentage of the Contract Price, shall be: ten (10) percent of the Contract Price. After delivery and acceptance of the Goods, the performance security shall be reduced to two (2) percent of the Contract Price to cover the Supplier's warranty obligations in accordance with Clause GCC 15.2.

3. Inspections and Tests (GCC Clause 8)

Inspection and tests prior to delivery of Goods and at final acceptance are as follows:

- i. The Procuring Entity shall inspect quality, quantity and specifications of items after delivery at the procuring Entity premises.
- ii. The Inspection Committee of Abdul Wali Khan University Mardan will carry out detailed Physical examination of delivered stocks and can reject any item if found not according to the

Employer's Signature: _____

Bidder's Signature: _____

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approved/required Technical Specifications etc. Moreover, the Supplier will also be responsible to replace the same with his own cost without any financial claim.

4. Packing and Marking (GCC Clause 9)

- 4.1. All the items to be provided in proper company packing with brochures and CDs.
- 4.2. All Packages/boxes must bear the Purchase Order No. as Shipping Marks, Country of Origin and Weight in Kilograms (Gross/Net). The marks must tally with shipping documents like Bill of Lading (B/L) and manifest there should not be any difference.
- 4.3. In addition to the above mentioned shipping marks, the following procedure of color code marking is to be adopted / made on each side of the package/box/container while dispatching the material:
“There will be an isosceles triangle with or less than six inches’ side, triangle side marked in black lines, letters “AWKUM” inscribed inside, the letters to be not less than 1½” tall and will be in black. On big packages/boxes/containers, the sides or triangle and letters will be increased appropriately. Underneath the triangle there will be two color code bars in “GREEN” color size six inches in length and 1½” in width. If the above color codes marking is not appropriate/suitable, the sizes and color may be changed”.
- 4.4. Each item of the consignment should also be marked with item # of the Purchase Order.

5. Delivery and Documents (GCC Clause 10)

- i. The Bidder shall deliver the items at the destination in scratch-less condition with all the Manufacturer’s Supplied Accessories.
- ii. Upon delivery, the Supplier shall notify the Procuring agency the full details of the delivery, including description of items, quantity and usual transport document. The Supplier shall mail the following documents to the Procuring agency:
- iii. copies of the Supplier’s invoice showing items’ description, quantity, unit price, and total amount;
- iv. Manufacturer’s or Supplier’s warranty certificate;
- v. Inspection certificate, issued by the nominated Inspection Agency, and the Supplier’s factory Inspection Report;
- vi. Certificate of Origin.
- vii. The Supplier shall arrange such transportation of items as required to prevent their damage or deterioration during transit to their final destination and in accordance with the terms and conditions prescribed in the Schedule of Requirements.

Employer’s Signature: _____

Bidder’s Signature: _____

Official Seal: _____

Official Seal: _____

viii. All the costs associated with the transportation including loading/unloading and other expenses will be borne by the Supplier till the delivery of the items at the procuring agency premises

6. Insurance (GCC Clause 11)

GCC 11.1— 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 seller's responsibility. Since the Insurance is seller's responsibility they may arrange appropriate coverage.

7. Warranty & Period of correction of defects (GCC Clause 15)

GCC 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.

GCC 15.2—This warranty shall remain valid for Thirty Six (36) months after the items, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract.

GCC 15.3—The Procuring agency shall promptly notify the Supplier in writing of any claims arising under this warranty.

GCC 15.4—Upon receipt of such notice, the Supplier shall, within 24 Hours and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring agency.

GCC 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.

8. Payment (GCC Clause 16)

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

GCC 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.

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

GCC 16.4—The payment shall be made through Letter of Credit on C&F basis in USD in the following manner.

- 1: Payment will be made in US \$ though LC that will be established between the Principal/Manufacturer and the university.**
- 2: 80 % payment will be processed upon submission of shipping documents and other relevant documents.**
- 3: Remaining 20% payment will be processed after successful installation of the items in the premises of the university.**

9. Liquidated Damages (GCC Clause 23)

GCC 23.1—Applicable rate: 0.5% per week after expiry of delivery period from the date of issuance of Supply Order up to two weeks.

Maximum deduction: Flat 5 % of Contract Cost after two weeks.

10. Resolution of Disputes (GCC Clause 28)

GCC 28.3—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 adjudication or arbitration in accordance with the laws of the Procuring agency's country.

Governing Language

The Governing Language shall be: English

12. Applicable Law

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

14. Notices

Procuring agency's address for notice purposes:

Procurement Officer

Abdul Wali Khan University Mardan, Anbar Abdul Wali Khan University Mardan

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

Supplier's address for notice purposes:

(**Note:** the information are required to be provided by the bidder concerned)

Name of the Supplier: _____

Postal Address of the Supplier: _____

Telephone No. of Supplier: _____

Email Address of Supplier: _____

Fax No. of Supplier: _____

15. Shipment intimation:

15.1 The beneficiary within 24-48 hours of making shipment must send fax OR E-mail to (1) Procurement officer AWKUM intimating them the following:

- i. L/C numbers and Purchase Order / Contract No.
- ii. Name of the Ship & Shipping Line.
- iii. Bill of Lading No. & Date.
- iv. Total CIF value of the consignment shipped.
- v. Port of shipment.
- vi. No. of boxes/packages/pieces.
- vii. Net and gross weight.
- viii. Expected time of arrival (ETA) of ship

16. Shipment instructions

16.1. The contractor/supplier/vendor is requested to ensure that Commercial Invoice / Packing List shall be pasted on the inner side of the door of container for FCL Shipments and on Boxes/ Crates / Cartons etc. for LCL Shipments. Non- Compliance to this instruction may result in penalty imposed by Custom Authorities which shall be recovered from the Contractor/Supplier/Vendor.

16.2. Please ensure that in case of CFR purchase order / contracts the local charges at Karachi Seaport/Airport must be included in the freight cost.

16.3. The freight forwarders/shipping agents at country of origin must include the corresponding local charges such as delivery order/port handling & container rentals for free time etc. company shall pay only the wharf age/demurrage. charges. They should also ensure that there should be only one local agent of the shipping company who should handle such matters. In case AWKUM had to pay such charges, it shall be recovered from the contractor.

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

17. Charges for LC establishment:

- 17.1 All charges of credit opening bank for credit will be borne by the AWKUM.
- 17.2 All charges of corresponding bank such as negotiation of documents, adding confirmation to credit etc. will be to the account of beneficiary.
- 17.3 All charges for amendments / extension in L/C will be to the account of beneficiary.

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

Section IV. Schedule of Requirements

Notes for Preparing the Schedule of Requirements

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

The objective of the Schedule of Requirements is to provide sufficient information to enable bidders to prepare their bids efficiently and accurately, in particular, the Price Schedule, for which a form is provided in Section VI. In addition, the Schedule of Requirements, together with the Price Schedule, should serve as a basis in the event of quantity variation at the time of award of contract pursuant to ITB Clause 29.

The date or period for delivery should be carefully specified, taking the date prescribed herein from which the Procuring agency's delivery obligations start (i.e., notice of award, contract signature, opening or confirmation of the letter of credit).

The Procuring agency must specify here the date from which the delivery schedule will start. That date should be either the date of contract award, or the date of contract signature, or the date of opening of letter of credit, or the date of confirmation of the Letter of Credit, as appropriate. The Bid Form should include only a cross-reference to this Schedule.

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

SCHEDULE OF REQUIREMENTS

MICROBIOLOGY DEPARTMENT

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery required.

Sr.#	Item Name	QTY	Delivery schedule (shipment) in weeks/months from the Date of Contract Award
1.	Power Supply	01	02 months after opening of LC
2.	Laboratory loop Sterilizers	01	02 months after opening of LC
3.	Biosafety Cabinet II A2 with base stand	01	02 months after opening of LC
4.	Autoclave Automated	01	02 months after opening of LC
5.	Incubator adjustable temperature	01	02 months after opening of LC
6.	Automated Bacterial Identification system	01	02 months after opening of LC
7.	Membrane filtration apparatus	01	02 months after opening of LC
8.	Automated Media preparatory	01	02 months after opening of LC
9.	Shaker Incubator	01	02 months after opening of LC
10.	Water bath with adjustable temperature	01	02 months after opening of LC
11.	Shaking Water bath	01	02 months after opening of LC
12.	Mini Centrifuge Machine	01	02 months after opening of LC
13.	Centrifuge Machine refrigerated	01	02 months after opening of LC
14.	Electronic balance	01	02 months after opening of LC
15.	Electronic Colony Counter	01	02 months after opening of LC
16.	Multichannel Micropipette set	04	02 months after opening of LC
17.	pH meter bench top/portable	01	02 months after opening of LC

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

Sr.#	Item Name	QTY	Delivery schedule (shipment) in weeks/months from the Date of Contract Award
18.	Class 1 safety cabinet with Support stand	01	02 months after opening of LC
19.	Hot plate magnetic stirrer	02	02 months after opening of LC
20.	Gradient PCR machine	01	02 months after opening of LC
21.	Ultra Low freezer -80°C	01	02 months after opening of LC
22.	Dyna beads plate (DynaMag-2)	04	02 months after opening of LC
23.	Refrigerator	01	02 months after opening of LC
24.	Fume Hood	01	02 months after opening of LC
25.	SDS PAGE Vertical gel electrophoresis	01	02 months after opening of LC
26.	Thermal Cycler PCR	01	02 months after opening of LC
27.	Block heater	02	02 months after opening of LC
28.	3-D rocker	01	02 months after opening of LC
29.	Vertical Gel Electrophoresis	01	02 months after opening of LC
30.	Mini horizontal gel electrophoresis:	01	02 months after opening of LC
31.	GEL Documentation System	01	02 months after opening of LC
32.	Power supply basic	01	02 months after opening of LC
33.	Vacuum pump with accessories	01	02 months after opening of LC
34.	Gel dryer Machine	01	02 months after opening of LC
35.	Micro Pipettes complete Set of 4	04	02 months after opening of LC
36.	Fluorescence confocal Microscope	01	02 months after opening of LC
37.	Nano drop	01	02 months after opening of LC
38.	Hot air oven and microwave oven (one each)	02	02 months after opening of LC

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Sr.#	Item Name	QTY	Delivery schedule (shipment) in weeks/months from the Date of Contract Award
39.	Inverted Microscope	01	02 months after opening of LC
40.	Water Distillation Plant	01	02 months after opening of LC
41.	Digital Magnetic Stirrer	01	02 months after opening of LC
42.	Laminar flow	01	02 months after opening of LC
43.	Autoclave Bench Top	01	02 months after opening of LC
44.	2DE & Western blotting kits	02	02 months after opening of LC
45.	Hot air oven	01	02 months after opening of LC
46.	UV Trans illuminator	01	02 months after opening of LC
47.	Digital compound microscope	25	02 months after opening of LC
48.	Tissue homogenizer	01	02 months after opening of LC
49.	Ultra solicitor	01	02 months after opening of LC
50.	Anaerobic Jar	01	02 months after opening of LC
51.	Electroporation system with standard spec.	01	02 months after opening of LC
52.	Isoelectric focusing with starter kit and accessories	01	02 months after opening of LC
53.	Rocker with desiccator	10	02 months after opening of LC
54.	Coliform analyzer	01	02 months after opening of LC
55.	Two dimensional gel electrophoresis (2-DE) Apparatus with accessories	01	02 months after opening of LC
56.	Speed VAC	01	02 months after opening of LC
57.	Gel Dryer with scanner	01	02 months after opening of LC
58.	Semi dry Tran blot	01	02 months after opening of LC

