



**GOVERNMENT OF KHYBER PAKHTUNKHWA**  
**HEALTH DEPARTMENT**

**PROJECT DIRECTOR ESTABLISHMENT OF FOOD**  
**AND DRUG TESTING LABORATORIES**

**Directorate General Drugs Control & Pharmacy Services,  
Khyber Pakhtunkhwa Peshawar (DG, DC & PS)**

**BID SOLICITATION DOCUMENTS (BSD) FOR NATIONAL COMPETITIVE  
BIDDING (NCB) PAKISTAN, FOR PROCUREMENT OF EQUIPMENT /  
INSTRUMENTS / GLASSWARES / INFORMATION, COMMUNICATION &  
TECHNOLOGY (ICT) EQUIPMENT AND OTHERS FOR ESTABLISHMENT  
OF PROVINCIAL FOOD AND DRUGS TESTING LABORATORIES  
PESHAWAR, FY 2024-25**

**REVISED (AFTER PRE-BID)  
BID SOLICITATION DOCUMENTS**

**JULY 2024  
FOR FINANCIAL YEAR 2024-25**

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## **Part One - Section I**

- Instructions to Bidders (ITB)
- General Conditions of Contract (GCC)

## **PREFACE**

These Bidding Documents have been prepared for use by Procuring Entities and their implementing agencies in the procurement of Goods through National Competitive Bidding (NCBs) under Rule (06) KPPRA Rules 2014. These SBDs are prepared for Rate Contract under Government of Khyber Pakhtunkhwa District Govt. Rules of Business 2015, 2nd Schedule Rule 3 (2), and Serial No.11 (Health) Sub-rule xiii for procurement of Equipment and will result in agreement with the successful bidder.

In order to simplify the preparation of bidding documents for all procurement, the Bidding Documents are grouped in two parts based on provisions, which would remain the same for all the related procurements and that which are specific for each procurement Provisions, which are intended to be used un-changed are in **Part one**, which includes

**Section I, Instructions to Bidders (ITB)**, and

**Section II, General Conditions of Contract (GCC)**.

Data and provisions specific to each procurement and contract are included in **Part. Two** which is further organized into six sections. **Sections I, II, III, IV, and V**, respectively contain Invitation for Bids; Bid Data Sheet; Special Conditions of Contract; Schedule of Requirements; Technical Specifications; and the forms to be used, while **Section VI** is about Sample Forms.

This is Part one, which is fixed and contains provisions, which are to be used, unchanged. Each section is prepared with notes intended only as information for the Procuring agency or the person drafting the bidding documents. They shall not be included in the final documents.

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## INSTRUCTIONS TO BIDDERS

### A. Introduction

<b>1. Source of Funds</b>	1.1	<p>The Procuring Entity has received Provincial 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.</p>
	1.2	<p>The funds referred to above in addition shall be “Public Fund” which according to 2 (1) (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.</p>
	1.3	<p>Payment by the Fund will be made only at the request of the Procuring Entity 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 Entity shall derive any rights from the Project Agreement or have any claim to the allocated fund proceeds.</p>
<b>2. Eligible Bidders</b>	2.1	<p>This Invitation for Bids is open to all eligible bidders/ Original Manufacturer/ Authorized 3S Dealer of the Original manufacturer. Proprietorship of a well-established Authorized dealer of the original manufacturer / 3S automobile dealership is must</p>
	2.2	<p>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 Entity 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.</p>
	2.3	<p>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 Entity of the Government of Khyber Pakhtunkhwa.</p>
	2.4	<p>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 Rule 44(1) KPP Rules 2014.</p>

<b>3. Eligible Goods and Services</b>	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.
<b>4. Cost of Bidding</b>	4.1	The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring Entity named in the Bid Data Sheet, hereinafter referred to as “the Procuring Entity,” will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
		<b>B. The Bidding Documents</b>
<b>5. Content of Bidding Documents</b>	5.1	The bidding documents include: <ul style="list-style-type: none"> <li>a) Instructions to Bidders (ITB)</li> <li>b) Bid Data Sheet (BDS)</li> <li>c) General Conditions of Contract (GCC)</li> <li>d) Special Conditions of Contract (SCC)</li> <li>e) Schedule of Requirements (SOR)</li> <li>f) Technical Specifications</li> <li>g) Bid Form and Price Schedules</li> <li>h) Bid Security Form</li> <li>i) Contract Form</li> <li>j) Performance Security Form</li> <li>k) Manufacturer’s Authorization Form</li> </ul>
	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.



<b>6. Clarification of Bidding Documents</b>	6.1	An interested Bidder requiring any clarification of the bidding documents may notify the Procuring Entity in writing. The Bidding Procuring Entity will respond in writing to any request for Document's 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 Entity'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.
<b>7. Amendment of Bidding Documents</b>	7.1	At any time prior to the deadline for submission of bids, the Procuring Entity, for any reason, whether at its own initiative or in response to a clarification requested by an interested Bidder, may modify the bidding documents by amendment.
	7.2	All interested bidders that have received the bidding documents will be notified of the amendment in writing, 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 Entity, at its discretion, may extend the deadline for the submission of bids.
		<b>C. Preparation of Bids</b>
<b>8. Language of Bid</b>	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 Entity 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.
<b>9. Documents Comprising the Bid</b>	9.1	The bid prepared by the Bidder shall comprise the following components: a) A Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11, and 12. b) Documentary evidence established in accordance with ITB Clause 13 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted; c) Documentary evidence established in accordance with ITB Clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services and conform to the bidding documents; and d) Bid security furnished in accordance with ITB Clause 15.
<b>10. Bid Form</b>	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.
<b>11. Bid Prices</b>	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 Entity and will not in any way limit the Procuring Entity'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.
<b>12. Bid Currencies</b>	12.1	Prices shall be quoted in Pak Rupees unless otherwise specified in the Bid Data Sheet.
<b>13. Documents Establishing Bidder's Eligibility and Qualification</b>	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 Entity's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 3.
	13.3	The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Procuring Entity's satisfaction: <ul style="list-style-type: none"> <li>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 Entity's country;</li> <li>b) that the Bidder has the financial, technical, and production capability necessary to perform the contract;</li> <li>c) that, in the case of a Bidder not doing business within the Procuring Entity'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</li> </ul>

		spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and that the Bidder meets the qualification criteria listed in the Bid Data Sheet.
<b>14. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents</b>	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: <ul style="list-style-type: none"> <li>a) A detailed description of the essential technical and performance characteristics of the goods;</li> <li>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 Entity; and</li> <li>c) An item-by-item commentary on the Procuring Entity'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.</li> </ul>
	14.4	For purposes of the commentary to be furnished pursuant to ITB Clause 14.3(c) above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring Entity 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 Entity's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications
<b>15. Bid Security</b>	15.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount specified in the Bid Data Sheet. [The bid security shall be submitted from the account of the firm/bidder/Bidder who submits the bid]1
	15.2	The bid security is required to protect the Procuring Entity against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 15.7.

	15.3	<p>The bid security shall be in Pak. Rupees and shall be in one of the following forms:</p> <p>The Bidder shall furnish, as part of its bid, a Bid Security/Earnest Money equivalent to of the bid price @2% in Shape of CDR from the account of bidder /firm who submits the bid in the name of "Project Director Directorate General Drug Control &amp; Pharmacy Services".</p> <p>A pay order will not be acceptable.</p>
	15.4	Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 will be rejected by the Procuring Entity as non-responsive, pursuant to ITB Clause 24.
	15.5	Unsuccessful bidders' bid security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity prescribed by the Procuring Entity pursuant to ITB Clause 16.
	15.6	The successful Bidder's bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 32, and furnishing the performance security, pursuant to ITB Clause 33.
	15.7	<p>The bid security may be forfeited:</p> <p>a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or</p> <p>b) in the case of a successful Bidder, if the Bidder fails:</p> <p>i. to sign the contract in accordance with ITB Clause 32; or</p> <p>ii. to furnish performance security in accordance with ITB Clause 33.</p>
<b>16. Period of Validity of Bids</b>	16.1	Bids shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Procuring Entity, pursuant to ITB Clause 19. A bid valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.
	16.2	In exceptional circumstances, the Procuring Entity 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.
<b>17. Format and Signing of Bid</b>	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 shall be initialed by the person or persons signing the bid.
	17.3	Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the bid.
	17.4	The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

		<b>D. Submission of Bids</b>
<b>18. Sealing and Marking of Bids</b>	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: <ul style="list-style-type: none"> <li>a. Be addressed to the Procuring Entity at the address given in the Bid Data Sheet; and</li> <li>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.</li> </ul>
	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 Entity will assume no responsibility for the bid’s misplacement or premature opening.
<b>19. Deadline for Submission of Bids</b>	19.1	Bids must be received by the Procuring Entity 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 Entity 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 Entity and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
<b>20. Late Bids</b>	20.1	Any bid received by the Procuring Entity after the deadline for submission of bids prescribed by the Procuring Entity pursuant to ITB Clause 19 will be rejected and returned unopened to the Bidder.

<b>21. Modification and Withdrawal of Bids</b>	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 Entity 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 no 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.
<b>E. Opening and Evaluation of Bids</b>		
<b>22. Opening of Bids by the Procuring Entity</b>	22.1	The Procuring Entity 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 Entity, 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 Entity will prepare minutes of the bid opening.
<b>23. Clarification of Bids</b>	23.1	During evaluation of the bids, the Procuring Entity 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.

<b>24. Preliminary Examination</b>	24.1	The Procuring Entity 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 Bidder 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 Entity 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 Entity 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 Entity'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 Entity and may not subsequently be made responsive by the Bidder by correction of the nonconformity.
<b>25. Evaluation and Comparison of Bids Alternative</b>	25.1	The Procuring Entity will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 24.
	25.2	The Procuring Entity'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 Entity'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:

	<ul style="list-style-type: none"> <li>a. incidental costs</li> <li>b. delivery schedule offered in the bid;</li> <li>c. deviations in payment schedule from that specified in the Special Conditions of Contract;</li> <li>d. the cost of components, mandatory spare parts, and service;</li> <li>e. the availability of spare parts and after-sales services for the equipment offered in the bid for Procuring Entity;</li> <li>f. the projected operating and maintenance costs during the life of the equipment; the performance and productivity of the equipment offered; and/or</li> <li>g. other specific criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.</li> </ul>
	<p>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:</p> <ul style="list-style-type: none"> <li>a. Incidental costs provided by the bidder will be added by Procuring Entity to the delivered duty paid (DDP) price at the destination.</li> <li>b. Delivery schedule. <ul style="list-style-type: none"> <li>The Procuring Entity 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.</li> <li>or</li> <li>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.</li> <li>or</li> <li>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</li> </ul> </li> </ul>



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 Entity may consider the alternative payment schedule offered by the selected Bidder.

or

- ii. The SCC stipulates the payment schedule offered by the Procuring Entity. If a bid deviates from the schedule and if such deviation is considered acceptable to the Procuring Entity, 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 Entity 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 Entity 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 Entity or other procuring agencies in similar situations. Such costs shall be added to the bid price for evaluation.

	<p>e. Spare parts and after sales service facilities in the Procuring Entity's country.</p> <p>The cost to the Procuring Entity 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.</p> <p>f. Operating and maintenance costs.</p> <p>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.</p> <p>g. Performance and productivity of the equipment.</p> <p>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.</p> <p>or</p> <p>ii. Goods offered shall have a minimum productivity specified under the relevant provision in the Technical Specifications to be considered responsive. Evaluation shall be based on the cost per unit of the actual productivity of goods offered in the bid, and adjustment will be added to the bid price using the methodology specified in the Bid Data Sheet or in the Technical Specifications.</p> <p>h. Specific additional criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.</p>				
25.5	<p>Merit Point System:</p> <p>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</p> <p>[In the Bid Data Sheet, choose from the range of]</p> <table border="1" data-bbox="544 1982 1460 2065"> <tr> <td>Evaluated price of the goods</td> <td>60 to 90</td> </tr> <tr> <td>Cost of common list spare parts</td> <td>0 to 20</td> </tr> </table>	Evaluated price of the goods	60 to 90	Cost of common list spare parts	0 to 20
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 Highest-Ranking fair bid.	
26. Contacting the Procuring Entity	26.1	Subject to ITB Clause 23, no Bidder shall contact the Procuring Entity 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 Entity, it should do so in writing.	
	26.2	Any effort by a Bidder to influence the Procuring Entity in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.	
	F. Award of Contract		
27. post- qualification	27.1	In the absence of prequalification, the Procuring Entity will determine to its satisfaction whether the Bidder that is selected as having submitted the Highest-ranking fair bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 13.3.	
	27.2	The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 13.3, as well as such other information as the Procuring Entity 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 Entity will proceed to the next highest ranking fair 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 Entity will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the Highest-ranking fair bid as defined in Section-2(1)(c)(i) of KPPRA Act 2012, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.	

29. Procuring Entity's Right to Vary Quantities at Time of Award	29.1	The Procuring Entity 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 Entity's Right to Accept any Bid and to Reject any or All Bids	30.1	The Procuring Entity 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 Entity's action.
31. Notification of Award	31.1	Prior to the expiration of the period of bid validity, the Procuring Entity 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 Entity will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 15.
32. Signing of Contract	32.1	At the same time as the Procuring Entity notifies the successful Bidder that its bid has been accepted, the Procuring Entity will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.
	32.2	Within thirty (10) days of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to the Procuring Entity.
33 Performance Security	33.1	Within twenty (15) days of the receipt of notification of award from the Procuring Entity, 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 Entity.
	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 Entity may make the award to the next Highest ranking fair Bid or call for new bids.

<p>34. Corrupt or Fraudulent Practices</p>	<p>34.1</p>	<p>The Government of Khyber Pakhtunkhwa requires that Procuring Entity's (including beneficiaries of donor agencies' loans), as well as Bidders/Suppliers/Bidders 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 Khyber Pakhtunkhwa Public Procurement Act, 2012 and Rules made thereunder:</p> <ul style="list-style-type: none"> <li>a. defines, for the purposes of this provision, the terms set forth below as follows: <ul style="list-style-type: none"> <li>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</li> <li>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 Entity, 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 Entity of the benefits of free and open competition;</li> </ul> </li> <li>b. will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;</li> <li>c. will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Government-financed contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government-financed contract.</li> </ul>
	<p>34.2</p>	<p>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.</p>
<p>35. Integrity Pact</p>	<p>35.1</p>	<p>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.</p>

## **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

<p><b>1. Definitions</b></p>	<p>1.1</p>	<p>In this Contract, the following terms shall be interpreted as indicated:</p> <ul style="list-style-type: none"> <li>a. “The Contract” means the agreement entered into between the Procuring Entity 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.</li> <li>b. “The Contract Price” means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.</li> <li>c. “The Goods” means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring Entity under the Contract.</li> <li>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.</li> <li>e. “GCC” means the General Conditions of Contract contained in this section.</li> <li>f. “SCC” means the Special Conditions of Contract.</li> <li>g. “The Procuring Entity” means the organization purchasing the Goods, as named in SCC.</li> <li>h. “The Procuring Entity's country” is the country named in SCC.</li> <li>i. “The Supplier” means the individual or firm supplying the Goods and Services under this Contract.</li> <li>j. “The Project Site,” where applicable, means the place or places named in SCC.</li> <li>k. “Day” means calendar day.</li> </ul>
<p><b>2. Application</b></p>	<p>2.1</p>	<p>These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.</p>
<p><b>3. Country of Origin</b></p>	<p>3.1</p>	<p>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.</p>



	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.
<b>4. Standards</b>	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.
<b>5. Use of Contract Documents and Information; Inspection and Audit by the Government</b>	5.1	The Supplier shall not, without the Procuring Entity'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 Entity 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 Entity'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 Entity and shall be returned (all copies) to the Procuring Entity on completion of the Supplier’s performance under the Contract if so, required by the Procuring Entity.
	5.4	The Supplier shall permit the Procuring Entity 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 Entity, if so required.
<b>6. Patent Rights</b>	6.1	The Supplier shall indemnify the Procuring Entity 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 Entity's country.

<b>7. Performance Security</b>	7.1	Within twenty (20) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring Entity the performance security in the amount specified in SCC.
	7.2	The proceeds of the performance security shall be payable to the Procuring Entity as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
	7.3	<p>The performance security shall be denominated in the currency of the Contract acceptable to the Procuring Entity and shall be in one of the following forms:</p> <ul style="list-style-type: none"> <li>a. a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring Entity's country, in the form provided in the bidding documents or another form acceptable to the Procuring Entity; or</li> <li>b. a cashier's or certified check.</li> </ul>
	7.4	The performance security will be discharged by the Procuring Entity and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.
<b>8. Inspections and Tests</b>	8.1	The Procuring Entity 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 Entity. SCC and the Technical Specifications specifies inspections and tests the Procuring Entity requires and where they are to be conducted. The Procuring Entity 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, at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Entity.
	8.3	Should any inspected or tested Goods fail to conform to the Specifications, the Procuring Entity 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 Entity.

	8.4	The Procuring Entity's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring Entity'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 Entity 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.
<b>9. Packing</b>	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 Entity.
<b>10. Delivery and Documents</b>	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.
<b>11. Insurance</b>	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.
<b>12. Transportation</b>	12.1	The Supplier is required under the Contract to transport the Goods to a specified place of destination within the Procuring Entity's country, transport to such place of destination in the Procuring Entity'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.

<p><b>13. Incidental Services</b></p>	<p>13.1</p>	<p>The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:</p> <ul style="list-style-type: none"> <li>a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;</li> <li>b. furnishing of tools required for assembly and / or maintenance of the supplied Goods;</li> <li>c. furnishing of a detailed operations and maintenance</li> </ul>
		<p>manual for each appropriate unit of the supplied Goods;</p> <ul style="list-style-type: none"> <li>d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and</li> <li>e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.</li> </ul> <p>13.2</p> <p>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.</p>
<p><b>14. Spare Parts</b></p>	<p>14.1</p>	<p>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:</p> <ul style="list-style-type: none"> <li>a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and</li> <li>b. in the event of termination of production of the spare parts: <ul style="list-style-type: none"> <li>h. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements;</li> <li>i. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.</li> </ul> </li> </ul>

<b>15. Warranty</b>	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 Entity's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
	15.2	This warranty shall remain valid for such months and years as specified in Special Conditions of Contract 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.
	15.3	The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty.
	15.4	Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring Entity.
	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 Entity 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 Entity may have against the Supplier under the Contract.
<b>16. Payment</b>	16.1	The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.
	16.2	The Supplier's request(s) for payment shall be made to the Procuring Entity in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.
	16.3	Payments shall be made promptly by the Procuring Entity, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier.
	16.4	The currency of payment is Pak. Rupees.

<b>17. Prices</b>	17.1	Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Procuring Entity's request for bid validity extension, as the case may be.
<b>18. Change Orders</b>	18.1	<p>The Procuring Entity may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the Contract in any one or more of the following:</p> <ul style="list-style-type: none"> <li>a. drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Entity;</li> </ul>
		<ul style="list-style-type: none"> <li>b. the method of shipment or packing;</li> <li>c. the place of delivery; and/or</li> <li>d. the Services to be provided by the Supplier.</li> </ul>
	18.2	If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring Entity's change order.
<b>19. Contract Amendments</b>	19.1	Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.
<b>20. Assignment</b>	20.1	The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring Entity's prior written consent.
<b>21. Subcontracts</b>	21.1	The Supplier shall notify the Procuring Entity in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.
	21.2	Subcontracts must comply with the provisions of GCC Clause 3.
<b>22. Delays in the Supplier's Performance</b>	22.1	Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Entity in the Schedule of Requirements.

	22.2	If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring Entity 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 Entity shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.
	22.3	Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of liquidated damages.
<b>23. Liquidated Damages</b>	23.1	Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Entity 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 Entity may consider termination of the Contract pursuant to GCC Clause 24.

<p><b>24. Termination for Default</b></p>	<p>24.1</p>	<p>The Procuring Entity, 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:</p> <ul style="list-style-type: none"> <li>a. if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Entity pursuant to GCC Clause 22; or</li> <li>b. if the Supplier fails to perform any other obligation(s) under the Contract.</li> <li>c. if the Supplier, in the judgment of the Procuring Entity has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.</li> </ul> <p>For the purpose of this clause:</p> <p>“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.</p> <p>“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.</p>
	<p>24.2</p>	<p>In the event the Procuring Entity terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Procuring Entity 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 Entity for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.</p>
<p><b>25. Force Majeure</b></p>	<p>25.1</p>	<p>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.</p>



	25.2	For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring Entity in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
	25.3	If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Entity in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Entity 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.
<b>26. Termination for Insolvency</b>	26.1	The Procuring Entity 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 Entity.
<b>27. Termination for Convenience</b>	27.1	The Procuring Entity, 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 Entity's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
	27.2	The Goods that are complete and ready for shipment within thirty (30) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring Entity at the Contract terms and prices. For the remaining Goods, the Procuring Entity may elect: <ul style="list-style-type: none"> <li>a. to have any portion completed and delivered at the Contract terms and prices; and/or</li> <li>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</li> </ul>

<b>28. Resolution of Disputes</b>	28.1	The Procuring Entity and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
	28.2	If, after thirty (30) days from the commencement of such informal negotiations, the Procuring Entity 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.
<b>29. Governing Language</b>	29.1	The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.
<b>30. Applicable Law</b>	30.1	The Contract shall be interpreted in accordance with the laws of the Procuring Entity's country, unless otherwise specified in SCC.
<b>31. Notices</b>	31.1	Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.
	31.2	A notice shall be effective when delivered or on the notice's effective date, whichever is later.
<b>32. Taxes and Duties</b>	32.1	Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Procuring Entity.

## **PART TWO (PROCUREMENT SPECIFIC PROVISIONS)**

- Invitation for Bids (IFB)
- Bid Data Sheet (BDS)
- Special Conditions of Contract (SCC)
- Schedule of Requirements
- Technical Specifications
- Qualification and Evaluation Criteria
- Sample Forms
- Eligibility

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**PART TWO SECTION I. INVITATION FOR BID (IFB)**

## **INVITATION FOR BID**

**OFFICE OF THE PROJECT DIRECTOR,**

**DIRECTORATE GENERAL DRUGS CONTROL & PHARMACY SERVICES KHYBER  
PAKHTUNKHWA, PESHAWAR FOR PROCUREMENT OF EQUIPMENT / INSTRUMENTS /  
GLASSWARES / INFORMATION, COMMUNICATION & TECHNOLOGY (ICT)  
EQUIPMENT AND OTHERS FOR ESTABLISHMENT OF PROVINCIAL FOOD AND DRUG  
TESTING LABORATORIES PESHAWAR**

Directorate General Drug Control & Pharmacy Services (DG, DC & PS), Khyber Pakhtunkhwa Peshawar / Project Director invites sealed bids under National Competitive Bidding from Manufacturers and/ or Importers and/ or authorized agents for **Equipment / Instruments / Glassware / Information, Communication & Technology (ICT) Equipment and Others for FY 2024-25 for the project titled “Establishment of Provincial Food & Drug Testing Laboratories”**.

Bidding shall be conducted through **Single Stage–Two Envelopes Bidding Procedure** comprising a single package containing two envelopes as per **KPPRA Rules-2014**. Each envelope shall contain Technical and Financial Bid separately clearly marked in bold & legible letters. The firms are expected to provide complete information of the bid along with its postal as well as valid email address and phone number/s on each respective envelope.

Interested Manufacturers and/ or Importers and/ or authorized agents must obtain Application Form along with complete set of bidding documents from the office of the Director General Drugs Control & Pharmacy Services, Block-B, Old FATA Secretariat Warsak Road Peshawar during office hours on any working day till **Wednesday 04<sup>th</sup> September 2024, Bids shall be submitted on 05<sup>th</sup> September 2024 till 11:00 am sharp and shall be opened at 11:30 am on the same day**, against the non-refundable cash payment of Pak Rupees Two thousand per application form. The Bidding Documents may be downloaded from the following official websites: [www.healthkp.gov.pk](http://www.healthkp.gov.pk), [www.kpfsa.gov.pk](http://www.kpfsa.gov.pk) and [www.kppra.gov.pk](http://www.kppra.gov.pk).

The bidders are required to submit their inputs/reservations on Bidding Documents including Specifications, Criteria etc. to the Project Director / DG, DC & PS office in writing on or before **7<sup>th</sup> August 2024**, a pre-bid meeting with the interested bidders will be held on, **8<sup>th</sup> August 2024** at 11:00am at office of the Project Director, Block-B, Old FATA Secretariat, Warsak Road Peshawar.

Interested Bidders must submit sealed bids to the office of the Project Director / DG, DC & PS on or before **11:00 AM sharp, Thursday 05<sup>th</sup> September 2024 and will be opened on the same day at 11:30 AM** in the presence of those bidders or their representatives, who choose to attend the process. Bid submitted after 11:00 AM shall not be entertained.

Financial bid must be accompanied with Bid Security of 2% of the bid value in the name of the Project Director / Director General Drug Control & Pharmacy Services Khyber Pakhtunkhwa Peshawar, which shall be from bank account of the prospective bidder. Ordinary cheque and Payment Order (PO) in the form of bid security shall result in disqualification of bidder as per KPPRA Act 2012 and Rules 2014. Technical bids must be accompanied with a photocopy of the bid security (not showing the amount) and an Affidavit on Judicial Stamp paper to the effect that bid security as per Bid data Sheet is attached in the financial bid, failing which the technical bid will be considered as non-responsive.

Bids must be computer typed & printed and the offered bid prices must be written both in words & figures. Bid prices/ quotations with cutting and over-writing shall not be accepted to the extent of that particular quoted item. An authorized person of the bidder/firm shall sign & stamp all pages of the bid

having page numbers on all pages. Firms shall submit bids in hard/Tape binding, and bids submitted in box file/ loose file will be considered non-responsive.

The technical proposal shall contain all the details in accordance with standard specification of the items/goods mentioned in the Schedule of Requirements (SOR) which must be supported by catalogue/Brochures issued by original manufacturer. Bids will be submitted on the format mentioned in BSDs under returnable bidding forms. All bidders are also required to submit the quoted products list with the specifications in soft copies on a readable Computer USB in soft form (Editable *MS Word or Excel*) and, duly labeled by a permanent marker with the name of bidder/ firm. Bidders are required to offer the most competitive prices of their items.

The undersigned reserves the right to reject any or all the bids as per provisions contained in Rule 47 of KPPRA Rules 2014.

Project Director,  
Establishment of Food and Drug Testing Laboratories  
Director General Drug Control & Pharmacy Services,  
Khyber Pakhtunkhwa, Block-B, Old FATA Secretariat  
Warsak Road Peshawar  
**Tel No: 091-9222824.**  
**Email:** [directorgeneraldrugs@healthkp.gov.pk](mailto:directorgeneraldrugs@healthkp.gov.pk)

**SECTION II. BID DATA SHEET**



## BID DATA SHEET

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

Ref No	Introduction	Description
<b>ITB 1.1</b>	Name of Procuring Entity of Government of Khyber Pakhtunkhwa:	Project Director / Directorate General Drug Control & Pharmacy Services Khyber Pakhtunkhwa Peshawar.
<b>ITB 1.1</b>	Loan or credit or Project allocation Number: Loan or credit or Project Allocation amount:	<b><u>ADP No. 1159/210282</u></b> “Establishment of Provincial Food & Drug Testing Laboratory Khyber Pakhtunkhwa”
<b>ITB 1.1</b>	<b>Name of Project:</b>	Establishment of Provincial Food & Drug Testing Laboratories.
<b>ITB 4.1</b>	<b>Name of Contract:</b>	Procurement Of Equipment / Instruments / Glassware / Information, Communication & Technology (ICT) Equipment and Others for Establishment of Provincial Food & Drugs Testing Laboratories Peshawar.
<b>ITB 6.1</b>	<b>Procuring Entity’s Address, telephone, Telex, and facsimile, numbers:</b>	Project Director / Director General Drug Control & Pharmacy Services Khyber Pakhtunkhwa Peshawar Tel No: 091- 9222824 Email: <a href="mailto:directorgeneraldrugs@healthkp.gov.pk">directorgeneraldrugs@healthkp.gov.pk</a>
<b>ITB 8.1</b>	Language of the bid.	Language of the bid is <b>English</b> .
<b>Bid Price and Currency</b>		
<b>ITB 11.2</b>	<b>Currency</b>	The price quoted shall be in <b>Pakistani Rupees (Rs)</b>
<b>IT 11.5 B</b>	<b>Quoted Price</b>	The quoted Price will be <b>fixed</b>
<b>Preparation and Submission of Bids</b>		
<b>ITB 13.2</b>	Documentary evidence of the Bidder’s qualifications to perform the Contract if its Bid is accepted:	That, in the case of a Bidder offering to supply Goods under the Contract that the Bidder manufactures or otherwise produces (using components supplied by primary manufacturers) that the Bidder: <ul style="list-style-type: none"> <li>a. is incorporated in the country of manufacturing of the Goods</li> <li>b. has been licensed by the regulatory authority in the country of manufacture to supply the Goods.</li> </ul>
		c. has manufactured or marketed the specific goods covered by this bidding document or similar Goods for at least two (2) years.

