



**Government of Khyber Pakhtunkhwa Health Department
Directorate General Drugs Control &
Pharmacy Services
Khyber Pakhtunkhwa Peshawar**

**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**

REVISED BSD AFTER PRE-BID MEETING

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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

1. Source of Funds	1.1	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.
	1.2	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.
	1.3	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.
2. Eligible Bidders	2.1	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
	2.2	Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring 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.
	2.3	Government-owned enterprises in the Province of Khyber Pakhtunkhwa may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent Entity of the Government of Khyber Pakhtunkhwa.
	2.4	Bidders shall not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by any government organization in accordance with the Rule 44(1) KPP Rules 2014.

3. Eligible Goods and Services	3.1	All goods and related services to be supplied under the contract shall have their origin in eligible source countries of the world with whom the Islamic Republic of Pakistan has commercial relations and its Bidding Documents and all expenditures made under the contract will be limited to such goods and services.
	3.2	For purposes of this clause, “origin” means the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.
	3.3	The origin of goods and services is distinct from the nationality of the Bidder.
4. Cost of Bidding	4.1	The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring 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. The Bidding Documents
5. Content of Bidding Documents	5.1	The bidding documents include: <ul style="list-style-type: none"> a) Instructions to Bidders (ITB) b) Bid Data Sheet (BDS) c) General Conditions of Contract (GCC) d) Special Conditions of Contract (SCC) e) Schedule of Requirements (SOR) f) Technical Specifications g) Bid Form and Price Schedules h) Bid Security Form i) Contract Form j) Performance Security Form k) Manufacturer’s Authorization Form
	5.2	The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder’s risk and may result in the rejection of its bid.

6. Clarification of Bidding Documents	6.1	An interested Bidder requiring any clarification of the bidding documents may notify the Procuring 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.
7. Amendment of Bidding Documents	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.
		C. Preparation of Bids
8. Language of Bid	8.1	The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Procuring 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.
9. Documents Comprising the Bid	9.1	The bid prepared by the Bidder shall comprise the following components: a) A Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11, and 12. b) Documentary evidence established in accordance with ITB Clause 13 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted; c) Documentary evidence established in accordance with ITB Clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services and conform to the bidding documents; and d) bid security furnished in accordance with ITB Clause 15.
10. Bid Form	10.1	The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.

11. Bid Prices	11.1	The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total bid price of the goods it proposes to supply under the contract.
	11.2	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.
12. Bid Currencies	12.1	Prices shall be quoted in Pak Rupees unless otherwise specified in the Bid Data Sheet.
13. Documents Establishing Bidder's Eligibility and Qualification	13.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.
	13.2	The documentary evidence of the Bidder's eligibility to bid shall establish to the Procuring 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	<p>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:</p> <p>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;</p> <p>b) that the Bidder has the financial, technical, and production</p>

		<p>capability necessary to perform the contract;</p> <p>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 spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and</p> <p>that the Bidder meets the qualification criteria listed in the Bid Data Sheet.</p>
14. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents	14.1	<p>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.</p>
	14.2	<p>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.</p>
	14.3	<p>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:</p> <p>a) a detailed description of the essential technical and performance characteristics of the goods;</p> <p>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</p> <p>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.</p>

	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
15. Bid Security	15.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount specified in the Bid Data Sheet. [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	The bid security shall be in Pak. Rupees and shall be in one of the following forms: 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 & Pharmacy Services". A pay order will not be acceptable.
	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> <ul style="list-style-type: none"> a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or b) in the case of a successful Bidder, if the Bidder fails: <ul style="list-style-type: none"> i. to sign the contract in accordance with ITB Clause 32; or ii. to furnish performance security in accordance with ITB Clause 33.
16. Period of Validity of Bids	16.1	Bids shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Procuring 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.
17. Format and Signing of Bid	17.1	The Bidder shall prepare an original and the number of copies of the bid indicated in the Bid Data Sheet, clearly marking each "ORIGINAL BID" and "COPY OF BID" as appropriate. In the event of any discrepancy between them, the original shall govern.
	17.2	The original and the copy or copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. All pages of the bid shall be initialed by the person or persons signing the bid.
	17.3	Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the bid.
	17.4	The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