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Sr.#	Item Name	QTY	Delivery schedule (shipment) in weeks/months from the Date of Contract Award
59.	Carbon dioxide (CO2) incubator with stand and CO2 Cylinder	01	02 months after opening of LC
60.	Ice making machine	01	02 months after opening of LC
61.	Vacuum pump	01	02 months after opening of LC
62.	Multihued microscope with LED display	01	02 months after opening of LC
63.	Dark room equipments for blotting	01	02 months after opening of LC
64.	2DE Densitometer software	01	02 months after opening of LC
65.	Accessory and running equipments/Chemicals/kits Proteomics and Genomics (attached as Annex-A)	01	02 months after opening of LC

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SCHEDULE OF REQUIREMENTS

MEDICAL LAB TECHNOLOGY DEPARTMENT

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery required

Sr.#	Item Name	QTY	Delivery schedule (shipment) in weeks/months from the Date of Contract Award
1.	Incubator	1	02 months after opening of LC
2.	Water bath	2	02 months after opening of LC
3.	Autoclave Automated	1	02 months after opening of LC
4.	Incubator adjustable temperature	1	02 months after opening of LC
5.	Shaker Incubator	1	02 months after opening of LC
6.	Shaking Water bath	1	02 months after opening of LC
7.	Mini Centrifuge Machine	1	02 months after opening of LC
8.	Refrigerated centrifuge	1	02 months after opening of LC
9.	Analytical electronic balance	1	02 months after opening of LC
10.	pH meter bench top	1	02 months after opening of LC
11.	Automated Hematology blood analyzer	1	02 months after opening of LC
12.	Two-Dimensional Gel electrophoresis (2DE) with accessories	1	02 months after opening of LC
13.	Hot plate with magnetic stirrer	5	02 months after opening of LC
14.	UV transilluminator	1	02 months after opening of LC
15.	Refrigerator	1	02 months after opening of LC
16.	Micro Pipettes Complete Set	3	02 months after opening of LC

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Sr.#	Item Name	QTY	Delivery schedule (shipment) in weeks/months from the Date of Contract Award
17.	UV Spectrophotometer	1	02 months after opening of LC
18.	Deionized Plant	1	02 months after opening of LC
19.	Water Distillation Plant	1	02 months after opening of LC
20.	Multi head microscope with display and camera	1	02 months after opening of LC
22.	Digital microscope	30	02 months after opening of LC
23.	Ultra-purification system	1	02 months after opening of LC
24.	Ultrasonicator with probe and accessories	1	02 months after opening of LC
25.	Compound microscope with built in cameras	5	02 months after opening of LC
26.	Anaerobic Jar	2	02 months after opening of LC
27.	Carbon dioxide (CO ₂) incubator with stand and CO ₂ Cylinder	1	02 months after opening of LC
28.	Semi dry Tran blot	1	02 months after opening of LC
29.	Ice making machine	2	02 months after opening of LC
30.	Rotary evaporator	1	02 months after opening of LC
31.	Fume hood	1	02 months after opening of LC
32.	Dark room setup with fixer, developer and other accessories each	1	02 months after opening of LC
33.	Gradient PCR	1	02 months after opening of LC

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Section V

TECHNICAL SPECIFICATIONS MICROBIOLOGY DEPARTMENT

Sr.#	Item Name	Specification	QTY	Make
1.	Power Supply	Power Pac HV high voltage power supply, Voltage:20-5000V, Current: 0.01-500mA, timer control, volt hour control, auto switching function. Preferred Dimensions (cm/inch 7.5x4x10/3x13.4x.9, ±2/2	01	USA/ Europe/Japan OR Equivalent
2.	Laboratory loop Sterilizers	Bacteria safe loop sterilizer with heating element with adjustable, The length of heating area: 100mm. the maximum outer diameter of sterilized item: 35mm. Power: 300W 110V. Burned heat temperature: 85°C with perforated stainless-steel cow, infrared heating system. Loop sterilizers are required in safety cabinets to kill dangerous bacteria. Dimensions: Standard	01	USA/ Europe/Japan OR Equivalent
3.	Biosafety Cabinet II A2 with base stand	Class II, Type A2 Biological Safety Cabinet with BASE STAND preferable with following specifications. Cabinet Construction: All welded stainless steel 16/18 GA, Type 30. Length: Nominal 5 feet (1.5 m). Preferred Interior Dimensions (W x D x H) mm [in]: 1483 x 654 x 724 [58 3/8 x 25 3/4 x 28 1/2]±50mm. Net Weight: 249 kg [550 lbs]. Airflow Monitor: Single Air flow Sensor. HEPA Filter Seal Type: HEPEX Zero Leak	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		<p>Neoprene Seal, Spring-loaded, Metal Frame Supply HEPA Filter 99.99% @ 0.3 Microns. Protection: Product, Personnel, Environmental. Control System: Flow Gard. Down flow fpm (m/s): 60 fpm (0.30 m/s). Inflow fpm (m/s): 105 fpm (0.53 m/s). Viewing Window Inches (mm): 21 (533) open to fully closed. Ultra High Efficiency ECM Eon™ Motor. Power Cord Length Foot (Meter): 12 (3.7). Remote Alarm Terminals: Standard. Electrical Configuration: 230 VAC 50/60 Hz. With Base Support Stand. LED Lighting and Germicidal UV Light. Adjustable window with easy cleaning. Visual and audible alarm. Intuitive eye level control panel. Preferably with arm-rest support. Glass View Screen. Alarm system for notifying impaired safety. Enhanced corrosion resistant stainless-steel features. Performance Standard: NSF-ANSI-49, EN- 12469</p> <p>Preferred Exterior Dimensions (W x D x H) mm [in]: 1669 x 799 x 1572 [65 5/8 x 31 7/16 x 61 7/8]±50mm</p>		
4.	Autoclave Automated	<p>Capacity: 110 L Chamber material: Stainless steel (SUS304) Operation mode: 5 modes (LIQUID, SOLID, WASTE, AGAR, DISSOLUTION) Temperature setting range: Sterilization: 105°C - 135°C Variable, Dissolution: 60°C - 100°C Variable Exhaust setting: 3 levels (Without exhaust, Fine exhaust, Small amount of exhaust) Maximum working pressure: 0.255MPa</p>	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		Thermometer: Digital display 5.0°C - 137.9°C Pressure gauge: Digital display 0MPa - 0.3MPa / Analog display 0MPa - 0.4MPa Safety devices: Pressure safety valve, Over-current and earth leakage breaker, Low water cut off device Supplied accessories: Bottom plate, Drainage hose, Exhaust hose, Exhaust bottle, Drain bottle, Caster stopper (2), Wire mesh basket (2) Electrical: 230V, 50Hz / 60Hz. Outside dimensions (W x D x H mm): 667 x 652 x 1206 ±100mm		
5.	Incubator adjustable temperature	<ul style="list-style-type: none"> • Stainless steel interior: easy-to-clean interior made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides, , Volume: 32 l, Max. number of internals: 3, Max. loading of chamber: 60 kg Max. loading per internal: 20 kg • Convection: Natural • Textured stainless steel casing: , Housing rear zinc-plated steel • Setting temperature range: +20 to +80 °C • Working temperature range: at least 5 above ambient temperature to +80 °C • Setting accuracy temperature: 0.1 °C • Temperature sensor: 1 Pt100 sensor DIN class A in 4-wire-circuit • Single DISPLAY. Adaptive multifunctional digital PID-microprocessor controller with high-definition TFT-color display • Calibration: three freely selectable temperature values • Voltage 230 V, 50/60 Hz • Electrical load approx. 1600 W. Preferred Dimensions: w(A) x h(B) x d(C): 400	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		x 320 x 250 mm ±50mm		
6.	Automated Bacterial Identification system	Capacity options • 60 cards per instrument connections • 2 instruments can be connected to the same pc weight • 240 (110 kg) Intuitive software, heat dissipated • 512 btu/hr. (nominal) Electrical requirements: 220/240 vac (50-60 hz), Preferred dimensions 26'' x 39'' x 28'' (100 x 71 x 67 cm ±20cm)	01	USA/ Europe/Japan OR Equivalent
7.	Membrane filtration apparatus	Filter units have a wide polystyrene base for added stability on the bench. 150 mL capacity of units 47 mm diameter membrane Upper and lower chambers graduated, removable membrane•	01	USA/ Europe/Japan OR Equivalent
8.	Automated Media preparatory	<ul style="list-style-type: none"> • Dispensing and pouring system for automated dosing and filling of microbiological culture media in petri dishes with variable diameters as well as for Bi-plates and Tri-plates and for the automatic metering of liquid media into test tubes • Capacity: 100-3000 plates per hour (15-50 mL/plate) • Temperature range: upto 140 C • Software guided smooth transition • 1-20 dishes/stack • High sterility at pouring area • Smother agar plates using dual hand pump • Delivery rate 500 to more mL/min • With media preparatory: Capacity 10L or more (Dispensing/pouring) • All accessories 	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		• Power: 220-240 volts		
9.	Shaker Incubator	Capacity=90-100liters Speeds ranging of 50 - 400 RPM temperature range of 7°C to 60°C.	01	USA/ Europe/Japan OR Equivalent
10.	Water bath with adjustable temperature	Benchtop water bath Chamber material: Stainless steel - Digital controller with display (microprocessor controller) - Temperature range: 100 C, ambient to 100 C - Audible alarm - Capacity: 5-15 L - Quick disconnect drainage - Power: 220-240V	01	USA/ Europe/Japan OR Equivalent
11.	Shaking Water bath	Benchtop water bath Chamber material: Stainless steel - Digital controller with display (microprocessor controller) - Temperature range: 100 C, ambient to 100C - Audible alarm - Capacity: 5-15 L - Quick disconnect drainage -Shaking fuction - Power: 220-240V	01	USA/ Europe/Japan OR Equivalent
12.	Mini Centrifuge Machine	Non-refrigerated, with Rotor 230 V/50 – 60 Hz (EU). Rotor capacity: 12 × 1.5/2.0 mL vessels, 2 × 8-tube PCR strips Max. speed: 14,100 × g (14,500 rpm) Noise level: <52 dB(A) Volume range: 24 mL• Preferred Dimensions 22.5 × 23.0 × 13.0 cm±5cm/ 8.86 × 9.06 × 5.12 in	01	USA/ Europe/Japan OR Equivalent
13.	Centrifuge Machine refrigerated	Cooling: Refrigerated Temperature range: -9 °C to 40 °C Speed: 200 – 14,000 rpm	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		Max. RCF: 20,913 × g Max. RCF with fixed-angle rotor: 20,913 × g Max. RCF with swing-bucket rotor: 4500 × g Display: large, brightly lit LCD Rotors available: 18 Noise level: <56 dB(A) Volume range: 3L Max. power consumption: 1650 W Max. capacity: 56 × 15 mL/ 28 × 50 mL, 100 × 13 mm/ 80 × 16 mm Power supply: 230 V, 50 – 60 Hz Preferred Dimensions (W × D × H): 70.0 × 60.8 × 34.5 cm±10cm / 27.6 × 23.9 × 13.6 in		
14.	Electronic balance	<ul style="list-style-type: none"> • Unit of measurement: gram • Resolution: 0.1mg • Weighing Range: up to 250g • Tare range: full • - Bias: ±0.001g • Time for weight stability: not more than 3 second • Sensitivity drift: not more than +/- 1.0ppm/deg C (10-30 deg C) • Repeatability: not more than +/- 0.1mg • Come with full glass draught shield • Come with auto-calibration, waterproof, dust-proof and shock- proof function 	01	USA/ Europe/Japan OR Equivalent
15.	Electronic Colony Counter	<ul style="list-style-type: none"> • Fully automated focus and lighting • Image analysis software (High resolution images) • Counts live and dead cells, measure viability and cell size • Digital display • Multiple options for data transfer • User friendly • Fast and accurate • Measurement range: 10⁴ to 10⁷ cells/mL 	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		<ul style="list-style-type: none"> • Required sample volume: 10 µL • All accessories • Power: 220-240 V 		
16.	Multichannel Micropipette set	<ul style="list-style-type: none"> • Range: 0.1 – 2 µl; 1-10 µl, 2-20 µl, 10-100 µl, 100-1000 µl or • more or less similar ranges); light weight, secure pipetting, 6, 8 – 12 channels, accurate reading, adjustable, preferably electronic with charging stand 	04	USA/ Europe/Japan OR Equivalent
17.	pH meter bench top/portable	<ul style="list-style-type: none"> • Benchtop • epoxy-body • stainless steel ATC probe • 100-240V universal power adapter, computer cable • Buffer kits • - Range -2.000 to 19.999 pH • Conductivity range 0-1000m.siemens/cm • Accuracy (±1 digit): ±0.005 pH, ±0.01 pH • Automatic buffer recognition and LCD display • External 100-240VAC, 50/60 Hz or 9V battery • With all buffers • Power: 220-240 volts 	01	USA/ Europe/Japan OR Equivalent
18.	Class 1 safety cabinet with Support stand	<p>Main body: 1.2 mm (0.08") /18 gauge EG Steel with Isocide TM Oven-Baked Epoxy-Polyester Powder Coating preferably</p> <p>Support stand: Fixed Stand with Leveling Feet, 28" height</p> <p>Inflow: 758 m3 /h (446 cfm) Exhaust: 758 m3 /h (446 cfm) HEPA Filter Typical Efficiency: >99.999% at 0.1 to 0.3 micron, ULPA as per IEST-RP-CC001.3 USA >99.999% at MPPS, H14 as per</p>	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		EN 1822 EU, Preferred External Dimensions (W x D x H) 1340 x 731 x 1395 mm±50mm (52.8" x 28.8" x 55.0") Preferred Gross Internal Dimensions (W x D x H) 1220 x 660 x 670 mm ±50mm (48.0" x 26.0" x 26.4")		
19.	Hot plate magnetic stirrer	<ul style="list-style-type: none"> • independently controlled multiple stirring positions • aluminum body and ceramic top • Digital display and microprocessor controller (for temp and rpm) • Temperature adjustment in 1C increment (automatic temp. compensation) • warning lights/indicator • programmable shuts off heating/stirring user-defined intervals • Detachable line cord and plug • Power: 220-240 	02	USA/ Europe/Japan OR Equivalent
20.	Gradient PCR machine	Thermo block: Aluminum Sample capacity: 96 × 0.2 mL PCR tubes, 1 PCR plate (96 wells) or up to 71 × 0.5 mL PCR tubes Heating technology: Peltier elements, Triple Circuit Technology Temperature control range of the block: 4 – 99°C Gradient range: 1 – 20°C Lid temperature range: 37 – 110°C Lid descent: flexlid® technology, with TSP Power supply: 230 V, 50 – 60 Hz Preferred Dimensions (W × D × H): 25 × 41.2 × 32.1 cm ±10cm / 9.8 × 16.2 × 12.6 in	01	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
21.	Ultra Low freezer -80°C	<p>Type: -80°C Upright</p> <p>Temperature Capability: -50°C to -80°C Storage Capacity 2" Boxes: 300-600 Storage Capacity Volume: 549 L±30L Voltage Capability: 230V/50Hz Energy Consumption: As low as 10.5 kWh/day Display: Touch-Screen LCD Compressor: V-Drive Compressor</p> <p>Preferred Dimensions (D x W x H) Interior: 28.3 x 23.1 x 51.2 in. ±10 (71.9 x 58.8 x 130.1 cm)±20 Dimensions (DxWxH) Exterior: 37.6 x 28.3 x 78 in. ±10 (95.5 x 71.9 x 198.1 cm) ±10</p>	01	USA/ Europe/Japan OR Equivalent
22.	Dyna beads plate (DynaMag-2)	<p>Working volume: 10 µL–2,000 µl, Holds 16 (1.5–2 mL) microfuge tubes 8 positions on each side of the rack Top rack can be quickly removed from the magnet in the base, ready for vortexing, rotation or manual sample shaking. A center pin in the rack ensures uniform vortexing of all tubes. Excellent control and visibility of your isolations</p>	04	USA/ Europe/Japan OR Equivalent
23.	Refrigerator	Vertical, Capacity 11 -12 cubic feet, 220 Y 50 hz.	01	USA/ Europe/Japan OR Equivalent
24.	Fume Hood	<p>Size: 1.5-meter Adjustable air speed: 9 level Microprocessor control system, LED display. Electrogalvanized steel with Epoxy-polyester hybrid Isocide™ powder coating Resistant to moderate acid and alkali. With memory function in case of power-failure.</p>	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		Manual front glass window, height adjustable. Preferred External Size(W*D*H) 1000*800*2515mm approx±100mm Preferably 1301 x 675 x 1230 mm (51.2" x 26.6" x 48.4" ±100mm approx.		
25.	SDS PAGE Vertical gel electrophoresis	Total buffer volume for 2 gels: 700ml 1-4 gel system including 5 combs, 5 sets of glass plates, 2 casting stands, 4 casting frames, Preferred Dimensions (W x L x H), cm. Glass plate size: Short plate 10.1 x 7.3, Spacer plate: 10.1 x 8.2. Handcast gel compatible: 8.3X7.3 cm±1, 10 wells, 1mm thickness,	01	USA/ Europe/Japan OR Equivalent
26.	Thermal Cycler PCR	Preferable specifications: Capacity 96×0.2ml Temperature Range 0~99.9°C Heating Rate 4°C/s Cooling Rate 3°C/s Uniformity ≤±0.3°C Accuracy ≤±0.2°C Display Resolution 0.1°C Temperature Control Block\Tube Ramping Rate Adjustable 0.1~2.5°C Gradient Uniformity ≤±0.3°C Gradient Accuracy ≤±0.2°C Gradient Temp. Range 30~99.9°C Gradient Spread 1~30°C Hot Lid Temperature 30~110°C Hot Lid Height Adjustable Stepless Adjustable Number of Programs 200 Max.No.of Segment 9 Max.No.of Step 9 Max.No.of Cycle 99	01	USA/ Europe/Japan OR Equivalent
27.	Block heater	• Ambient +5-130 C, digital with mixed block	02	USA/