		That, in the case of a Bidder offering to supply Goods under the Contract and does not manufacture or otherwise produce the goods offered,
		<p>d) The bidder must be duly authorized by a Manufacturer of the Goods that meets the criteria under (a), to supply the Goods in Pakistan.</p> <p>The Bidder shall also submit the following additional information:</p> <p>Signed &amp; Stamped copies of its audited financial statements for the past three fiscal years.</p> <p>Valid, Signed &amp; Stamped NTN and STRN certificates.</p> <p>Affidavit on legal stamp paper</p>

<p><b>ITB 13.3 (d)</b></p>	<p><b>Qualification requirements:</b></p>	<ul style="list-style-type: none"> <li>a. Manufacturer / Importer / Sole Agent of Manufacturer for (Category-A and B)</li> <li>b. Manufacturer / Importer / Authorized Agent for (Category-C).</li> <li>c. Bidder's Certificate of Incorporation in Procuring Entity's country.</li> <li>d. Manufacturer's Authorization(s) (Such authorization letter shall be furnished in accordance to the sample format of bid solicitation document).</li> <li>e. The bidder(s) must provide copy of Bidder's Certificate of Incorporation/ registration signed and stamped.</li> <li>f. The bidder(s) shall provide National Tax No. and Sales Tax No. The bidder should be on Active Taxpayers List (ATL) on FBR.</li> <li>g. Bidder(s) must provide an Affidavit on judicial stamp paper, of Rs. 100/- or more, that the bidder is not blacklisted by any Public Sector Organization.</li> <li>h. The bidder should have an average annual turnover in the last three years equal to or more 50 million PKR. Alternately, the bidder should have successfully completed in the last three years any specific project having value equal to or higher than 50 million PKR.</li> <li>i. Two years supported warranty after sales &amp; services, free of cost (with spare parts).</li> <li>j. Bid Validity period of 180-days.</li> <li>k. Submission of required amount of earnest money. A confirmation to this extent shall be provided in Technical Bid (without showing the amount).</li> </ul> <p><b>Bidder(s) shall furnish, as part of its bid (along with Bid Forms &amp; Price Schedule) the following documentary evidence to proof Bidder's qualifications to perform the Contract and all evidence submitted must be signed &amp; stamped by the bidder.</b></p>
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<b>ITB 13.3 (e)</b>	<b>Spare parts required for period of years of Operation:</b>	<p>a. Three Years free of cost provision of services and spare parts under warranty period.</p> <p>b. Two Years free of cost service without spare parts.</p> <p>c. Ten Years parts availability in market and will provide certificate for the same.</p> <p>Separate list of spare parts must be submitted for each equipment. The list must be individually itemized and submitted with the technical bid. The spare parts must also be individually costed, and cost of each spare part must be separately submitted with financial bid.</p> <p><b>The cost of spare parts must not be added to the price of equipment.</b></p> <p><b>This requirement does not obligate Procuring Entity to Purchase the spare parts</b></p>
<b>ITB 15.1</b>	<b>Amount of bid security:</b>	The Bidder shall furnish, as part of its bid, a Bid Security/Earnest Money equivalent to 2% of the bid price in Shape of CDR from the account of bidder /firm who submits the bid.
<b>ITB 16.1</b>	<b>Bid validity period:</b>	180 Days from the date of Technical Bid Opening.
<b>ITB 17.1</b>	<b>Number of copies:</b>	One Copy Hard format + USB as mentioned in the IFB
<b>ITB 18.2 (a)</b>	<b>Address for bid submission:</b>	Project Director / Director General Drug Control & Pharmacy Services Khyber Pakhtunkhwa Peshawar
<b>ITB 18.2 (b)</b>	<b>IFB Title:</b>	<b>IFB Title:</b> Procurement of Equipment / Instruments / Glassware / Information, Communication & Technology (ICT) Equipment and Others for Establishment Of Provincial Food And Drugs Testing Laboratories Peshawar.
<b>ITB 19.1</b>	<b>Deadline for bid submission:</b>	<b>Date: <u>Thursday 05<sup>th</sup> September 2024.</u></b> <b>Time: 11:00 AM Sharp</b>
	<b>Pre-Bid meeting with the bidders:</b>	The bidders are required to submit their inputs/reservations on Bidding Documents including Specifications, Criteria etc. to the Project Director/DG, DC & PS office in writing on or before <b>7<sup>th</sup> August 2024</b> , a pre-bid meeting with the interested bidders will be held on <b>8<sup>th</sup> August 2024.</b>

<b>ITB 22.1</b>	<b>Time, Date, and Place for Bid Opening:</b>	<b>Name:</b> Directorate General Drug Control & Pharmacy Services / Project Director <b>Building:</b> Block-B, Old FATA Secretariat Warsak Road Peshawar <b>Bid Opening Date:</b> Thursday 5 <sup>th</sup> September 2024. <b>Bid Opening Time:</b> 11:30 PM
<b>Bid Evaluation</b>		
<b>ITB 23.1</b>	<b>Clarification of Bids:</b>	The Procuring Entity may ask the Bidder in writing, only for clarification regarding the received documents in the bid. However, no change in the prices or substance of the bid shall be sought, offered, permitted, or entertained. This communication shall be with the prior approval of Chairperson Procurement / Executive Committee.
<b>ITB 25.3</b>	<b>Evaluation and Comparison of Bids:</b>	<b>Merit Point Evaluation</b> The items ranked highest in merit points (obtained through and based on technical and financial evaluation) will get unit rate central Contract. <ul style="list-style-type: none"> <li>a. Technical Specifications</li> <li>b. Performance Specifications</li> <li>c. Evaluation Criteria</li> <li>d. Financial Proposal</li> </ul>
<b>ITB 25.4(a)</b> <b>ITB 25.4(b)</b>	One option only Delivery schedule. Relevant parameters in accordance with Optionselected.	<b>Not Applicable</b>
<b>Option I</b> <b>Option II</b> <b>Option III</b>	Adjustment expressed as a Percentage, or adjustment expressed in an amount in the currency of bid evaluation.	<b>Not Applicable</b>
<b>ITB 25.4 (c)</b> <b>(ii)</b>	Deviation in payment schedule: Annual interestrate:	<b>Not Applicable</b>
<b>ITB 25.4 (d)</b>	Cost of spare parts:	<b>Not Applicable</b>
<b>ITB 25.4 (e)</b>	Spare parts and after sales service facilities in the Procuring agency's Country.	<b>As per Section IV - Technical evaluation criteria</b>
<b>ITB 25.4 (f)</b>	Operating and maintenance costs:	<b>Not Applicable</b>

<b>ITB 25.4 (g)</b>	Performance and Productivity of Equipment:	<b>Not Applicable</b>
<b>ITB 25.4 (h)</b>	Details on the evaluation method or reference to the Technical Specifications:	<b>Evaluation of Bids will be based on following factors:</b> a. Technical Specifications b. Performance Specifications c. Sample Evaluation d. Delivery Period e. Warranty Provisions f. After Sale Service (Availability of after sale service Facilities in KhyberPakhtunkhwa)
<b>ITB 28.1</b>	<b>Award Criteria</b>	As per <b>Section 2 (1)(c)(i) of KPPRA Act 2012</b> The highest-ranking fair bid in accordance with the evaluation criteria set forth here in these bids solicitation documents. Highest Ranking fair bid is the bid i.e. Substantively responsive and Ranks 1st based on achieving highest combined Technical & Financial Evaluations Scores.
<b>ITB 29.1</b>	<b>Percentage for quantity increase or decrease</b>	The Procuring Entity reserves the right at the time of contract award to increase or decrease, the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other Terms and conditions.
<b>ITB 33.1</b>	<b>Performance Security</b>	10% of the total price of award of contractor as desired by the Procuring Entity at the time of contract considering the 2% Earnest money already submitted as CDR.

### **SECTION III. SPECIAL CONDITIONS OF CONTRACT**

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## **SPECIAL CONDITIONS OF CONTRACT (SCC)**

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

### **1. Definitions (GCC Clause 1)**

GCC 1.1 (g)—The **Procuring Entity** is: Project Director / Director General Drug Control & Pharmacy Services Khyber Pakhtunkhwa Peshawar.

GCC 1.1 (h)—The **Procuring Entity's Country** is: **Pakistan**

GCC 1.1 (i)—The **Supplier** supplying Goods and Services under this Contract is:

- i) Manufacturer and/or Importer and or Authorized agent of manufacturer registered with relevant sales and income tax authorities and have requisite qualification and eligibility for the requisite equipment as advertised in this bidding document.
- ii) Manufacturer of Laboratory Testing Equipment, Instruments & Accessories in Pakistan; and
- iii) Importer of Laboratory Testing Equipment, Instruments & Accessories in Pakistan.

GCC 1.1 (j)—The **Project Site** is: **Provincial Food and Drug Testing Laboratories, Phase-5, Hayatabad, Peshawar.**

### **2. Sample Provision:**

- a) Before the opening of the Financial Bid, as and when required, the Focal Person of the bidder will be informed on phone or through email by, to provide samples of the items specified the Executive Committee of the project, the Project Director / DG, DC & PS on Project Site or any other place notified by the procuring entity, at bidder's own risk and cost at the time and date communicated. The bidder shall arrange for demonstration of the items within the period specified by the Procuring Entity, for examination / analysis and scoring technical bids. The bidder must be prepared to do so by keeping one sample unit having same quoted/offered make/model with accessories ready at its disposal. Samples asked for specific items must be furnished free of charge and in a timely manner.

If Bidder fails to provide sample of items and fails to demonstrate the technical specification or performance of to the satisfaction of the Technical Evaluation Committee or the Procuring Entity the Bidder's Proposal for such items will be non-compliant / non-responsive and will be disqualified by the Procuring Entity in its sole discretion and their financial bids will be returned unopened.

- b) The Procuring Entity will inspect and examine carefully, samples supplied by bidders. However, Procuring Entity will hold no responsibility for compensation for samples lost or destroyed during demonstration process. Samples will be returned immediately after demonstration process/ sample evaluation.

### **3. Country of Origin (GCC Clause 3)**

GCC 3.1—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". The bidder shall provide the details regarding country of origin, Model, Make, manufacturer, along with details of Manufacturing Units and mode of supply, shipment, and any other associated details of the component items and that of the quoted equipment. Bidders are bound to supply the equipment from quoted country of origin or authorized manufacturing site.

#### 4. Performance Security (GCC Clause 7)

GCC7.1—The amount of performance security, as a percentage of the Contract Price, shall be:  
**Ten (10) percent of the Contract Price**

#### 5. Standards (GCC Clause 4): As mentioned in GCC clause 4.1

#### 6. Inspections and Tests (GCC Clause 8)

**GCC 8.6—Inspection and tests** in accordance with the clauses of contract with Procuring Entity:  
Inspection and tests include but is not limited to:

- Technical Evaluation shall be conducted by the Technical Committee or scrutiny Committee or as nominated by the Procuring Entity to undertake verification of documents submitted by the bidder/s along with the technical bids as well as to conduct the physical inspection of the various samples &/or relevant premises as per rent agreement or ownership etc. (Section-V - Technical Specification of the Part II of these SBDs)
- Machinery & Equipment and other items supplied for sample tests shall be examined and tested by a panel of experts nominated for this purpose by the Procuring Entity for submission of technical report to the Executive Committee of Procuring Entity.
- Sample tests as well as pre-shipment inspections may also be carried out as and when needed before signing of contract agreement with the successful bidders for Machinery & Equipment, instruments etc.
- Any other appropriate method may be adopted by the Technical Committee, and / or Executive Committee to assess and/or assure the quality of goods being purchased. The Procuring Entity reserves the rights to reject the quoted items/ equipment at any stage before award of contract in case of any deviation from the standard specifications.
- Examine the original documents related to the fitness of the offered Goods / items in all respects including but not limited to Bill of Lading / Airway bill(s), Goods Declaration(s), Certificate/ Declaration of Conformity/ Compliances/ Analysis, invoice etc.
- The bidder will be disqualified for competition, if Procuring Entity declare that the bidder did not meet the mandatory technical requirements for qualification at the time of inspection as mentioned in Section IV. Technical Specifications
- Goods/ items will be examined and / or tested by Procuring Entity in a manner as deemed relevant and appropriate (including testing at specialized bodies). No claim for Goods/ items tested for quality will be entertained, costs of tests will be incurred by respective bidder.

**Note: The Procuring Entity may inspect the premises of applicant bidder through panel of experts / Inspection team to verify the different parameters mentioned in technical bid submitted by the applicant bidder and noted here in this BSD if deem appropriate.**

#### 7. Packing (GCC Clause 9)

The goods, including all packaging and packing thereof, conform to the specifications of the Contract, including any applicable standards provided for in the Contract or, if no applicable standards are provided, the most recent authoritative standards issued by the relevant institution in the goods' country of origin. The goods

are securely contained, packaged and marked in accordance with normal commercial standards of export packing for goods of this type and in a manner so as to protect the goods while in storage or in transit to their ultimate destination.

## **8. Delivery and Documents (GCC Clause 10): Applicable**

### **Delivery Mode: Delivered Duty Paid (DDP)**

The Supplier shall provide the following documents: GCC 10.3— Up on shipment, the Supplier shall Notify the Procuring Entity the full details of the shipment, including Contract number, description of Goods, quantity and usual transport document. The Supplier shall mail the following documents to the Procuring Entity:

- i All documents submitted by the bidder as evidence shall be attested and the attestation shall be inked in original, documents where attestation is provided as a photocopy will not be accepted.
- ii Copies of the Supplier's invoice showing goods' description, quantity, unit price, and total amount;
- iii Original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;
- iv The Suppliers, shall make delivery of the goods in such number of days or date from the date of issuance of Purchase order and signing of the contract with the successful bidder in accordance with the terms specified in the Schedule of Requirements, Specific Technical Evaluation Criteria for each category (A, B, & C). The details of original documents to be furnished by the Supplier are as follows;
  - a. Operational Manuals of the Equipment. Service Manuals indicating step by step service / maintenance protocols of each Equipment.
  - b. Periodic Preventive Maintenance schedules with recommended list of Parts / Kits to be replaced during useful life.
  - c. A copy of Test / Inspection Procedure Manual of all equipment as duly recommended by the manufacturer. At the time of sample provision or at the time of final delivery the bidder may be required to perform all or any combination of random checks.
  - d. Product model and part numbers, bar code, QR Code (If available) and Catalogue.
  - e. Verifiable / Traceable Certificate of calibration of Equipment / item must be provided; Legible certificate indicating shelf life (where applicable);
  - f. Copies of the packing list identifying contents of each package;
  - g. Insurance certificate (where applicable);
  - h. Manufacturer or Supplier's warranty certificate;
  - i. Inspection certificate, issued by the nominated inspection Entity, and the Supplier's factory inspection report; and
  - j. Certificate of origin.

## **8. 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 sellers' responsibility. Since the Insurance is seller's responsibility, they may arrange appropriate coverage.

## 9. Spare Parts (GCC Clause 14)

A list of recommended Spare Parts that usually require replacement over the life of proposed equipment / item must be separately provided. This requirement does not constitute any obligation for purchase of such spare parts.

## 10. Warranty (GCC Clause 15)

**GCC 15.4 — Execution of Warranty** Maintenance during warranty period will be the responsibility of the Supplier. An annual optimal uptime of 90% is considered as acceptable level of performance during the period of warranty.

The Procuring Entity shall promptly notify the supplier in writing for any claims arising under this warranty.

Supplier will be bound to provide replacement of parts warranty instead of repair.

The Supplier will provide the recommended preventive maintenance schedule of each of the equipment at the time of delivery.

The Supplier will bound to execute the maintenance according to the manufacturer's recommended protocol and will replace the components / kits recommended by the manufacturers for installation and Periodic Preventive maintenance.

**GCC 15.4 —** The maximum response time for maintenance complaint from the destination specified in the Schedule of Requirements (i.e., time required for supplier's maintenance engineer to report at the site after a request call /fax/ email, or any method of communication) shall not exceed 24 hours.

During the Warranty and the SLA, the supplier will be required to maintain the equipment in good working condition for a minimum period of 329 days out of a period of 365 days. i.e. (90% uptime). 8 hours non-functioning of the equipment will be considered as one day down time.

Essential period to shut down the installation entirely or partially shall also be included in the down time while calculating the 90% guaranteed uptime. This guaranteed uptime shall be calculated for each block of 365 days.

The Response time to any fault should be not more than 48 hrs. In case the equipment cannot be made functional within 4 days or 96 hours, the supplier has to make arrangement for an alternative. Maximum time allowable for providing alternative equipment / item, correcting the fault would be Seven (07) continuous days.

**GCC 15.5—** In case equipment is not useable beyond the stipulated maximum down time the Supplier will be required to arrange for an immediate replacement of the same till such time it is so required. Failure to arrange for the immediate replacement of equipment will make the Supplier liable for a penalty at the rate of 0.25% of the price per non-functional unit per day and at 1.75% Week beyond the stipulated downtime period. The amount of penalty will be recovered from the performance security bank guarantee.

**Down time** is defined as the failure in the equipment operation to acquire or process the data or procedure, resulting in inability to carry out the required procedure properly.

Down time will start when the Lab In charge or any other individual of the procuring entity, (request call /fax/ email, or any method of communication inform the supplier regarding failure of equipment. Down time will end once the repairs have been affected and the system is again available for practical work.

Supplier will warrant that warranty for replacement of parts and equipment will be provided; no repairing warranty will be accepted. Software and hardware up gradation of the computing system should be carried out as available during warranty period as desired by end user or as recommended by the manufacturer.

Subject to **GCC Sub-Clause 22.1(b)**, All such warranties for the goods shall remain in effect for a period specified in or for such other longer period that the original Supplier of original manufacturer normally provides for such goods or a longer period agreed upon in this Contract after the goods are placed in use (the “Warranty Period”);

During any period in which the Bidder’s warranties are effective, upon notice by Procuring Entity that the Equipment/ items do not conform to the requirements of the Contract, the Bidder shall promptly and at its own expense correct such non- conformities or, in case of its inability to do so, replace the defective goods with goods of the same or better quality or, at its own cost, remove the defective goods and fully reimburse Procuring Entity for the purchase price paid for the defective goods. In the event the Bidder fails to repair or replace defective or non-conforming goods within a reasonable time, Procuring Entity may replace or repair the goods and charge or debit the Bidder for all costs connected therewith or, if such replacement or repair is not practicable.

The Bidder shall remain responsive to the needs of Procuring Entity for any services that may be required in connection with any of the Supplier’ warranties under the Contract.

If the Bidder is not the original manufacturer of the goods, the Bidder shall provide Procuring Entity with the benefit of all manufacturers’ warranties in addition to any other warranties required to be provided under the Contract;

For goods ordered, the Supplier shall provide or maintain a Service Level reasonably constituted to handle requests from Procuring Entity or its Members or other ultimate beneficiaries for technical assistance on maintenance, service repairs, and calibration of the Equipment/ item once the Warranty period expires.

**Guarantees:**

Unless otherwise specified in the Contract, in addition to and without limiting any other warranties, remedies or rights of Procuring Entity stated in or arising under the Contract, the Bidder guarantees and represents that:

Availability of Spare Parts that usually require replacement over the life of proposed equipment / item must be separately provided. This requirement does not constitute any obligation for purchase of such spare parts.

The Supplier guarantees that the goods are fit for the purposes for which such goods are ordinarily used and for purposes expressly made known to the Procuring Entity, are of current manufacturer and are of even quality and free from defects in design, workmanship, material and manufacturing;

The Equipment/ items are of the quality, quantity and description required by the (BSD) / Contract, including when subjected to conditions prevailing in the place of final destination;

The Equipment/ items are free from any right of claim by any third-party, including claims of infringement of any intellectual property rights, including, but not limited to, patents, copyright and trade secrets;

The Supplier guarantees that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

The Supplier further guarantees that the Goods shall be free from defects arising from any act or omission or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the final destination.

The Bidder shall, in addition, comply with the guarantees associated with the performance and/or conformance specifications specified under the (BSD) / Contract. If, for reasons attributable to the Bidder, these guarantees are not attained in whole or in part, the Bidder shall, at its discretion, either:

- a) Replace the equipment/ item in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance / conformance tests in accordance with GCC Clause 10,

Or

- b) Pay liquidated damages to the Procuring Entity with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be 0.25% per day to a maximum of 10% of the total relevant equipment/ item price.

In case of Failure to comply to the contractual guarantees once the liquidated damages are above 10% of the total relevant equipment/ item price and the contractual guarantees are not attained the contract will be cancelled the performance security will be forfeited and the supplier will be proceeded under blacklisting/ debarment mechanism of the Procuring Entity.

**ACCEPTANCE OF GOODS:** Under no circumstances shall the Procuring Entity be required to accept any goods that do not conform to the technical specifications or requirements of the (BSD). Procuring Entity may condition its acceptance of the goods upon the successful completion of acceptance tests as may be specified in (BSD) or in the Contract or otherwise agreed in writing by the Parties. In no case shall Procuring Entity be obligated to accept any goods unless and until Procuring Entity has had a reasonable opportunity to inspect the goods following delivery and all required satisfactory inspection reports have been provided to Procuring Entity. In no case shall delivery of equipment by Manufacturers and/ or Importers and/ or authorized agents to Procuring Entity in and of itself constitute acceptance of the goods. The delivered Equipment / Items / Goods will only be accepted when the equipment has been installed and preliminary inspection / verification of the required function of the equipment has been completed to the satisfaction of the Procuring Entity.

**11. Payment (GCC Clause 16) Payment for Goods supplied:** Payment shall be made in Pak. Rupees in the following manner:

- Payment shall be made in Pak. Rupees through crossed cheque in the following manner: 100 percent of the Contract Price of the Goods shall be paid to supplier within thirty (60) days after delivery & inspection by the Inspection Committee of intended goods at destination or, in case of any import, through irrevocable confirmed letter of credit opened in favor of the Supplier for supplying in Client's country, upon submission of documents specified in GCC Clause (16).
- The Procuring Agency hereby covenants to pay the Supplier in consideration of the provision of the Equipment/ Goods and Services, as specified in the Schedule of Requirements in accordance

with the Price Schedule, the amount against the delivered equipment / goods and services or such other sum as may become payable under the provisions of this Contract.

- A copy of General Sales Tax ('GST') Invoice showing the amount of sales tax, must be submitted along with the Invoice. In case, GST is not applicable, the Supplier shall provide the documentary evidence to the said effect.
- Income/withholding tax shall be deducted at source as per applicable taxation laws, while making the payments. In case supplier claims any exemption from such taxes then supplier shall provide the documentary evidence to the said effect.
- No Payment will be made for partial and incomplete supply of Equipment/ items, for what so ever reason.

## **12. Prices (GCC Clause 17)**

- The price will remain fix. All prices must include all the taxes and duties, where applicable. If there is no mention of taxes, the offered/ quoted price shall be considered as inclusive of all prevailing taxes/ duties.
- The bidder will not quote price of any item/s which is/are higher than the prices quoted by the bidder across the country to any procuring entity of the quoted item/s through public funding.
- In case the bid price is higher than estimated cost, the Procuring agency has the right to reject the bid and scrap the process without any liability.
- The procuring agency may carry out the market analysis before issuing a letter of consent to the successful bidder.

## **11. Subcontracts (GCC Clause 21)**

Subcontracts are not allowed.

## **12. Liquidated Damages (GCC Clause 23)**

- Applicable rate: 0.75% per day of the total Contract price. Maximum deduction: = 10% of the total contract amount. As in relevant clauses of the Contract Agreement signed by the Supplier with the Procuring Entity. Penalties shall be imposed as per contract agreement and blacklisting & debarment guidelines of the department if the firm deviates from Contract Agreement.

## **13. Disputes Resolution (GCC Clause 28)**

- The dispute resolution mechanism to be applied will be pursuant to relevant clauses of Contract Agreement signed by Supplier with the Procuring Entity per law. In the case of non-resolution dispute shall be referred to adjudication or arbitration in accordance with The Arbitration Act 1940. If at all required, the jurisdiction of Court shall be of Peshawar, Khyber Pakhtunkhwa.

**14. Governing Language (GCC Clause 29)**

The Governing Language shall be: **English.**

**15. Applicable Law (GCC Clause 30)**

The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan, which includes but are not limited to the following legislation:

- i. The KPPRA Act 2012, KPPRA Rules 2014 and prevailing regulations etc.
- ii. The Contract Act 1872
- iii. The General Financial Rules of the Govt. of Khyber Pakhtunkhwa and all the relevant laws, rules and regulations pertaining to budgeting & financial management of public fund.
- iv. The Bonded Labor System (Abolition) Act of 1992.
- v. Child Labor (relevant Act Rule) e.g. Khyber Pakhtunkhwa Prohibition of Employment of Children Act, 2015.
- vi. The Factories Act 1934.
- vii. Companies Act 2017.
- viii. The Drug Act 1976, and Rules framed there under.
- ix. The DRAP Act 2012 and Rules framed there under.

**16. Notices (GCC Clause 31)**

**GCC 31.1**— Procuring Entity address for notice purposes:

Project Director / Directorate General Drug Control & Pharmacy Services Khyber Pakhtunkhwa Peshawar, Block-B, Old FATA Secretariat Warsak Road Peshawar.

Email: [directorgeneraldrugs@healthkp.gov.pk](mailto:directorgeneraldrugs@healthkp.gov.pk)

Supplier's address for notice purposes: As mentioned in their bidding document

**17. Duties & Taxes (GCC clause 32)**

The Unit price quoted by the bidder shall be inclusive of all applicable duties and taxes. All prices shall include relevant taxes & duties, where applicable. The benefit of exemption from or reduction in the GST or other taxes shall be passed on to the Purchasing Entity.

**18. Legal Documentary Proof:**

The Importers and/ or authorized agents must possess valid legally enforceable exclusive authorization from the Foreign/ Local Manufacturer; they should have a documentary proof to the effect that they are the original Manufacturer of the required goods. Bidders shall establish all legal documentary proofs where required/ ask by the Project Director (DG, DC & PS).

**19. Ineligibility for Corrupt and Fraudulent Practices:**



Bidders should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by any Government (Federal, Provincial), a local body or a public sector organization.

**20. Letter of Authorization:**

The Authorized agent shall have to submit notary attested authorization / Sole Agency Certificate from Manufacturer and in case of Manufacturer, documentary proof to the effect that they are the original Manufacturer of the required goods shall be provided, or joint venture/ consortium/ alliance of the local Sole agents/manufacturers. In case of imported products, the authorization shall be notarized in the country of origin or or where the commercial office located for the quoted items. (NOTE: In case if the document is verifiable online then the notarization is not mandatory). Bidders shall provide letter of authorization from foreign/local Manufacturers whose shall not be in the process of winding up/liquidations.

In case of Manufacturers documentary proof to the effect that they are the original Manufacturer of the required goods shall be provided. In case of Importers and/ or authorized agents attested authorization / Sole importer / Sole Agent Certificate from the Manufacturer on their letter head shall be provided. Template has been provided in Section-VI of this (BSD) which may be followed for providing Authorization certificate.

**21. Technical Staff and Tools:**

The Bidder should have strong engineering background and necessary tools/ testing equipment, trained staff for the required after sales services of equipment / goods.

**22. Deviation:**

A. Minor Deviation

The Procuring Entity may waive off a maximum up to three minor informalities, nonconformities, in a bid which does not constitute a material deviation (or changes the substance of the bid), , as mentioned in the technical evaluation proforma, provided such waiver does not affect the performance of the equipment.

B. Major Deviation

Deviation in the specifications noted here in these bid solicitation documents where the performance of the equipment may affect shall be considered a major deviation.

Effect of the Major and Minor deviation shall be defined explicitly in order to avoid confusion later just like defined below for "*Material Deviation*"

**23. Deviation from critical Provision:**

Deviations from, or objections or reservations to critical provisions shall be deemed to be a material deviation from technical proposals and thus the bid will be declared as non-responsive.

Any model supplied other than quoted and approved will be considered as deviation/ forgery and will be rejected straightaway at the cost and risk of the supplier.

**24. Prevailing Rules, Regulation and Policies:**

A bid once opened in accordance with the prescribed procedure shall be subject to only those rules, regulations and policies that are in force at the time of issue of notice for invitation of bids.

All bids shall be evaluated in accordance with the evaluation criteria and other terms and conditions

set forth in the bidding documents.

**25. Alternate Bid:**

Different models/ prices offered for a single item by the same bidder shall be considered as alternate bid and shall be non-responsive.

**26. After Sale Service:**

Certificate from the manufacturer that the after sales services / backup services shall be provided jointly with the local Importer / Sole Agent and in case of change of local agent, they will provide the after sales services themselves or through newly appointed agent for the period mentioned from the date of commissioning.

**27. Testing and Calibration**

The firm must have all kind of testing and calibration equipment, which is required to maintain the products, which they are dealing. The list of all required testing equipment would be provided along with the technical bid. The available testing equipment must be calibrated. The successful bidders shall provide complete technical manual and operation manual equipment / items to the end user.

**28. Manufacturer Official Website:**

The quoted model of imported product shall be available on the current official website of the manufacturer; otherwise, the quoted product shall be considered obsolete/ redundant and will straight away be rejected.

**29. Inspecting the Premises:**

The Procuring Entity has the right to inspect the premises of bidder to inspect the setups ensuring proper after sales services, documents mentioned in technical bids and any other relevant details regarding testing tools, calibration tools, spare parts etc. by relevant technical personnel.