		D. Submission of Bids
18. Sealing and Marking of Bids	18.1	The Bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as “ORIGINAL” and “COPY.” The envelopes shall then be sealed in an outer envelope.
	18.2	The inner and outer envelopes shall: <ul style="list-style-type: none"> a. be addressed to the Procuring Entity at the address given in the Bid Data Sheet; and b. bear the Project name indicated in the Bid Data Sheet, the Invitation for Bids (IFB) title and number indicated in the Bid Data Sheet, and a statement: “DO NOT OPEN BEFORE,” to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.2.
	18.3	The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared “late”.
	18.4	If the outer envelope is not sealed and marked as required by ITB Clause 18.2, the Procuring Entity will assume no responsibility for the bid’s misplacement or premature opening.
19. Deadline for Submission of Bids	19.1	Bids must be received by the Procuring 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.
20. Late Bids	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.
21. Modification and Withdrawal of Bids	21.1	The Bidder may modify or withdraw its bid after the bid’s submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Procuring 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.
		E. Opening and Evaluation of Bids
22. Opening of Bids by the Procuring Entity	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.
23. Clarification of Bids	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.
24. Preliminary Examination	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.
	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. Evaluation and Comparison of Bids	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	<p>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:</p> <ul style="list-style-type: none"> a. incidental costs b. delivery schedule offered in the bid; c. deviations in payment schedule from that specified in the Special Conditions of Contract; d. the cost of components, mandatory spare parts, and service; e. the availability of spare parts and after-sales services for the equipment offered in the bid for Procuring Entity; f. the projected operating and maintenance costs during the life of the equipment; the performance and productivity of the equipment offered; and/or g. other specific criteria indicated in the Bid Data Sheet and/or in the Technical Specifications.

25.4	<p>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"> a. Incidental costs provided by the bidder will be added by Procuring Entity to the delivered duty paid (DDP) price at the destination. b. Delivery schedule. <ul style="list-style-type: none"> i. The Procuring Entity requires that the goods under the
	<p>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.</p> <p>or</p> <ul style="list-style-type: none"> 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. <p>or</p> <ul style="list-style-type: none"> iii. The goods covered under this invitation are required to be delivered in partial shipments, as specified in the Schedule of Requirements. Bids offering deliveries earlier or later than the specified deliveries will be adjusted in the evaluation by adding to the bid price a factor equal to a percentage, specified in the Bid Data Sheet, of DDP price per week of variation from the specified delivery schedule. <ul style="list-style-type: none"> c. Deviation in payment schedule: <ul style="list-style-type: none"> 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.

		<p>or</p> <p>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.</p> <p>d. Cost of spare parts.</p> <p>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.</p> <p>or</p> <p>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.</p> <p>or</p> <p>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> <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</p>
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		<p>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>												
Alternative	25.4	<p>25.4 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><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><tr><td>Technical features, and maintenance and operating costs</td><td>0 to 20</td></tr><tr><td>Availability of service and spare parts</td><td>0 to 20</td></tr><tr><td>Standardization</td><td>0 to 20</td></tr><tr><td>Total</td><td>100</td></tr></table> <p>The bid scoring the highest number of points will be deemed to be the Highest-Ranking fair bid.</p>	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
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													

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.