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Sr.#	Item Name	Specification	QTY	Make
		• For to be used with Eppendorf's		Europe/Japan OR Equivalent
28.	3-D rocker	Speed range 24 rpm Motion/pitch 3-D/fixed 5°	01	USA/ Europe/Japan OR Equivalent
29.	Vertical Gel Electrophoresis	Total buffer volume for 2 gels: 700ml 1-4 gel system including 5 combs, 5 sets of glass plates, 2 casting stands, 4 casting frames, Handcast gel compatible: 8.3X7.3 cm±1, 10 wells, 1mm thickness, Dimension: Standard	01	USA/ Europe/Japan OR Equivalent
30.	Mini horizontal gel electrophoresis:	Complete Set - Including base gel running unit, safety lid, at least two casting trays and combs. Gel Casting Tray: Standard form; Combs sizes: 1.0 mm -16 wells, 20 wells, 28 wells, 40 wells. Gel Size (W*L) 78*100mm Sample volume 10, 15 Buffer Volume ~400ml Dimension: Standard	01	USA/ Europe/Japan OR Equivalent
31.	GEL Documentation System	Maximum Sample Size: 28 x 36 cm Maximum Image Area: 25 x 26 cm Excitation Source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination modes: 3 Trans UV & White, Epi-White Detector: Super Cooled CCD CCD Resolution (H x V): 1300 (H) x 1030 (V) Pixel Size (in Microns): 6.7 (H) X 6.7 (V) Cooling System: Peltier cooled Camera Cooling Temp.: -45°C Filter Holder: 3 positions 2-Emission Filter 1-Chemi Emission Filters: 1 Included (amber), 4	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		optional Pixel Density (gray levels): 12 bit (4096 gray levels) Dynamic Flat Fielding: Yes Operating Voltage: 100/115/230 VAC Nominal Operating Temperature: 10-28°C (21°C recommended), Computer , software and all accessories Preferred /Dimensions (cm): 36(L) x 61(W) x 96(H)±10cm		
32.	Power supply basic	For gel electrophoresis system (each for mini, midi and maxi) Power Supply suitable for horizontal gel electrophoresis	01	USA/ Europe/Japan OR Equivalent
33.	Vacuum pump with accessories	Chamber: Teflon coated aluminum Chamber seal: Silicone rubber Pump heads: 2-headed pump with ETFE diaphragms Cover: Transparent acrylic lid with safety lock Motor: Maintenance-free induction motor Noise: <65dba Vacuum pump: ETFE oil-free diaphragm pump Preferred Dimensions (WxDxH): 11.5 x 25 x 12 in / 29 x 64 x 31 cm ±10cm	01	USA/ Europe/Japan OR Equivalent
34.	Gel dryer Machine	Drying surface: 35 x 45 cm Gel capacity: 16 mini (8 x 7 cm) gels, 9 Criterion™ (13.3 x 8.7 cm) gels, 2 large (20 x 20 cm) gels, 1 sequencing gel Sealing gasket: Transparent silicone rubber Vacuum source: Minimum ultimate vacuum of 25" Hg pump with a rating of 28" Hg or better and a capacity of 20–30 L/min recommended Operating temperature: 50–90°C Operating cycles: 3 programmable cycles	01	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
		(PAGE gel, sequencing, gradient) for various gel types LED display: Dryer temperature, time left in drying cycle Preferred Dimensions (W x D x H): 55 x 50 x 11 cm ±5cm		
35.	Micro Pipettes complete Set of 4	<ul style="list-style-type: none"> • Full sets range (0.1 – 2 µl; 1-10 µl, 2-20 µl, 10-100 µl, 100-1000 • µl or more or less similar ranges) • metal ejector, easily adjusted • compatible/adjustable with different kinds of filter tips • Power: 220-240 volts 	04	USA/ Europe/Japan OR Equivalent
36.	Fluorescence confocal Microscope	<p>Camera Type: 1.3 Megapixels, Monochrome, HAD CCD, 1/3 in. Color: Green, Red, Blue Data Outputs: JPG Files, PNG Files, BMP Files, TIFF Files</p> <p>Display Type: Adjustable Tilt, 15 in. Color Emission Wavelength: 446/33 (Blue), 532/59 (Green), 646/68 (Red) Excitation Wavelength: 390/40 (Blue), 482/18 (Green), 586/15 (Red) Filter Type: FITC, Texas Red, DAPI Resolution: Image resolution - 1296 x 964 pixels, Display resolution - 1366 x 768 pixels Magnification Power: 460X (optical), 1840X (digital) Objective Types: Fixed, Plan Fluorite</p> <p>Preferred Dimensions (W x D x H): 55 x 50 x 11 cm ±5cm</p>	01	USA/ Europe/Japan OR Equivalent
37.	Nano drop	<ul style="list-style-type: none"> • Microvolume UV-Vis spectrophotometer <p>Absorbance Accuracy: 3% at 0.97 A, 302 nm, 23 ± 2C°</p>	01	USA/ Europe/Japan OR