**30. Opening of the Financial Proposals:**

After technical evaluation is completed, the Procuring Entity shall notify the date, time and location for opening of the financial proposals. Bidders' attendance at the opening of financial proposals is optional.

**31. Incomplete and Conditional Bids:**

Incomplete/ Conditional bid shall stand rejected. All items described in the technical proposal must be priced in financial proposal. No conditional bid in term of Technical/Financial bid will be entertained and the bidder will straight away be disqualified.

**32. Bidders Influence:**

Any effort by a Bidder to influence the Procuring Entity in its decisions on bid evaluation, bid comparison, or Contract Award will result in the rejection of the Bidder's bid and subsequent black listing, if Procuring Entity so desires. Canvassing by any Bidder at any stage of the Tender

evaluation is strictly prohibited.

**33. Quantity Variation:**

The Procuring Entity reserves the right at the time of Contract award to increase or decrease the quantity of goods as per permissible limits under the Rules 2014 originally specified in Schedule of Requirements without any change in unit price or other terms and conditions.

**34. OEM:**

The Manufacturer should have documentary evidence to the effect that they are the original manufacture of the quoted product/s with indication of manufacturing site and its location.

**35. List of Related tools/parts:**

The details regarding testing, calibration tools shall be submitted in bid which will be verified during inspection. The list is attached in this document and marks will be awarded after verification & recommendation by relevant technical personnel during inspection stages.

**36. Technical Bid Submission Vis-à-vis Format:**

The bidders will quote the technical bids on the format/ Form given in Section-VI Bid Forms “Returnable Schedules” the sample form.

## SECTION IV. SCHEDULE OF REQUIREMENTS

### SCHEDULE OF REQUIREMENTS

1. All the bidders must submit the quotations of offered equipment / items on the format provided in **Section-VI “Bidding Forms”** under “Returnable Bid Forms” for category A, B, C & D.
2. In case of imported items of category, A, B, & C the quoted items shall be registered for use in their country of origin, for which the Importers should provide valid authorization Certificate for their quoted products duly notarized in the country of origin of the quoted items or where the commercial office located for the quoted items. Non-provision of notarized authorization for imports will lead to disqualification of firm in Category A, B and C.  
(NOTE: In case if the document is verifiable online then the notarization is not mandatory)
3. All certifications of regulatory bodies, Manufacturer authorizations and data/ documents shall be valid and attestation shall be in original, photocopies and / or scanned documents will not be considered. Committee may carry out the verifications on or before award of contract and in case of any fraudulent practice; legal action will be taken against the bidder concerned. Any certificate expires before bid opening will not be entertained.

Valid Certifications of the following authorized regulatory bodies as well as any other relevant authorized regulatory body of Stringent Regulatory Authorities (SRA) countries that must cover the quoted equipment / items in its scope shall be acceptable:

Regulatory authority		Certification
Australia	Therapeutic Goods Administration (TGA)	TGA Device License
Canada	Health Canada	Device License
European Union	Regulatory agency in the European countries	93/42/EC Medical Device Directive 98/79/EC IVD Directive IEC 61010-1 IEC 61010-2-40 for safety
Japan	Pharmaceuticals and Medical Devices Agency (PMDA)	Device License
Japan	Japan Industrial Standards (JIS)	
USA	Food and Drug Administration (FDA)	CFR 21-part 11 CFR 21 relevant to testing devices
USA	U.S. Department of Agriculture (USDA)	
USA	Food Safety and Inspection Service (FSIS)	
ISO	International Organization for Standardization	ISO 9001:2015, ISO 9001-2000, ISO 7218, ISO 4887-2, ISO 17025:2017
USA	Association of Official Agricultural Chemists (AOAC)	

4. All certifications (i.e Manufacturer authorization, certifications from accredited bodies, as the case may be, shall be valid and shall contain the quoted product(s) in its scope, moreover the accredited body shall be authorized to certify the quoted product(s). Committee may carry out the verifications on or before award of contract and in case of any fraudulent practice, legal action will be taken against the bidder concerned. Any certificate expires before bid opening will not be entertained.

5. Non-Provision of mandatory documents mentioned in these BSDs shall lead to disqualification of the firm / quoted items.
6. After sale satisfactory performance certificate and Satisfactory delivery completion/ performance certificates must be recognized from relevant forums having dispatch number, signature of the officer and date on letter head of procuring entity. The satisfactory performance certificate of non-recognized institution with relevant forums will not be considered.
7. The Procuring Entity, at any stage of the procurement proceedings, having credible reasons for or prima facie evidence of any defect in Supplier's capacities may require the Suppliers to provide information concerning their professional, technical, financial, legal or managerial competence as well as information regarding offered Goods/ Equipment.
8. The Procuring Entity has the right to inspect the premises of bidder (if needed) ensuring proper after sales services, verify documents (if needed) mentioned in technical bids and any other relevant details. Premises (office/workshop/warehouse) of bidder shall be insured through ownership/or Rent agreement.
9. The bidder shall provide the shipment trail of the quoted item from the manufacturing site till destination.
10. The Bid security shall be from bank account of the bidder. Ordinary cheque and Payment Order (PO) in the form of bid security shall result in bid rejection.
11. Different models/ prices offered for a single item by the same bidder shall be considered as alternate bid and shall be non-responsive.
12. Any reservations on BSD including criteria, specifications etc (if any) shall be submitted in writing in the Pre-bid meeting by authorized person/representative of the firm during the period of Pre-Bid.
13. The schedule for supply of goods shall be as under:
14. Within **90** days from the date of issuance of supply order by the Procuring Entity for items to be imported for **Category-A , B & C**.
15. Successful bidders will be responsible for installation, testing & commissioning of the equipment. Successful bidders will ensure to train staff regarding method development, functioning, and calibration and troubleshooting of equipment.
16. All equipment must be capable of integration with Laboratory Management & Information System (LMIS) through Application Programming Interface (API) based connectivity with Procuring Entity's MIS and database through internet using WIFI or Ethernet.
17. Bid must include a manufacturer's brochure or leaflet describing the equipment being offered to enable offered specifications to be verified.
18. All brochures and leaflets submitted must be written in the English language or a translation into the English language.
19. The following inspections and tests shall be performed:
  - a) The vendor must have the required Goods/ Equipment inspected in the manufacturer's works by a competent authority and submit a test certificate and also a guarantee/warranty certificate that the required Goods/ Equipment conform to written specifications.

- b) Procuring Entity through its representatives may decide to inspect and/or test any or all item of the required Goods/ Equipment to confirm their conformity to the contract, prior to dispatch from the supplier(s) premises. Such inspection and clearance will not prejudice the right of the Procuring Entity to inspect and test the required Goods/ Equipment on receipt at destination.
20. If the required Goods/ Equipment fail to meet the laid down specifications, the supplier shall take immediate steps to remedy the deficiency or replace the defective required Goods/ Equipment to the satisfaction of the Procuring Entity.
21. The firm shall have office/ sales service center preferably in in Khyber Pakhtunkhwa Province and any other Province of the Country through which the successful Supplier is able to provide after sale services to the Procuring Entity.
22. Equipment / Items, Strips, Swabs, Re-agents & Consumables etc. must be of fresh production, with a minimum of 75% of the shelf life upon manufacture remaining at the time of delivery.
23. Successful Supplier shall ensure to complete the supply of the Goods/ items at the earliest but not later than specified Delivery Period at Serial Nos. (15) & (16) above.
24. Conditional Bids will be disqualified.
25. Country of origin / manufacturing / assembly of the quoted brand / model must be clearly mentioned for each equipment offered by each bidder.
26. Accessories: The Supplier shall provide Original Equipment/ Manufacturer's standard accessories/tools as well as all the accessories stipulated in the Technical Specification as a part of the equipment/.
27. Consumables during Commissioning: Supplier shall prepare & provide free of cost sufficient quantity of reagents, test piece, etc. required or consumed during commissioning, training of the installed equipment/ including instructions on operation and maintenance, wherever applicable.
28. Unloading at the port, customs clearance, inland transportation, unloading and unpacking at site, assembling and installation, testing, commissioning and instructions on site including labor and any equipment to be used during installation, and documentation shall be borne by the supplier/authorized representative in Pakistan.
29. Installation and Inspection: Each equipment/ shall be securely installed at designated locations in accordance with the instructions. Prior to the installation, the Supplier shall check and inspect all the connections and request the Procuring Entity to arrange the utility supply from installed outlet by making proper adjustment wherever necessary. The Supplier shall check all components of the equipment/ to ensure that their working conditions are good in presence of the Procuring Entity's representative(s)
30. Technically Qualified Bid will be the bid which substantially responsive and achieves minimum required technical score to qualify for Financial Evaluation. Bidders are required to comply "TECHNICAL SPECIFICATIONS" to be responsive and submit technical specifications of each equipment using template provided in **Section-VI**, Returnable Bidding Forms it as an essential element of the bid document supported by evidence. In case of Non-compliance "Zero" score will be awarded.

## LIST OF EQUIPMENT

S.No	Item/ Equipment Name	Category of evaluation	No. of Units required
1.	Analytical Balance (For Food Lab)	A	3
2.	Ultrasonic bath sonicator (For DTL & Food Lab)	A	4
3.	HPLC with Quaternary Gradient system and built-in degasser	A	3
4.	Polari meter	A	2
5.	FTNIR	A	2
6.	Automatic Soxhlet System	A	1
7.	Sulphur-di-oxide Analyzer	A	2
8.	Amino acid analyzer	A	1
9.	Portable NIR spectrometer	A	1
10.	UV Spectrophotometer	A	3
11.	Freeze Dryer	A	1
12.	Analytical Microbalance (For DTL)	A	2
13.	Differential Scanning Calorimeter (DSC)	A	1
14.	Automatic Digital Colony Counter	A	1
15.	COLUMNS for HPLC	A	20
16.	Flame Photometer	A	1
17.	Fully Automatic complete Kjeldahl Apparatus ( nitrogen Distillation Unit + Digestion Block + Complete Automatic Set)	A	1
18.	Autoclave	A	1
19.	BOD Incubator	A	1
20.	Gel Electrophoresis	A	1
21.	ULT Freezer Chest	A	1
22.	Analytical Balance 5 Digits (For DTL)	A	2
23.	TDS meter	A	2
24.	Water Activity Meter	A	2
25.	Moisture Analyzer	A	1
26.	EC conductivity bench meter	A	1
27.	pH Meter	A	3
28.	Rancimat	A	1
29.	Solvent Filtration Assembly	A	1
30.	Anaerobic Jar 1.5L~10L	A	1
31.	Refractometer	A	1
32.	Viscometer (Touch Screen)	A	1
33.	Auto Titrator (For both DTL and Food Lab)	A	1
34.	Milk Analyzer	A	1

35.	Automatic electronic pipettes (0.5 – 10ul, 1-20ul, 2-100ul, 10- 200ul, 15-300ul, 50-1000ul)	B	5
36.	Laboratory Oven	B	1
37.	Digital Burette	B	3
38.	Incinerator	B	1
39.	Lab Water Distillation Double Distillation	B	1 1
40.	Frost Free Double door (side by side) Refrigerator	B	1
41.	Water purifier	B	1
42.	Digital Dispenser (10ml, 50ml, 100ml) Set	B	2
43.	Top Loading Balance	B	4
44.	Vacuum Pump	B	2
45.	UV Lamps	B	1
46.	Fume Hood	B	1
47.	High Speed Centrifuge machine (For Food Lab)	B	1
48.	Centrifuge Machine (For DTL)	B	1
49.	Muffle Furnace	B	1
50.	Furnace (For DTL)	B	1
51.	Automated glassware washer	B	1
52.	Gerber Centrifuge	B	1
53.	Micro Filtration Assembly	B	2
54.	Multimedia Projector	B	1
55.	Still camera	B	1
56.	a. Computer with central work station (For DTL and Food Lab) b. Printers	B	20 20
57.	Photocopier	B	1
58.	UPS	B	10
59.	Stirrers	B	10
60.	Desiccators	B	2
61.	Mortar and Pestle	B	10
62.	Hot plate	B	2
63.	Magnetic stirrer + Hotplate digital	B	4
64.	Mechanical Shaker	B	1
65.	water bath	B	1
66.	Glassware drying cabinet (For DTL and Food Lab)	B	2
67.	Glassware (Beakers, Flasks, Cylinders, Pipettes )	B	20
68.	Solar system for Labs	B	5
69.	HVAC System for Labs	B	2
70.	Fire Sprinkler System for labs	B	2
71.	LAL test Kit for endotoxin	C	2
72.	Reference Standards	C	1 each
73.	Chemicals	C	-
74.	AOAC Official Method of Analysis (OMA)	C	1



## DETAILED SPECIFICATIONS OF EQUIPMENT

**Note:**

**21 CFR compliance is mandatory for all equipment/ items under Category-A**

**(Where Applicable).**

S.No	Item Name	Required specification
I.	<p><b>IA.</b></p> <p style="text-align: center;"><b>HPLC WITH QUATERNARY GRADIENT SYSTEM AND BUILT-IN /ONLINE DEGASSER</b></p> <p style="text-align: center;"><b>CAT-A</b></p> <p style="text-align: center;"><b>DRUG LAB</b></p>	<p><b>HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) COMPLETE WITH ACCESSORIES (AUTO INJECTOR WITH TEMPERATURE CONTROLLED SAMPLE CHAMBER, TEMPERATURE CONTROLLED COLUMN CHAMBER, SOFTWARE), EQUIPPED WITH PHOTODIODE ARRAY DETECTOR. WITH COMPATIBLE SYSTEM WITH UPS WITH PRINTER</b></p> <p><b>Quaternary Gradient Pump</b></p> <ul style="list-style-type: none"> <li>• Operating Principle: Double / Dual plunger pump, Low pressure gradient.</li> <li>• Control mode: Constant flow</li> <li>• Flow Range: 0.001 – 10ml/min</li> <li>• Flow rate Accuracy: <math>\leq \pm 2\%</math> at 1ml/min</li> <li>• Flow rate Precision: <math>&lt; 0.1\%</math> RSD at 1ml/min</li> <li>• Minimum Pressure: 5000 PSI or better</li> <li>• Number of Eluent Lines: 4</li> <li>• Gradient Formation: 4 Channel mixing valve</li> <li>• Composition Precision: Less than or equal to 0.2% or better</li> <li>• Composition Accuracy: <math>\pm 0.5\%</math></li> <li>• Delay volume is <math>&lt; 650 \mu\text{l}</math> (including Sample Management delay volume) – volume should be independent of system pressure</li> <li>• Line Voltage: 220V</li> </ul> <p><b>Vacuum Degasser</b></p> <ul style="list-style-type: none"> <li>• Number of Channels: 4 Channels or better</li> <li>• Maximum Flow rate: 10ml/min per channel</li> <li>• <math>&gt; 0-2.0\text{ml}</math> or better/min per channel for minimum 70% Gas Removal from mobile phase or better.</li> <li>• Materials in contact with solvent: Teflon AF, PEEK and Glass-filled PTFE. Built in high efficiency, low volume, and vacuum degassing system with separate vacuum chambers for each solvent.</li> </ul> <p><b>Column Oven:</b></p> <ul style="list-style-type: none"> <li>• Temperature range: <math>4^{\circ}\text{C}</math> (Cooling) to <math>65^{\circ}\text{C}</math> or more.</li> <li>• Cooling: Ambient: <math>-10^{\circ}\text{C}</math> or better, Heating: ambient + <math>65^{\circ}\text{C}</math> or better</li> <li>• Temperature stability: <math>\pm 0.1^{\circ}\text{C}</math></li> <li>• Temperature accuracy: <math>\pm 0.5^{\circ}\text{C}</math>, with 2-point temperature calibration</li> <li>• Column capacity: Minimum Two</li> </ul>

- Column switching: Automatic /Optional
- Heat-up time: 16 minutes from 4°C to 65°C
- Cool-down time: 13 minutes from 65°C to 4°C

**Detector:**

- Photo Diode Array Detector: ( PDA)
- Wavelength source as 1 or 2 lamps for entire wave length range
- PDA AD Resolution: 14bit or better
- Slit Bandwidth: 1.7nm.
- Pixel Resolution: 1nm approximately
- No. of PDA Channel: 512 or better.
- Wavelength: 190 ~ 800nm with 1.2 nm digital and optical resolution
- Shield Optics
- Path-length: 10mm
- Low noise sensitivity = <10 µAU
- Drift: 0.0002AU/hr (Baseline Correction), 0.001AU/hr (Room Temp)
- Wavelength Accuracy: <1nm (HY-I Holmium Oxide Filter)

**Auto sampler:**

- Needle wash system as standard that uses fresh solvent with each injection.
- Sample capacity: 1mL x 100 or better
- Dispenser syringe: 250 µL standard, 250/1000/ 2500 µL optional
- Vial detection: Missing vial/well plate detection by sensor
- Piercing precision needle:± 0.6mm
- Wash solvent: External wash solvent bottle
- Injection cycle time: < 60 sec. in all injection modes for 1 injection ≤ 100 µL including 300 µL wash / < 20 sec in partial loop fill mode for 1 injection of 10µL including 500 µL wash.

**Auto sampler Accessories:**

- Sample tray of 100 x 1ml or greater.
- Auto sampler Syringes: 100µl 200µl (2 each).
- Sample delivery Precision: <0.5%RSD
- Injection Accuracy: ±1 µl
- Injector Linearity: >0.999
- Injection volume: 0.1 µL – 100 µL standards, should inject up to 2000 µl with optional loop.

**Wash:**

- Programmable - Wash between injections, Wash between vials

**Software:**

- Data System completes with Windows based software, Computer (Core i7 or better- 12th Generation or better) and Laser Printer.
- The software must be 21 CFR Part 11 compliant (Mandatory).
- The software must be capable to upgrade to network solution
- Measuring: Simultaneous data acquisition from up to four independent chromatographs, each chromatograph can acquire

		<p>data from up to 12 detectors.</p> <ul style="list-style-type: none"> <li>• Integration: There is extensive possibility to modify chromatograms. The chromatogram can be changed by entering global parameters or interactively, through direct graphic modification of the baseline.</li> <li>• Overlay: Simultaneously displays a virtually unlimited number of chromatograms and their mathematical modification; for example, mutual deductions or derivations of any order.</li> <li>• Calibration: Internal and external standard calculation methods, calibration of groups of peaks and reference peaks method for better identification.</li> <li>• Automated measuring support: Sequence tables for any set of samples with or without an auto sampler.</li> <li>• Additional accessories required for each unit: <ul style="list-style-type: none"> <li>• Quartz / Fluoro-resin Flow cell (2 each)</li> <li>• Operating Windows: Microsoft Window 10 (Genuine)</li> <li>• Online UPS with minimum 60 minutes or above Backup.</li> </ul> </li> </ul>
	<p><b>1B. HPLC With PDA DETECTOR (uHPLC)</b></p>	<p><b>COMPUTER CONTROLLED INTEGRATED QUATERNARY GRADIENT HPLC SYSTEM COMPRISING BELOW SPECIFICATION HAVING WORKABLE PH RANGE OF 1 to 13 and material of Parts in contact with liquid</b> Stainless steel (SUS316L, SUS316), FEP, PEEK, PTFE, perfluoro elastomer, ruby, sapphire, Hastelloy C, UHMWPE, ceramic, PFA, quartz, PPS</p> <p><b>Pumping System</b> Pumping method: Parallel-type double plunge Flow rate: 0.0001 to 10 mL/min Flow rate accuracy: <math>\leq \pm 1\%</math> or <math>\leq \pm 2 \mu\text{L}/\text{min}</math> Flow rate precision: <math>&lt; 0.06 \%</math>RSD or <math>&lt; 0.02 \text{ minSD}</math> Gradient Type: Low Pressure Quaternary Maximum pressure: 8500PSI or better. Degassing unit: 5 Stations online / built in degasser ( Mobile phase 4 + Rinse solution ) Gradient / concentration accuracy: <math>\pm 0.5\%</math> (0.1 to 2 mL/min)</p> <p><b>Auto sampler:</b> Injection volume setting range : 0.1 to 50 <math>\mu\text{l}</math> Cross-contamination: not more than 0.0025% (Caffeine, Specified condition) Injection cycle time: should be less than 15 sec. Samples for processing: 336 (1 mL), 216 (1.5 mL), 112 (4 mL), 4 (MTP/DWP) Sample cooler: 4 to 45°C (Room temperature needs to be 30°C or lower Injection linearity: 0.9999</p> <p><b>Column Oven:</b> Heating and cooling</p>

		<p>Method: Forced air circulation method  Number of Column and Size: not less than 2 pieces of 10 to 30 cm  Temperature control Range: Room Temp -12 to 90°C</p> <p><b>Detector Type: PDA</b>  Wavelength Range: 190 to 800 nm or above  Spectral resolution: at least 1.4 nm  Slit width: 1.2 nm, 8 nm  Number of photodiode array Elements: 1024  Noise level: not more than <math>\pm 3 \times 10^{-6}</math> AU.  EQUIPMENT CONTROL PANEL: color LCD touch panel allows user to operate the Instrument directly on HPLC.</p> <p>SOFTWARE: MUST BE CFR21 PART 11 COMPLIANT with FULL AUDIT TRIAL AND WEB CONTROL OPTION.</p>
2.	<p><b>COLUMNS FOR HPLC</b></p> <p><b>CAT-A</b></p> <p><b>DRUG LAB</b></p>	<p><b>( USP : L-1 )</b>  <b><u>4.6mm x 25cm, 5µm packing L-1 QTY: 03</u></b></p> <ul style="list-style-type: none"> <li>• <b>HPLC COLUMN , L-1, ODS-3, 5µm, 4.6 X 250 mm</b></li> <li>• USP Code :L-1</li> <li>• pH Range :2 - 7.5 or better</li> </ul> <hr/> <p><b><u>4.6-mm x 15 cm; 5µm packing, L1 QTY: 03</u></b></p> <ul style="list-style-type: none"> <li>• <b>HPLC COLUMN , L-1, ODS-3, 5µm 4.6 X 150 mm</b></li> <li>• USP Code :L-1</li> <li>• pH Range :2 - 7.5 or better</li> </ul> <hr/> <p><b><u>3.9-mm x 15cm, 5µm packing L-1 QTY:02</u></b></p> <ul style="list-style-type: none"> <li>• <b>HPLC COLUMN , L-1, ODS-3, 5µm, 3.9 X 150 mm</b></li> <li>• USP Code :L-1</li> <li>• pH Range :2 - 7.5 or better</li> </ul> <hr/> <p><b><u>3.9-mm x 30cm, 5µm packing L-1 QTY:02</u></b></p> <ul style="list-style-type: none"> <li>• <b>HPLC COLUMN , L-1, ODS-3, 5µm, 3.9 X 300 mm</b></li> <li>• USP Code :L-1</li> <li>• pH Range :2 - 7.5 or better</li> </ul> <hr/> <p><b>(USP: L-7)</b></p>

		<p><b><u>4.6-mm x 25cm, 5µm packing L-7 QTY:02</u></b></p> <ul style="list-style-type: none"> <li>• <b>HPLC COLUMN , L-7, C-8, 5µm, 4.6 X 250 mm</b></li> <li>• USP Code :L-7 (C-8)</li> <li>• pH Range :2 - 7.5 or better</li> </ul> <p><b>(USP: L-7)</b></p> <p><b><u>4.6-mm x 15cm, 5µm packing L-7 QTY:02</u></b></p> <ul style="list-style-type: none"> <li>• <b>HPLC COLUMN , L-7, C-8, 5µm, 4.6 X 150 mm</b></li> <li>• USP Code :L-7 (C-8)</li> <li>• pH Range :2 - 7.5 or better</li> </ul> <p><b>(USP: L-10)</b></p> <p><b><u>4.6-mm x 25cm, 5µm packing L-10 QTY:01</u></b></p> <ul style="list-style-type: none"> <li>• <b>HPLC COLUMN , L-10, 5µm, 4.6 X 250 mm</b></li> <li>• USP Code :L-10</li> <li>• pH Range :2 - 7.5 or better</li> </ul> <p><b><u>4.6-mm x 15cm, 5µm packing L-10 QTY:01</u></b></p> <ul style="list-style-type: none"> <li>• <b>HPLC COLUMN , L-10, 5µm, 4.6 X 150</b></li> <li>• USP Code :L-10</li> <li>• pH Range :2 - 7.5 or better</li> </ul> <p><b><u>4.6-mm x 25cm, 5µm packing L-11 QTY:01</u></b></p> <ul style="list-style-type: none"> <li>• <b>HPLC COLUMN , L-11, PHENYL 5µm, 4.6 X 250 mm</b></li> <li>• USP Code :L-11</li> <li>• pH Range :2 - 7.5 or better</li> </ul> <p><b><u>4.6-mm x 15cm, packing L-11 QTY:01</u></b></p> <ul style="list-style-type: none"> <li>• <b>HPLC COLUMN , L-11, PHENYL, 5µm, 4.6 X 150 mm</b></li> <li>• USP Code :L-11</li> <li>• pH Range :2 - 7.5 or better</li> </ul> <p><b>(USP: L-1)</b></p> <p><b><u>C-18, L-1, 2.1 mm x 50 mm, 1.9 µm, QTY:02</u></b></p> <p><b><u>UHPLC COLUMN , L-1/C-18,</u></b></p> <ul style="list-style-type: none"> <li>• 2.1 mm x 50 mm, 1.9 µm</li> <li>• Pore Size :200 Å (20 nm)</li> <li>• pH Range :1 - 10</li> </ul> <p><b><u>C-18, L-1, 2.1 mm x 150 mm, 1.9 µm, QTY:01</u></b></p> <ul style="list-style-type: none"> <li>• <b>UHPLC COLUMN , L-1/C-18, 2.1 mm x 150 mm,1.9 µm</b></li> <li>• Pore Size :200 Å (20 nm)</li> <li>• pH Range :1 – 10</li> </ul>
3.	<p><b>POLARIMETER DIGITAL</b></p> <p><b>CAT-A</b></p> <p><b>DRUG LAB</b></p>	<p><b>DIGITAL AUTOMATIC POLARIMETER</b></p> <p><b>Technical Specification :-</b></p> <ul style="list-style-type: none"> <li>• Light Source: LED</li> <li>• Measuring Range: ±89.99°Arc; ±259°Z</li> <li>• Wavelength: 589nm</li> <li>• Readable Accuracy: ±0.01°(optical rotation) ±0.03°Z (sugar) or better</li> <li>• Measuring Accuracy: ±0.01° (-45°. optical rotation ≤+45°;</li> </ul>

		<ul style="list-style-type: none"> <li>• <math>\pm 0.02^\circ</math> ( optical rotation <math>&lt; -45^\circ</math> or optical rotation <math>&gt; + 45^\circ</math>)</li> <li>• Repeatability: <math>\leq 0.002^\circ</math> (optical rotation)</li> <li>• Measuring Model: Optical rotation, Specific Rotation., Concentration., sugar degree</li> <li>• Test Tube: Up to 200mm</li> <li>• Min. Transmittance : <math>&gt; 1\%</math></li> <li>• Temp. Control: Peltier <math>15^\circ\text{C} \sim 35</math> or better</li> <li>• Calibration System : Auto calibration</li> <li>• Interface: USB, Wi-Fi</li> <li>• 21CFR Part 11 Yes</li> <li>• Power Supply: 220AC (<math>\pm 10\%</math>) 50 Hz</li> </ul>
4.	<p style="text-align: center;"><b>FTNIR</b></p> <p style="text-align: center;"><b>CAT-A</b></p> <p style="text-align: center;"><b>DRUG LAB</b></p>	<p><b>Technical Specification :-</b></p> <ul style="list-style-type: none"> <li>• Michelson interferometer: (<math>30^\circ</math> incident angle)</li> <li>• Equipped with Advanced Dynamic Alignment system</li> <li>• Sealed interferometer with Automatic Dehumidifier.</li> <li>• Beam splitter: Silicon-coated <math>\text{CaF}_2</math> for Near IR</li> <li>• Detector: must be with high linearity in room temperature detector. InGaAs Detector - or Silicon (850-1100 nm), Lead Sulphide (1100-2500 nm) detector must be provided</li> <li>• Wavenumber range: <math>12,500\text{--}240\text{cm}^{-1}</math></li> <li>• Wavelength accuracy: Wavelength accuracy at least <math>\pm 0.1\text{ cm}^{-1}</math> at <math>6,000\text{ cm}^{-1}</math> or better</li> <li>• Resolution: 0.25, 0.5, 1, 2, 4, 8, <math>16\text{cm}^{-1}</math> (Middle/Far IR) 2, 4, 8, <math>16\text{cm}^{-1}</math> (Near IR)</li> <li>• Light source: Tungsten</li>   <li>• Software capability: System software should contain Processing parametrs like compare, macro, peak table, peak height and peak area etc. Quantitative analysis with beers law, PLS, PCA, PLSR, PCR etc. Should be able to create and use spectral library</li> <li>• Branded PC (Core i7 / 16GB Ram (DDR4) / 1 Tb SSD) with licensed OS Windows 10 or better, FHD monitor, laser Printer</li> <li>• Branded online UPS for at least 60 minutes backup or better</li> <li>• Validation program: Complies with European, US, British, and Japanese Pharmacopoeias and ASTM</li> <li>• GLP/GMP support:</li> <li>• Tree-structured audit trail function Recording of operation logs and data logs (history) saving by overwriting the same filename should be prohibited.</li> <li>• Security functions: Coordination with Lab Solutions security functions</li> <li>• User-group based privilege settings</li> <li>• Search functions:</li> <li>• search of user library and commercial library, creation of user library</li> <li>• Library of approx. 12,000 spectra of organic compounds, polymers, pharmaceutical products, inorganic compounds, food additives, contaminants, etc.</li> </ul>