34. Corrupt or Fraudulent Practices	34.1	<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"> a. defines, for the purposes of this provision, the terms set forth below as follows: <ul style="list-style-type: none"> i. "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and ii. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring 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; b. will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question; c. will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Government-financed contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government-financed contract.
	34.2	<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>

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

Part One - Section II (General Conditions of Contract)

Notes on the General Conditions of Contract

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

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

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GENERAL CONDITIONS OF CONTRACT

1. Definitions	1.1	<p>In this Contract, the following terms shall be interpreted as indicated:</p> <ul style="list-style-type: none"> 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. b. “The Contract Price” means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations. c. “The Goods” means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring Entity under the Contract. d. “The Services” means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract. e. “GCC” means the General Conditions of Contract contained in this section. f. “SCC” means the Special Conditions of Contract. g. “The Procuring Entity” means the organization purchasing the Goods, as named in SCC. h. “The Procuring Entity's country” is the country named in SCC. i. “The Supplier” means the individual or firm supplying the Goods and Services under this Contract. j. “The Project Site,” where applicable, means the place or places named in SCC. k. “Day” means calendar day.
2. Application	2.1	<p>These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.</p>
3. Country of Origin	3.1	<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.
4. Standards	4.1	The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods’ country of origin. Such standards shall be the latest issued by the concerned institution.
5. Use of Contract Documents and Information; Inspection and Audit by the Government	5.1	The Supplier shall not, without the Procuring 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.
6. Patent Rights	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.

7. Performance Security	7.1	Within twenty (20) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring 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"> 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 b. a cashier's or certified check.
	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.
8. Inspections and Tests	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.
9. Packing	9.1	The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
	9.2	The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Procuring Entity.
10. Delivery and Documents	10.1	Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are specified in SCC.
	10.2	Documents to be submitted by the Supplier are specified in SCC.
11. Insurance	11.1	The Goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers' responsibility.
12. Transportation	12.1	The Supplier is required under the 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.

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

15. Warranty	15.1	The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring 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.
16. Payment	16.1	The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.
	16.2	The Supplier's request(s) for payment shall be made to the Procuring 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.

17. Prices	17.1	Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Procuring Entity's request for bid validity extension, as the case may be.
18. Change Orders	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"> a. drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Entity;
		<ul style="list-style-type: none"> b. the method of shipment or packing; c. the place of delivery; and/or d. the Services to be provided by the Supplier.
	18.2	If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring Entity's change order.
19. Contract Amendments	19.1	Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.
20. Assignment	20.1	The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring Entity's prior written consent.
21. Subcontracts	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.
22. Delays in the Supplier's Performance	22.1	Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring 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.
23. Liquidated Damages	23.1	Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring 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.

24. Termination for Default	24.1	<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"> 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 b. if the Supplier fails to perform any other obligation(s) under the Contract. 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. <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>
	24.2	<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>
25. Force Majeure	25.1	<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.
26. Termination for Insolvency	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.
27. Termination for Convenience	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	<p>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:</p> <ol style="list-style-type: none"> to have any portion completed and delivered at the Contract terms and prices; and/or to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the supplier

28. Resolution of Disputes	28.1	The Procuring 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.
29. Governing Language	29.1	The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.
30. Applicable Law	30.1	The Contract shall be interpreted in accordance with the laws of the Procuring Entity's country, unless otherwise specified in SCC.
31. Notices	31.1	Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.
	31.2	A notice shall be effective when delivered or on the notice's effective date, whichever is later.
32. Taxes and Duties	32.1	Supplier shall be entirely responsible for all taxes, duties, license fees, etc., 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

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 DRUGS 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 2021-22 for the project titled “Establishment of Provincial Drugs & Food 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 **3rd November 2021**, *corrigendum issued in bid advertisement no INF(P5300/21) respect of extension of bid opening is hereby extended the bid submission date to 16th November 2021, upto 11:00 am and opening 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, www.kpfsa.gov.pk and 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 25th October 2021, as category wise pre-bid meetings with the interested bidders will be held on,

- I. 26th October 2021 for relevant bidders of equipment related to Drug Testing Laboratory.
- II. 27th October 2021 for relevant bidders of equipment related to Food Testing Laboratory.