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
		Detector Type: 2048-element CMOS linear image sensor Wavelength Range: 190 – 850 nm Wavelength Accuracy: ± 1 nm Absorbance Range: 0.04 – 200 Abs (10 mm equivalent) Lamp: Xenon flash lamp Pathlength (Metric): 1.0 mm, 0.2 mm, 0.1 mm (automatically adjusting) Sample Volume (Metric): 1 - 2 μ L Spectral Resolution: ≤ 1.8 nm (FWHM at Hg 254 nm) Preferred Dimensions (L x W x H): 24 cm x 33 cm x 17 cm \pm 5cm (9.4 in x 13 in x 6.7 in)		Equivalent
38.	Hot air oven and microwave oven (one each)	<ul style="list-style-type: none"> • Hot air oven: Capacity: 100-150 Liters • Temp range: 20-300°C • Forced air convection, low temperature variation, programmable, digital display, integrated timer, stable material inside/outside • Power: 220-240 volts • Make: USA, Europe, Japan • Microwave oven: Capacity: 25-30 L • Turntable 250-300 mm • Stainless steel body • glass door/window • Power: 220-240 volts 	02	USA/ Europe/Japan OR Equivalent
39.	Inverted Microscope	Revolving Nosepiece: Standard Observation Tubes: Trinocular Condenser: NA 0.3/ W.D. 72 mm (built in) Tilting Binocular <ul style="list-style-type: none"> • Wide field • Fluorescence (Blue/Green Excitation, ultraviolet excitation, DIC, Phase contrast, Brightfield) • Stage mechanical/motorized 	01	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

Sr.#	Item Name	Specification	QTY	Make
		<ul style="list-style-type: none"> • Illumination: Halogen/Xenon/LED • Revolving Nosepiece (quadrupole) • All objectives Preferred Dimensions (W × D × H): 200 mm × 498 mm × 454 mm ±50mm		
40.	Water Distillation Plant	Distillation Apparalus a 1 glass Borosilicate Glass fitted with metal clement 3 KW . Output: litres/hour-4 single distilled <ul style="list-style-type: none"> – Quality of distillate: pH-5.0 – 6.5 – Conductivity us/cm: 3.0-4.0 – Resistivity mega Ohm-cm: 0.25-0.30 – Pyrogen content: Pyrogen free – Temperature: 25-35 deg 	01	USA/ Europe/Japan OR Equivalent
41.	Digital Magnetic Stirrer	Standard spec.	01	USA/ Europe/Japan OR Equivalent
42.	Laminar flow	<ul style="list-style-type: none"> • Class I, Orientation: Vertical • Material: Stainless steel • Preferably corrosion resistant • Filter: HEPA filter • Digital display • UV decontamination • LED light • 4-6 feet wide • safety glass • Preferably with all around vision • -Power 220-240 Dimension: Standard	01	USA/ Europe/Japan OR Equivalent
43.	Autoclave Bench Top	Effective capacity: 16 L Operation mode: Sterilization - drying, Sterilization (For Solids/ For Liquid) Sterilization temperature setting range 105°C - 134°C (in 1°C increments) Time setting	01	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
		range 1 min - 60 min, variable Water supply / drainage method: Water tank (circulation type) Safety devices: Over-pressure relief valve, Over-pressure power cutoff with alarm, Low water power cut off with alarm, Microprocessor malfunction detection device with alarm, Circuit breaker Pressure vessel category: Simple pressure vessel Electrical: 230V, 50Hz / 60Hz Preferred Outside dimensions (W x D x H mm): 505 x 535 x 380± 50		
44.	2DE & Western blotting kits	2-DE starter kit including all chemicals, Protein marker (n=3), Commassie stain, developer, Fixative each,	02	USA/ Europe/Japan OR Equivalent
45.	Hot air oven	Capacity: 100-150 Liters • Temp range: 20-300oC • Forced air convection, low temperature variation, programmable, digital display, integrated timer, stable material inside/outside • Power: 220-240 volts	01	USA/ Europe/Japan OR Equivalent
46.	UV Trans illuminator	With the operating port for cutting the gel. No need for dark room, can be used for all weather. Using the UV filter glass quartz ultraviolet lamp, long service life, light uniform. Preferable specifications: Transmission Size(W*L) 200*150mm Transmission UV Wavelength 302nm Reflectance UV Wavelength 254, 365nm Transmission UV Lamp Power 302nm(8W) Reflectance UV Lamp Power 254nm(11W), 365nm(11W)	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
47.	Digital compound microscope	<p>Preferably with the following specification with Viewing Head Sliding Trinocular Head, inclined at 45 ° and 360 ° Rotatable, Interpapillary distance 55-75mm Eyepiece wide Field Eyepiece WF10×/ 20mm or higher Nosepiece Quadruple Nosepiece Objective Plan Achromatic Objective 4×, 10×, 40×, 100× Total magnifications With 10x eyepiece: 40×, 100×, 400×, 1000× Stage Double Layer Mechanical Stage Focus Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 28mm Condenser Abbe NA 1.25 with Iris Diaphragm & Filter Illumination 1W S-LED Illumination, Brightness Adjustable Plane-concave Mirror Body / Energy Firm Aluminum Body and built in power supply 110-240V Supplied with Dust cover, immersion oil and user manual Package 1pc/carton, 33cm×28cm×44cm×,7kg USB Camera 5.0 mega Pixels minimum Dimension: Standard</p>	25	USA/ Europe/Japan OR Equivalent
48.	Tissue homogenizer	<p>Preferably Samples Volume : from 0.2 mL to 100 mL . The TH can usually process a tissue sample in less than 30 seconds and is compatible for protein extraction.</p>	01	USA/ Europe/Japan OR Equivalent
49.	Ultra sonicator	<ul style="list-style-type: none"> • Benchtop • Digital display • Ultrasonic frequency: 37-80 kHz • Max. Capacity: 5-7 L 	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		<ul style="list-style-type: none"> • Tank Operating Capacity: 4-6 L • Preferably with multiple ultrasonic features • Automatic safety switch • Heating Temperature range 5-100°C • Power: 220-240 		
50.	Anaerobic Jar	<ul style="list-style-type: none"> • For growth of anaerobic bacteria • Min. 3.5 L capacity • Jar and Lid are made of robust materials to ensure protection of operator and equipment • Supplied with a corrosion-resistant plate carrier • the jar should hold upto 12-15 petri dishes • - Power: 220-240 V 	01	USA/ Europe/Japan OR Equivalent
51.	Electroporation system with standard spec.	<p>Preferably Four electroporation chambers. Maintains the sample temperature during processing. The pulse control unit delivers a 400V pulse, Set for durations from <0.1 to >200 msec.</p> <p>An internal shunt resistor can be switched in or out for high- or low-salt cell suspensions. System include all accessories</p>	01	USA/ Europe/Japan OR Equivalent
52.	Isoelectric focusing with starter kit and accessories	<p>Input Power: 100–240 VAC, 50/60 Hz Current 0–100 μA, 1 μA intervals per lane Power Input IEC 60320 standard cord set with ground Tray capacity: 1 tray Temperature: 10–25°C \pm 0.5°C @ max. ambient temperature 23°C Focusing tray Material: Polycarbonate IPG strip length 7, 11, 13, 17, 18, and 24 cm Capacity 1–12 IPG strips per tray Max. channel volume 7 cm: 7 ml; 11 cm: 10 ml; 13 cm: 11.2 ml;</p> <p>Rehydration/Equilibration Trays: Polystyrene IPG strip length: 7, 11, 13, 17, 18, and 24 cm</p>	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		Capacity: 1–12 IPG strips per tray Max. channel volume:7 cm: 6.8 ml; 11 cm: 9.6 ml; 13 cm: 10.5 ml;		
53.	Rocker with desiccator	Rocker 410C, PTFE Coated Chemical Resistant Vacuum Pump AC110V, 60Hz Desiccator • Plate size 230 or more • Height 13 in or more • Width 27 cm or more • Diameter 9 inch or more • Color transparent • Material polycarbonate	10	USA/ Europe/Japan OR Equivalent
54.	Coliform analyzer	•Up to 10 simultaneous tests for coliform •presence/absence with count estimation for level of severity indication on positive results. •Sample Handling Manual sample acquisition with Direct-to-Test™ capability eliminates sample handling and mixing of reagents. Dynamic range of 10 ⁶ CFU in 100 ml without requirement for sample dilution. •Digital display	01	USA/ Europe/Japan OR Equivalent
55.	Two dimensional gel electrophoresis (2-DE) Apparatus with accessories	Number of gels: 1–4 Gel size (W x L) 18.3 x 20 cm (handcast 18.3 x 19.3 cm (precast) Glass plate size (W x L) Inner plate 20 x 20 cm Outer plate 20 x 22.3 cm Spacer length 22.3 cm Typical upper buffer volume 350 ml Typical lower buffer volume 1.2 L Typical run times for SDS-PAGE	01	USA/ Europe/Japan OR Equivalent
56.	Speed VAC	Chamber: Teflon coated aluminum Chamber seal: Silicone rubber Pump heads: 2-headed pump with ETFE diaphragms Cover: Transparent acrylic lid with safety lock	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		Motor: Maintenance-free induction motor Noise: <65dba Vacuum pump: ETFE oil-free diaphragm pump Preferred Dimensions (WxDxH): 11.5 x 25 x 12 in / 29 x 64 x 31 cm±10cm		
57.	Gel Dryer with scanner	Drying surface: 35 x 45 cm Gel capacity: 16 mini (8 x 7 cm) gels, 9 Criterion™ (13.3 x 8.7 cm) gels, 2 large (20 x 20 cm) gels, 1 sequencing gel Sealing gasket: Transparent silicone rubber Vacuum source: Minimum ultimate vacuum of 25" Hg pump with a rating of 28" Hg or better and a capacity of 20–30 L/min recommended Operating temperature: 50–90°C Operating cycles: 3 programmable cycles (PAGE gel, sequencing, gradient) for various gel types LED display: Dryer temperature, time left in drying cycle Preferred Dimensions (W x D x H): 55 x 50 x 11 cm±5cm	01	USA/ Europe/Japan OR Equivalent
58.	Semi dry Tran blot	Maximum gel size (W x L), cm 24 x 16±5cm Buffer requirement, ml 200 Gel capacity 4 Mini-PROTEAN® precast or hand cast gels, 3 Criterion™ gels, 1–3 Preferred Dimensions (W x L x H), cm 37 x 24 x 11 ±5cm	01	USA/ Europe/Japan OR Equivalent
59.	Carbon dioxide (CO2) incubator with stand and CO2 Cylinder	Type: CO2 Incubator with stand and cylinder Chamber Material: Copper Capacity (English): 5.3 cu. ft. 150L CO2 Sensor Technology: TC Sensor CO2 Concentration Range: 0 to 20% Temperature Range (Metric): Ambient +3°C to	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		55°C Relative Humidity: <90% at 37°C Humidity Source: Integrated water reservoir Lighting: LED O2 Concentration Range: Optional 1 to 21% or 5 to 90% Oxygen Control: Optional 1 to 21% or 5 to 90% Electrical Requirements: 230 V, 50/60 Hz Preferred Interior Dimensions: (D x W x H) 120.9 x 18.5 x 23.9 in. (53 x 47 x 60.7 cm)±12cm		
60.	Ice making machine	<ul style="list-style-type: none"> • Flaked ice maker with Bin • Easy-access door slide • Non-ozone depleting • Capacity: 20-40kg/h • Corrosion-resistant stainless-steel body • Accessories: Ice scoop/tray etc. • Power: 220-240 volts 	01	USA/ Europe/Japan OR Equivalent
61.	Vaccume pump	Chamber: Teflon coated aluminum Chamber seal: Silicone rubber Pump heads: 2-headed pump with ETFE diaphragms Cover: Transparent acrylic lid with safety lock Motor: Maintenance-free induction motor Noise: <65dba Vacuum pump: ETFE oil-free diaphragm pump Preferred Dimensions (WxDxH): 11.5 x 25 x 12 in / 29 x 64 x 31 cm±10cm	01	USA/ Europe/Japan OR Equivalent
62.	Multihued microscope with LED display	Head: Trinocular Main for 3 users Binocular Secondary (x2) Eyepieces: 10x Eyepieces Nosepiece6 Position Focusing: Coaxial coarse & fine adjustment Stage: Graduated mechanical XY stage	01	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		Objectives: D Plan 4x, 10x, 20x, 40x, 100x oil Condenser: 1.25 N.A. Light Source: Halogen		
63.	Dark room equipments for blotting	It includes: X-ray film for western blotting dark room, X-ray film cassette, Transparent sheet protector	01	USA/ Europe/Japan OR Equivalent
64.	2DE Densitometer software	Software for protein Densitometry analysis, 2-D gel-based expression proteomics studies, Powerful auto-matching algorithms quickly and accurately match gels with little or no manual intervention	01	USA/ Europe/Japan OR Equivalent
65.	Accessory and running equipments/Chemicals/kits Proteomics and Genomics	Detailed list attached as Annexure A	01	USA/ Europe/Japan OR Equivalent