5.	<p align="center"><b>UV-VIS SPECTROPHOTOMETER, (DOUBLE BEAM) WITH PC &amp; PRINTER SOFTWARE CONTROLLED.</b></p> <p align="center"><b>CAT-A</b></p> <p align="center"><b>DRUG LAB</b></p>	<p><b>Technical Specifications :</b></p> <ul style="list-style-type: none"> <li>• Stray Light : &lt;0.03% T at 220 and 360 nm</li> <li>• Source Lamp: Tungsten/ halogen/ deuterium/ Xenon lamps with 2 extra lamps.</li> <li>• Beam Type: Double</li> <li>• Bandwidth (Variable): 0.2, 0.5, 1, 2, 4nm</li> <li>• Range : (nm): 190 – 1100nm</li> <li>• Wavelength Accuracy: ±0.1nm</li> <li>• Wavelength Reproducibility: ≤0.2nm</li> <li>• Max Photometric-Concentration (C): 0-200%T, -0.3-3.0A, 0-9999C(0-9999F)</li> <li>• Stability: ±0.002A/h@500nm or better</li> <li>• Photometric Accuracy: 0.2%T(0-100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)</li> <li>• Photometric Repeatability: ≤0.15%T(0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)</li> <li>• Wavelength Setting: Automatic</li> <li>• Wavelength Setting: High, Medium and Low</li> <li>• Scan Time Speed: High, Medium and Low</li> <li>• Detector: Dual Silicone photodiode</li> <li>• Data Output: Powerful PC software, USB(A), USB(B) for printer, data transfer</li> <li>• Display Type: LCD/TFT</li> <li>• Power (VAC): 230VAC / 50/60 Hz</li> <li>• 21CFR Part 11 Yes</li> <li>• With PC along with software and Printer</li> </ul>
6.	<p align="center"><b>6A. WATER DISTILLATION SYSTEM,</b></p> <p align="center"><b>CAT-B</b></p> <p align="center"><b>DRUG LAB</b></p>	<p><b>Technical Specifications:</b></p> <ul style="list-style-type: none"> <li>• ASTM Water Grade Type I &amp; II</li> <li>• Capacity: 8 L/hr or better</li> <li>• TDS &lt;1ppm</li> <li>• Temperature: 25 to 35 °C</li> <li>• Pyrogen content: Pyrogen free</li> <li>• Water supply: 1 mL/min at 3 to 100 psi (20 to 700 kPa)</li> <li>• Resistivity Threshold: 0.25 to 0.3 MΩ-cm</li> <li>• Tank – Minimum 30L (Stainless steel 304) or better</li> <li>• Power (VAC): 220V AC</li> </ul>
	<p align="center"><b>6B. WATER DOUBLE DISTILLATION SYSTEM,</b></p> <p align="center"><b>CAT-B</b></p> <p align="center"><b>DRUG LAB</b></p>	<p>Technical Specifications :</p> <ul style="list-style-type: none"> <li>• Output : 4 Liter per Hour or better</li> <li>• Power :220 V AC</li> <li>• TDS &lt;0.5ppm</li> <li>• Conductivity µs/cm : &lt;0.5</li> <li>• Temperature : &lt;35 °C</li> <li>• Pyrogen content: Pyrogen free</li> <li>• Thermostatic Cut-Out Yes</li> <li>• Tank Capacity – 30 liter or better (Stainless Steel 304)</li> </ul>
7.	<p align="center"><b>VACUUM PUMP (DOUBLE HEAD)</b></p>	<p><b>Specifications :</b></p> <ul style="list-style-type: none"> <li>• Maximum vacuum (mbar):100 or better</li> <li>• Maximum flow rate (L/min) at normal atmospheric pressure:</li> </ul>

	<p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>DRUG LAB</b></p>	<p style="text-align: center;">34 or better</p> <ul style="list-style-type: none"> <li>• With standard Hose connection</li> <li>• Noise level (dB): 60 or less</li> <li>• Power : 220 V / 50 Hz</li> </ul>
8.	<p style="text-align: center;"><b>ULTRAVIOLET (UV) LAMP</b></p> <p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>DRUG LAB</b></p>	<p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>• For already installed UV Spectrophotometer Shimadzu UV 1800 Series</li> <li>• Tubes (Watt) : 4+4W</li> <li>• Wavelength (nm) : 180-380 or better on either side</li> <li>• Intensity at 15cm (<math>\mu\text{w}/\text{cm}^2</math>) : 300-350</li> </ul>
9.	<p style="text-align: center;"><b>PHOTO-COPIER</b></p> <p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>DRUG LAB</b></p>	<p><b>GENERAL SPECIFICATION:</b></p> <p>Photocopier machine A3/A5</p> <ul style="list-style-type: none"> <li>• Display :TFT/LCD display for easy operation</li> <li>• With console</li> <li>• Resolution Scan: 600x600 dpi</li> <li>• Resolution Print: 600 dpi</li> <li>• All in one function: Print, Scan, Photocopy</li> <li>• With zoom</li> <li>• Speed: 45 ppm or better</li> <li>• Paper capacity: 500 sheets or better tray 100 sheets or better multi bypass feeder.</li> <li>• Continuous copies countdown</li> <li>• Number of papers tray: 2 trays + 1 by pass</li> <li>• Warm up time: 12 second or less for warm up the machine</li> <li>• Built-in duplexing</li> <li>• Document feeder: RADF/DADF/AFD</li> <li>• Memory: 5GB or above</li> <li>• Power: 200-240 v</li> <li>• Connectivity: LAN, USB, and Wifi</li> <li>• Toner (Optional- Quote price Separately)</li> </ul> <p>Stabilizer: With Servo motor stabilizer.</p>
10.	<p style="text-align: center;"><b>SINGLE PHASE (PURE SINE WAVE) (UPS) UNINTERRUPTED POWER SUPPLY SYSTEM.</b></p> <p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>DRUG LAB</b></p>	<p><b>GENERAL SPECIFICATION :</b></p> <ul style="list-style-type: none"> <li>• Watts: 1000W watt or better</li> <li>• Input Frequency : 50-60Hz <math>\pm</math> 10%</li> <li>• Output Frequency : 50 Hz <math>\pm</math> 1% (Battery Mode)</li> <li>• Battery Type: Maintenance Free battery enough for 3 Hours Back up Time with full load.</li> </ul>
11.	<p style="text-align: center;"><b>INCINERATOR TECHNICAL DETAILS</b></p> <p style="text-align: center;"><b>CAT-B</b></p>	<ul style="list-style-type: none"> <li>• The Waste Incinerator (Waste Management &amp; Treatment System) shall be implemented as a turn-key project which shall comprise of a drug grade Incinerator including Dry Scrubber along with allied accessories and operational services for proper disposal of infectious solid hospital waste materials.</li> </ul>



## DRUG LAB

- The incinerator be suitable for dry and wet infectious waste of the lab plastic, paper, textile and rubber within average calorific value of 2kW/kg.
- The unit shall be of high performance, capable to operate continuously for 12 hours daily.
- The primary source of fuel will be Natural Gas/ Diesel operated burner with the provision to operate on standby LPG fuel.
- Continuous intervals feeding & burning capacity of 20kg/ hour or better
- Combustion with smokeless emissions having standby fuel arrangements of LPG as an alternate fuel source.
- Automatic air distribution and regulation system should be electronically controlled.
- Smokeless emission for at-least 98% of running time and emission gases in air with then prescribe limit (EPA guideline)

### **PRIMARY CHAMBER (COMBUSTION)**

- The temperature should not be less than 800C.
- Separate manual door for ash removal.
- Blower centrifugal fans shall be provided to inject air to burn the waste and gases in combustion chamber
- A see through window with protection flap for inspection of burner flame should be available.
- Electrically/ electronically controlled natural gas operated burner with the provision to operate on standby LPG fuel.
- Thermocouple/ sensor to monitor the temperature of the primary chamber.

### **SECONDARY CHAMBER (COMBUSTION)**

- The post combustion chamber for flue gases to burn further for ensuring smokeless exhaust emissions.
- Blower centrifugal fan(s) shall be provided to inject high pressure air to burn the waste and gases in post combustion chamber for ensuring proper burning of gases before exhaust. These fans will have an automatic servo controlled system for proper injection of air according to the requirements.
- Electronically controlled automatic air distribution and regulation system.
- The temperature should not be less than 1100°C.
- Electrically/ electronically controlled natural gas operated burner with the provision to operate on standby LPG fuel.
- Thermocouple/sensor to monitor the temperature of the secondary chamber.
- Control Box
- PLC based control box with sealed door. The controls should be programmable for temperature adjustment, feeding intervals etc.
- It should have provision for electronic ignition burner timer, feed interval timer, shut down timer, post combustion chamber temperature controller, and controls for burner, blower fans etc.

		<ul style="list-style-type: none"> <li>• Emergency Shutdown button for shutting it off in case of emergency at appropriate site.</li> <li>• Electrical requirements, Line voltage 220VAC 50Hz</li> <li>• Manual ash removal tool</li> <li>• Ash bin</li> <li>• Trolley with cover for transportation of laboratory waste from lab to Incinerator site/room</li> <li>• Fire extinguisher 10kg (Qty 3)</li> <li>• Fire extinguisher 20kg (Qty 1)</li> <li>• LPG cylinders 45kg or above size (Qty 1)</li> <li>• The proponent for EPA approval will be procuring agency and supplied firm will extend all the required assistance throughout the process.</li> <li>• For ensuring clean environment the firm should be responsible for EPA approval before the inspection. (The firm must provide affidavit for EPA approval)</li> </ul>																												
12.	<p align="center"><b>MORTAR AND PESTLE</b></p> <p align="center"><b>CAT-C</b></p> <p align="center"><b>DRUG LAB</b></p>	<p><b>Specifications for Mortar &amp; Pestle</b></p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Composition</th> <th>Shape</th> <th>Capacity</th> <th>Mortar Diameter</th> <th>Mortar Height</th> <th>Pestle Length</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Porcelain</td> <td>Round</td> <td>125ml</td> <td>75mm</td> <td>50mm</td> <td>102mm</td> </tr> <tr> <td>2</td> <td>Porcelain</td> <td>Round</td> <td>300ml</td> <td>100mm</td> <td>90mm</td> <td>152mm</td> </tr> <tr> <td>3</td> <td>Porcelain</td> <td>Round</td> <td>500ml</td> <td>125mm</td> <td>90mm</td> <td>165mm</td> </tr> </tbody> </table>	S.No.	Composition	Shape	Capacity	Mortar Diameter	Mortar Height	Pestle Length	1	Porcelain	Round	125ml	75mm	50mm	102mm	2	Porcelain	Round	300ml	100mm	90mm	152mm	3	Porcelain	Round	500ml	125mm	90mm	165mm
S.No.	Composition	Shape	Capacity	Mortar Diameter	Mortar Height	Pestle Length																								
1	Porcelain	Round	125ml	75mm	50mm	102mm																								
2	Porcelain	Round	300ml	100mm	90mm	152mm																								
3	Porcelain	Round	500ml	125mm	90mm	165mm																								
13.	<p align="center"><b>SOLAR SYSTEM FOR LABS</b></p> <p align="center"><b>CAT-B</b></p> <p align="center"><b>DRUG LAB</b></p>	<p><b>Installation and commissioning 10KVA hybrid Solar system</b></p> <ul style="list-style-type: none"> <li>• 10000 Watts (10 KVA) off Grid hybrid inverter with Dual MPPT.</li> <li>• Inverter IP-65 protection and the capability to run smoothly during day time preferably without battery.</li> <li>• Output Voltage (Single phase/Three Phase) : 220-240/400-440</li> <li>• Frequency: 50Hz</li> <li>• The inverter should have load sharing or parallel operation function.</li> <li>• N-type, bifacial, A Grade panels Solar 10000 Watts</li> <li>• Lithium-ion battery 100Ah, 48V minimum 6000 cycles or better ----2 Qty</li> <li>• Supplier will be responsible for complete installation, distribution Box, and distribution of power and commissioning of the solar system in complete earthing for both AC and DC, lighting arrestors, earthing rods etc as per NEPRA SOPs.</li> <li>• Guarder based Mounting structure for 10000 Watts solar Panels, complete painted, concrete pads/ civil work as per requirement on site.</li> <li>• The supplier will be responsible for complete cabling AC as per required load.</li> </ul>																												

14.	<p style="text-align: center;"><b>HVAC SYSTEM FOR DRUG TESTING LAB</b></p> <p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>DRUG LAB</b></p>	<p>Installation and commissioning of heating, ventilation, and air conditioning at provincial Food and Testing Laboratory Peshawar.</p> <ul style="list-style-type: none"> <li>• Estimated requirement of HVAC for Microbiology Laboratory is 8 TR.</li> <li>• For other labs (clean rooms) at 1st floor is 14TR.</li> <li>• For labs at basement (clean rooms) is 16 TR.</li> <li>• Rate of HVAC will be calculated per TR (Comparison shall be done per TR)</li> <li>• Sterility room should be class B with HEPA filter followed by Class-C in buffer.</li> <li>• Clean room should be Class D without HEPA filter</li> <li>• Temperature rang can be adjust 18°C to 30°C</li> <li>• Humidity should be maintain 35 to 45 (±5%) percent inside the lab</li> <li>• The supplier will be responsible to maintain positive reassure at different area of the lab e.g. (sterility &gt;buffer area&gt; corridor&gt; clean rooms).</li> <li>• Pressure and temperature indication should be installed front of room.</li> <li>• Door air curtain should be installed entrance of the lab</li> <li>• GI ducting sheet, Minimum 24 SWG or better (class VIII with zinc coating of 120 gm/ sq.m.) with fiberglass/ glasswool inside lab cladding on exposed parts/weather proof.</li> <li>• Supply / Return air Terminal Boxes to be mounted in false ceiling in SS 304/316 construction complete with all accessories for fitting the box. Boxes should be provided with top connection including taper piece in SS construction. The Terminal box shall be with Volume Control Damper with provision of controlling CFM from room.</li> <li>• Fire Dampers provided in the supply and exhaust air systems shall be interlocked with the AHU blower motors such that in case of fire, the AHU fan motor should trip automatically.</li> <li>• Alarm HVAC system failure alarm</li> <li>• Room/zone pressure failure alarm</li> <li>• Smoke detection alarm and smoke extraction system should be available</li> <li>• Fire alarm system should be available</li> <li>• Installation of Fire Sprinkler System</li> </ul> <p><b>NOTE: Prospective bidders shall visit the Food testing Laboratory at Phase-V Hayatabad Peshawar, before Pre-bid meeting and bid submission, for ascertaining the requirements / feasibility of the site for installation of HVAC.</b></p>
15.	<p style="text-align: center;"><b>TOP LOADING BALANCES</b></p> <p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>DRUG LAB</b></p>	<ul style="list-style-type: none"> <li>• Max. Weighing capacity:- 3000 gm</li> <li>• Minimum Display Readability:- 0.01g</li> <li>• Repeatability:- ± 0.01g</li> <li>• Linearity:- ± 0.02g</li> <li>• Appropriate pan size</li> <li>• LED / LCD Display for easy viewing</li> <li>• Calibration : Intenal / External</li> <li>• Required Calibration Kit: Yes</li> <li>• With built in printer (Optional)</li> <li>• Rechargeable (optional)</li> </ul>

16.	<p><b>ANALYTICAL BALANCES WITH PRINTER</b></p> <p><b>CAT-A</b></p> <p><b>DRUG LAB</b></p>	<p>TECHNICAL SPECIFICATION :-</p> <ul style="list-style-type: none"> <li>Max. Weighing capacity:- 210 gm or better</li> <li>Display Readability:- 0.1mg / 0.0001g</li> <li>Repeatability:- 0.1mg / 0.0001g</li> <li>Linearity:- <math>\pm 0.2\text{mg} / 0.0002\text{g}</math></li> <li>Display Type :- LCD/LED Display for easy viewing</li> <li>Appropriate pan size.</li> <li>Stabilization time (typical at FAST) 5 seconds (typically) or better</li> <li>Sensing method :- <math>\pm 2\text{ppm} / ^\circ\text{C}</math> (<math>10^\circ\text{C}\sim 30^\circ\text{C} / 50^\circ\text{F}\sim 86^\circ\text{F}</math>)</li> <li>Standard serial I/F :- USB/ RS-232C Interface with Windows Communication with a PC OR</li> <li>Auto calibration</li> <li>With Calibration Kit</li> <li>Built in or External Printer</li> </ul>																
17.	<p><b>MICRO ANALYTICAL BALANCE</b></p> <p><b>CAT-A</b></p> <p><b>DRUG LAB</b></p>	<p><b>MICRO ANALYTICAL BALANCES WITH PRINTER</b></p> <p><b>Technical Specification :-</b></p> <ul style="list-style-type: none"> <li>Maximum Capacity: 5g or better</li> <li>Readability: 1 <math>\mu\text{g}</math></li> <li>Repeatability, typical: 0.4 <math>\mu\text{g}</math> or better</li> <li>Linearity:- <math>\pm 6 \mu\text{g}</math></li> <li>Display : LCD / LED</li> <li>Adjustment: Internal (automatic)</li> <li>Interfaces: RS232 (integrated/optional) / USB</li> <li>21 CFR Part II Compliant Weighing</li> <li>Appropriate Weighing Pan Diameter</li> <li>Automation Options: Automated Workflows</li> <li>With built in / external printer</li> </ul>																
18.	<p>Automatic pipettes (10ul,20ul,100ul, 500ul, 1ml, 2ml, 5ml, and 10ml)</p> <p><b>CAT-B</b></p> <p><b>FOOD LAB</b></p>	<p>Pipette tip cone should be universal type suitable for any micro tips. Suitable tips for all pipettes (PACK 1000PCS)</p> <table border="1" data-bbox="730 1281 1217 1641"> <thead> <tr> <th>Range (Min-Max)</th> <th>Accuracy (on full scale)</th> </tr> </thead> <tbody> <tr> <td>0.5-10 <math>\mu\text{L}</math></td> <td><math>\pm 1\%</math></td> </tr> <tr> <td>10-100 <math>\mu\text{L}</math></td> <td><math>\pm 0.8 \%</math></td> </tr> <tr> <td>100-1000 <math>\mu\text{L}</math></td> <td><math>\pm 0.6 \%</math></td> </tr> <tr> <td>2-20 <math>\mu\text{L}</math></td> <td><math>\pm 1\%</math></td> </tr> <tr> <td>20-200 <math>\mu\text{L}</math></td> <td><math>\pm 0.6 \%</math></td> </tr> <tr> <td>5-50 <math>\mu\text{L}</math></td> <td><math>\pm 0.8 \%</math></td> </tr> <tr> <td>10-500 <math>\mu\text{L}</math></td> <td><math>\pm 0.6 \%</math></td> </tr> </tbody> </table> <p>Calibration: 3-point calibration certificate. Accessories: Suitable pipette holders.</p>	Range (Min-Max)	Accuracy (on full scale)	0.5-10 $\mu\text{L}$	$\pm 1\%$	10-100 $\mu\text{L}$	$\pm 0.8 \%$	100-1000 $\mu\text{L}$	$\pm 0.6 \%$	2-20 $\mu\text{L}$	$\pm 1\%$	20-200 $\mu\text{L}$	$\pm 0.6 \%$	5-50 $\mu\text{L}$	$\pm 0.8 \%$	10-500 $\mu\text{L}$	$\pm 0.6 \%$
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19.	<p>Digital Dispenser (10ml, 50ml, 100ml) Set</p> <p><b>CAT-B</b></p> <p><b>FOOD LAB</b></p>	<p><b>Application:</b> Bottle-top dispensers used for safe dispensing of different volumes of concentrated acids and corrosive chemicals from a bottle safely and reliably, without contamination from the reagent bottles for use in laboratory.</p> <table border="1" data-bbox="651 1865 1473 2056"> <thead> <tr> <th>Range (Min-Max)</th> <th>Accuracy (on full scale)</th> </tr> </thead> <tbody> <tr> <td>Dispenser, 1ml-10ml</td> <td><math>\leq \pm 0.5\%</math></td> </tr> <tr> <td>Dispenser, 10ml-50ml</td> <td><math>\leq \pm 0.5\%</math></td> </tr> <tr> <td>Dispenser, 50ml-100ml</td> <td><math>\leq \pm 0.5\%</math></td> </tr> </tbody> </table>	Range (Min-Max)	Accuracy (on full scale)	Dispenser, 1ml-10ml	$\leq \pm 0.5\%$	Dispenser, 10ml-50ml	$\leq \pm 0.5\%$	Dispenser, 50ml-100ml	$\leq \pm 0.5\%$								
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		<p>Precision piston to prevent liquid efflorescence Calibration certificate.</p> <p><b>Material:</b></p> <ul style="list-style-type: none"> <li>• Metal-free construction</li> <li>• Corrosion resistant components for high concentrated acids/chemicals</li> </ul> <p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>• Adapters that comfortably fit most laboratory reagent bottles.</li> </ul>
20.	<p><b>Auto Titrators (Min 25- Max 100 ml Range)</b></p> <p><b>CAT-A</b></p> <p><b>DTL &amp; FOOD LAB</b></p>	<p>Dosing element with Exchange Unit/Dosing Unit with data chip: Max. 2 × 800 Dosino or 2 × 805 Dosimat Dosing steps per cylinder content : 800 Dosino: 10,000 pulses; 805 Dosimat: 20,000 pulses Operation, dialog: Touch Control Stirrers, titration stand : Incl. 802 Rod stirrer additionally 1 × 801 Magnetic stirrer or 1 × 802 Rod stirrer or 1 × 803 KF Titration Stand</p> <p>Attachment of Dosimats, Dosinos, stirrers: 2 MSB connectors Attachment of Sample Changers (via USB) Ethernet interface to connect to a local network for data archiving or printing on network printers. Temperature sensor: Pt1000/NTC «iTrodes» – intelligent electrodes GLP-compliant electrode test pol and Upol – integrated programmable polarizer DET Dynamic Equivalence-point Titration MET Monotonic Equivalence-point Titration SET Titration to a preset endpoint with automatic conditioning STAT (enzymatic and pH-STAT titrations) MAT Manual Titration MEAS Measuring mode for pH, U/mV, T/°C CAL Calibration with automatic buffer recognition Calibration certificate.</p>
21.	<p><b>Digital Burette (50ml)</b></p> <p><b>CAT-B</b></p> <p><b>FOOD LAB</b></p>	<ul style="list-style-type: none"> <li>• Calibration: Microprocessor controlled with built in Calibration Program.</li> <li>• Capacity: 50 ml or better,</li> <li>• Subdivision: 0.01 ml</li> <li>• Accessories: Titration Tube, Telescopic filling tube, Adapters</li> <li>• Adjustable size</li> <li>• Calibration certificate.</li> </ul>
22.	<p><b>Analytical Balance</b></p> <p><b>CAT-A</b></p> <p><b>FOOD LAB</b></p>	<p><b>Technical Specification:</b></p> <p>Weighting Capacity: 220gm or better Minimum Detection Limit 0.01mg Pan size (mm): Approx. 91 mm dia.</p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• Built-in calibration</li> <li>• Calibration kit</li> <li>• Highest measurement accuracy and precision</li> <li>• RS232C interface or USB</li> <li>• Necessary accessories</li> </ul>

		<ul style="list-style-type: none"> <li>• Calibration certificate.</li> </ul>
23.	<p style="text-align: center;"><b>Soxhlet Apparatus</b></p> <p style="text-align: center;"><b>CAT-A</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<p><b><u>Automatic Solvent Extractor System</u></b> Fully automated solvent extractor &amp; fast, precise and accurate fat determination</p> <p><b>Technical Specifications</b> Positions:6-positions Sample Capacity / Day: 42 or better Display color touch screen - extractable Control Pad Solvent Recovery:&gt; 85% Automation: Immersion, Removing, Washing, Recovery, Cooling Lighting: LED lights show 3/6 active positions Heating Element: Glass ceramic/hotplate – 6 positions independent switch on/off Sample Size: 0.5 to 15 g in 33x80 mm thimbles (generally 2-3 g) Seals: Viton, Butyl, and teflon or better Condensers: Glass/Titanium Interfaces: Multiple interfaces for data collection Result Calculation: Automatic Water Consumption: from 1.0 L/min Calibration certificate.</p>
24.	<p style="text-align: center;"><b>Sulphur-dioxide Apparatus</b></p> <p style="text-align: center;"><b>CAT-A</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<ul style="list-style-type: none"> <li>• Range (Min-Max) 0-10 ppm 0-25 mg/m<sup>3</sup></li> <li>• Extended Ranges (Min-Max) 0-100 ppm 0-250 mg/m<sup>3</sup></li> <li>• Detection Limit 2 ppb (10 second averaging time) 1 ppb (60 second averaging time) 0.25 ppb (300 second averaging time)</li> <li>• Zero Drift &lt;0.5 ppb (24 hour) Span Drift ±0.5% full-scale (24 hour) Response Time 60 sec (10 second averaging time) 110 sec (60 second averaging time) 320 sec (300 second averaging time)</li> </ul> <p>Calibration certificate.</p>
25.	<p style="text-align: center;"><b>TDS meter</b></p> <p style="text-align: center;"><b>CAT-A</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<ul style="list-style-type: none"> <li>• Multipurpose/multifunctional</li> <li>• TDS, conductivity, salinity</li> <li>• Memory: 500 sets or better</li> <li>• Display: LCD with backlight</li> <li>• Interface for connectivity</li> <li>• <b>Accuracy of TDS Meter</b></li> <li>• Conductivity: ± 0.5 µs/cm or better (Full Scale)</li> <li>• TDS: ± 0.1 mg/L</li> <li>• Temperature ± 0.5°C</li> <li>• <b>Resolution:</b></li> <li>• Conductivity: 0.01us/cm</li> <li>• TDS: 0.01 mg/L to 0.1 µg/L or ppt</li> </ul>

		<ul style="list-style-type: none"> <li>• Temperature: 0.1 °C</li> <li>• <b>Range (Min-Max):</b></li> <li>• Temperature Range: 0 to 100.0°C or better</li> <li>• Salinity 0.0-70.0</li> <li>• TDS 0-1999 mg/l or better</li> <li>• Conductivity Range (Min-Max) 0.01 µs/cm to 1000 ms/cm or better</li> </ul> <p>With following accessories</p> <ul style="list-style-type: none"> <li>○ Conductivity Electrode with built in Temperature Sensor</li> <li>○ Electrode Stand</li> <li>○ All Standard solution</li> <li>• Calibration certificate.</li> </ul>
26.	<p align="center"><b>Water Activity Meter</b></p> <p align="center"><b>CAT-A</b></p> <p align="center"><b>FOOD LAB</b></p>	<ul style="list-style-type: none"> <li>• Range: 0.05–1.000 aw or better</li> <li>• Resolution: 0.0001 aw or better</li> <li>• Accuracy: ±0.01 or better</li> <li>• Repeatability: 0.001 aw</li> <li>• Sensor Dew point or better</li> <li>• Temperature Range: 15-50 °C or better</li> <li>• Temperature Resolution: 0.1 °C</li> <li>• Temperature Accuracy: ±0.1 °C</li> <li>• Measurement time. Less than 05 minutes</li> <li>• Provision of Calibration standards</li> <li>• Calibration certificate.</li> </ul>
27.	<p align="center"><b>Moisture Analyzer</b></p> <p align="center"><b>CAT-A</b></p> <p align="center"><b>FOOD LAB</b></p>	<p>Range of Moisture Measurement (Min-Max):0.01% to 100%</p> <p>Capacity (g) 0.5g to 60g or better</p> <p>Sample Type All Type of Food Samples</p> <p>Repeatability 0.15% (2g), 0.05% (5g), 0.02% (10g)</p> <p>Temperature Range Settings: 50 to 200 °C</p> <p>Operating Temperature / Humidity Range: All applicable temperature &amp; humidity conditions of Pakistan, especially Peshawar.</p> <p>Display LCD with backlight</p> <p>Calibration Auto / Self calibration with traceable reference material for calibration, Automatic Self Calibration</p> <p>System as standard</p> <p>Drying Heater Infrared / Halogen</p> <p>Timer Settings 1-99 Minutes</p> <p>Connectivity / Interface / (Input &amp; Output) and/or Wifi and/or Wireless Bluetooth and/or RS-232 Terminal and/or I/O port and/or USB port</p> <p>Accessories: Reusable aluminum pans, temperature calibration kits (optional), Pans holder, Heater insulation plates and other required accessories.</p> <p>Calibration certificate</p>

<p>28.</p>	<p style="text-align: center;"><b>Flame Photometer</b></p> <p style="text-align: center;"><b>CAT-A</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<p><b>Application:</b> The flame photometer used for qualitative and quantitative determination of several cations, especially for metals that are easily excited to higher energy levels at flame temperature. These metals include Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>2+</sup>, and Li<sup>+</sup>.</p> <p>USB interface</p> <p>Elements detected      K, Na, Li, Ca</p> <ul style="list-style-type: none"> <li>• <b>Sensitivity:</b> <ul style="list-style-type: none"> <li>K<sup>+</sup>    0.01 ppm</li> <li>Na<sup>+</sup>    0.01 ppm</li> <li>Li<sup>+</sup>    0.1 ppm</li> <li>Ca<sup>++</sup>  2 ppm</li> </ul> </li> <li>• <b>Range (Min-Max):</b> <ul style="list-style-type: none"> <li>K<sup>+</sup>    0 ppm ~ 100 ppm</li> <li>Na<sup>+</sup>    0 ppm ~ 160 ppm</li> <li>Li<sup>+</sup>    0 ppm ~ 100 ppm</li> <li>Ca<sup>++</sup>  0 ppm ~ 1000 ppm</li> </ul> </li> <li>• <b>Method detection limit</b> <ul style="list-style-type: none"> <li>K<sup>+</sup>    ≤0.156 ppm</li> <li>Na<sup>+</sup>    ≤0.184 ppm</li> <li>Li<sup>+</sup>    ≤0.105 ppm</li> <li>Ca<sup>++</sup> ≤2 ppm</li> </ul> </li> <li>• <b>Linearity</b> <ul style="list-style-type: none"> <li>K<sup>-</sup>    0.195 ppm (0.39 ppm ~ 3.12 ppm)</li> <li>Na<sup>-</sup>    0.69 ppm (1.15 ppm ~ 9.2 ppm )</li> <li>Li<sup>-</sup>    0.15 ppm (0.25 ppm ~ 5 ppm)</li> <li>Ca<sup>-</sup>    3 ppm (5 ppm ~ 100 ppm)</li> </ul> </li> <li>• Sample uptake &lt; 6 mL/min</li> <li>• Response time 15s or better</li> <li>• Accessories: Compressor with Air tank</li> <li>• Fuel: LPG or Natural Gas</li> <li>• Safety Feature: system with auto detection of flame failure and ignition system is mandatory.</li> <li>• Display: LED</li> <li>• Calibration certificate.</li> </ul>
<p>29.</p>	<p style="text-align: center;"><b>Fully Automatic Kjeldhal Apparatus (Nitrogen Distillation Unit Digestion Block Complete Automatic set)</b></p> <p style="text-align: center;"><b>CAT-A</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<p><b>APPLICATION:</b></p> <p>Fully automated Kjeldahl Analysis used to determine organic nitrogen and protein contents and other high temperature digestion processes in food samples.</p> <p>Kjeldahl Unit Should be combined unit with all units from the same manufacturer and consist of Digestion unit, Distillation unit, Scrubber and Auto titrator</p> <p>Sample Type                      Raw materials and finished Products in Food.</p> <p>Analysis time                      10 minutes or better</p> <p>Measuring range                      (Min – Max)  0.1 - 200 mg N or better</p> <p>Nitrogen Reproducibility              1% RSD (including the digestion step)</p> <p>Recovery                              &gt;99.5%</p> <p>Distillation Capacity                      ~40 ml/min</p> <p>Detection Limit                        ≥0.1mg N</p>



Reproducibility 1% of RSD  
Tube draining 200 ml in less than 10 seconds or better  
Temperature Control Accuracy-±0.5 °C

Automated

- Automatic Steam Injection
- Automatic or Adjustable facility of steam power
- Automatic addition of H<sub>2</sub>O
- Automatic Water dilution
- Automatic addition of NaOH
- Automatic Addition of Reagents
- Automatic removal of distillation residue
- Programmable reaction time
- Programmable distillation time

#### **Digestion Unit and Distillation Unit**

- Automated Programmable Temperature Digestion unit.
- Tube holding capacity: ≥ 20
- Temperature: ambient upto 450°C
- Temperature Stability: ± 1°C or better
- Digestion Time range: 1 - 999 minutes or more
- Should have programmable time & temperature ramping and audible alarms
- Should be provided with Automatic motorized lifting of tubes from the heating unit.