Interested Bidders must submit sealed bids to the office of the Project Director / DG, DC & PS on or before **11:00 AM sharp, Thursday 4th, November 2021** *corrigendum issued in bid advertisement no INF(P5300/21) respect of extension of bid opening is hereby extended the bid submission date to 16th November 2021, upto 11:00 am and opening at 11:30 am on the same day* which 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 Drugs 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 numbers on each page. 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 BSD 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 (*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 rate of their items, as negotiations on quoted rates are not allowed under the rules.

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, Old FATA Secretariat Warsak Road, Peshawar
Tel No: 091-9222824.
Email: dgdrugcontrol@gmail.com

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
ITB 1.1	Name of Procuring Entity of Government of Khyber Pakhtunkhwa:	Project Director / Directorate General Drug Control & Pharmacy Services Khyber Pakhtunkhwa Peshawar.
ITB 1.1	Loan or creditor Project allocation Number: Loan or creditor Project Allocation amount:	<u>ADP No. 1159/210282</u> “Establishment of Provincial Food & Drug Testing Laboratory Khyber Pakhtunkhwa”
ITB 1.1	Name of Project:	Establishment of Provincial Food & Drug Testing Laboratories.
ITB 4.1	Name of Contract:	Procurement Of Equipment / Instruments / Glassware / Information, Communication & Technology (ICT) Equipment and Others for Establishment of Provincial Food & Drugs Testing Laboratories Peshawar.
ITB 6.1	Procuring Entity's Address, telephone, Telex, and facsimile, numbers:	Project Director / Director General Drug Control & Pharmacy Services Khyber Pakhtunkhwa Peshawar Tel No: 091- 9222824 Email: dgdrugcontrol@gmail.com
ITB 8.1	Language of the bid.	Language of the bid is English .
Bid Price and Currency		
ITB 11.2	Currency	The price quoted shall be in Pakistani Rupees (Rs)
ITB 11.5	Quoted Price	The quoted Price will be fixed
Preparation and Submission of Bids		
ITB 13.2	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"> a. is incorporated in the country of manufacturing of the Goods b. has been licensed by the regulatory authority in the country of manufacture to supply the Goods.
		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 & Stamped copies of its audited financial statements for the past three fiscal years.</p> <p>Valid, Signed & Stamped NTN and STRN certificates.</p> <p>Affidavit on legal stamp paper</p>

ITB 13.3 (d)	Qualification requirements:	<ul style="list-style-type: none"> a. Manufacturer / Importer / Sole Agent of Manufacturer for (Category-A and B) b. Manufacturer / Importer / Authorized Agent for (Category-C and D). c. Bidder's Certificate of Incorporation in Procuring Entity's country. d. Manufacturer's Authorization(s) (Such authorization letter shall be furnished in accordance to the sample format of bid solicitation document). e. The bidder(s) must provide copy of Bidder's Certificate of Incorporation/ registration signed and stamped. f. The bidder(s) shall provide National Tax No. and Sales Tax No. The bidder should be on Active Taxpayers List (ATL) on FBR. 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. 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. i. Two years supported warranty after sales & services, free of cost (with spare parts). j. Bid Validity period of 180-days. k. Submission of required amount of earnest money. A confirmation to this extent shall be provided in Technical Bid (without showing the amount). <p>Bidder(s) shall furnish, as part of its bid (along with Bid Forms & Price Schedule) the following documentary evidence to proof Bidder's qualifications to perform the Contract and all evidence submitted must be signed & stamped by the bidder.</p>
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ITB 13.3 (e)	Spare parts required for period of years of Operation:	<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>The cost of spare parts must not be added to the price of equipment.</p> <p>This requirement does not obligate Procuring Entity to Purchase the spare parts</p>
ITB 15.1	Amount of bid security:	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.
ITB 16.1	Bid validity period:	180 Days from the date of Technical Bid Opening.
ITB 17.1	Number of copies:	One Copy Hard format + USB as mentioned in the IFB
ITB 18.2 (a)	Address for bid submission:	Project Director / Director General Drug Control & Pharmacy Services Khyber Pakhtunkhwa Peshawar
ITB 18.2 (b)	IFB Title:	IFB Title: Procurement of Equipment / Instruments / Glassware / Information, Communication & Technology (ICT) Equipment and Others for Establishment Of Provincial Food And Drugs Testing Laboratories Peshawar.
ITB 19.1	Deadline for bid submission:	<p>Date: 4th November 2021.</p> <p>Time: 11:00 AM</p> <p><i>corrigendum issued in bid advertisement no INF(P5300/21) respect of extension of bid opening is hereby extended the bid submission date to 16th November 2021, upto 11:00 am and opening at 11:30 am on the same day</i></p>
	Pre-Bid meeting with the bidders:	<p>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 25th October 2021, as category wise pre-bid meetings with the interested bidders will be held on,</p> <p>i. 26th October 2021 for relevant bidders of equipment related to Drug Testing Laboratory.</p> <p>ii. 27th October 2021 for relevant bidders of equipment related to Food Testing Laboratory.</p>