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ANNEX – A (Accessory and running equipments/Chemicals/kits Proteomics and Genomics)

S. No	Description	Size/ Volume	Quantity
A: Chemicals/Reagents			
1.	Nutrient agar from Oxoid/Merck/Sigma/Equivalent	500g	10
2.	MHA agar Oxoid/Sigma/Equivalent	Pkt (10 vial)	10
3.	Genomic DNA Extraction kit Oxoid/Sigma/Merck/Equivalent	Kit (50prep)	3
4.	Nutrient Broth from Oxoid/Merck/Sigma/Equivalent	500g	10
5.	Agar agar from Oxoid/Merck/Sigma/Equivalent	500g	10
6.	Muler Hinten agar from Oxoid/Merck/Sigma/Equivalent	500g	10
7.	SS agar from Oxoid/Merck/Sigma/Equivalent	500g	1
8.	Gram staining kit from Oxoid/Merck/Sigma/Equivalent	1L	4
9.	PCR master mix including dNTPs, Taq polymerase, MgCl ₂ with all buffers and ready to use from Thermo/Qiagen/Invitrogen/Equivalent	Vial	5
10.	Medi-Palomid extraction with all buffers from Thermo/Qiagen/Invitrogen/Equivalent	Kit	1
11.	Bacterial Cloning kit with all buffers from Thermo/Qiagen/Invitrogen/Equivalent	Kit	1
12.	DNA marker Thermo/Qiagen/Invitrogen/Equivalent	Vial	22
13.	DNA loading dye Thermo/Qiagen/Invitrogen/Equivalent	Vial	5
14.	Ethanol Absolute HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	2.5L	5
15.	Methanol HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	400ml	5
16.	Phenol from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	5
17.	Isopropanol from Carlroth/Applichem/Merck/Sigma/Equivalent	2.5L	5
18.	Chloroform from Carlroth/Applichem/Merck/Sigma/Equivalent	2.5L	1
19.	Formaldehyde from Carlroth/Applichem/Merck/Sigma/Equivalent	2.5L	1
20.	Agarose from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	5
21.	Gram Safranin from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1
22.	Carbol Fuchsin from Carlroth/Applichem/Merck/Sigma/Equivalent	25g	1
23.	Sulfuric acid (100%) from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1
24.	Methylene blue from Carlroth/Applichem/Merck/Sigma/Equivalent	25g	1
25.	Potassium iodide from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1
26.	Sodium bicarbonate from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1
27.	Acetone (100%) from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1
28.	Crystal violet from Carlroth/Applichem/Merck/Sigma/Equivalent	200g	1
29.	Ammonium oxalate from Carlroth/Applichem/Merck/Sigma/Equivalent	200g	1
30.	Ethidium bromide from Carlroth/Applichem/Merck/Sigma/Equivalent	5g	2
31.	Sodium dodecyl sulfate (SDS) from Biorad/Sigma/Applichem/Equivalent	1kg	2
32.	Protein extraction kit from Biorad/Thermo/Equivalent		
33.	Bradford reagent with BSA standard from Biorad/Equivalent	500ml	1
34.	HCL HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1
35.	EDTA from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1
36.	Triton X-100 from Carlroth/Applichem/Merck/Sigma/Equivalent	500ml	1
37.	CHAPs from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1

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S. No	Description	Size/ Volume	Quantity
38.	Tween 20 from Carlroth/Applichem/Merck/Sigma/Equivalent	200ml	1
39.	Tween 80 from Carlroth/Applichem/Merck/Sigma/Equivalent	500ml	1
40.	Urea from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1
41.	Thiourea from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1
42.	HEPES from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1
43.	Dithiothreitol (DTT) from Carlroth/Applichem/Merck/Sigma/Equivalent	10g	1
44.	Glycine from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1
45.	Tris base from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1
46.	Bovine serum albumin from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1
47.	Borate from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1
48.	Bromophenol blue from Carlroth/Applichem/Merck/Sigma/Equivalent	25g	1
49.	DMSO HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	950ml	1
50.	Glycerol from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1
51.	Sodium pyrophosphate from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1
52.	Sodium fluoride from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1
53.	Comassei blue stain from Carlroth/Applichem/Merck/Sigma/Equivalent	50g	1
54.	Silver nitrate from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1
55.	Sodium thiosulfate from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1
56.	Sodium carbonate from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1
57.	Acetic acid from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1
58.	Trifluoroacetic acid (TFA) HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	100ml	1
59.	Acetonitrile HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1
60.	Ammonium bicarbonate (AMBIC) HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1
61.	Formic acid HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	10ml	1
62.	Iodoacetamide HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	25g	1
63.	Potassium ferricyanide HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1
64.	Stacking gel buffer from Biorad/Equivalent	1L	2
65.	Gradient Immobilized pH gradient strips from Biorad/Equivalent	Pkt	1
66.	Ammonium per sulphate (APS) from Biorad/Equivalent	10g	1
67.	TEMED (Analytical grade) from Biorad/Equivalent	100ml	1
68.	Laemli buffer premixed from Biorad/ Equivalent	Vial	2
69.	Protein marker prestained, 10-250KDa from Biorad/Thermo/Sigma/Equivalent	Vial	1
70.	PVDF membrane for blotting from Thermo/Merck/Sigma/Equivalent	1 roll	1
71.	Milk powder analytical grade Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1
72.	Anti-human IgG secondary antibodies Thermo/Carlroth/Sigma/Equivalent	2ml	1
73.	Enhanced chemiluminescence (ECL) from GE Health Care/Thermo/Merck/Equivalent	125ml	1
74.	X-ray film for Western blot detection from Amershum/Thermo/Equivalent	Pkt	1
75.	X-ray cassettes from Thermo/Merck/Sigma/Equivalent	Each	1
76.	X-Ray Developer from Kodak/Thermo/Fuji/Sigma/Equivalent	Each	1
77.	X-Ray Fixer from Kodak/Thermo/Fuji/Sigma/Equivalent	Each	1

B: Glass ware/ Lab ware: All autoclavable

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S. No	Description	Size/ Volume	Quantity
78.	Glass Samples bottles blue caps (1L) from Borosil/BD/Corning/Thermo/Equivalent	Each	20
79.	Glass Samples bottles blue caps (500ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	25
80.	Glass Samples bottles blue caps (100ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	25
81.	Glass Conical Flask Pyrex (1000 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	20
82.	Glass Conical Flask Pyrex (500 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	20
83.	Glass Conical Flask Pyrex (250 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	20
84.	Glass Beakers Pyrex (500 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	20
85.	Glass Beakers Pyrex (100 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	50
86.	Glass Test tubes (20 X 150 mm) from Borosil/BD/Corning/Thermo/Equivalent	Each	50
87.	Glass Petri dish (90x15 mm) from Borosil/BD/Corning/Thermo/Equivalent	Both side plates	200
88.	Glass Graduated cylinders (1 L) from Borosil/BD/Corning/Thermo/Equivalent	Each	10
89.	Glass Graduated cylinders (500 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	10
90.	Glass Graduated cylinders (250 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	10
91.	Glass Graduated cylinders (10 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	10
92.	Plastic Graduated cylinders (500 ml) from BD/Corning/Thermo/Equivalent	Each	100
93.	Cryo vials (1.8 ml) from Borosil/BD/Corning/Thermo/Equivalent	Pkt	2
94.	Microscope slides Borosil/BD/Corning/Thermo/Equivalent	Box (100 slide)	20
95.	Gloves, Latex, Powder free, Medium +Large from Corning/Thermo/Equivalent	Pkt	20
96.	Pipette Blue tips for 1000 µl, Autoclavable from Corning/Thermo/Equivalent	Pkt (1000 pieces)	10
97.	Pipette Yellow tips for 100 µl, Autoclavable from Corning/Thermo/Equivalent	Pkt (1000 pieces)	30
98.	Pipette white tips for 10 µl, Autoclavable from Corning/Thermo/Equivalent	Pkt (1000 pieces)	30
99.	Filtered tips for 1000 µl, from Corning/Thermo/Equivalent	Box (96 pieces)	10
100.	Filtered tips for 100 µl, from Corning/Thermo/Equivalent	Box (96 pieces)	10
101.	Filtered tips for 10 µl, from Corning/Thermo/Equivalent	Box (96 pieces)	10
102.	Falcon Tube 50 ml, autoclavable from Corning/Thermo/Equivalent	Pkt (50pcs)	20
103.	Falcon Tube 15 ml, autoclavable Corning/Thermo/Equivalent	(50pcs)	20
104.	Eppendorf tubes 1.5 from Corning/Thermo/Equivalent	Pkt	5
105.	Eppendorf tubes 2.0 ml Corning/Thermo/Equivalent	Pkt (400pcs)	5
106.	PCR Tubes 0.2ml Corning/Thermo/Equivalent	Pkt (1000pcs)	5
107.	Paraffin roll	Each	10

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Section V

TECHNICAL SPECIFICATIONS MEDICAL LAB TECHNOLOGY DEPARTMENT

Sr.#	Item Name	Specification	QTY	Make
1.	Incubator	Temp. range: 5-70°C; stable, benchtop; Range capacity (150±100L) • chamber material stainless steel, • preferably corrosion resistant • uniform temperature (0.2°C or less) • digital display, energy efficient and compatible with electric settings • shelves adjustable (preferred) Dimensions: w(A) x h(B) x d(C): 400 x 320 x 250 mm ±50mm	1	USA/ Europe/Japan OR Equivalent
2.	Water bath	Benchtop water bath Chamber material: Stainless steel -Digital controller with display (microprocessor controller) - Temperature range: 100°C, ambient to 100°C-Audible alarm - Capacity: 5-15 L - Quick disconnect drainage - Power: 220-240	2	USA/ Europe/Japan OR Equivalent
3.	Autoclave Automated	Capacity: 110 L Chamber material : Stainless steel (SUS304) Operation mode: 5 modes (LIQUID, SOLID, WASTE, AGAR, DISSOLUTION) Temperature setting range: Sterilization: 105°C - 135°C Variable, Dissolution: 60°C - 100°C Variable Exhaust setting: 3levels (Without exhaust, Fine exahut, Small amount of exhaust) Maximum working pressure: 0.255MPa Thermometer: Digital display 5.0°C - 137.9°C Pressure gauge: Digital display 0MPa - 0.3MPa / Analog display 0.4MPa Safety devices:	1	USA/ Europe/Japan OR Equivalent