#### **Accessories**

- Exhaust Unit
- Rack, Stand, Lid
- Digestion Tubes as per supplied unit
- Handling device for digestion tubes
- All other required accessories for standalone operation of the digester

#### **Scrubber System**

- Safe mode for reducing chemical spillage. Designed to neutralize toxic fumes produced during mineralization.
- The material of construction of the scrubber should be of high endurance materials like borosilicate glass or high-quality stainless steel/pvc.
- Auto start from Digestion System
- Cleaning shall include condensation, neutralization, adsorption and redox reactions to maintain efficiency of the equipment
- Suction should be regulated/ adjustable to achieve efficient digestion.

#### **Automated Distillation and Titration Unit**

- Automated addition of reagents.
- Should be completely programmable for all controls like cooling water, dilution water, sodium hydroxide, receiver solution, automatic calculation, automatic emptying of tube, titration vessel.
- Should have built-in colorimetric titration system and allow use of a wide range of indicators.
- Should have possibility for bypassing automatic titration system to allow manual titration

		<ul style="list-style-type: none"> <li>• Minimum dispensing volume: 2 - 3 µL</li> <li>• Automatic waste removal via tube drainage after distillation</li> <li>• The system should be able to store the recorded data and must have facility for downloading the same using an USB port or through Wi-Fi or connectivity for LIMS</li> <li>• Additionally, it should be possible for transferring weights and retrieving data using suitable software which is compliant to traceability.</li> <li>• The system should have safety sensors and audible warning systems</li> <li>• Should be provided with exchangeable splash head to reduce carry-over effects</li> <li>• The system should be provided with suitable password protection to prevent tampering of programs and data.</li> <li>• The system must be compliant to ISO 17025:2017</li> <li>• The system shall have the possibility to track performance of the system and warns if analysis results changes over time. It is desirable to have component traceability feature in the system for effective maintenance of the system.</li> <li>• The instrument shall be delivered with a Verification Test document that certifies that instrument has been performance tested in factory (confirming analysis performance).</li> </ul> <p><b>Spares and Accessories</b></p> <ul style="list-style-type: none"> <li>• All Chemicals and reagents for 200 runs</li> <li>• All supplied reagent containers must be ≥2 L made of high-quality borosilicate glass</li> </ul> <p>Reference Standard: All reference standards shall be provided, Certified and traceable to international standards</p> <p><b>Reference Method</b></p> <ul style="list-style-type: none"> <li>• Verified method as per official standards such as AOAC, EPA, ISO</li> </ul> <p><b>Operating Manuals, Service Manuals, Other Manuals</b></p> <ul style="list-style-type: none"> <li>• Installation, Operation, and Maintenance.</li> </ul> <p><b>Recommendations or Warnings</b></p> <ul style="list-style-type: none"> <li>• Ensure safety with advanced features and automatic alerts.</li> <li>• Distillation temperature monitoring and warning provision should be there to ensure real time monitoring of temperature of distillate thereby ensuring accuracy of results</li> </ul> <p><b>Digital Connectivity</b></p> <ul style="list-style-type: none"> <li>• The instrument shall be fully capable of digital connectivity capable of integration with Laboratory Management &amp; Information System (LMIS) through Application Programming Interface (API), Direct connectivity, Ethernet, Wifi, Bluetooth etc.</li> </ul> <p><b>List of Spares and Accessories</b></p> <p>List of all spares and accessories (including minor) with part numbers, required for maintenance and repairs in future after guarantee/ warranty period should be attached.</p> <p><b>UPS</b></p> <p>Suitable Online 5 kVA to support the equipment</p> <p><b>Quality Requirement</b></p> <p>Calibration certificate</p>
30.	HOT PLATE	<b>Application:</b>

	<p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<p>Hot plates are generally used to heat liquids as a part of sample preparation for analysis</p> <p>Heating Plate                      Top Plate Material - Cast Iron</p> <p>Top Plate Finish –                  Ceramic Coated resistant to acids, bases Body</p> <p>Material –                              Mild Steel</p> <p>Finish –                                  Powder Coated</p> <p>Should include a separate Temperature Control Unit with PTFE or any acid resistant cord connection</p> <p>Ideal for heating samples and concentrated acids</p> <p>Temperature: Maximum temperature 250°C</p> <ul style="list-style-type: none"> <li>• Overhead stirrer (optional)</li> <li>• PID Controller</li> <li>• Stainless steel heating plate</li> <li>• Support stand</li> <li>• Digital setting and display for temperature and time</li> <li>• warning display</li> <li>• Calibration certificate</li> </ul>
31.	<p style="text-align: center;"><b>EC meter</b></p> <p style="text-align: center;"><b>CAT-A</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<p><b>Technical Specs</b></p> <p>Digital Bench Top</p> <p>Microprocessor Controlled</p> <p>Conductivity Range                      0.0 1uS/cm to 1000 mS/cm or better</p> <p>Accuracy                                      0.5%,</p> <p>Resolution:                                      0.01%</p> <p>Temperature Range                              0 to +100.0°C or better</p> <p>Salinity    0.0-70.0,</p> <p>TDS    0-1999 mg/l</p> <p><b>Mandatory accessories.</b></p> <p>a) Conductivity Electrode with built in Temperature Sensor</p> <p>b) Electrode Stand with Base</p> <p>c) Standard solution 50 ml</p> <p>Calibration certificate</p>
32.	<p style="text-align: center;"><b>pH Meter</b></p> <p style="text-align: center;"><b>CAT-A</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<p><b>PH Meter Digital Bench Model</b></p> <p>Microprocessor Controlled</p> <p>PH Range 0 to 14</p> <p>PH Resolution 0.01 or better</p> <p>pH Accuracy: ± 0.002 or better</p> <p>MV Range ±1200.0mV or better</p> <p>Temperature Range –5 to +105.0°C,</p> <p>Temperature accuracy ±0.1°C</p> <p>Three Point Calibration System</p> <p><b>Accessories:-</b></p> <p>a) Electrode stand with base.</p> <p>b) Beaker 50 ml.</p> <p>c) 3M KCL Solution 50 ml.</p> <p>d) Calibration Standard solutions PH 4, 7 &amp; 10, (50ml each).</p> <p>e) pH Glass Electrode with Built in Temperature Sensor.</p>
33.	<p style="text-align: center;"><b>MECHANICAL SHAKER</b></p> <p style="text-align: center;"><b>CAT-B</b></p>	<p><b>Application:</b></p> <p>Shaking incubators are combination of traditional incubators and a laboratory shaker used to simultaneously incubate and shake or agitate samples.</p>

	<p style="text-align: center;"><b>FOOD LAB</b></p>	<p><b>Shaker requirements</b>  Digital speed controller &amp; timer  Acceleration circuit to prevent sudden start and stop should be available</p> <ul style="list-style-type: none"> <li>• Timer 1 to 99.9 hours continuous mode OR better</li> <li>• UV germicidal lights.</li> <li>• Noiseless operation</li> </ul> <p>Shaking Speed range: 25 to 400 rpm or better with <math>\pm 2</math> rpm accuracy  Temperature range: 5°C to 80°C with accuracy of <math>\pm 0.1^\circ\text{C}</math>  LCD display</p> <p><b>Audible and Visible Alarm</b>  Should indicate when speed deviates more than 5 rpm or temperature deviates more than 1°C from set point, and when timer operation has expired.</p> <p><b>Accessories</b></p> <ol style="list-style-type: none"> <li>1. Universal Platform of at least 40 x 40 cm having capacity to holds assortment of various size of flask sizes up to 2 Ltrs and test tube racks.</li> <li>2. System should be supplied with 125ml clamps (10 Nos.), 250 ml clamps (5 Nos.), 500 ml clamps (05 Nos.), 1000 ml (02 Nos.) and 2000 ml (01- 02Nos)</li> <li>3. Test tube rack for 20x50ml tube-1 no and test tube rack for 42x15ml tubes-1</li> </ol> <p>Calibration certificate.</p>
<p style="text-align: center;"><b>34.</b></p>	<p style="text-align: center;"><b>High Speed Centrifuge machine</b></p> <p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<p>Max. speed: (15000 rpm) or better  No of Rotors: 12  Automatic imbalance detection  Acceleration time = 14s or better  Deceleration time = 15s or better  Timer = 30s to 99.59 hours with continuous run function.  Rotors Capacity= 48 x 1.5/2.0 mL  24 x 1.5/2.0ml tubes,  6 x 15/50ml tubes and  64 x 0.2 ml per tubes</p> <p>Noiseless and vibration free (&lt; 60db or better).  Digital display of speed, timing.  Lid safety interlock  Calibration certificate</p>
<p style="text-align: center;"><b>35.</b></p>	<p style="text-align: center;"><b>Muffle Furnace</b></p> <p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<p>Furnaces have a hinged vertical lift door to keeps the hot door insulation always facing away from the operator.  A door safety switch interrupts power to the heating elements when the door is opened.</p> <ul style="list-style-type: none"> <li>• 1200°C or better operating temperature</li> <li>• Vacuum formed ceramic fiber heating elements ensure rapid heat up excellent temperature uniformity and quick cool down</li> </ul> <p>Insulation. 1. Multiple layers of high quality, asbestos-free ceramic fiber insulation. 2. Must have the Heating elements safely positioned, covered with ceramic plates.</p>

		<p>Temp (°C) 1200 or better  Temperature accuracy: ± 1.0 °C  Heat Zones: 1  Chamber capacity: 5 Liter or better  Temperature measurement by thermocouple Type “K”  Accessories:  i. Protection Glove 2 pairs ii. Crucible Clip 2 pair iii. Crucibles 12 pcs  Calibration certificate</p>
36.	<p><b>FURNACE</b>   <b>CAT-B</b>   <b>DRUG LAB</b></p>	<p>Capacity : 3.0-.0 Litre  Temperature Range : 100°C - 1100°C / 1°  Resolution Hold Time Range: 0:00 - 99:59 (hours: minutes) / 1 Min  Resolution Ramp Rate Range: 0 - 40.0°C/minute / 0.1°C  Resolution Temperature Accuracy: ± 2°C (at 1150°C)  Temp. Controller: PID control by microprocessor  Heater: Iron-chrome wire, 1.5kW Max. temp. reaching time: Approx. 60min  Sensor: R-thermocouple Exhaust port: 18 mm I.D. (upper part)  Cooling Fan Type: Axial fan motor Overheat protection: Integrated controller / Digital setting</p>
37.	<p><b>Laboratory Oven</b>   <b>CAT-B</b>   <b>FOOD LAB</b></p>	<p>PID Temperature Control  Dust Free  Display: LED/TFT  Temp Range. Ambient +5 to 250 °C or better  Temperature Accuracy +-1 °C  Digital counter with target time setting, adjustable from 1 minute to h hours or better.  Safety Alarm: Required  Material of construction: Stainless Steel  Shelves. 02 (adjustable) or better  Capacity 50 Liter or better  Calibration certificate</p>
38.	<p><b>Rancimat</b>   <b>CAT-A</b>   <b>FOOD LAB</b></p>	<p>Determination of the oxidative stability of foods, oils and fats  Analysis on whole sample, without preliminary fat separation  <b>Technical Data:</b>  Pressure range: 0 – 8 bar or better  Temperature range: from room temp. to 110°C or better  Number of oxidation chambers: 2 or better  Capacity single chamber: up to 100 ml  Interface: USB  Overpressure: safety valve  Out of range temperature: visual alarm  Damaged probe: visual alarm  With sample holders, with Computer  Along with all the accessories  Calibration certificates.</p>
39.	<p><b>Calorimeter</b>   <b>CAT-A</b>   <b>FOOD LAB</b></p>	<p>Calorimeter is required to calculate the total energy value of the food products  Specifications Requirement  Instrument Fully Automatic Calorimeter for rapid determination of Gross Calorific Value of food items.  Temperature resolution 0.00010C or Better  Reproducibility/Repeatability &lt;0.1% RSD or better</p>

		<p>Unit of measurement CAL and KJ  Memory 1000 test or Higher  Pelletizer Suitable for pelletizing food samples.  Sample weight 0.5 to 1.0 g, or better  Calories Energy Measurement Range 25 – 10000 Calories or more  Jacket Type Isoperibol, water jacket  Bomb Type Removal bomb and bucket type  Bomb standards Comply with ASTM E144  Network Interface Suitable interfaces for PC, Printer &amp; Balance with USB type port.  Oxygen filling Automatic  Calculation Provision for correction facilities due to moisture Fibre, spike weight, Ash for further calculation of Gross Calorific Value.  Calibration Standards Certified values of Certified Reference Materials (CRM) provided by an accredited Reference Material  Producer with stated metrological traceability to the SI  Oxygen cylinder Oxygen Cylinder 2 nos  Cylinder regulator with adapter for filling the bomb – 1 no  Accessories Ignition wire – Additional 10 Nos Cotton thread – 1000 Pcs Combustion crucible – 25 Pcs Bomb – Additional 3 nos  NIST certified Benzoic for calibration  Any other accessories required for analysis of food samples.  calibration certificates</p>
40.	<p style="text-align: center;"><b>Amino acid analyzer</b>  <b>CAT-A</b>  <b>FOOD LAB</b></p>	<p>Total system band spread, 5 ≤ 12µL  <b>Dwell volume</b> (total system) ≤400µL (includes standard 100 µL mixer) Gradient delay  <b>Volume</b> ≤300 µL (includes standard 100 µL mixer) Integrated leak management  Leak sensors, as standard, and safe leak handling Quantum synchronization Injection synchronization between pump and sample manager enhances retention time reproducibility</p> <p>Settable flow rate range 0.010 to 2.000 mL/min, in 0.001 mL increments (firmware version 1.5x and earlier)  0.010 to 2.200 mL/min, in 0.001 mL increments (firmware version 1.60)  0.001 to 2.200 mL/min in 0.001 mL increments (firmware version 1.65 and later)</p>

		Maximum operating pressure	15,000 psi up to 1.0 mL/min, 9000 psi up to 2.0 mL/min (firmware version 1.5x and earlier) 15,000 psi up to 1.0 mL/min, 7800 psi up to 2.2 mL/min (firmware version 1.6x and later)
		pH range	1 to 12.5
		Unattended operation	Leak sensors and safe leak handling, full 96-hour diagnostic data display through xconsole software
		Cycle time	≤30 s inject-to-inject
		<b>SOLVENT MANAGER</b>	
		Number of solvents	Blend up to four solvents in any combination (standard) Expanded solvent choices with optional six-port solvent select valve
		Solvent degassing chambers	Integrated vacuum degassing, four chambers  One additional chamber for the SM-FTN-H purge solvent
		Solvent blending	Automated, on-line pH, ionic strength, and organic modifier blending from pure solvents with Auto•Blend Plus™ Technology
		Gradient formation gradient	Low-pressure mixing, quaternary
		Gradient profiles	11 gradient curves (including linear, step [2], concave [4], and convex)
		Pressure pulsation greater	≤1.0% or 25 psi, whichever is greater
		Flow accuracy	±1.0% at 0.5 to 2.0 mL/min using 100% A (with i2Valve)
		Flow precision	≤0.075% RSD or ±0.01 min SD, whichever is greater, based on six replicates (with i2Valve)
		Composition ripple† (baseline noise)	≤1.0 mAu (≤0.1 mAU with optional 250 µL mixer) (with i2Valve)
		Composition accuracy	±0.5% absolute (full scale) from 5% to 90% from 0.5 to 2.0 mL/min (with i2Valve)

	<p>Composition precision <math>\leq 0.15\%</math> RSD or <math>\pm 0.02</math> min SD, whichever is greater, based on six replicate injections (with i2Valve)</p> <p>Compressibility compensation Continuous</p> <p>Priming Wet priming can run at flow rates up to 4 mL/min</p> <p>Pump seal wash Equipped with an automated wash system to flush the rear of the high pressure seal and the plunger</p> <p>Flow ramping Range: 0.01 to 30.00 min to reach 2.00 mL/min Default: 0.45 min to reach 2.00 mL/min</p> <p>Primary wetted materials 316L stainless steel, PPS, fluoropolymer, fluoroelastomer, UHMWPE blend, sapphire, ruby, zirconia, Nitronic 60, DLC, PEEK and PEEK blend, titanium alloy</p> <p><b>SAMPLE MANAGER</b></p> <p>Injection volume range 0.1 to 10.0 <math>\mu\text{L}</math> as standard, up to 1000.0 <math>\mu\text{L}</math> with optional extension loops</p> <p>Accuracy (aspiration) <math>\pm 0.2</math> <math>\mu\text{L}</math> (measured by fluid weight removed from vial with 10 <math>\mu\text{L}</math> injections averaged over 20 injections using standard 100 <math>\mu\text{L}</math> syringe)</p> <p>Linearity <math>\geq 0.999</math> (standard needle)</p> <p>Precision <math>\leq 1\%</math> RSD, 0.2 to 1.9 <math>\mu\text{L}</math>  <math>\leq 0.5\%</math> RSD 2.0 to 4.9 <math>\mu\text{L}</math>  <math>\leq 0.25\%</math> RSD 5.0 to 100.0 <math>\mu\text{L}</math></p> <p>Number of sample plates Any two of the following: <ul style="list-style-type: none"> <li>• 96 and 384 microtiter plates</li> <li>• 48 position 2.00-mL vial plates</li> <li>• 48 position 0.65-mL micro-centrifuge tube plates</li> <li>• 24 position 1.50-mL micro-centrifuge tube plates</li> </ul> </p> <p>Maximum sample capacity 768 in two 384-well plates or 96 in 2-mL vial holders, four additional positions for dilution functions</p> <p>Sample compartment 4.0 to 40.0 <math>^{\circ}\text{C}</math>, settable in 0.1 <math>^{\circ}\text{C}</math> increments</p> <p>Temperature accuracy <math>\pm 0.5</math> <math>^{\circ}\text{C}</math> at sensor</p> <p>Temperature stability <math>\pm 1.0</math> <math>^{\circ}\text{C}</math> at sensor</p> <p>Sample Specification</p> <p>Sample manager heat time <math>\leq 30</math> min ambient-40 <math>^{\circ}\text{C}</math></p> <p>Sample manager cool time <math>\leq 60</math> min ambient-4 <math>^{\circ}\text{C}</math></p> <p>Injection needle wash Integral, active, programmable</p> <p>Minimum sample required 3 <math>\mu\text{L}</math> residual, using total recovery</p>
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	<p>2-mL vials (zero offset)</p> <p>Sample carryover <math>\leq 0.002\%</math> caffeine (UV)</p> <p><math>\leq 0.002\%</math> sulphadimethoxine (MS)</p> <p>Advanced Sample Manager capabilities Auto-dilution, auto-addition, and load-ahead</p> <p>Primary wetted materials 316L stainless steel, gold plated stainless steel, Vespel SCP, PEEK blend, DL</p> <p><b>COLUMN HEATER</b></p> <p>Column capacity</p> <p>CH-A: Single column, up to 4.6 mm internal diameter (I.D.), up to 150 mm in length with filter or guard column</p> <p>CH-30A: Single column, up to 4.6 mm internal diameter (I.D.), up to 300 mm length with filter or guard column</p> <p>Column compartment 20.0 to 90.0 °C, settable in 0.1 °C increments temperature range</p> <p>Column compartment <math>\pm 0.5</math> °C at sensor temperature accuracy</p> <p>Column compartment <math>\pm 0.3</math> °C at sensor temperature stability</p> <p>Column compartment heat time <math>\leq 15</math> min ambient-60 °C</p> <p>Solvent conditioning Active pre-heating as standard</p> <p>Passive pre-heating (optional in CH-A only)</p> <p>Column tracking eCord™ Technology column information management tracks and archives column usage history</p> <p><b>Fluorescence Detector</b></p> <p>Column compartment heat time <math>\leq 15</math> min ambient-60 °C</p> <p>Column compartment cool time <math>\leq 15</math> min 60–20 °C</p> <p>Solvent conditioning Active pre-heating as standard</p> <p>Column tracking eCord Technology column information management tracks and archives column usage history</p> <p>2D support Optional</p> <p>Wavelength range 200 to 890 nm (excitation) 210 to 900nm(emission)</p> <p>Bandwidth 20 nm</p> <p>Wavelength accuracy <math>\pm 3</math> nm</p> <p>Wavelength repeatability <math>\pm 0.25</math> nm</p> <p>Sensitivity* S/N &gt;1000 (Raman spectrum of H2O)</p> <p>Measurement range 0.001 to 10,000 EU</p> <p>Data acquisition Up to 80 Hz</p> <p>Unattended operation Leak sensors, full diagnostic data captured through console software</p> <p><b>Food &amp; Feed Chemistry Kit - Automation</b></p>
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		<p>Column 2.1 X 100mm, x 1  Eluent A (950mL), x 1  Eluent B (950mL), x 1  Derivatization Kit – Automation, 96 analysis, x 5  Amino Acid Food and Feed Standard Kit, x 1  Amino Acid Internal Standard-Norvaline, x 1  96-well Sample Collection Plate, 800 µL Round well, 50/pk, x 1  Cap mat, 5/pk, x1  C18 column for Aflatoxins  pH Range 1-12  pressure 18000 psi  perker style  surface Area 185  Carbon Load 18%  Note; System Should be capable to analyze Amino Acids and Aflatoxins, ochratoxins and Mycotoxins by Same system.</p>
41.	<p><b>Water bath</b>   <b>CAT-B</b>   <b>FOOD LAB</b></p>	<p>Water bath is a laboratory unit with digital PID controller and LED display for optimized temperature uniformity.  Insulated stainless steel chamber and high temperature powder coating exterior provides protection against corrosion and chemical damage. It includes lid with concentric rings for easy placement of flasks and reduces heat loss.  Microprocessor controlled system (consistent results)  Digital display  Aluminum cover (high thermal conductivity)  Over temperature alarm for safety  Built-in internal drain  Easy to clean and operate  Capacity 20L or better  Temperature range RT+5 °C to 99 °C or better  Temperature fluctuation ± 1.5 °C  Temperature homogeneity ± 1 °C  Calibration certificate</p>
42.	<p><b>Ultrasonic bath sonicator</b>   <b>CAT-B</b>   <b>For DTL &amp; FOOD LAB</b></p>	<p><b>Technical specs</b>  Stainless steel tank and moisture proof design  Digital sweep generator for constant electronic waves  Anti-corrosion treatment with stainless steel interiors  -Temperature-controlled ultrasonic operation:  - Temperature setting: 80C° or better.  - Tank max.(litre) = 03 or better  - Ultrasound frequency (kHz) = 40  Calibration certificate</p>
43.	<p><b>Solvent Filtration Assembly</b>   <b>CAT-A</b>   <b>FOOD LAB</b></p>	<p>Supplied with a 40-60-micron porosity fritted glass support base, a 1 L graduated funnel, an anodized aluminum clamp and quick fit assembly  Prefilter size is 35 mm  Approximate filter area is 9.6 cm<sup>2</sup>  Connection to 1-liter filtration flask (available as an accessory) is made with a silicone stopper  Borosilicate glass conforming to USP Type I</p>

		<p>Glass assembly should be autoclave-able Should include vacuum pump, oil free, vacuum adjustable gauge with built in auto-thermal protection, along with 47mm membrane filter-hydrophilic/hydrophobic. Membrane Pore size 0.45 micron (100 per pack) with pH stability. Calibration certificate</p>
44.	<p><b>Anaerobic Jar</b> <b>CAT-A</b> <b>FOOD LAB</b></p>	<p>3 stacks of 6 dishes (90-100mm) Patri Dish holder 3/25R Capacity: 5liter or better Time taken to attain anaerobic condition 3-5 mints Stainless steel clamp Type: Pumping Material lid: Polymethylmethacrylate (PMMA) or better Calibration certificate</p>
45.	<p><b>Autoclave Vertical</b> <b>CAT-A</b> <b>FOOD LAB</b></p>	<p>Microprocessor controlled.</p> <ul style="list-style-type: none"> <li>• Class B type</li> <li>• Capacity 40 liters or more</li> <li>• LCD screen can display temperature, pressure, time, operating status, error and alarm information, etc</li> <li>• Automatic functioning Vacuumization, Heating, Sterilization, Exhaust and Drying</li> <li>• Pre and post fractionated vacuum.</li> <li>• Sterilization temperature:121°C to134°C</li> <li>• Should have inbuilt or external demineralizer Working pressure 15psi -17psi or better</li> <li>• Power: 220-240 VAC, 50 Hz</li> </ul> <p>Accessories: Trays 02 Nos Basket 02 Nos Calibration certificate</p>
46.	<p><b>Automated glassware washer</b> <b>CAT-B</b> <b>FOOD LAB</b></p>	<p>Digital LCD touch screen promotes visual monitoring and operational accessibility. Real time display of washing temperature and drying air temperature. 316 L stainless steel double walled internal structure. Insulated anti-corrosive external structure. One touch 6 preset cleaning procedures (washing, rinsing, ultrasound rinsing, blast drying, washing temperature, drying temperature) Automatic power off by temperature control relay Automatic alarm indication on absence of washing liquid and distilled water Capacity 100L or better Water heating Temperature 99°C Hot Air drying Temperature 120°C Safety Protection Water Presssure 0.03-0.8MPa or better Ambient temperature 5 °C ~ 40 °C or better Relative humidity &lt; 85 % Calibration certificate</p>
47.	<p><b>BOD with Incubator</b></p>	<p>Range seletable: 0-35,0-70,0-350,0-700mg/l BOD. Capacity: Six bottles 492ml Resolution: 1mg/l</p>