ITB 22.1	Time, Date, and Place for Bid Opening:	<p>Name: Directorate General Drug Control & Pharmacy Services / Project Director</p> <p>Building: Block-B, Ground Floor, Ex-Fata Secretariat, Warsak Road Peshawar.</p> <p>Bid Opening Date: 4th November 2021</p> <p>Bid Opening Time: 11:30 PM</p> <p><i>corrigendum issued in bid advertisement no INF(P5300/21) respect of extension of bid opening is hereby extended the bid submission date to 16th November 2021, upto 11:00 am and opening at 11:30 am on the same day</i></p>
Bid Evaluation		
ITB 23.1	Clarification of Bids:	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.
ITB 25.3	Evaluation and Comparison of Bids:	<p>Merit Point Evaluation</p> <p>The items ranked highest in merit points (obtained through and based on technical and financial evaluation) will get unit rate central Contract.</p> <ul style="list-style-type: none"> a. Technical Specifications b. Performance Specifications c. Evaluation Criteria d. Financial Proposal
ITB 25.4(a) ITB 25.4(b)	One option only Delivery schedule. Relevant parameters in accordance with Optionselected.	Not Applicable
Option I Option II Option III	Adjustment expressed as a Percentage, or adjustment expressed in an amount in the currency of bid evaluation.	Not Applicable
ITB 25.4 (c) (ii)	Deviation in payment schedule: Annual interestrate:	Not Applicable

ITB 25.4 (d)	Cost of spare parts:	Not Applicable
ITB 25.4 (e)	Spare parts and after sales service facilities in the Procuring agency's Country.	As per Section IV Technical evaluation criteria
ITB 25.4 (f)	Operating and maintenance costs:	Not Applicable
ITB 25.4 (g)	Performance and Productivity of Equipment:	Not Applicable
ITB 25.4 (h)	Details on the evaluation method or reference to the Technical Specifications:	Evaluation of Bids will be based on following factors: <ol style="list-style-type: none"> Technical Specifications Performance Specifications Sample Evaluation Delivery Period Warranty Provisions After Sale Service (Availability of after sale service Facilities in Khyber Pakhtunkhwa)
ITB 28.1	Award Criteria	As per Section 2 (1)(c)(i) of KPPRA Act 2012 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.
ITB 29.1	Percentage for quantity increase or decrease	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.
ITB 33.1	Performance Security	10% of the total price of award of contract or 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 to provide samples of the Equipment/ items in sufficient / required quantity to the Project Director / DG, DC & PS or 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 offered 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 of the quoted Equipment/ item must be furnished free of charge and in a timely manner.
- b) If Bidder fails to provide sample of Equipment/ item offered for presentation or fails to demonstrate the technical specification or performance of the Equipment/ items to the satisfaction of the Technical Evaluation Committee or the Procuring Entity the Bidder's Proposal for such Equipment/ 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.
- c) 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 will 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 only

4. Performance Security (GCC Clause 7)

GCC 7.1—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 shall inspect the premises 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*

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—Upon 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 & D). 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 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, Ex-Fata Secretariat, Warsak Road.