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Sr.#	Item Name	Specification	QTY	Make
		Pressure safety valve, Over-current and earth leakage breaker, Low water cut off device Supplied accessories: Bottom plate, Drainage hose, Exhaust hose, Exhaust bottle, Drain bottle, Caster stopper (2), Wire mesh basket (2) Electrical: 230V, 50Hz / 60Hz Dimensions (W x D x H mm): 667 x 652 x 1206 ±100mm		
4.	Incubator adjustable temperature	Stainless steel interior: easy-to-clean interior Make of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides, , Volume: 32 l, Max. number of internals: 3, Max. loading of chamber: 60 kg Max. loading per internal: 20 kg <ul style="list-style-type: none"> • Convection: Natural • Textured stainless steel casing: Housing rear zinc-plated steel • Setting temperature range: +20 to +80 °C • Working temperature range: at least 5 above ambient temperature to +80 °C • Setting accuracy temperature: 0.1 °C • Temperature sensor: 1 Pt100 sensor DIN class A in 4-wire-circuit • Single DISPLAY. Adaptive multifunctional digital PID-microprocessor controller with high-definition TFT-color display • Calibration: three freely selectable temperature values • Voltage 230 V, 50/60 Hz • Electrical load approx. 1600 W Preferred Dimensions: w(A) x h(B) x d(C): 400 x 320 x 250 mm ±50mm	1	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
5.	Shaker Incubator	Capacity=25±10liters Speeds ranging of 50 - 400 RPM temperature range of 7°C to 60°C.	1	USA/ Europe/Japan OR Equivalent
6.	Shaking Water bath	Capacity=90-100liters Speeds ranging of 50 - 400 RPM temperature range of 25°C to 10°C.	1	USA/ Europe/Japan OR Equivalent
7.	Mini Centrifuge Machine	Non-refrigerated, with Rotor 230 V/50 – 60 Hz (EU). Rotor capacity: 12 × 1.5/2.0 mL vessels, 2 × 8-tube PCR strips Max. speed: 14,100 × g (14,500 rpm) Noise level: <52 dB(A) Volume range: 24 mL• Dimensions 22.5 × 23.0 × 13.0 cm ±5cm / 8.86 × 9.06 × 5.12 in	1	USA/ Europe/Japan OR Equivalent
8.	Refrigerated centrifuge	Cooling: Refrigerated Temperature range: -9 °C to 40 °C Speed: 200 – 14,000 rpm Max.RCF:20,913×g Max.RCF with fixed-angle rotor:20,913×g Max.RCF with swing-bucket rotor:4500×g Display: large, brightly lit LCD Rotors available: 18 Noise level: <56 dB(A) Volume range: 3L Max. power consumption: 1650 W Max. capacity:56×15mL/28×50 mL, 100 × 13 mm/80×16 mm Power supply: 230 V, 50 – 60 Hz Preferred Dimensions (W × D × H): 70.0 × 60.8 × 34.5 cm±10cm / 27.6 × 23.9 × 13.6 in	1	USA/ Europe/Japan OR Equivalent
9.	Analytical electronic balance	• Unit of measurement: gram • Resolution: 0.1mg • Weighing Range: up to 250g • Tare range: full •Bias: ±0.001g • Time for weight stability: not more than 3 second •Sensitivity drift: not more than +/-	1	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
		1.0ppm/ deg C (10-30 deg C) • Repeatability: not more than +/- 0.1mg • Come with full glass draught shield • Come with auto-calibration, waterproof, dust-proof and shock- proof function • Please declare in detail compliance of this item offered with any relevant quality and safety standards		
10.	pH meter bench top	Benchtop • epoxy-body •stainless steel ATC probe •100-240Vuniversal power adapter, computer cable •Buffer kits •Range -2.000 to 19.999 pH •Conductivity range 0-1000m.siemens/cm •Accuracy (±1 digit): ±0.005 pH, ±0.01 pH •Automatic buffer recognition and LCD display •External 100-240VAC,50/60 Hz or 9V battery •With all buffers •Power: 220-240V	1	USA/ Europe/Japan OR Equivalent
11.	Automated Hematology blood analyzer	Upto 15 blood parameters in whole blood mode and pre-diluted mode preferable include WBC, RBC, HGB, HCT , MCV,MCH,MCHC,PLT,LYM% (W-SCR) • MXD% (W-MCR),NEUT% (W-LCR), LYM#(W-SCC),MXD(W-MCC),mNEUT, (W-LCC), RDW-SD, RDW-CV, PDW, MPV, P-LCR, PCT • DC detection method (WBC, RBC/PLT) • Non-cyanide hemoglobin detection method (HGB) • approx. 60 samples per hour approx. • 50 µL (whole blood mode • approx. 20 µL (pre-diluted mode) Preferred Dimension w x h x d [mm] / [kg] 420 x 480 x 355 ±50mm/ approx. 30	1	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
12.	Two-Dimensional Gel electrophoresis (2DE) with accessories	Number of gels: 1–4 Gel size (W x L) 18.3 x 20 cm (hand cast 18.3 x 19.3 cm (precast) Glass plate size (W x L) Inner plate 20 x 20 cm Outer plate 20 x 22.3 cm Spacer length 22.3 cm Typical upper buffer volume 350 ml Typical lower buffer volume 1.2 L Typical run times for SDS-PAGE.	1	USA/ Europe/Japan OR Equivalent
13.	Hot plate with magnetic stirrer	Max Volume(ml)2000 Speed(r.p.m)100~2000 Working time Continuous Minimum revolution(r.p.m) 100 Max Temp. (°C) 380 Exterior Cast aluminum, Surface spraying Plate size(mm) 120×120 Driving mode Motor Motor power (W) 10 Heating Power(kW) 0.18 Stir bar PTFE	5	USA/ Europe/Japan OR Equivalent
14.	UV transilluminator	With the operating port for cutting the gel. * No need for dark room, can be used for all weather. * Using the UV filter glass quartz ultraviolet lamp, long service life, light uniform. Transmission Size(W*L) 200*150mm Transmission UV Wavelength 302nm Reflectance UV Wavelength 254, 365nm Transmission UV Lamp Power 302nm(8W) Reflectance UV Lamp Power 254nm(11W), 365nm(11W)	1	USA/ Europe/Japan OR Equivalent
15.	Refrigerator	Standard specification with Vertical, Capacity	01	USA/ Europe/Japan

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
		I 1 -12 cubic feet, 220 V, 50 hz.		OR Equivalent
16.	Micro Pipettes Complete Set	Capacity: 0.1 – 2.5 ul Capacity: 0.5 – 10ul Capacity: 2 – 20 ul Capacity: 5 – 50 ul Capacity: 10 – 100ul Capacity: 20 – 200ul Capacity: 100 – 1000ul 1. Light weight and ergonomically designed 2. Easy to calibrate and maintain 3. Digital display 4. Wide measurement range, 0.1µl to 10ml 5. Accurate dispensing 6. Fully autoclavable	3	USA/ Europe/Japan OR Equivalent
17.	UV Spectrophotometer	Optical System Double Beam, Grating 1200 lines/mm Wavelength Range 190 nm -1100nm Spectral Bandwidth 2nm or better Wavelength Accuracy ±0.3nm Wavelength Repeatability ≤0.1nm Photometric Accuracy ±0.3% T(0~100%T) Photometric Repeatability ±0.1% T(0~100%T) Photometric Range 0-200% T; -3~3A Stray Light ≤0.03% T Stability ±0.0003A/h @500 nm Baseline Flatness ±0.0010A Work mode T, A, C, E Scanning speed Fast, Mid, Slow Wavelength setting Auto Display 7" color LCD Light Source Imported Deuterium & Tungsten lamp Detector Imported Silicon Photodiode	1	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
		Output USB/RS232 Power AC 220V/50Hz or AC 110V/60Hz Preferred Dimensions (L x W x H): 24 cm x 33 cm x 17 cm±5cm (9.4 in x 13 in x 6.7 in)		
18.	Deionized Plant	Maximum flow rate 38 LPH1 Temperature range 4-49° C 40-120° F Plumbing service connections Inlet ~ 1/4" OD tubing Outlet ~ 1/4" OD tubing Drain ~ 1/4" OD tubing Overall dimensions Width 152 mm 6" Depth 213 mm 8-3/8" Height 724 mm 28-1/2 ±50mm	1	USA/ Europe/Japan OR Equivalent
19.	Water Distillation Plant	Output: litres/hour-4 single distilled – Quality of distillate: pH-5.0 – 6.5 – Conductivity us/cm: 3.0-4.0 – Resistivity mega Ohm-cm: 0.25-0.30 – Pyrogen content: Pyrogen free – Temperature: 25-35 deg Preferred Dimensions, (w x d x h) 50 x 45 x 45 cm.±10cm	1	USA/ Europe/Japan OR Equivalent
20.	Multi head microscope with display and camera	Head: Trinocular Main for 3 users Binocular Secondary (x2) Eyepieces: 10x Eyepieces Nosepiece6 Position Focusing: Coaxial coarse & fine adjustment Stage: Graduated mechanical XY stage Objectives: D Plan 4x, 10x, 20x, 40x, 100x oil Condenser: 1.25 N.A. Light Source: Halogen	1	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
22.	Digital microscope	Viewing Head Sliding Trinocular Head, inclined at 45 ° and 360 ° Rotatable, Interpupillary distance 55-75mm Eyepiece wide Field Eyepiece WF10×/ 20mm or higher Nosepiece Quadruple Nosepiece Objective INFINITY Plan Achromatic Objective 4×, 10×, 40×, 100× Total magnifications With 10x eyepiece: 40×, 100×, 400×, 1000× Stage Double Layer Mechanical Stage 140×140mm/ 75×50mm Focus Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm	30	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
		per Rotation, Moving Range 28mm Condenser Abbe NA 1.25 with Iris Diaphragm & Filter Illumination 1W S-LED Illumination, Brightness Adjustable Plan-concave Mirror Body / Energy Firm Aluminum Body and built in power supply 110-240V Supplied with Dust cover, immersion oil and user manual Package 1pc/carton, 33cm×28cm×44cm×,7kg USB Camera 5.0 mega Pixels minimum Dimension: Standard		
23.	Ultra-purification system	<ul style="list-style-type: none"> • Type-1, type-2 and (preferably type-3) water purification system • for distilled water, de-ionized and ultrapure water in a single unit or machine. • DNA/RNA free water Preferred Dimensions: (WxDxH) 10.4 x 13.8 x 19.6 in.±4in	1	USA/ Europe/Japan OR Equivalent
24.	Ultrasonicator with probe and accessories	<ul style="list-style-type: none"> • Benchtop • Digital display • Ultrasonic frequency: 37-80 kHz • Max. Capacity: 5-7 L • Tank Operating Capacity: 4-6 L • Preferably with multiple ultrasonic features • Automatic safety switch • Heating Temperature range 5-100 C • - Power: 220-240 Preferred Exterior Dimensions (W x H x D). 13.5 x 30.5 x 13 in. (343 x 775 x 330 mm)	1	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Official Seal: _____