	<p align="center"><b>CAT-A</b></p> <p align="center"><b>FOOD LAB</b></p>	<p>Precision: for a standard containing 150mg/l each of glucose and gutmic acid, testing 44 samples obtain a mean of 235 mg/l BOD with a 95% confidence limit of ditribution of 11mg/l. Drift: lesser than 3mg/l BOD in 5 days Operating temperature 20°C</p> <p><b>For Incubator</b> Digital display for parameters viewing and control Stainless steel shelves (interior material)</p> <p>Capacity 50 L or better Temperature range 0 °C ~ 40 °C or better Temperature accuracy ± 0.5 °C or better Calibration certificate</p>
48.	<p align="center"><b>Circulating water bath</b></p> <p align="center"><b>CAT-B</b></p> <p align="center"><b>FOOD LAB</b></p>	<p>Capacity 20 L or above Controller Type, Digital Includes, Stainless Steel Gable cover and Rubber Duck Material Stainless Steel Single switch control for heater and circular pump Temperature Range Ambient +5-100°C or better Temperature Stability, ±0.1°C Temperature Uniformity, ±0.05°C Calibration certificate</p>
49.	<p align="center"><b>Digital Colony Counter</b></p> <p align="center"><b>CAT-A</b></p> <p align="center"><b>FOOD LAB</b></p>	<p><b>Image</b> Camera CMOS color camera or better Lens M12 lens or better Digital zoom x 28 or better Resolution 1 megapixel or better Counting time 500 colonies per second or better Minimum size of colonies 0.1 mm Lighting technology Long-life white LEDs / Dark Field Lighting system Automatic 6 combinations, top and/or bottom light white or black background</p> <p><b>Counting</b> Counting Automatic, with manual control Results / data Recountable file, PDF report, JPEG, PNG, BMP, Excel™ USB connection yes Petri dishes (55-90 mm)</p> <p><b>PC requirements</b> Operating systems Compatible with latest system</p> <p><b>Required Accessories</b> • Software, Connection cables, 3 control dishes, User's manual and other required accessories Calibration certificate</p>
50.	<p align="center"><b>Frost Free Double door (side by side) Refrigerator</b></p>	<p>CFC-free rapid fan cooling technology Digital control panel for temperature monitoring and alarms Sprayed steel interiors</p>

	<p><b>CAT-B</b></p> <p><b>FOOD LAB</b></p>	<p>Temperature range: 2 °C ~ 8 °C</p> <p>Interior cabinet LED lighting</p> <p>Storage capacity 500 L (each side) or better</p> <p>Ambient temperature 05°C ~ 40°C or better</p> <p>Temperature sensor NTC or better</p> <p>Refrigerant R600a or better technology</p> <p>Evaporator Copper tube aluminum fin</p> <p>Condenser Tube type</p> <p>Noise 55 Db or less</p> <p>Transparent door haaving lock system</p> <p>5 Or more shelf (on each side)</p> <p>Disply LED/Digital display for temperature and warning/error messages</p> <p>To have seven days chart recorder/microprocessor controlled digital data logger technology.</p> <p>Calibration certificate</p>
51.	<p><b>Micropipettes</b></p> <p><b>CAT-B</b></p> <p><b>FOOD LAB</b></p>	<p>Adjustable volume pipettes</p> <p>Selected volume is clearly displayed in the large 4-digit volume display</p> <p>High accuracy and precision</p> <p>Good chemical &amp; UV-light resistance</p> <p>Pipette ranges: 0.1-2ul, 0.5-10ul, 2-20ul, 10-100ul, 20-200ul,100-1000ul, 500-5000ul along with tips.</p> <p>Calibration certificate</p>
52.	<p><b>FUME HOOD</b></p> <p><b>CAT-B</b></p> <p><b>DRUG LAB</b></p>	<p>External size (WxDxH) mm: 1040x800x2200 Or appropriate</p> <p>Internal size (WxDxH) mm: 820x670x730 Or appropriate</p> <p>Work Surface : SS 304</p> <p>Work surface height: 850mm</p> <p>Max. Opening: 500mm Or better</p> <p>Air Velocity: 0.3~0.8 m/s</p> <p>Noise: ≤60dB</p> <p>Exhaust Duct: PVC, Standard length 4 m, Ø300mm</p> <p>Fluorescent Lamp: 14W*1</p> <p>UV Lamp: Emission of 253.7 nm</p> <p>Front Window: 5mm toughened glass, motorized, height adjustable</p> <p>Consumption: 400W</p> <p>System Exhaust Volume: 710 m<sup>3</sup>/h or better</p> <p>Exterior Material: 1.0 mm cold-rolled steel with bacteria power coating.</p> <p>Interior Material: Compact material board with good acid and alkali resistance function.</p> <p><b>Standard Accessory:</b></p> <p>UV lamp</p> <p>Fluorescent lamp</p> <p>Water tap</p> <p>Gas tap</p> <p>Water sink</p> <p>Base cabinet</p> <p>Total load of 2 waterproof sockets 500W</p> <p>4 meter PVC exhausts duct pipe strap.</p> <p>Active carbon filter</p>

53.	<p style="text-align: center;"><b>Gerber Centrifuge</b></p> <p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<ul style="list-style-type: none"> <li>• Gerber Butyrometers (350 x g)</li> <li>• Solubility index in milk powder (164 x g)</li> <li>• Extraction tubes Roesse-Gottlieb/Mojonnier (80 x g) 1 variable speed range (200-1300 rpm).</li> </ul> <p>Controller: Microprocessor Controller Automatic Brake, imbalance switch off &amp; Lid lock Control Thermostatic temperature Control Display LCD</p> <p>Accessories: i. 36 swinging sleeves of stainless steel with special rotor ii. Stainless steel holder including inserts, Butyrometer tubes and tubes stand iii. Rose - Gottlieb/Mojonnaire tube with holder, stainless steel including inserts and tubes stand iv. All other necessary accessories (Gerber tubes with stand, mojonnaire tubes with stand, Babcock tubes with stand) must be provided for proper functioning of equipment.</p>
54.	<p style="text-align: center;"><b>Gel Electrophoresis</b></p> <p style="text-align: center;"><b>CAT-B</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<p><b>Vertical Electrophoresis Kit:</b></p> <p><b>Mini units set;</b></p> <ul style="list-style-type: none"> <li>• Including base gel running unit, safely lid connecting leads spacers etc.</li> <li>• Gel casting unit including unit, glass plates, combs, casting frame etc.</li> <li>• Combs size includes 0.5mm, 0.75mm, 1.0mm, 1.5mm, 2mm Number of wells 10/12/15</li> </ul> <p><b>Power Supply</b></p> <ul style="list-style-type: none"> <li>• Power supply suitable for vertical (mini and standard) and horizontal gel electrophoresis constant voltage and constant current modes</li> <li>• Output voltage: Adjustable from 0 to 500V or better with an increment of 1 V or less</li> <li>• Output Current; 800mA or better with increment of 1mA</li> <li>• Terminals /Sockets;4 Pairs</li> <li>• LCD/ LED Display</li> <li>• Safely; All necessary safely provisions like Over load; No load, Sudden change in load, power failure indication</li> </ul> <p>Input Voltage; 220VAC.</p>
55.	<p style="text-align: center;"><b>Refractometer</b> <b>(Benchtop)</b></p> <p style="text-align: center;"><b>CAT-A</b></p> <p style="text-align: center;"><b>FOOD LAB</b></p>	<p><b>Measuring ranges Refractive index scale (RI)</b></p> <p>Range nD                    1.3000to 1.6600 or better Resolution nD             ± 0.001 or better Accuracy nD                ± 0.0001 or better</p> <p><b>Measuring ranges Brix scale</b></p> <p>Range                        0 to 100 % Resolution                 0.01 % or better Accuracy                    0.05 % or better</p> <p>Operational Temperature: 0-40°C or better Temperature probe accuracy ± 0.1 °C OR better Measuring time             5 seconds or better (per sample)</p>



		<p>Accuracy <math>\pm 0.2\%</math> (abs.)  Milk Density 1.0200 - 1.0400 g/cm<sup>3</sup>  Accuracy <math>\pm 0.0005</math> g/cm<sup>3</sup> (abs.)  Protein 2% - 6%  Accuracy <math>\pm 0.2\%</math> (abs.)  Freezing Point 0 -1.000 °C  Accuracy <math>\pm 0.015^{\circ}\text{C}</math> (abs.)  Added Water to Milk 0% - 60%  Accuracy <math>\pm 5\%</math> (abs.)  Lactose 0.5% - 7%  Accuracy <math>\pm 0.2\%</math>  Calibration certificate.  Country of Origin: USA, Japan, Western Europe, Bulgaria</p>																														
58.	<p><b>Portable NIR spectrometer</b>   <b>CAT-A</b>   <b>FOOD LAB</b></p>	<p>Application</p> <ul style="list-style-type: none"> <li>● Detection of Adulterants</li> <li>● Detection of Toxicants</li> </ul> <table border="1"> <thead> <tr> <th>Feature</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>Analysis time</td> <td>&lt; 40 seconds</td> </tr> <tr> <td>Sample containers</td> <td>4 and 8 mm disposable vials. 1, 2, 5 and 10 mm cuvettes and 1 mm flow cell</td> </tr> <tr> <td>Measurement mode</td> <td>Transmission</td> </tr> <tr> <td>Wavelength area</td> <td>400 - 2500 nm</td> </tr> <tr> <td>Detector</td> <td>Si (400 - 1100 nm), InGaAs (1100 - 2500 nm)</td> </tr> <tr> <td>Optical bandwidth</td> <td>8.75 nm</td> </tr> <tr> <td>Spectral resolution</td> <td>0.5 nm</td> </tr> <tr> <td>Wavelength accuracy</td> <td>0.20 nm</td> </tr> <tr> <td>Ambient temperature</td> <td>5 - 40°C</td> </tr> <tr> <td>Sample temperature (min.)</td> <td>Ambient +10°C</td> </tr> <tr> <td>Sample temperature (max.)</td> <td>80°C</td> </tr> <tr> <td>Degree of protection</td> <td>IP54</td> </tr> <tr> <td>Wavelength precision instrument-to-instrument (Based on a group of analysers)</td> <td>0.015 nm as std</td> </tr> <tr> <td>Photometric noise</td> <td>850 - 2500 nm &lt; 20 micro au</td> </tr> </tbody> </table> <p>Calibration certificate</p>	Feature	Specification	Analysis time	< 40 seconds	Sample containers	4 and 8 mm disposable vials. 1, 2, 5 and 10 mm cuvettes and 1 mm flow cell	Measurement mode	Transmission	Wavelength area	400 - 2500 nm	Detector	Si (400 - 1100 nm), InGaAs (1100 - 2500 nm)	Optical bandwidth	8.75 nm	Spectral resolution	0.5 nm	Wavelength accuracy	0.20 nm	Ambient temperature	5 - 40°C	Sample temperature (min.)	Ambient +10°C	Sample temperature (max.)	80°C	Degree of protection	IP54	Wavelength precision instrument-to-instrument (Based on a group of analysers)	0.015 nm as std	Photometric noise	850 - 2500 nm < 20 micro au
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59.	<p><b>Freeze Dryer</b>   <b>CAT-A</b>   <b>FOOD LAB</b></p>	<p>Materials/Samples for freeze drying: Food Products/Commodities.  Pressure. Less than 10pascals  Freeze Drying Time.20 hours or better  Shelf temperature: At least -30 °C to +60 °C or better  Condenser capacity: At least 16 kg  Condenser temperature: At least -50°C  Adjustable shelves with sample temperature sensors  HCFC/CFC-free refrigeration system</p>																														



		Data may be exported via USB or Ethernet Digital display Freeze dry glassware along with all accessories Calibration certificates
60.	<b>ULT Freezer Chest</b>  <b>CAT-A</b>  <b>FOOD LAB</b>	ULT Freezer                      verticle with dual freezing System Cooling liquid                    R404A / R508B or equivalent Cooling type                      air cooling Insulation                        Vacuum insulation paneling Capacity                            350L or better Temperature range                -50 °C to -86 °C or better LN2/CO2 backup system Calibration certificate
61.	<b>Micro Filtration Assembly</b>  <b>CAT-B</b>  <b>FOOD LAB</b>	Supplied with a 40-60-micron porosity fritted glass support base, a 1 L graduated funnel, ananodized aluminum clamp and quick fit assembly Prefilter size is 35 mm Approximate filter area is 9.6 cm <sup>2</sup> Connection to 1-liter filtration flask (available as an accessory) is made with a silicone stopper Borosilicate glass conforming to USP Type I Glass assembly should be autoclave-able Should include vacuum pump, oil free, vacuum adjustable gauge with built in auto-thermal protection, along with 47mm membrane filter-hydrophilic/hydrophobic. Membrane Pore size 0.45micron (100 per pack) with pH stability. Calibration certificate
62.	<b>Water (Water purify) Ultra-pure water</b>  <b>CAT-A</b>  <b>FOOD LAB</b>	Source                                Potable tap water pretreated with Barnstead Pretreatment System Silt density index (SDI)        <3 Turbidity                            <1 NTU Conductivity (reference temperature +25°C)    1500 µS/cm (670 Ω·cm) Hardness                            Hardness stabilized Chlorine                            Max. 0.1 ppm pH range                            4 - 11 Temperature                        +2°C - +35°C Pressure                            2 - 6 bar / 29 - 87 PSI (at a pressure >6 bar / 87 PSI a pressure reducer must be installed upstream of the system.)  <b>Product water quality ASTM Type I (from dispensing valve)</b> Conductivity (reference temperature +25°C) µS/cm    0.055 Resistance (reference temperature +25°C)MΩ·cm    18.2 TOC value                            ppb                    1 - 5 RNase                                ng/ml                <0.003 DNase                                pg/ul                <0.4 Bacteria                            CFU/ml            <0.1 Bacterial endotoxins            EU/ml                <0.001 Particle >0.2µm                #/ml                <1 Dispense rate                      L/min                up to 1 <b>Product water quality ASTM Type II (tank quality)</b>

		Conductivity (reference temperature +25°C) $\mu\text{S}/\text{cm}$ 0.1 – 1.0 Resistance (reference temperature +25°C) $\text{M}\Omega\cdot\text{cm}$ 1 - 10 Retention rate for bacteria and particles 99% External tank capacity 30L or 60L flow* L/hr 16lph +/-15% concentrate flow* L/hr 60 Calibration certificate
63.	<p style="text-align: center;"><b>Still Camera</b> <b>CAT-B</b> <b>FOOD LAB</b></p>	Digital camera Single-lens reflex (DSLR) <ul style="list-style-type: none"> <li>• Lens Mount :F- mount with AF coupling and AF contact</li> <li>• Affective angle of view :Full frame FX format with Astrophotography</li> <li>• Image sensor : 35mm x 24 mm, CMOS</li> <li>• File Format JPEG TIFF (RGB)</li> <li>• Flash synchronizing speed 1/250s to 1/320s or better</li> <li>• ISO sensitivity ISO 200 - 12800 (expandable to 100-51200) or above</li> <li>• Built in flash Manual pop up with button release</li> <li>• White balance Auto and manual</li> <li>• Frame size (pixels): 1920 x 1080, 60p (Progressive) or better</li> <li>• LCD / LED 8 cm or above</li> <li>• Card slot : 1 CompactFlash card and 1 Secure Digital (SD) card, Either card can be used for primary or backup storage or for separate storage of NEF (RAW) and JPEG images; pictures can be copied between cards</li> <li>• Battery Two Nos. rechargeable battery with original Battery Charger (compatible with this camera</li> <li>• USB Cable, USB Cable Clip, HDMI Cable Clip( compatible with camera)</li> <li>• Camera Strap, , Camera carrying bag professional Backpack</li> </ul>
64.	<p style="text-align: center;"><b>CENTRIFUGE MACHINE</b> <b>CAT-B</b> <b>DRUG LAB</b></p>	Speed: 6000rpm or above. Rotor capacity: 0.2mL/0.5mL/1.5mL/2mL × 12 Run time: 30sec~99min/Continuous Driving motor: Brushless DC motor Safety Devices: + Door interlock, + Over-speed detection, + Over-temperature detection, + Automatic internal diagnosis Power Supply : 230V, 50/60Hz Noise level: $\leq 54\text{dB}$ or better
65.	<p style="text-align: center;"><b>Glassware Drying cabinet</b> <b>CAT-B</b> <b>For FOOD LAB</b></p>	Used for Drying Glassware and instruments. $10^{\circ}\text{C}$ above ambient + $100^{\circ}\text{C}$ better Working volume: 150 liters or better Material: Stainless steel No of shelves. Perforated, 02 or better (stainless steel) Dual glass door. Digital LED Display PID Digital Controller System Sound/Visual Alarm Calibration certificate

66.	<p align="center"><b>Glassware Drying cabinet</b></p> <p align="center"><b>CAT-B</b></p> <p align="center"><b>FOR DRUG LAB</b></p>	<p>Capacity :- Capacity 125 Lit, OR above Temperature range: - 10°C above ambient + 100°C. OR above adjustable</p> <p>Time Adjustment: 1 Pt 100 Sensor Digital timer. ( adjustable)</p> <p>Air Circulation: - Forced air circulation (Fan). Forced air circulation by quite air turbine, 10% steps.</p> <p>adjustable in</p> <p>Overheat protection: Over Temperature Protection.</p> <p>Power : 220 Volts /50Hz</p>
67.	<p align="center"><b>Glassware (Beakers, Flasks, Cylinders, Pipettes, Gloves etc.)</b></p> <p align="center"><b>CAT-B</b></p> <p align="center"><b>FOOD LAB</b></p>	<p>Heavy Duty Acid resistant gloves</p> <p>Beaker Type 1 (Class A) Borosilicate Glass Must be Autoclavable 10 mL, 20 mL, 50 mL, 100 mL, 250 ml, 500 ml, 1000 mL</p> <p>Graduated cylinder Type 1 (Class A) Borosilicate Glass Must be Autoclavable 10 ml, 25 ml, 50 ml, 100 ml, 250 ml, 500 ml</p> <p>Funnel Type 1 (Class A) Borosilicate Glass Must be Autoclavable 50mm, 75mm, 90mm</p> <p>Conical Flask Type 1 (Class A) Must be Autoclavable 25 mL, 50 mL, 100mL, 250mL, 500mL</p> <p>Volumetric flasks Type 1 (Class A) Must be Autoclavable 50 mL, 100mL, 250mL, 500mL, 1000 mL, 2000 mL</p> <p>Gooch Crucible Porosity (40 to 60 µm)</p> <p>Glass Graduated Pipette Type 1 (Class A) Must be Autoclavable 1 ml, 2 ml, 5ml, 10ml, 15ml, 20 ml, Dropper with Rubber Cap</p> <p>Micro Pipette</p>

		<p>Type 1 (Class A) Must be Autoclavable 0.2-2 uL, 1-10 uL, 2-20 uL , 20-100 uL</p> <p>Burettes: Type 1 (Class A) straight stopcock, accuracy: <math>\pm 0.03</math> mL, borosilicate glass (Schellbach stripes, PTFE spindle) Size: 10, 25, 50, 100mL</p> <p>Glass Petri Dish: Type 1 (Class A) Must be Autoclavable 25mm, 50mm, 100mm, 150mm diameter</p> <p>Calibration certificate.</p>																				
68.	<p><b>STIRRER</b></p> <p><b>CAT-B</b></p> <p><b>DRUG LAB</b></p>	<p>Work plate. 5 inches or larger Work plate material. Stainless Steel Voltage 220V-240 Speed Range 100-1000 rpm or better Stirring Capacity 1 liter or better With Magnets, &amp; Speed display.</p>																				
69.	<p><b>DESICCATOR</b></p> <p><b>CAT-B</b></p> <p><b>DRUG LAB</b></p>	<p><b>70A.</b></p> <ul style="list-style-type: none"> <li>Fiber glass body with Vacuum release valves.</li> <li>With Support Stand</li> <li>With 2 or more shelves with holes</li> <li>Stainless Steel pan for desiccant</li> <li>With Side hinged fully gasketed door with tempered safety glass.</li> <li>Preferably with Vacuum source.</li> </ul> <p><b>70B.</b></p> <ul style="list-style-type: none"> <li>Made of Polypropylene and Polycarbonate</li> <li>With Silicon-o-ring</li> <li>With perforated polyethylene disc</li> <li>Complies with USP testing</li> </ul> <table border="1"> <thead> <tr> <th>Plate Diameter (mm) (<math>\pm 5\%</math>)</th> <th>Inside Diameter (mm) (<math>\pm 5\%</math>)</th> <th>Flange Outer Diameter (mm) (<math>\pm 5\%</math>)</th> <th>Overall Height (mm) (<math>\pm 5\%</math>)</th> </tr> </thead> <tbody> <tr> <td>150</td> <td>145</td> <td>170</td> <td>210</td> </tr> <tr> <td>200</td> <td>195</td> <td>230</td> <td>270</td> </tr> <tr> <td>250</td> <td>240</td> <td>275</td> <td>330</td> </tr> <tr> <td>300</td> <td>297</td> <td>338</td> <td>410</td> </tr> </tbody> </table>	Plate Diameter (mm) ( $\pm 5\%$ )	Inside Diameter (mm) ( $\pm 5\%$ )	Flange Outer Diameter (mm) ( $\pm 5\%$ )	Overall Height (mm) ( $\pm 5\%$ )	150	145	170	210	200	195	230	270	250	240	275	330	300	297	338	410
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70.	<p><b>70a. Computer with central work station</b></p> <p><b>CAT-B</b></p> <p><b>DRUG &amp; FOOD LABs</b></p>	<p>Branded Computer</p> <p><b>CPU:</b></p> <ul style="list-style-type: none"> <li>• Branded CPU</li> <li>• CPU Core i7 Processor: 3.4 GHz (13<sup>th</sup> generation) or better</li> <li>• Bit Processing: 64 Bits</li> <li>• Cache L1-L2: 8MB</li> <li>• CD/DD/Super Drive Support Installed Processor Core i7</li> <li>• Hard Disk: 1 TB SSD</li> <li>• Memory Ram Size and type: 16 GB DDR4 or better</li> <li>• USB: 06 USB Ports or better</li> <li>• Wi-Fi and Ethernet connectivity</li> </ul> <p><b>Monitor:</b></p> <ul style="list-style-type: none"> <li>• Branded LED FHD 20 inch or more monitor</li> </ul> <p><b>Accessories:</b></p> <ul style="list-style-type: none"> <li>• With all standard power cables.</li> <li>• Key board, Mouse, VGA cables etc.</li> <li>• Licensed Antivirus</li> <li>• With genuine windows 10 or better</li> </ul>	
	<p><b>70b. Printers</b></p> <p><b>CAT-B</b></p> <p><b>DRUG &amp; FOOD LABs</b></p>	<p><b>Printer</b></p> <ul style="list-style-type: none"> <li>• Print Quality: 1200 x 1200 or higher.</li> <li>• Print Speed: 40 ppm or higher.</li> <li>• Print Technology: LaserJet</li> <li>• Processor: 1 GHz or higher</li> <li>• Input Tray Capacity: 350 sheets or higher</li> <li>• Output Tray Capacity: 150 sheets or higher</li> <li>• Media Support: A4, A4-R, etc.</li> <li>• Memory: 512MB or better</li> <li>• Connectivity: LAN, USB and Wifi</li> </ul>	
71.	<p><b>HVAC</b></p> <p><b>CAT-B</b></p> <p><b>FOOD TESTING LABORATORY PESHAWAR</b></p>	<p>DX AHU for Microbiology 4-TR with 1600 CFM for maintaining Class C</p>	<p>For sterility Room it must be Class B and lobby/buffers should be C followed by D. 2-Nos of DX Hygienic AHUs will be required for captioned controlled area.</p> <p>1- 8-TRs with 2800~3000-CFM</p> <p>2- 8-TRs with 2800~3000-CFM</p>
		<p>DX AHU for Hitec Lab Area (48 x 15) 720-sft First Floor</p>	<p>For Hitec LAB DX AHU Cap: 6-TR with Air Vol. ranging between 1400~1500-CFM. AHU must be with 50% Fresh air and 50% Recovered air</p>
		<p>Chemical Room 2 Area (23.10x15) 362-sft Second Floor</p>	<p>For Chemical Rooms DX AHU Cap: 10-TR with Air Vol. ranging between 2200~2500-CFM. AHU must be with 50% Fresh air and 50% Recovered air</p>
		<p>Chemical Room 3 Area (23.10x15) 362-sft Second Floor</p>	

		Chemical Room 4 Area (23.10x15) 362-sft Second Floor	
		Food Chemical 2 Area (33.5 x 15) 502.5-sft	For Food Chemical Room DX AHU Cap: 4-TR with Air Vol. ranging between 1000~1200-CFM. AHU must be with 50% Fresh air and 50% Recovered air
		Temperature & Humidity Ranges	Humidity Range should be 35~45% ±5%
		Ducting	Ducting 24-26.SWG. Flange joint duct should be acceptable for pressure maintaining. No S joint duct will be acceptable
		Room/Zone pressure failure alarm	Pressure Failure indication.
		Smoke detection	Smoke detectors will be provided in each room and corridors through exhaust system.
		Installation of Fire Sprinkler System	MS/SS Piping throughout the corridor and clean room areas and SS Piping in Micro Lab & Hitec Lab
		Certifications for Technical evaluation	For HVAC equipment AHRI or Eurovent Certification must be mandatory
		<b>NOTE:</b> Prospective bidders shall visit the Food testing Laboratory at Phase-V Hayatabad Peshawar, before Pre-bid meeting and bid submission, for ascertaining the requirements / feasibility of the site for installation of HVAC.	
72.	<b>AOAC Official Method of Analysis (OMA)  CAT-C  FOOD LAB</b>	Official Methods of Analysis (OMA) of AOAC INTERNATIONAL, 3-Volume Set, Twenty-Second Edition (22nd Edition 2023) George W. Latimer, Jr	
73.	<b>Reference Standards  CAT-C  DRUG LAB</b>	<ul style="list-style-type: none"> <li>• Reference standards as per requirements of the official Monographs (USP, BP, EP, JP)</li> </ul> <u>Names of the Reference standard</u> <ul style="list-style-type: none"> <li>• Acetaminophen</li> <li>• Acyclovir</li> <li>• Albuterol</li> <li>• Albendazole</li> <li>• Alendronate Sodium</li> <li>• Alfuzosin Hydrochloride</li> <li>• Allopurinol</li> <li>• Alprazolam</li> <li>• Dried Aluminum Hydroxide Gel</li> <li>• Amantadine Hydrochloride</li> <li>• Amikacin Sulfate</li> <li>• Amitriptyline Hydrochloride</li> <li>• Amlodipine Besylate</li> </ul>	

- Ammonium Chloride
- Amoxicillin
- Ampicillin Sodium
- Anhydrous Sodium Succinate
- L-Arginine
- Artemether
- Artesunate
- Ascorbic Acid (Vitamin C)
- Aspirin
- Atenolol
- Atorvastatin Calcium
- Atropine Sulfate
- Azithromycin
- Bacitracin Zinc
- Baclofen
- Beclomethasone Dipropionate
- Benazepril Hydrochloride
- Benzalkonium Chloride
- Betamethasone
- Betamethasone Dipropionate
- Bethanechol Chloride
- Bisacodyl
- Bromazepam
- Bromocriptine Mesylate
- Bupivacaine Hydrochloride
- Buspirone Hydrochloride
- Caffeine
- Calcium Carbonate
- Calcium Gluconate Anhydrous
- Candesartan Cilexetil
- Captopril
- Carbamazepine
- Carbidopa
- Carvedilol
- Cefaclor
- Cefadroxil
- Cefazolin
- Cefepime Hydrochloride
- Cefixime
- Cefotaxime Sodium
- Cefoperazone Dihydrate
- Cefpodoxime Proxetil
- Ceftazidime Pentahydrate
- Ceftriaxone Sodium
- Cefuroxime Sodium
- Cefuroxime Axetil
- Celecoxib
- Cephalexin
- Cephradine
- Cetirizine Hydrochloride
- Chloramphenicol
- Chlordiazepoxide

- Chlorhexidine
- Chloroquine Phosphate
- Cholecalciferol (Vitamin D3)
- Cimetidine
- Ciprofloxacin
- Cisplatin
- Citalopram Hydrobromide
- Clarithromycin
- Clavulanate Lithium
- Clindamycin Hydrochloride
- Clindamycin Phosphate
- Clobetasol Propionate
- Clomiphene Citrate
- Clonazepam CIV
- Clonidine Hydrochloride
- Clopidogrel Bisulfate
- Clotrimazole
- Cloxacillin Sodium
- Clozapine
- Colchicine
- Cyclophosphamide
- Cycloserine
- Cyclosporine
- Desmopressin Acetate
- Desogestrel
- Dexamethasone Sodium Phosphate
- Dextromethorphan
- Diclofenac Potassium
- Diclofenac Sodium
- Dimenhydrinate
- Diazepam CIV
- Diltiazem Hydrochloride
- Diphenhydramine Citrate
- Disulfiram
- Divalproex Sodium (200 mg)
- Dobutamine Hydrochloride
- Dopamine Hydrochloride
- Doxazosin Mesylate
- Doxycycline Hyclate
- Doxylamine Succinate
- Duloxetine Hydrochloride
- Dutasteride
- Enalapril Maleate
- Enoxaparin Sodium
- Enrofloxacin
- Entecavir Monohydrate
- Ephedrine Sulfate
- Epinephrine
- Erythromycin
- Escitalopram Oxalate
- Esomeprazole Magnesium
- Estradiol