Official Seal: _____

Sr.#	Item Name	Specification	QTY	Make
		±50mm		
25.	Compound microscope with built in cameras	<p>Viewing Head Sliding Trinocular Head, inclined at 45 ° and 360 ° Rotatable, Interpupillary distance 55-75mm Eyepiece wide Field Eyepiece WF10×/ 18mm Nosepiece Quadruple Nosepiece Objective Achromatic Objective 4×, 10×, 40×, 100× Total magnifications With 10x eyepiece: 40×, 100×, 400×, 1000× Stage Double Layer Mechanical Stage 140×140mm/ 75×50mm Focus Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 28mm Condenser Abbe NA 1.25 with Iris Diaphragm & Filter Illumination 1W S-LED Illumination, Brightness Adjustable Plan-concave Mirror CAMERA 5.0 Megapixels with Software Can be connected to Laptop / Computer through Software Preferred Dimensions LxWxH 7.87 x 10.24 x 16.14 inches ±3in</p>	5	USA/ Europe/Japan OR Equivalent
26.	Anaerobic Jar	<p>For growth of anaerobic bacteria - Min. 3.5 L capacity - Jar and Lid are Make of robust materials to ensure protection of operator and equipment</p>	2	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Sr.#	Item Name	Specification	QTY	Make
		- Supplied with a corrosion-resistant plate carrier - the jar should hold upto 12-15 petri dishes - Power: 220-240 V		
27.	Carbon dioxide (CO2) incubator with stand and CO2 Cylinder	Type: CO2 Incubator with stand and cylinder Chamber Material: Copper Capacity (English): 5.3 cu. ft. 150L CO2 Sensor Technology: TC Sensor CO2 Concentration Range: 0 to 20% Temperature Range (Metric): Ambient +3°C to 55°C Relative Humidity: <90% at 37°C Humidity Source: Integrated water reservoir Lighting: LED O2 Concentration Range: Optional 1 to 21% or 5 to 90% Oxygen Control: Optional 1 to 21% or 5 to 90% Electrical Requirements: 230 V, 50/60 Hz Preferred Interior Dimensions: (D x W x H) 120.9 x 18.5 x 23.9 in. (53 x 47 x 60.7 cm)±12cm	1	USA/ Europe/Japan OR Equivalent
28.	Semi dry Tran blot	Maximum gel size (W x L), cm 24 x 16±5cm Buffer requirement, ml 200 Gel capacity 4 Mini-PROTEAN® precast or hand cast gels, 3 Criterion™ gels, 1–3 Preferred Dimensions (W x L x H), cm 37 x 24 x 11 ±5cm	1	USA/ Europe/Japan OR Equivalent
29.	Ice making machine	Flaked ice maker with Bin <ul style="list-style-type: none"> • Easy-access door slide • non-ozone depleting • Capacity: 20-40kg/h 	2	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

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Official Seal: _____

Sr.#	Item Name	Specification	QTY	Make
		<ul style="list-style-type: none"> • Corrosion-resistant stainless-steel body • Accessories: Ice scoop/tray etc. • Power: 220-240 volts 		
30.	Rotary evaporator	Rotary Bottle 1 L 24#(standard size or higher Collecting Bottle 1 L 35#(ball mill mouth) Condenser Vertical ϕ 85*430mm, Charging Valve 19#(standard size) Rotating Speed 0~180 rpm Vacuum -0.098 Mpa Temp. Range RT~99 °C Temp. Accuracy \pm 1°C Stroke Height 120 mm	1	USA/ Europe/Japan OR Equivalent
31.	Fume hood	Adjustable air speed: 9 levels. 2. Microprocessor control system, LED display. 3. Resistant to moderate acid and alkali. 4. With memory function in case of power-failure. 5. Manual front glass window, height adjustable. 6. Built-in PP centrifugal blower; low noise, easy installation. Work Surface Height 900mm Max Opening 750mm Air Velocity 0.3~0.8m/s System Exhaust Volume 570 m ³ /h NU-156-830 NOMINAL 8-foot (2.4inches) Filter depth (30 inches-762mm) Preferred External Size(W*D*H) 1000*800*2515mm \pm 100mm approx. Internal Size(W*D*H) 790*600*870mm	1	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

Sr.#	Item Name	Specification	QTY	Make
		±100mm approx.		
32.	Dark room setup with fixer, developer and other accessories each	It includes: X-ray film for western blotting dark room, X-ray film cassette, Transparent sheet protector	1	USA/ Europe/Japan OR Equivalent
33.	Gradient PCR	Thermoblock: Aluminum Sample capacity: 96 × 0.2 mL PCR tubes, 1 PCR plate (96 wells) or up to 71 × 0.5 mL PCR tubes Heating technology: Peltier elements, Triple Circuit Technology Temperature control range of the block: 4 – 99 °C Gradient range: 1 – 20 °C Lid temperature range: 37 – 110 °C Lid descent: flex lid® technology, with TSP Power supply: 230 V, 50 – 60 Hz Preferred Dimensions (W × D × H): 25 × 41.2 × 32.1 cm ±10cm / 9.8 × 16.2 × 12.6 in	1	USA/ Europe/Japan OR Equivalent

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

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Section VI. Sample Forms

Notes on the Sample Forms

The Bidder shall complete and submit with its bid the Bid Form and Price Schedules pursuant to ITB Clause 9 and in accordance with the requirements included in the bidding documents.

When requested in the Bid Data Sheet, the Bidder should provide the Bid Security, either in the form included hereafter or in another form acceptable to the Procuring agency, pursuant to ITB Clause 15.3.

The Contract Form, when it is finalized at the time of contract award, should incorporate any corrections or modifications to the accepted bid resulting from price corrections pursuant to ITB Clause 16.3 and GCC Clause 17, acceptable deviations (e.g., payment schedule pursuant to ITB Clause 25.4 (c), spare parts pursuant to ITB Clause 25.4 (d), or quantity variations pursuant to ITB Clause 29. The Price Schedule and Schedule of Requirements deemed to form part of the contract should be modified accordingly.

The Performance Security and Bank Guarantee for Advance Payment forms should not be completed by the bidders at the time of their bid preparation. Only the successful Bidder will be required to provide performance security and bank guarantee for advance payment in accordance with one of the forms indicated herein or in another form acceptable to the Procuring agency and pursuant to GCC Clause 7.3 and SCC 11, respectively.

The Manufacturer's Authorization form should be completed by the Manufacturer, as appropriate, pursuant to ITB Clause 13.3 (a).

Employer's Signature: _____

Bidder's Signature: _____

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Sample Forms

1.	BID FORM AND PRICE SCHEDULES	56
2.	BID SECURITY FORM	58
3.	CONTRACT FORM	59
4.	PERFORMANCE SECURITY FORM	60
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6.	MANUFACTURER'S AUTHORIZATION FORM	62
7.	INTEGRITY PACT	63

Employer's Signature: _____

Bidder's Signature: _____

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1. Bid Form and Price Schedule

Date: _____
IFB No: _____

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 in accordance with the delivery schedule specified in the Schedule of Requirements.

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

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

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PRICE BID FORMAT

**MICROBIOLOGY DEPARTMENT
Price Schedule/Bill of Quantities**

(The bidder has to quote bid prices on the format given below for all the items)

Sr.#	Item Name	QTY (A)	Unit CIF Price in US \$ (B)	Total CIF Price in US \$ C= (A) * (B)
1.	Power Supply	01		
2.	Laboratory loop Sterilizers	01		
3.	Biosafety Cabinet II A2 with base stand	01		
4.	Autoclave Automated	01		
5.	Incubator adjustable temperature	01		
6.	Automated Bacterial Identification system	01		
7.	Membrane filtration apparatus	01		
8.	Automated Media preparatory	01		
9.	Shaker Incubator	01		
10.	Water bath with adjustable temperature	01		
11.	Shaking Water bath	01		
12.	Mini Centrifuge Machine	01		
13.	Centrifuge Machine refrigerated	01		
14.	Electronic balance	01		
15.	Electronic Colony Counter	01		

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

Sr.#	Item Name	QTY (A)	Unit CIF Price in US \$ (B)	Total CIF Price in US \$ C= (A) * (B)
16.	Multichannel Micropipette set	04		
17.	pH meter bench top/portable	01		
18.	Class 1 safety cabinet with Support stand	01		
19.	Hot plate magnetic stirrer	02		
20.	Gradient PCR machine	01		
21.	Ultra Low freezer -80°C	01		
22.	Dyna beads plate (DynaMag-2)	04		
23.	Refrigerator	01		
24.	Fume Hood	01		
25.	SDS PAGE Vertical gel electrophoresis	01		
26.	Thermal Cycler PCR	01		
27.	Block heater	02		
28.	3-D rocker	01		
29.	Vertical Gel Electrophoresis	01		
30.	Mini horizontal gel electrophoresis:	01		
31.	GEL Documentation System	01		
32.	Power supply basic	01		
33.	Vacuum pump with accessories	01		
34.	Gel dryer Machine	01		

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

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Sr.#	Item Name	QTY (A)	Unit CIF Price in US \$ (B)	Total CIF Price in US \$ C= (A) * (B)
35.	Micro Pipettes complete Set of 4	04		
36.	Fluorescence confocal Microscope	01		
37.	Nano drop	01		
38.	Hot air oven and microwave oven (one each)	02		
39.	Inverted Microscope	01		
40.	Water Distillation Plant	01		
41.	Digital Magnetic Stirrer	01		
42.	Laminar flow	01		
43.	Autoclave Bench Top	01		
44.	2DE & Western blotting kits	02		
45.	Hot air oven	01		
46.	UV Trans illuminator	01		
47.	Digital compound microscope	25		
48.	Tissue homogenizer	01		
49.	Ultra solicitor	01		
50.	Anaerobic Jar	01		
51.	Electroporation system with standard spec.	01		
52.	Isoelectric focusing with starter kit and accessories	01		
53.	Rocker with desiccator	10		

Employer's Signature: _____

Bidder's Signature: _____

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Sr.#	Item Name	QTY (A)	Unit CIF Price in US \$ (B)	Total CIF Price in US \$ C= (A) * (B)
54.	Coliform analyzer	01		
55.	Two dimensional gel electrophoresis (2-DE) Apparatus with accessories	01		
56.	Speed VAC	01		
57.	Gel Dryer with scanner	01		
58.	Semi dry Tran blot	01		
59.	Carbon dioxide (CO2) incubator with stand and CO2 Cylinder	01		
60.	Ice making machine	01		
61.	Vacuum pump	01		
62.	Multihued microscope with LED display	01		
63.	Dark room equipments for blotting	01		
64.	2DE Densitometer software	01		
65.	Accessory and running equipments/Chemicals/kits Proteomics and Genomics	01		
Grand Total CIF Price in US \$				

Note: In case of discrepancy between unit price and total, the unit price shall prevail.

Employer's Signature: _____

Bidder's Signature: _____

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ANNEX –A

S. No	Description	Size/ Volume	Qty (A)	Unit Price CIF in US \$ (B)	Total Price CIF Including Taxes C=A*B
A: Chemicals/Reagents					
1.	Nutrient agar from Oxoid/Merck/Sigma/Equivalent	500g	10		
2.	MHA agar Oxoid/Sigma/Equivalent	Pkt (10 vial)	10		
3.	Genomic DNA Extraction kit Oxoid/Sigma/Merck/Equivalent	Kit (50prep)	3		
4.	Nutrient Broth from Oxoid/Merck/Sigma/Equivalent	500g	10		
5.	Agar agar from Oxoid/Merck/Sigma/Equivalent	500g	10		
6.	Muler Hinten agar from Oxoid/Merck/Sigma/Equivalent	500g	10		
7.	SS agar from Oxoid/Merck/Sigma/Equivalent	500g	1		
8.	Gram staining kit from Oxoid/Merck/Sigma/Equivalent	1L	4		
9.	PCR master mix including dNTPs, Taq polymerase, MgCl ₂ with all buffers and ready to use from Thermo/Qiagen/Invitrogen/Equivalent	Vial	5		
10.	Medi-Palomid extraction with all buffers from Thermo/Qiagen/Invitrogen/Equivalent	Kit	1		
11.	Bacterial Cloning kit with all buffers from Thermo/Qiagen/Invitrogen/Equivalent	Kit	1		
12.	DNA marker Thermo/Qiagen/Invitrogen/Equivalent	Vial	22		
13.	DNA loading dye Thermo/Qiagen/Invitrogen/Equivalent	Vial	5		
14.	Ethanol Absolute HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	2.5L	5		
15.	Methanol HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	400ml	5		
16.	Phenol from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	5		
17.	Isopropanol from Carlroth/Applichem/Merck/Sigma/Equivalent	2.5L	5		
18.	Chloroform from Carlroth/Applichem/Merck/Sigma/Equivalent	2.5L	1		
19.	Formaldehyde from Carlroth/Applichem/Merck/Sigma/Equivalent	2.5L	1		
20.	Agarose from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	5		
21.	Gram Safranin from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1		
22.	Carbol Fuchsin from Carlroth/Applichem/Merck/Sigma/Equivalent	25g	1		
23.	Sulfuric acid (100%) from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1		