- Estradiol Valerate
- Ethambutol Hydrochloride
- Ethinyl Estradiol
- Ezetimibe
- Famciclovir
- Famotidine
- Fenofibrate
- Ferrous Sulfate
- Fexofenadine Hydrochloride
- Fluconazole
- Folic Acid
- Formoterol Fumarate
- Gatifloxacin
- Gemcitabine Hydrochloride
- Gemifloxacin Mesylate
- Glimepiride
- Glucosamine Hydrochloride
- Haloperidol
- Heparin Sodium
- L-Histidine
- Hydralazine Hydrochloride
- Hydrocortisone
- Hydroquinone
- Hyoscyamine Sulfate
- Ibuprofen
- Imipenem Monohydrate
- Imipramine Hydrochloride
- Indomethacin
- Insulin Aspart
- Insulin Glargine
- Ipratropium Bromide
- Irbesartan
- Isoflurane
- Isotretinoin
- Itraconazole
- Diluted Isosorbide Mononitrate
- Ketoconazole
- Ketoprofen
- Ketorolac Tromethamine
- Labetalol Hydrochloride
- Lansoprazole
- Leflunomide
- Letrozole
- Levetiracetam
- Levodopa
- Levofloxacin
- Lidocaine Hydrochloride
- Linezolid
- Lisinopril
- Loperamide Hydrochloride
- Lorazepam
- Loratadine

- Losartan Potassium
- Lumefantrine
- Magnesium Sulfate)
- Mebendazole
- Meclizine Hydrochloride
- Mefenamic Acid
- Meloxicam
- Memantine Hydrochloride
- Metformin Hydrochloride
- Methotrexate
- Methylcobalamin
- Methyldopa
- Metoclopramide Hydrochloride
- Metoprolol Succinate
- Metronidazole Benzoate
- Miconazole
- Midazolam Hydrochloride
- Minoxidil
- Misoprostol
- Montelukast Sodium
- Morphine Sulfate
- Moxifloxacin Hydrochloride
- Naloxone
- Naproxen
- Neomycin Sulfate
- Nifedipine
- Norfloxacin
- Nystatin
- Ofloxacin
- Olanzapine
- Omeprazole
- Ondansetron
- Orphenadrine Citrate
- Oxytocin
- Oxytetracycline Hydrochloride
- Pantoprazole Sodium
- Paroxetine Hydrochloride
- Penicillin G Benzathine
- Pentazocine
- Pheniramine Maleate
- Phenytoin Sodium
- Physostigmine Salicylate
- Piperacillin
- Piperazine
- Piroxicam
- Polymyxin B Sulfate
- Prazosin Hydrochloride
- Prednisolone Acetate
- Pregabalin
- Progesterone
- Procyclidine Hydrochloride
- Promethazine Hydrochloride

		<ul style="list-style-type: none"> <li>• Propofol</li> <li>• Pseudoephedrine Hydrochloride</li> <li>• Pyrazinamide</li> <li>• Pyridoxine Hydrochloride</li> <li>• Quetiapine Fumarate</li> <li>• Quinine Sulfate</li> <li>• Ramipril</li> <li>• Ribavirin (200 mg)</li> <li>• Rifampin (300 mg)</li> <li>• Risperidone</li> <li>• Rivaroxaban</li> <li>• Rosiglitazone Maleate</li> <li>• Rosuvastatin Calcium</li> <li>• Sertraline Hydrochloride</li> <li>• Sevoflurane</li> <li>• Sildenafil Citrate</li> <li>• Simethicone</li> <li>• Sitagliptin Phosphate</li> <li>• Solifenacin Succinate</li> <li>• Spironolactone</li> <li>• Streptomycin Sulfate</li> <li>• Sulfamethoxazole</li> <li>• Tamoxifen Citrate</li> <li>• Tazobactam</li> <li>• Tamsulosin Hydrochloride</li> <li>• Tenofovir Disoproxil Fumarate</li> <li>• Terbinafine Hydrochloride</li> <li>• Theophylline</li> <li>• Ticlopidine Hydrochloride</li> <li>• Tinidazole</li> <li>• Tobramycin</li> <li>• Tolbutamide</li> <li>• Topiramate</li> <li>• Tramadol Hydrochloride</li> <li>• Tranexamic Acid</li> <li>• Triamcinolone (</li> <li>• Trimethoprim (</li> <li>• Valproic Acid</li> <li>• Valsartan</li> <li>• Venlafaxine Hydrochloride</li> <li>• Vinblastine Sulfate</li> <li>• Warfarin</li> <li>• Xylometazoline Hydrochloride</li> <li>• Yohimbine Hydrochloride</li> <li>• Zinc Sulfate</li> <li>• Zoledronic Acid</li> <li>• Zolmitriptan</li> </ul>
74.	<p style="text-align: center;"><b>LAL test Kit for endotoxin</b></p> <p style="text-align: center;"><b>CAT-C</b></p> <p style="text-align: center;"><b>FOR DRUG LAB</b></p>	<p>Lysate for Endotoxin Testing</p> <ul style="list-style-type: none"> <li>• Multi test Vial for Endotoxin Testing</li> <li>• Sensitivity: 0.03 EU/ml or better</li> <li>• Expiry: 70% or more.</li> </ul>

		<ul style="list-style-type: none"> <li>• Certificate of Compliance and Certificate of Analysis with online traceability is mandatory.</li> </ul> <p>Control Standard Endotoxin</p> <ol style="list-style-type: none"> <li>1. purified extract of E. coli</li> <li>2. Expiry: 70% or more</li> <li>3. Certificate of Compliance and Certificate of Analysis with online traceability with quoted lysate is must</li> </ol> <p>LAL Reagent water,</p> <ol style="list-style-type: none"> <li>1. &lt;0.001 EU/ml &lt;1.56 pg/mL glucan</li> <li>2. Expiry: 70% or more</li> <li>3. Certificate of Compliance with online traceability is must</li> </ol>
75.	<p align="center"><b>Chemicals/Media (Analytical Grade)</b></p> <p align="center"><b>CAT-C</b></p> <p align="center"><b>FOOD LAB</b></p>	<ol style="list-style-type: none"> <li>1. Nutrient Agar (NA):</li> <li>2. Tryptic Soy Agar (TSA).</li> <li>3. Plate Count Agar</li> <li>4. MacConkey Agar:</li> <li>5. Eosin Methylene Blue (EMB) Agar</li> <li>6. Hektoen Enteric Agar (HEA):</li> <li>7. Mannitol Salt Agar (MSA):</li> <li>8. Xylose Lysine Deoxycholate (XLD)</li> <li>9. Buffered Peptone</li> <li>10. Selenite Cystine Broth:</li> <li>11. Tetrathionate Broth</li> <li>12. Lactose Broth</li> <li>13. Violet Red Bile Agar (VRBA):</li> <li>14. Listeria Enrichment Broth</li> <li>15. Cetrimide Agar</li> <li>16. Sabouraud Dextrose Agar (SDA)</li> <li>17. Rappaport-Vassiliadis Soy Peptone (RVS) Broth</li> <li>18. Bacterial gram staining kit</li> <li>19. Nutrient broth</li> <li>20. SS media</li> <li>21. Hexane</li> <li>22. Diethyl Ether</li> <li>23. Anhydrous Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>)</li> <li>24. Ethanol or Isopropanol</li> <li>25. Sodium Metabisulfite (Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>)</li> <li>26. Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) .</li> <li>27. Sodium Hydroxide (NaOH).</li> <li>28. Catalysts - mixture of potassium sulfate (K<sub>2</sub>SO<sub>4</sub>) and copper(II) sulfate (CuSO<sub>4</sub>)</li> <li>29. Distillation Reagent, boric acid (H<sub>3</sub>BO<sub>3</sub>)</li> <li>30. Indicator Solution - methyl red or bromocresol green-methyl red mixture</li> <li>31. Standard Acid Solution - Hydrochloric acid (HCl) OR sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)</li> <li>32. Standard Base Solution - Sodium hydroxide (NaOH)</li> <li>33. Benzoic Acid (C<sub>7</sub>H<sub>6</sub>O<sub>2</sub>)</li> </ol>

34. Lithium Citrate Buffers - Different pH levels (e.g., pH 2.2, 2.6, 3.0) for ion-exchange chromatography.
35. Sodium Citrate Buffers -
36. Acetonitrile -
37. Methanol -.
38. Phenylisothiocyanate (PITC) - Used in pre-column derivatization (e.g., for PTC amino acid analysis).
39. 6-Aminoquinolyl-N-hydroxysuccinimidyl Carbamate (AQC) - Used in derivatization for better detection.
40. O-Phthalaldehyde (OPA) - Commonly used with a thiol (like 2-mercaptoethanol) for fluorescence detection.
41. Ninhydrin - Used for post-column derivatization in ion-exchange chromatography, producing a colorimetric response.
42. Hydrochloric Acid (HCl) - For hydrolysis of proteins/peptides.
43. Sodium Hydroxide (NaOH) - For neutralization after hydrolysis.
44. Internal Standards - Known amino acids for calibration and quantification.
45. Ethanol - used for cleaning and maintenance of the system.
46. Sodium Azide - added to buffers to prevent microbial growth.
47. Formic Acid - used in mobile phases or for sample preparation.
48. 6N HCl - For protein/peptide hydrolysis.
49. Ammonium Hydroxide (NH<sub>4</sub>OH).
50. Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) - Concentrated sulfuric acid (90-91%)
51. Amyl Alcohol (Isoamyl Alcohol or Pentanol)
52. Acrylamide/Bis-acrylamide
53. Tris Base - Buffer component to maintain pH
54. SDS (Sodium Dodecyl Sulfate)
55. Ammonium Persulfate (APS)
56. TEMED (N,N,N',N'-Tetramethylethylenediamine)
57. β-Mercaptoethanol or DTT (Dithiothreitol)
58. Glycerol
59. Bromophenol Blue
60. Protein Ladder/Marker
61. Coomassie Brilliant Blue - Common protein stain
62. Fixing Solution - Usually a mixture of methanol and acetic acid
63. Destaining Solution - Typically a mixture of methanol, acetic acid, and water for Coomassie Brilliant Blue stain
64. Methanol - Used in some staining and destaining protocols
65. Acetic Acid - Used in fixing and destaining protocols
66. Concentrated Hydrochloric Acid (HCl) -
67. Paraffin or Gelatin Capsules
68. Acetone
69. Potassium Permanganate (KMnO<sub>4</sub>)  
Sodium Carbonate (Na<sub>2</sub>CO<sub>3</sub>)

**SECTION V**

**QUALIFICATION AND EVALUATION CRITERIA**

## QUALIFICATION CRITERIA (MUST MEET CRITERIA)

For factors retained in the Bid Data Sheet pursuant to ITB 25, following quantification methods will be applied, submitted bids will be reviewed to determine compliance with Procuring Entity's mandatory requirements which serves the purpose to evaluate the responsiveness and eligibility of the bidder and equipment/ items proposed. Only bids found to be responsive and eligible will be further evaluated for technical criteria. The Bidder shall furnish documentary evidence to demonstrate that the bidder and Food Testing Equipment/ items it offers meet the following Qualification/ Eligibility requirement:

i. **Mandatory Compliance Certificate:**

21 CFR compliance, for all equipment/ items under Category-A (Where applicable).

ii. **Verification:**

The validity of the Bidder requires that all relevant forms be signed by authorized person or persons.

iii. **Compliance to Agreement:**

Accepting all the conditions set forth in these Bid Solicitation Documents by signing and stamping all the pages of the bidding document by the bidder each page of the SBD i.e. ITB, GCC, SCC, Bid Data Sheet, Addendums / Corrigendum (if any), Technical Requirements and other mandatory Form's provision etc.

iv. **Authorization:**

a) If **Bidder is not manufacturer:** but Authorized dealer of the original manufacturer in procuring entity's country offering the Goods on behalf of the Manufacturer under Manufacturer's Authorization Form (Section VII, Bidding Forms).

v. **Registration of firm/company:**

Registered as a legal entity authorized to enter into contracts for provision of services and goods. As a proof, the bidder should provide a certified copy of Certificate of Incorporation or other documents setting forth the legal basis of the company:

If **Bidder is Original Manufacturer:** is offering to supply Goods which the bidder manufactures or otherwise produces. The Bidder must submit documentary evidence that it is incorporated in the country of manufacture of the Goods and country of Procuring Entity

If bidder is authorized Agent of the original manufacturer in the procuring entity's country Proprietorship of a well-established Authorized Agent of the original manufacturer, including documentation regarding the company's legal status and registration under relevant law of Khyber Pakhtunkhwa or Government of Pakistan.

vi. **Tax Registration:**

Sales & Income Tax registration of the bidder is required as:

Valid Income Tax Registration

Valid General Sales Tax Registration

Bidder must be active taxpayer and listed as an active taxpayer on the respective websites of relevant taxation authorities.

As per **Rule No (37)(A) of KPPRA Rules 2014** For Service Level Agreement All bidders are required to be registered with the Khyber Pakhtunkhwa Revenue Authority (**KPRA**), established under the Khyber Pakhtunkhwa Finance Act, 2013 (Khyber Pakhtunkhwa Act No. XXI of 2013

- vii. **Bid Security:**  
Offers must include required Bid Security of 2% of the bid cost An Affidavit in this regard shall be included with technical proposal without mentioning the amount of bid security. Bid Security shall be submitted with the financial bid and from the account of the bidder / firm.
- viii. **Price/Bid Validity:**  
Offers must meet required Price Validity of **180 Days** from Bid Opening date.
- ix. **An Affidavit on Judicial stamp paper of Rs.100 or more** submitting following clauses that:
- a. Only genuine manufacturer's warranty for replacement and not repair of the complete Equipment and parts shall be done during the warranty period.
  - b. That the bidder / firm will provide all durables, consumables, re-agents etc for each equipment throughout the useful life & beyond useful life of each equipment.
  - c. That the firm is never blacklisted on any grounds whatsoever.
  - d. That the country of origin of equipment is mentioned clearly and correct along with Brand /Manufacturer's Name.
  - e. Standard Accessories as a part and parcel of the equipment are clearly mentioned and provided.
  - f. That the Bidder will provide after sales services beyond the period of warranty.
  - g. That bidder has submitted Bid Security amounting to 2% of the proposed bid inside financial proposal.
  - h. That the firm is never blacklisted on any grounds whatsoever by any of Provincial or Federal Government Department, Entity, Organization or autonomous body or Private Sector Organization anywhere in Pakistan.
  - i. That bidder has declared Conflict of Interest (if any), along with Bid Solicitation Documents.
  - j. That the country of origin of equipment / item is mentioned clearly and correct along with Brand / Manufacturer's Name.
  - k. That the Bidder will only provide Fresh, New and Genuine Goods / Items.

Technical bids of only those Bidders/ firms will qualify for Technical Evaluation which meets all of the above-mentioned criteria. Each Bid / proposal will be evaluated individually for each equipment/ item in order to achieve maximum value for money and economy for each equipment / item.

The Evaluation procedure will be conducted exclusively based on available information specified here in these Bid Solicitation Documents.



## **TECHNICAL EVALUATION METHODOLOGY (TOTAL SCORE = 70)**

Technical Evaluation is based on Evaluation and comparison of Compliance & Conformity with requirements including but not limited to:

### **TECHNICAL EVALUATION CRITERIA (SCORE=70)**

#### **Quality:**

- a. **Product Quality:** Evaluation of quality will be based on proposed equipment registration for quality, standards / accreditation in the country of its origin with relevant international quality and standards certification body. i.e., if a product of USA has been proposed then (US-FDA), if a product of Japan has been proposed then (Japan Industrial Standards-JIS) & in case of Europe registration with (European Commission-EC) etc. Relevant standards certification bodies have been provided in Section-IV under each Equipment/ item.
- b. **Minimum one valid certificate shall be provided for Category A items.**
- c. Certificate of US Food and Drug Administration (US-FDA), 510K of the quoted model.
- d. Certificate of European community medical devices directive (CEMDD/IVD98/79EC) (Full Quality Assurance or Product Quality Assurance) for the quoted model issued by IAF accredited body.
- e. Certificate of conformity, Declaration of Conformity, CE Technical documentation review, Compliance Report etc. will not be considered as CE certificate.
- f. Certificate of Ministry of health labor and welfare Japan (MHLW) of the quoted model/manufacturer. (Translated English Version)
- g. Non provision of one mandatory valid certificate shall lead to disqualification of the item.

**Compliance/ Conformity with requirements:** By comparing proposed equipment with the specifications of requirements to determine the degree to which the Goods, meet or exceed the Technical Specifications, specified by procuring entity in the “**Schedule of Requirements**”.

A Bidder / firm or proposed Goods will "Meet" requirements when all Technical & Performance specification of offered Goods matches the requirements set by Procuring Entity herein these bid solicitation documents.

A Bidder / firm or proposed Goods will "Exceed" requirements when all Technical & Performance specification of offered Goods not only matches the requirements but also 50% of the Technical & Performance specification offered Goods are better than requirements specified herein these bid solicitation documents. e.g in case of "Accuracy of an equipment/ item required is  $\pm 0.2$  and the offered equipment/ item Accuracy  $\pm 0.1$  same will be considered exceeding requirement.

**Product Performance and Productivity:** Extent of Purpose, Performance, capacity, or functionality features meet or exceed the levels specified in the performance / functional requirements and/or influence the life-cycle cost. Performance, Capacity and Functionality features shall include “Accuracy, Precision, Reproducibility, and Repeatability.

**Sample Evaluation:**

Samples of equipment as decided by the executive committee, and quoted by bidder / firm for evaluation will be first verified for the Technical & Performance specifications proposed by the bidder. After satisfying itself for conformity of equipment / item with technical specification. During sample demonstration bidder will demonstrate Technical, Performance & functional characteristic of equipment/ item consisting of the determination of one or more characteristics of a given product, process or service according to a generally acceptable procedure. Bidder must demonstrate the Accuracy, Repeatability, Resolution & Precision etc. of each proposed equipment. In case where bidder may not be able to demonstrate sample of an equipment due to imported item not available in country, size of equipment, installation requirements in such case bidder must submit original manufacturer’s catalogue, brochure, and data sheet of equipment.

**Please Note:** *Samples provided by the bidders as per the requirements of executive committee for Technical Evaluation must meet the requirements and specifications set here in these Bid Solicitation Documents. Any sample not meeting the requirement will be rejected and equipment will be disqualified from the evaluation process. All Samples will be evaluated in comparison with specifications published here in these bid solicitation documents at Section-IV “Schedule of Requirements”*

**Company’s / Bidders capacity and Capability:**

To perform the contract. Capacity and Capability will be measured in terms of following:

a) **Financial Capabilities:**

Submission of signed / attested audit reports for the last consecutive three years along with financial statements for the past three fiscal years and shall meet the following basic financial criteria:

**Annual Sales tax returns.**

**Bidder’s/firms Experience:**

List of same product deliveries/services provided over the last 3 years with details, dates and recipients (whether in the public or private domain). Certificate from user for satisfactory delivery shall be submitted.

**The Certificate should NOT be older than 03 years.**

**c. Delivery Schedule:**

Procuring Agency requires all the equipment to be delivered within Ninety (90) days from

the day of the award of the contract or issuance of Purchase Order.

**d. Scope of Services:**

Bidder's capability in terms of post award services which includes:

- a. **Warranty:** Standard manufacturer warranty is compulsory. However, the procuring entity will award score requires All such warranties for the goods shall remain in effect for a period as specified for each equipment and / or as specified in Technical Evaluation Criteria of one (1) year or for such other longer period that the original manufacture or authorized dealer of original manufacturer Bidder normally provides for such goods or a longer period agreed upon in this Contract after the goods are placed in use (the "Warranty Period")
- b. **Technical Support & After Sales Services.** Evidence and capability of firm/Bidders/ manufacturer for technical support & after sales service beyond warranty period. Evidence and capability of firm/Bidders/ manufacturer for technical support & after sales service during & beyond warranty period. After Sale Satisfactory performance certificate (verifiable) of the firm in last six years, on letter head, signed and stamped for the quoted model or previous provided model of equipment from the public sector Institutes/ Semi Government or Private Organizations of Pakistan. Performance certificate shall be coupled with supply order / purchase order from public sector Institutes/ Semi Government or Private organizations of Pakistan
- c. **Established Office / Service Center:** Distance office / service center complete with maintenance & 24/7 support facilities from the HQ of the procuring agency.  
**Established Office / Service Center:** Manufacturer's / principle approved workshop facility: Availability of Manufacturer's / Principle's approved workshop / service center facility within procuring entity's country i.e Pakistan.

Technical Evaluation of the bid has been allotted 70 marks / score to Category (A, B, C, D). Bids will be scored for total of 70 points

<b>Technical Evaluation Weight</b>	<b>70%</b>
<b>Financial Evaluation Weight</b>	<b>30%</b>
<b>Total</b>	<b>100%</b>



## SCORING AND WEIGHING PRINCIPLES

Scores will be awarded to bidders / firm if proposed Goods will "Meet" requirements when all Technical & Performance specification of offered Goods matches the requirements set by Procuring Entity herein these bid solicitation documents without any minor deviation.

Scores will be awarded to bidders A Bidder / firm or proposed Goods will "Meet" requirements when all Technical & Performance specification of offered Goods matches the requirements set by Procuring Entity herein these bid solicitation documents without any minor deviation.

A Bidder / firm or proposed Goods will "Exceed" requirements when the offered equipment not only meets all the required specifications & functionality of equipment but also offers an additional feature / capability.

The Technical Evaluation Committee will evaluate and score bids in accordance with the quality of Technical Bid in terms of The Technical Evaluation Committee will evaluate and score bids in accordance with the quality of Technical Bid in terms of:

- ❖ Extent that bidder / firm **Meets** the criteria set for award of contract. i.e., the bidder/ firm has same capabilities as required here in the Bid Solicitation Documents.
- ❖ Extent that the bidder proposed specifications **Meets** or **Exceeds** the Specifications set herein these Bid Solicitation Documents for the same item.
- ❖ Extent that proposed equipment/ items exceeds the **Performance & Productivity** measures set under specifications of requirements.
- ❖ Extent that bidder proposed equipment / item exceeds the level of **Capacity, or Functionality** Features specified under specifications of requirements.
- ❖ Extent that samples provided meets or exceeds the Level of Specifications of requirements set in this SBD and Performance & Technical specifications provided / proposed by bidder / firm in its bid.

## Financial Evaluation and Scoring System for Bids

**(Maximum Allocable Marks Score = 30 marks)**

The financial bids of technically qualified bidders will be opened publicly at the time to be announced by the Procuring Agency and the financial bids found technically non-responsive shall be returned un-opened to the respective Bidders.

Total Allocable marks for Technical

Proposal = 70 Total Allocable marks in

Financial Proposal= 30

Total Combined Allocable Score for individual bids =Marks obtained in Technical Evaluation +

Marks obtained in Financial Evaluation = 100

### **Scoring Methodology:**

Contract will be awarded to the best evaluated fair and responsive bidder whose product ranks highest in the Combined Evaluation scoring calculated through the Marks awarded to Technical Proposal and Financial Proposal as stated in the Bid Data Sheet of these Standard Bidding Documents.

The Evaluation Methodology is a combination of non-price factors (in Technical Criteria) and price factor (in Financial Criteria); and each having points as elaborated in the evaluation preforms provided in these SBDs.

**Procedure for the Marks Scoring:** Marks will be awarded or otherwise for various technical parameters to each quoted product based on the prescribed Technical and Financial criteria. The total combined marks will determine the highest-ranking product in each product category for contract award.

**The formula to calculate the marks for the price by the bidders other than lowest bidder is given below:**

**Financial Evaluation Score of individual quoted Product** = [Lowest quoted Price of the item ÷ Next higher proposed Price of the competing item] x Total allocable financial score

### **Solved Example of Financial Scoring** \_\_\_\_\_ :

If the lowest quoted price of an item is Rs. 86/-, the same lowest bidder will obtain score as below: =  $[86 \div 86] \times 30$

=30 marks, being the lowest bidder for the quoted item.

- If the next higher quoted price of the same item is Rs. 105/-, the marks obtained will be: =  $[86 \div 105] \times 30 = 24.57$  Marks

If the next higher quoted price of the same item is Rs. 130/-, the marks obtained will be: =  $[86 \div 130] \times 30 = 19.84$  Marks .... And so on.

## TECHNICAL EVALUATION CRITERIA FOR CATEGORY- A EQUIPMENT / ITEMS

S.No	Description of Variables	Allocated Points/Marks
<b>1.</b>	<b>Product / Manufacturer Evaluation Parameters</b>	
<b>2.</b>	<b>Conformance to Specification</b>	
3.	Fully compliance with the required specifications as per Statement of Requirement. Minor deviations may be accommodated up to 3, subject to the condition that main function and performance in any aspect would not be affected. More than 3 minor deviations will be considered as major deviation and the bidder will be considered as non-responsive for the quoted item. (One mark for each deviation will be deducted).	25
	One point will be awarded to additional required function up to a Maximum of two points.	2
<b>4.</b>	<b>Product International Certification</b>	
5.	<ul style="list-style-type: none"> <li>• <b>Certificate of US Food and Drug Administration (US-FDA)</b></li> <li>• <b>CE certificate for the quoted product from European commission notified body and / or EU Declaration of Conformity</b></li> <li>• <b>JIS/ MHLW for the quoted product</b></li> </ul>	<b>One certificate is mandatory having no marks, while producing additional certificates will get 2 marks each up to maximum of (04) points</b>
<b>6.</b>	<b>Manufacturer Performance</b>	
7.	Valid ISO 45001 Occupational Health & Safety Certificate of manufacturing plant from PNAC / IAF accredited body	2
8.	RoHS certificate from notified body	2
	Valid ISO 9001 Quality Management Certificate of manufacture from PNAC / IAF accredited body	2
<b>9.</b>	<b>After Sale Product Local Performance</b>	
10.	One mark for each after sale satisfactory performance certificate (verifiable) of the firm / bidder in last five years on letter head, signed and stamped letter for the item from the public sector, Performance certificate shall be coupled with supply order / purchase order	6

11.	One mark for each after sale satisfactory performance certificate (verifiable) of the firm / bidder in last five years on letter head for the item private sector. Performance certificate shall be coupled with supply order / purchase order from teaching level private sector.	5
<b>12.</b>	<b>Warranty</b>	
13.	Warranty Period of three years both with spare parts and services & Next two-year services only without spare parts from the date of Installation / Commissioning.	<b>Mandatory</b>
14.	<b>Country of Origin:</b> USA, Japan, Western Europe	<b>Mandatory</b>
15.	<b>The bidder shall have to provide valid proof of being manufacturer / Authorized distributor of manufacturer.</b>	<b>Mandatory</b>
<b>16.</b>	<b>Product / Manufacturer Evaluation Parameters</b>	
<b>17.</b>	<b>Firm / bidder Evaluation</b>	
<b>18.</b>	<b>Personnel/Human Resource</b>	
19.	Diploma of Associate Engineer (DAE) in electrical / electronic / instrumentation / mechatronics / mechanical / industrial. DAE certificate must be submitted. (1 mark for each certificate).	2
20.	Graduate Engineer with PEC Registration in electrical / electronics, instrumentation / mechatronics / mechanical / industrial. PEC registration card of the engineer must be submitted. (1 marks for each Engineer).	4
<b>21.</b>	<b>Workshop facility Testing/ Calibration tools of Equipment</b>	
22.	Availability of office in Peshawar, to be verified with Ownership / Rent Agreement with Owner/ Rent Agreement with Company Name.	<b>1</b>
23.	Availability of workshop in Peshawar, to be verified with Ownership / Rent Agreement with Owner/ Rent Agreement with Company Name.	<b>2</b>
24.	A certificate provided for the list of related tools available at workshop for the quoted items. Details shall be submitted with technical bid.	2
25.	A certificate along with List of Testing and Calibration tools for the quoted items available at workshop. Details shall be submitted with technical bid.	2
26.	Detail of Spare parts availability at workshop for the quoted items. Details shall be submitted with technical bid.	2
<b>27.</b>	<b>Firm / bidder Financial Strength</b>	

28.	<p>Last three years Audited Balance Sheet Duly attested by Chartered Accountant.</p> <ul style="list-style-type: none"> <li>• Turnover 60 million or above 4 marks/points.</li> <li>• Turnover below 60 and above 30 million will be awarded 3 marks/points.</li> <li>• Turnover below 30 million and above 20 million will be awarded 1 marks/points.</li> </ul> <p>• <b>Income tax returns for last three years must be submitted with audited balance sheet</b></p>	4
<b>29.</b>	<b>Firm / bidder Registration</b>	
30.	Firm / bidder registration at relevant forum (SECP/Registrar of Firm / bidder, FBR).	Mandatory
31.	Valid ISO 9001 Quality Management Certificate of the firm / bidder from PNAC accredited bodies.	3
<b>32.</b>	<b>Total Score of the Firm / bidder Evaluation Parameters</b>	
<b>33.</b>	<b>Total Score</b>	<b>70</b>
<p><b>NOTE:</b> The bidder shall provide the details regarding country of origin, Model, Make, manufacturer, along with details of Manufacturing Units and mode of supply, shipment, and any other associated details of the component items and that of the quoted equipment. Bidders are bound to supply the equipment from quoted country of origin or authorized manufacturing site (GCC Clause 3).</p>		