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S. No	Description	Size/ Volume	Qty (A)	Unit Price CIF in US \$ (B)	Total Price CIF Including Taxes C=A*B
24.	Methylene blue from Carlroth/Applichem/Merck/Sigma/Equivalent	25g	1		
25.	Potassium iodide from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1		
26.	Sodium bicarbonate from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1		
27.	Acetone (100%) from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1		
28.	Crystal violet from Carlroth/Applichem/Merck/Sigma/Equivalent	200g	1		
29.	Ammonium oxalate from Carlroth/Applichem/Merck/Sigma/Equivalent	200g	1		
30.	Ethidium bromide from Carlroth/Applichem/Merck/Sigma/Equivalent	5g	2		
31.	Sodium dodecyl sulfate (SDS) from Biorad/Sigma/Applichem/Equivalent	1kg	2		
32.	Protein extraction kit from Biorad/Thermo/Equivalent				
33.	Bradford reagent with BSA standard from Biorad/Equivalent	500ml	1		
34.	HCL HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1		
35.	EDTA from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1		
36.	Triton X-100 from Carlroth/Applichem/Merck/Sigma/Equivalent	500ml	1		
37.	CHAPs from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1		
38.	Tween 20 from Carlroth/Applichem/Merck/Sigma/Equivalent	200ml	1		
39.	Tween 80 from Carlroth/Applichem/Merck/Sigma/Equivalent	500ml	1		
40.	Urea from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1		
41.	Thiourea from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1		
42.	HEPES from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1		
43.	Dithiothreitol (DTT) from Carlroth/Applichem/Merck/Sigma/Equivalent	10g	1		
44.	Glycine from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1		
45.	Tris base from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1		
46.	Bovine serum albumin from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1		
47.	Borate from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1		
48.	Bromophenol blue from Carlroth/Applichem/Merck/Sigma/Equivalent	25g	1		

Official Seal: _____

Official Seal: _____

S. No	Description	Size/ Volume	Qty (A)	Unit Price CIF in US \$ (B)	Total Price CIF Including Taxes C=A*B
49.	DMSO HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	950ml	1		
50.	Glycerol from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1		
51.	Sodium pyrophosphate from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1		
52.	Sodium fluoride from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1		
53.	Comassei blue stain from Carlroth/Applichem/Merck/Sigma/Equivalent	50g	1		
54.	Silver nitrate from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1		
55.	Sodium thiosulfate from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1		
56.	Sodium carbonate from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1		
57.	Acetic acid from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1		
58.	Trifluoroacetic acid (TFA) HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	100ml	1		
59.	Acetonitrile HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	1L	1		
60.	Ammonium bicarbonate (AMBIC) HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	500g	1		
61.	Formic acid HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	10ml	1		
62.	Iodoacetamide HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	25g	1		
63.	Potassium ferricyanide HPLC grade from Carlroth/Applichem/Merck/Sigma/Equivalent	100g	1		
64.	Stacking gel buffer from Biorad/Equivalent	1L	2		
65.	Gradient Immobilized pH gradient strips from Biorad/Equivalent	Pkt	1		
66.	Ammonium per sulphate (APS) from Biorad/Equivalent	10g	1		
67.	TEMED (Analytical grade) from Biorad/Equivalent	100ml	1		
68.	Laemli buffer premixed from Biorad/ Equivalent	Vial	2		
69.	Protein marker prestained, 10-250KDa from Biorad/Thermo/Sigma/Equivalent	Vial	1		
70.	PVDF membrane for blotting from Thermo/Merck/Sigma/Equivalent	1 roll	1		
71.	Milk powder analytical grade from Carlroth/Applichem/Merck/Sigma/Equivalent	1kg	1		

Official Seal: _____

Official Seal: _____

S. No	Description	Size/ Volume	Qty (A)	Unit Price CIF in US \$ (B)	Total Price CIF Including Taxes C=A*B
72.	Anti-human IgG secondary antibodies Thermo/Carlroth/Sigma/Equivalent	2ml	1		
73.	Enhanced chemiluminescence (ECL) from GE Health Care/Thermo/Merck/Equivalent	125ml	1		
74.	X-ray film for Western blot detection from Amershum/Thermo/Equivalent	Pkt	1		
75.	X-ray cassettes from Thermo/Merck/Sigma/Equivalent	Each	1		
76.	X-Ray Developer from Kodak/Thermo/Fuji/Sigma/Equivalent	Each	1		
77.	X-Ray Fixer from Kodak/Thermo/Fuji/Sigma/Equivalent	Each	1		
B: Glass ware/ Lab ware: All autoclavable					
78.	Glass Samples bottles blue caps (1L) from Borosil/BD/Corning/Thermo/Equivalent	Each	20		
79.	Glass Samples bottles blue caps (500ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	25		
80.	Glass Samples bottles blue caps (100ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	25		
81.	Glass Conical Flask Pyrex (1000 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	20		
82.	Glass Conical Flask Pyrex (500 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	20		
83.	Glass Conical Flask Pyrex (250 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	20		
84.	Glass Beakers Pyrex (500 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	20		
85.	Glass Beakers Pyrex (100 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	50		
86.	Glass Test tubes (20 X 150 mm) from Borosil/BD/Corning/Thermo/Equivalent	Each	50		
87.	Glass Petri dish (90x15 mm) from Borosil/BD/Corning/Thermo/Equivalent	Both side plates	200		
88.	Glass Graduated cylinders (1 L) from Borosil/BD/Corning/Thermo/Equivalent	Each	10		
89.	Glass Graduated cylinders (500 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	10		
90.	Glass Graduated cylinders (250 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	10		
91.	Glass Graduated cylinders (10 ml) from Borosil/BD/Corning/Thermo/Equivalent	Each	10		
92.	Plastic Graduated cylinders (500 ml) from BD/Corning/Thermo/Equivalent	Each	100		

Official Seal: _____

Official Seal: _____

S. No	Description	Size/ Volume	Qty (A)	Unit Price CIF in US \$ (B)	Total Price CIF Including Taxes C=A*B
93.	Cryo vials (1.8 ml) from Borosil/BD/Corning/Thermo/Equivalent	Pkt	2		
94.	Microscope slides Borosil/BD/Corning/Thermo/Equivalent	Box (100 slide)	20		
95.	Gloves, Latex, Powder free, Medium +Large from Corning/Thermo/Equivalent	Pkt	20		
96.	Pipette Blue tips for 1000 µl, Autoclavable from Corning/Thermo/Equivalent	Pkt (1000 pieces)	10		
97.	Pipette Yellow tips for 100 µl, Autoclavable from Corning/Thermo/Equivalent	Pkt (1000 pieces)	30		
98.	Pipette white tips for 10 µl, Autoclavable from Corning/Thermo/Equivalent	Pkt (1000 pieces)	30		
99.	Filtered tips for 1000 µl, from Corning/Thermo/Equivalent	Box (96 pieces)	10		
100.	Filtered tips for 100 µl, from Corning/Thermo/Equivalent	Box (96 pieces)	10		
101.	Filtered tips for 10 µl, from Corning/Thermo/Equivalent	Box (96 pieces)	10		
102.	Falcon Tube 50 ml, autoclavable from Corning/Thermo/Equivalent	Pkt (50pcs)	20		
103.	Falcon Tube 15 ml, autoclavable Corning/Thermo/Equivalent	(50pcs)	20		
104.	Eppendorf tubes 1.5 from Corning/Thermo/Equivalent	Pkt	5		
105.	Eppendorf tubes 2.0 ml Corning/Thermo/Equivalent	Pkt (400pcs)	5		
106.	PCR Tubes 0.2ml Corning/Thermo/Equivalent	Pkt (1000pcs)	5		
107.	Paraffin roll	Each	10		
Grand Total CIF Price in US \$					

Official Seal: _____

Official Seal: _____

PRICE BID FORMAT

MEDICAL LAB TECHNOLOGY DEPARTMENT Price Schedule/Bill of Quantities

(The bidder has to quote bid prices on the format given below for all the items)

Sr.#	Item Name	QTY (A)	Unit Price CIF in US \$ (B)	Total Price CIF in US \$ $C = (A) * (B)$
1.	Incubator	1		
2.	Water bath	2		
3.	Autoclave Automated	1		
4.	Incubator adjustable temperature	1		
5.	Shaker Incubator	1		
6.	Shaking Water bath	1		
7.	Mini Centrifuge Machine	1		
8.	Refrigerated centrifuge	1		
9.	Analytical electronic balance	1		
10.	pH meter bench top	1		
11.	Automated Hematology blood analyzer	1		
12.	Two-Dimensional Gel electrophoresis (2DE) with accessories	1		
13.	Hot plate with magnetic stirrer	5		
14.	UV transilluminator	1		
15.	Refrigerator	1		
16.	Micro Pipettes Complete Set	3		

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

Sr.#	Item Name	QTY (A)	Unit Price CIF in US \$ (B)	Total Price CIF in US \$ C = (A) * (B)
17.	UV Spectrophotometer	1		
18.	Deionized Plant	1		
19.	Water Distillation Plant	1		
20.	Multi head microscope with display and camera	1		
22.	Digital microscope	30		
23.	Ultra-purification system	1		
24.	Ultrasonicator with probe and accessories	1		
25.	Compound microscope with built in cameras	5		
26.	Anaerobic Jar	2		
27.	Carbon dioxide (CO2) incubator with stand and CO2 Cylinder	1		
28.	Semi dry Tran blot	1		
29.	Ice making machine	2		
30.	Rotary evaporator	1		
31.	Fume hood	1		
32.	Dark room setup with fixer, developer and other accessories each	1		
33.	Gradient PCR	1		
Grand Total CIF Price in US \$				

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____

1. 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 of the bank]

Employer’s Signature: _____

Bidder’s Signature: _____

Official Seal: _____

Official Seal: _____

2. Contract Form

THIS AGREEMENT made the _____ day of _____ 20__ between [name of Procuring Agency] of [country 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)

Employer’s Signature: _____

Bidder’s Signature: _____

Official Seal: _____

Official Seal: _____

3. 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]

Employer’s Signature: _____

Bidder’s Signature: _____

Official Seal: _____

Official Seal: _____

4. Bank Guarantee for Advance Payment

To: *[name of Procuring agency]*

[name of Contract]

Gentlemen and/or Ladies:

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

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

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

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

Yours truly,

Signature and seal of the Guarantors

[name of bank or financial institution]

[Address]

[date]

Employer’s Signature: _____

Bidder’s Signature: _____

Official Seal: _____

Official Seal: _____

5. Manufacturer’s Authorization Form

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

To: *[name of the Procuring agency]*

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.

[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.

Employer’s Signature: _____

Bidder’s Signature: _____

Official Seal: _____

Official Seal: _____

6. INTEGRITY PACT

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS. 10.00 MILLION OR MORE

Contract No. _____ Dated _____ Contract Value: *[To be filled in at the time of signing of Contract]*
Contract Title: _____

[name of Supplier] 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 Khyber Pakhtunkhwa (GoKP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoKP through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Supplier] 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 GoKP, except that which has been expressly declared pursuant hereto.

[name of Supplier] 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 GoKP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Supplier] 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 rights and remedies available to GoKP under any law, contract or other instrument, be voidable at the option of GoKP.

Notwithstanding any rights and remedies exercised by GoKP in this regard, [name of Supplier] agrees to indemnify GoKP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoKP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Supplier] 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 GoKP.

Name of Buyer:

Name of Seller/Supplier:

Signature:[Seal]

Signature.....[Seal]

Employer's Signature: _____

Bidder's Signature: _____

Official Seal: _____

Official Seal: _____