## TECHNICAL EVALUATION CRITERIA FOR CATEGORY- B ITEMS

S. No.	Description of Variables	Allocated Points
<b>1.</b>	<b>Product Evaluation Parameters</b>	
<b>2.</b>	<b>Conformance to the specification</b>	
3.	Fully compliance with the required specifications as per Statement of Requirement. Minor deviations may be accommodated up to 4, subject to the condition that main function and performance in any aspect would not be affected. More than 4 minor deviations will be considered as major deviation and the bidder will be considered as non-responsive for the quoted item. (One mark for each minor deviation will be deducted).	25
<b>4.</b>	<b>Manufacturer Performance</b>	
5.	Valid ISO 9001 Quality Management Certificate of manufacturer from PNAC / IAF accredited body	3
6.	<ul style="list-style-type: none"> <li>• Certificate of US Food and Drug Administration (US-FDA)</li> <li>• CE certificate for the quoted product from European commission notified body and / or EU Declaration of Conformity</li> <li>• JIS/ MHLW for the quoted product</li> </ul> <p><b>Per certificate 2 marks (Maximum 6 marks)</b></p>	6
<b>7.</b>	Valid ISO 45001 Occupational Health & Safety Certificate of manufacturer from PNAC / IAF accredited body	2
<b>8.</b>	Valid ISO 14001 Environmental Certificate of manufacturer from PNAC / IAF accredited body	2
<b>9.</b>	RoHS certificate from notified body	2

10.	<b>After Sale Past Performance</b>	
11.	One mark for each satisfactory performance certificate (verifiable) of the firm / bidder on letter head or signed and stamped from the public sector for the quoted item work order, supported by Supply order/Purchase order.	6
1.	One mark for each satisfactory performance certificate (verifiable) of the firm / bidder on letter head of private sector for the quoted item work order supported by Supply order/Purchase order.	5
2.	<b>Warranty</b>	
3.	Warranty Period of three years both with spare parts and services & Next two-year services only without spare parts from the date of Installation / Commissioning.	<b>Mandatory</b>
4.	<b>Firm / bidder registration at relevant forum (SECP/Registrar of Firm / bidder, FBR).</b>	<b>Mandatory</b>
5.	<b>Firm / bidder Evaluation Parameters</b>	
6.	<b>The bidder will have to give valid proof of being manufacturer / importer / authorized dealer</b>	<b>Mandatory</b>
7.	<b>The bidder must be registered with PEC category C5 or above Code EE11 ( Applicable only for solar system )</b>	<b>Mandatory</b>
8.	<b>The bidder must be registered with PEC category C4 or above Code ME01 ( Applicable only for HVAC system )</b>	<b>Mandatory</b>
9.	<b>Firm / bidder Financial Strength / Certificate</b>	
10.	Last three years Audited Balance Sheet Duly attested by Chartered Accountant. <ul style="list-style-type: none"> <li>• Turnover 60 million or above 5 marks/points.</li> <li>• Turnover below 60 and above 30 million will be awarded 3 marks/points.</li> <li>• Turnover below 30 million and above 20 million will be awarded 1 marks/points.</li> </ul> <p>Income tax returns for last three years must be submitted with audited balance sheet</p>	5
11.	Valid ISO 9001 Quality Management Certificate of the firm / bidder from PNAC accredited body.	2

<b>12.</b>	<b>Human Resources</b>	
13.	Diploma of Associate Engineer (DAE) in electrical / electronic / mechatronics or relevant field. DAE certificate must be submitted. (One mark for each certificate)	3
14.	Graduate Engineer with PEC Registration in electrical / electronics, / mechatronics / mechanical / industrial or equivalent. PEC registration card of the engineer must be submitted. (2 marks for each).	6
<b>15.</b>	<b>Office / Workshop facility</b>	
16.	Availability of office in Peshawar, to be verified with Ownership / Rent Agreement with Owner/ Rent Agreement with Company Name. in Peshawar will be awarded marks.	<b>2</b>
17.	Availability of workshop in Peshawar, to be verified with Ownership / Rent Agreement with Owner/ Rent Agreement with Company Name.	<b>1</b>
<b>18.</b>	<b>Total Score of the Firm / bidder Evaluation Parameters</b>	
<b>19.</b>	<b>Total Score</b>	<b>70</b>

NOTE: The bidder shall provide the details regarding country of origin, Model, Make, manufacturer, along with details of Manufacturing Units and mode of supply, shipment, and any other associated details of the component items and that of the quoted equipment. Bidders are bound to supply the equipment from quoted country of origin or authorized manufacturing site.

## TECHNICAL EVALUATION CRITERIA FOR CATEGORY- C ITEMS

S. No.	Description of Variables	Allocated Points
1.	<b>Product Evaluation Parameters</b>	
2.	<b>Conformance to the specification subject to the clearance on Sample test</b>	
	Total compliance with specification given in statement of Requirement subject to the clearance on sample test by the Inspection Committee. <b>Excellent Sample</b>	30
	Total compliance with specification given in statement of Requirement subject to the clearance on sample test by the Inspection Committee. <b>Good Sample</b>	20
	Total compliance with specification given in statement of Requirement subject to the clearance on sample test by the Inspection Committee. <b>Satisfactory Sample</b>	10
	Sample rejected by inspection committee or low-quality sample provided, the firm / bidder will be considered as non-responsive for the quoted item and no marks will be awarded.	0
3.	<b>After Sale Past Performance</b>	
	One mark for each after sale satisfactory performance certificate (verifiable) of the firm / bidder on letter head, signed and stamped from the public sector medical institution / hospital for the quoted item. Performance certificate shall be coupled with supply order / purchase order from public sector medical institution.	6
	One mark for each after sale satisfactory performance certificate (verifiable) of the firm / bidder on letter head for the quoted item from the private sector organization / medical institution of Pakistan. Performance certificate shall be coupled with supply order / purchase order from teaching level private sector medical institution.	6
4.	Valid ISO 45001, Certificate of manufacture from International Accreditation Forum (IAF) Accredited Bodies.	2
5.	Valid ISO 9001 Certificate of manufacture from International Accreditation Forum (IAF) Accredited Bodies.	2

6.	Valid ISO 14001 Environmental Certificate of manufacture from IAF accredited body.	2
7.	Certificate for the quoted product from European commission notified body and / or EU Declaration of Conformity / US FDA / MHRA UK/ Swiss medic / TGA / Japan MHLW / or relevant documentation from EP / USP / JP / BNF / BP (where applicable)	15
8.	The bidder will have to give valid proof of being manufacturer / importer / authorized dealer.	<b>Mandatory</b>
9.	Traceable Certificate of Authorization from manufacturer for each quoted brand for all Chemicals and for lab items where required in specs.	<b>Mandatory</b>
10.	Online Traceability of quoted items along complete specifications sheet either available on site or through email from manufacturer. Language of Certificate & specifications sheet must be English.	<b>Mandatory</b>
11.	Online Certificate of Analysis / Certificate of conformance must be available Or Certificate of analysis must be verified form Manufacturer through Official Email. Language of Certificate of Analysis / Certificate of conformance must be English.	<b>Mandatory</b>
12.	<b>Firm / bidder Financial Strength / Certificate</b>	
	Annual Sales tax returns for last three years	<b>Mandatory</b>
	Annual Income tax returns for last three years	<b>Mandatory</b>
13.	Last four years Audited Balance Sheet Duly attested by Chartered Accountant. (0.5mark for each year).	2 marks
14.	Valid ISO 9001 Quality Management Certificate of the firm / bidder from PNAC accredited bodies.	2 marks
15.	<b>Office / Workshop facility</b>	
	Availability of office/workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner/ Rent Agreement with Company Name.	<b>3</b>
16.	<b>Total Score of the Firm / bidder Evaluation Parameters</b>	
	<b>Total Score</b>	<b>70</b>

**NOTE: The bidder shall provide the details regarding country of origin, Model, Make, manufacturer, along with details of Manufacturing Units and mode of supply, shipment, and any other associated details of the component items and that of the quoted equipment. Bidders are bound to supply the equipment from quoted country of origin or authorized manufacturing site.**

### Bidder's Declaration

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	<b>Requirements and Terms and Conditions:</b> I/We have read and fully understand the IFB, including the IFB Information and Data, Schedule of Requirements, the General Conditions of Contract, and any Special Conditions of Contract. I/we confirm that the Bidder agrees to be bound by them.
<input type="checkbox"/>	<input type="checkbox"/>	I/We confirm that the Bidder has the necessary capacity, capability, and necessary licenses to fully meet or exceed the Requirements and will be available to deliver throughout the relevant Contract period.
<input type="checkbox"/>	<input type="checkbox"/>	<b>Ethics:</b> In submitting this Bid I/we warrant that the bidder: has not entered into any improper, illegal, collusive or anti-competitive arrangements with any Competitor, has not directly or indirectly approached any representative of the Procuring Entity to lobby or solicit information in relation to the IFB has not attempted to influence, or provide any form of personal inducement, reward or benefit to any representative of the Procuring Entity.
<input type="checkbox"/>	<input type="checkbox"/>	I/We confirm to undertake not to engage in proscribed practices, or any other unethical practice, with the Procuring Entity or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the Procuring Entity and I/we have confirm to abide by the code of conduct set by KPPRA Act 2012 and KPPRA Rules 2014 the and acknowledge that it provides the minimum standards expected of suppliers to the Procuring Entity.
<input type="checkbox"/>	<input type="checkbox"/>	<b>Conflict of interest:</b> I/We warrant that the bidder has no actual, potential, or perceived Conflict of Interest in submitting this bid or entering a Contract to deliver the Requirements. Where a Conflict of Interest arises during the bidding process the bidder will report it immediately to the Procuring Entity in writing.
<input type="checkbox"/>	<input type="checkbox"/>	<b>Prohibitions, Sanctions:</b> I/We hereby declare that our firm, its affiliates or subsidiaries or employees, including any JV/Consortium members or subcontractors or suppliers for any part of the contract is not under procurement prohibition by any Public Sector organization, such as debarred, black listed.
<input type="checkbox"/>	<input type="checkbox"/>	<b>Bankruptcy:</b> I/We have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings.
<input type="checkbox"/>	<input type="checkbox"/>	<b>Offer Validity Period:</b> I/We confirm that this Quote, including the price, remains open for acceptance for the validity period specified in these BSD.
<input type="checkbox"/>	<input type="checkbox"/>	I/We understand and recognize that Procuring Entity is not bound to accept any bid received, and we certify that the goods offered in our Quotation are new and unused.

<input type="checkbox"/>	<input type="checkbox"/>	By signing this declaration, the signatory below represents, warrants and agrees that he/she has been authorized by the Organization/s to make this declaration on its/their behalf.

Name \_\_\_\_\_

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

Signed \_\_\_\_\_

Official Stamp/ Seal \_\_\_\_\_

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

Date \_\_\_\_\_



**TECHNICAL EVALUATION CRITERIA FOR MACHINERY & EQUIPMENT,  
INSTRUMENTS & OTHER HOSPITAL SUPPLIES, ETC FOR THE YEAR 2024-2025  
(Maximum Allocable Marks Score = 70 marks)**

**Technical Evaluation Criteria for the Purchase of Category-A Equipment for FY 2024-2025**

Firm Name: \_\_\_\_\_

Bid Reference No: \_\_\_\_\_

The bidders will quote the technical bid quotation on the format / form given below.

**Technical Bid Quotation Form / Vis-à-vis Format for Category A&B**

<b>Name of Equipment / Item:</b>	
<b>Model:</b>	
<b>Make:</b>	
<b>Country of Origin:</b>	
<b>Category of equipment / item:</b>	
<b>S. No in SBDs:</b>	
<b>Comparative of Required Specification and Quoted Specification</b>	
<b>Required Specification Project Director (DG DC &amp; PS)</b>	<b>Quoted Specification of the bidder</b>

**Explanation of the quotation form:**

1. All the bidders must submit the quotation for category A and B items on the above form.
2. All the bidders must make a comprehensive sheet with all the required specifications.  
(Compare all the quoted specification to the required specification).
3. Attached the supported documents i.e Broacher / Catalogue clearly highlighted the specifications mention in the technical quotation.
4. The successful bidders shall provide complete technical manual and operation manual (soft and hard) to the end user.

**BID FORM -1**

**BID COVER**

**SHEET**

**Mandatory General Information of Applicant Firm**

**NOTE:** Complete filling of this form along with the provision of all requisite information is mandatory. Missing or not providing any of the requisite information may lead to disqualification of the bidder/s from the bidding competition without any correspondence. Any appeal from bidder/s, for whatsoever reasons, will not be entertained in such a case.

<b>S.No</b>	<b>Name of the Bidding Firm:</b>	
1.	Please indicate whether the firm is: a. Manufacturer, or b. Importer, or c. Both Manufacturer and importer. d. Authorized Agent/Dealer/Distributor For various items Offered for this bidding competition.	
2.	Please indicate the category/ies under which the Firm is applying for bidding a. Machinery & Equipment b. Instrument/ other laboratory supply. c. others	
3.	Please provide names, attested copies of CNICs , two recent attested photographs , valid street addresses in Pakistan, all landline and mobile phone numbers of: <ul style="list-style-type: none"><li>• Owner/Proprietor of the Firm.</li><li>• Managing Director / CEO of the Firm;</li><li>• Focal person officially made responsible and authorized by the Firm for day-to-day official Correspondence with</li></ul>	

	<p>Project Director DG, DC &amp; PS.</p> <p>(Please provide clear, legible and visible attested photocopies of all the requisite items mentioned items)</p>	
4.	<p>Please provide the following valid information:</p> <p>Regarding applicant Firm: Complete street address of the:</p> <ol style="list-style-type: none"> <li>a. Head Office</li> <li>b. Main warehouse; and</li> <li>c. Valid &amp; working official Landline Phone and</li> <li>d. Fax Numbers; and</li> <li>e. Mobile phone numbers of the Focal Person registered against his /her CNIC No. And name; and</li> <li>f. Valid and functional Email address;</li> <li>g. Official Website address/es</li> </ol>	
5.	<p>Please provide in original the bid security instrument along with the Financial Proposal in the sealed envelope in the form of valid Call Deposit Receipt / Bank Draft / Bank Guarantee of the requisite amount from a scheduled Bank of Pakistan in the name of Project Director Directorate General Drug control &amp; Pharmacy Services, Peshawar. Non- provision of bid Security shall render the bid as non -responsive.</p> <p>However, please provide an affidavit on judicial stamp paper of appropriate face value in the sealed Envelope of the technical proposal to the effect that the bid security of the required amount (without mentioning the amount of bid security) has been inside the</p>	

	sealed envelope of the financial bid to the Project Director Directorate General Drug control & Pharmacy Services, Peshawar.	
6	<p>Please provide attested copies of the following Tax related mandatory documents:</p> <ol style="list-style-type: none"> <li>1. National Tax Number (NTN) of the Firm (FTN) for Income Tax.</li> <li>2. Last year Income Tax Return of the Firm;</li> <li>3. Sales Tax Registration Certificate of the Firm;</li> <li>4. Certificate of Professional Tax</li> </ol>	
7	<p>In case of being manufacturer, the Firm should provide attested copies of the following mandatory documents also:</p> <ol style="list-style-type: none"> <li>a. Duly attested copy of valid Certificate from Chamber of Commerce of the respective country</li> </ol>	
8	<p>In case of being importers, the Firm should provide attested copies of the following mandatory document/s also:</p> <p>Valid Authorization Certificate for the quoted items, duly notarized from the country of origin or where the commercial office located for the quoted items.</p> <p>(NOTE: In case if the document is verifiable online then the notarization is not mandatory)</p>	



## RETURNABLE CHECKLIST

Sno	Checklist	Yes/No	Page#
(a) General enclosures (firmrelated)			
1.	Certificate of Company/ Firm registration / Incorporation under the laws of Pakistan.		
2.	Valid Sales Tax Registration certificate of KP-Revenue Authority.		
	Valid Income Tax certificate.		
	Audited Balance Sheet for minimum <sup>2</sup> last 2 years and maximum 3 years.		
	Bank Statement for the Last minimum 2 years and maximum 3 years.		
3.	Acceptance of terms and conditions of tender documents duly signed and stamped.		
4.	Certificate of “Calibration” issued by Government of Pakistan mandated “ <i>Certification and Accreditation body</i> ” for “High Quality” & “Accuracy” of results of the equipment proposed.		
4.	Certificate as bidder is Manufacturer, Authorized Agent, or representative of the original manufacturer.		
7.	Company profile including:		
	Engineering		
	Managerial		
	Technical capabilities		
	Technical Staff List		
	Workshop, Service Center, Machinery, Factory, Ware House addresses.		

<sup>2</sup>**Minimum:** The word “Minimum” has been used to indicate the most recent documents to be furnished by the bidder. “Recent Years” can be calculated by counting backwards from the day of the publication of the advertisement.

Sno	Checklist	Yes/No	Page#
8	An affidavit on stamp paper of Rs. 50/- submitting following clauses: that		
	i) Only genuine manufacturer's warranty for replacement and not repair of equipment parts shall be done under the warranty.		
	ii) That the firm/bidder is never blacklisted on any grounds whatsoever.		
	iii) That the country of origin of equipment is mentioned clearly and correct along with Brand / Manufacturer's Name.		
	iv) Standard Accessories as a part and parcel of the equipment are clearly mentioned and provided.		
	v) That the Bidder will provide after sales services beyond the period of warranty.		
<b>(b) Technical enclosures for each equipment/ ITEM PROPOSE</b> (separate set of documents for each equipment as required part of bidding documents)			
10.	Specification offered for each equipment against floated specifications:		
	Model		
	Brand		
	Make		
	Country of Origin		
	Country Manufactured in. ( <i>if different from the origin</i> )		
11.	Agency agreement / Authorization from manufacturer for sale and after sale services duly certified by concerned sanctioning authority.		
12.	Certificates regarding quality of production for conformity with internationally and locally accepted standards.		
13.	Certificates regarding Calibration of equipment assuring the accuracy of results of all the equipment. (Compulsory)		
14.	Clients and Customers list who have been provided same equipment. Or the most relevant equipment in last 3 years.		

15.	Literature / Broachers of product with technical data sheet.		
Sno	Checklist	Yes/No	Page#
16.	List of standard accessories of the equipment and software catalogues.		
17.	At least 3 Repair / After Sale Service Satisfactory Certificate from Semi Government / Government Departments.		
18.	Minimum Two to Three Contracts received in last One Year.		
19.	Minimum Two-Year same business history from the date of authorization.		
20	Bidder must indicate the country of manufacturer of product.		
(C) FINANCIAL OFFER			
1.	Offered rate of items inclusive standard accessories (inclusive of sale tax, if applicable)		
2.	Separate prices for each item and part of the equipment shall be specified.		
3.	For all equipment requiring regular service & maintenance Service level agreement for One (01) year shall be submitted as a separate financial proposal in different envelope.  <i>(Service Level Agreement for each Equipment item must be submitted as a separate financial proposal).</i>		

**THE GOVERNING RULES.**

The Bidding procedure shall be governed by the Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services Rules, 2014



## TECHNICAL BID FORM 1

**Bidder's Ref No.**

### **Letter of Intention**

**Name of the Contract:** {\_\_\_\_\_}

**To:** [\_\_\_\_\_]

Dear Sir,

Having examined the bidding documents, including Addenda Nos. [insert numbers & Date of individual Addendum], the receipt of which is hereby acknowledged, we, the undersigned, offer to supply and deliver the Goods and ancillary services under the above-named Contract in full conformity with the said bidding documents and at the rates/unit prices described in the price schedule provided in Financial Bid or such other sums as may be determined in accordance with the terms and conditions of the Contract.

We undertake, if our Financial Bid is accepted, to deliver the Goods in accordance with the delivery schedule specified in the schedule of requirements.

If our Financial Bid is accepted, we undertake to provide a performance security/guaranty in the form, in the amounts, and within the times specified in the bidding documents.

We agree to abide by this bid, for the Bid Validity Period specified in the Bid Data Sheet and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.

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

We understand that you are not bound to accept the lowest or any Financial Bid you may receive. We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in Pakistan.

We confirm that we comply with the eligibility requirements as per ITB clause 21.1 of the bidding documents and has duly provided earnest money @ 2% of the total bid value as per Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services Rules-2014, in the shape of pay order / demand draft

/ call deposit bearing No. \_\_\_\_\_ dated \_\_\_\_\_ in the name of Project Director  
Directorate

General Drug Control & Pharmacy Services with our Financial Bid.

*Signed: In the capacity of Duly authorized to sign this bid for and on behalf of Bidder Name: Signature*



**PERFORMANCE SECURITY FORM**

To:

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]

## Manufacturer's Authorization Form

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

To:

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.***

**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 (Government of Khyber Pakhtunkhwa) or any administrative subdivision or Entity thereof or any other entity owned or controlled by Government of Khyber Pakhtunkhwa 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 Government of Khyber Pakhtunkhwa, 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 Government of Khyber Pakhtunkhwa 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 Government of Khyber Pakhtunkhwa under any law, contract, or other instrument, be voidable at the option of Government of Khyber Pakhtunkhwa.

Notwithstanding any rights and remedies exercised by Government of Khyber Pakhtunkhwa in this regard, [name of Supplier] agrees to indemnify Government of Khyber Pakhtunkhwa for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to Government of Khyber Pakhtunkhwa 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 Government of Khyber Pakhtunkhwa.

Name of Buyer: .....

Name of Seller/Supplier: .....

Signature: .....[Seal]

Signature: ..... [Seal]

## RATE CONTRACT AGREEMENT

### FOR PROCUREMENT OF EQUIPMENT / INSTRUMENTS/GLASSWARES /INFORMATION, COMMUNICATION & TECHNOLOGY (ICT) EQUIPMENT AND OTHERS FOR ESTABLISHMENT OF FOOD & DRUGS TESTING LABORATORY/IES PESHAWAR (for FY 2024-25)

This RATE CONTRACT AGREEMENT is made and agreed today on \_\_\_\_\_ day of \_\_\_\_\_, 202\_, between the Government of Khyber Pakhtunkhwa through **Director General Drug Control & Pharmacy Services (Project Director of the Project Titled, ESTABLISHMENT OF PROVINCIAL FOOD AND DRUGS TESTING LABORATORIES PESHAWAR, FY-2024-25)** (hereinafter referred to as the Procuring Agency or the first party, which expression shall, where the context admits, be deemed to include the assignee/s of the provincial Government of Khyber Pakhtunkhwa);

And

Messrs. \_\_\_\_\_ through

Mr. \_\_\_\_\_, Designation. \_\_\_\_\_, CNIC No. \_\_\_\_\_, (hereinafter referred to as the Supplier or the second party or he/his, which expression, unless repugnant to the context, means and includes their legal heir/s, successors-in-interest, assignee/s and legal representative/s) that:

WHEREAS the Procuring Agency has made a bidding competition for selection and rate contracting for Procurement of equipment / instruments / glassware / information, communication & technology (ICT) equipment and others for establishment of Food & Drugs testing laboratory/ies Peshawar and the following items offered by the Second Party are approved being the best evaluated bids,

S.NO	Name Of Approved Item	Model, Make & Country of Origin	Approved Unit Price (Inclusive of all Applicable Taxes)
1			
2			
3			
4			

The purchase of the selected and rate contracted goods is to be made by the Project Director i.e., The Director General Drug Control and Pharmacy Services either for Provincial Food or Drug Testing Laboratory/ies, Government of Khyber Pakhtunkhwa.

WHEREAS the Supplier declares that he is not a broker, middleman, but himself a Manufacturer and / or direct Importer and/or Authorized Agent of goods for which he has won the bidding competition for supply to the Procuring Agency; and

WHEREAS both the parties have agreed that the procuring entity shall purchase all or some or none of the goods, as of details given in this Contract Agreement, from the Supplier at the sole discretion of the procuring entity; and

WHEREAS the Supplier shall supply all the goods ordered by the procuring entity to the later in the quantity as mentioned in the supply order to be issued within the timeframe as mentioned in bidding Documents i.e., within Ninety (90) days (as mentioned in the advertised BSDs) from the date of issuance of supply order.

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 Entity's Notification of Award

Now, therefore, both the parties mutually agree to enter into this contract agreement as under:

1. The Supplier agrees to take full responsibility of the validity and implications, that may arise in future, of declaration submitted by him in the form of affidavit on judicial stamp paper along with their bids; and that in case of any kind of breach of the said declaration, the Supplier shall be liable to be proceeded against by the Procuring Agency in accordance with the clauses of this rate contract agreement as well as relevant laws, rules and regulations of the Government of Khyber Pakhtunkhwa, as amended from time to time, to govern such situation/s.
2. The supplies shall be made at the location specified in the supply order.
3. The Supplier shall be solely responsible for transportation, loading and / or unloading and staking of the supplied items till and at the time of delivery, to the destination indicated in Clause-2 above, including any damage or untoward incident, maintenance of required temperature and protection from light and other environmental conditions as well as other hazards that may possibly or potentially affect the supplied item in any way.
4. The Supplier shall NOT claim or charge transportation, loading / unloading, labor, or any other Charges related to or in the name of logistics, accidents, insurance, freight, etc.
5. The Supplier will make necessary arrangements for installation and training to the end user before release of final payment. The IQ, OQ and PQ shall be performed as per the laid down criteria in the BSDs.
6. The Supplier will provide Service Manual, Circuit diagram and error logbook and operational Manual for the supplied goods. The successful bidder shall provide complete technical manual and operation manual to the procuring entity.
7. In case of non-supply or delayed supply of items the Supplier shall be proceeded against under the relevant law of the land i.e., Procurement regime and associated laws of the country.
8. The Procuring Agency shall take legal / lawful action against the Supplier regarding non-supply, short supply, substituted supply, delayed supply or any other unlawful action / shortcoming, on the part of Supplier during the execution of this contract agreement. The Procuring Agency shall take lawful / legal action against the Supplier in accordance with the clauses of this contract agreement as Well as relevant laws, rules, and regulations of the Government of Khyber Pakhtunkhwa, as amended from time to time, to govern such situation/s, which may include, but not limited to, blacklisting, forfeiture of earnest money and performance guarantee, etc.
9. The Supplier agrees to the following conditions related to packing, packaging, and labeling of the goods to be supplied to Purchasing Agencies under this contract agreement:

10. The Procuring Agency shall have the right to inspect the storage facility, premises, warehouse, import documents etc. at any time till the execution of supply orders given under this contract agreement.

**11. RATE VALIDITY:**

The Supplier agrees that the approved price of all individual items quoted in the financial bids shall remain valid till and up to **30<sup>th</sup> June 2025**.

**12. PERFORMANCE GUARANTEE:**

Upon receipt of supply order from the Procuring Entity, the Supplier shall submit Performance Guarantee to the former, amounting to ten per cent (10%) of the total value of each individual supply order, which shall be returned to the Supplier upon request after the successful finalization of the process of procurement by the Procuring entity till the mandatory and/or offered warranty period whichever is later.

**13. WARRANTY:**

The supplier shall provide the warranty as prescribed in Bidding Documents under Special Conditions of Contract Clause 10 and GCC Clause 15.4, to the Procuring Entity for each individual item supplied in response to supply orders. After sale services shall also be provided by the bidder after the warranty period.

**14. PAYMENT SCHEDULE:**

Bill for payment in triplicate along with all other relevant and required documents shall be submitted by the Supplier, to the Procuring Agency immediately after completion of supply. The Supplier shall be bound to pay all applicable government taxes, duties, and stamp duties, imposed earlier or during the financial year by the Government of Pakistan or by the Provincial Government of Khyber Pakhtunkhwa on any supplied item.

**15. FORCE MAJEURE:**

- a. In case of the situation related to Force Majeure, the Supplier may inform the Procuring Agency in writing about the situation immediately without delay along with solid proof through the fastest, lawful, and available means of communication, but not through the electronic mail, and request the Procuring Agency for the grant of extension in the supply Period.
- b. The Procuring Agency, in case of being fully satisfied with the genuineness of situation arising from Force Majeure for the Supplier, may extend the period of supply of goods up to a maximum of not more than thirty days without penalty. However, the Procuring Agency and / or Purchasing Agency shall, in no case, be responsible or held responsible for any complications in making payments to Supplier by the Purchasing Agency that may arise from the closure of financial year and lapse / surrender of public funds vis-à-vis the normal financial management procedures in public sector.

**16. PENALTIES:**

- a. The Supplier shall complete the supply of the ordered goods under this agreement within the stipulated period as laid down in the SBDs. In case of delay in supplies reaching to the procuring entity, except in situation/s covered under clause 17 above, the procuring entity may impose a penalty on the supplier which may lead to but is not limited to the forfeiture of performance guarantee.

**17. INDEMNITY:**





**WITNESS NO. 1**

Signature:

Name:

Father's Name:

Address:

CNIC No.

**WITNESS NO. 2**

Signature:

Name:

Father's Name:

Address:

CNIC No.