Email: dgdrugcontrol@gmail.com

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 a notarized attestation / 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 attested from the notary of Pakistan in the country of manufacturing or embassy of the manufacturing country in Pakistan. 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 any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation (or changes the substance of the bid), provided such waiver does not prejudice or affect the relative ranking of any Bidder. Any item other than quoted and approved shall not be supplied to procuring entity without intimation to procurement cell and Supply shall be subject to clearance from Executive Committee on recommendation of technical experts of Procurement notified by Chairman Technical Committee.

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.

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 & D 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 attested by the embassy of the country of origin in Pakistan or the embassy of Pakistan in the country of origin of the quoted items or where the commercial office located for the quoted items. Non-provision of valid embassy attested authorization for imports will lead to disqualification of firm in Category A, B and C.
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
Japan	Pharmaceuticals and Medical Devices Agency (PMDA)	Device License
Japan	Japan Industrial Standards (JIS)	
USA	Food and Drug Administration (FDA)	CFR 21-part 11
USA	U.S. Department of Agriculture (USDA)	
USA	Food Safety and Inspection Service (FSIS)	
ISO	International Organization for Standardization	ISO 9001, ISO 7218, ISO 4887-2
USA	Association of Official Agricultural Chemists (AOAC)	

4. Non-Provision of mandatory documents mentioned in these BSDs shall lead to disqualification of the firm / quoted items.
5. 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.
6. 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.

7. 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.
8. The bidder shall provide the shipment trail of the quoted item from the manufacturing site till destination.
9. 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.
10. Different models/ prices offered for a single item by the same bidder shall be considered as alternate bid and shall be non-responsive.
11. 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.
12. The schedule for supply of goods shall be as under:
13. Within **90** days from the date of issuance of supply order by the Procuring Entity for items to be imported for **Category-A & B**.
14. Within **60** days from the date of issuance of supply order by the Procuring Entity for items to be locally manufactured or **Category-C & D**.
15. Successful bidders will be responsible for installation, testing & commissioning of the equipment. Successful bidders will ensure to train staff regarding method development, functioning, 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 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. Technically Qualified Bid will be the bid which is 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 as an essential element of the bid document supported by evidence. In case of Non-compliance “Zero” score will be awarded.

LIST OF EQUIPMENT/ITEMS AND CATEGORIES

S.No	Name of Equipment	Category
1	HPLC with Quaternary Gradient system and built-in degasser	A
2	Polarimeter Digital	A
3	FTNIR	A
4	Automatic Soxhlet System	A
5	Sulphur-di-oxide Analyzer	A
6	Amino acid analyzer	A
7	Portable NIR spectrometer	A
8	NMR	A
9	Freeze Dryer	A
10	Upright Frost Free Vertical Deep Freezer (-25 °C)	A
11	Analytical Microbalance	A
12	Differential Scanning Calorimeter (DSC)	A
13	Automatic Digital Colony Counter	A
14	Polarimeter (Automatic)	A
15	Incinerator	B
16	COLUMNS for HPLC	B
17	LAL test Kit for endotoxin	B
18	Lab Water Distillation	B
19	Reference Standards	B
20	Flame Photometer	B
21	Nitrogen Distillation Unit / Automatic Kjeldhal System	B
22	Digestion block	B
23	Autoclave Vertical	B
24	Binocular Microscope	B
25	Bio Safety Cabinet Class II Type B2	B
26	BOD Incubator	B
27	Aflatoxin and Antibiotic	B
28	Frost Free Double door (side by side) Refrigerator	B

29	Incubator (Ambient to 70 °C)	B
30	Incubator	B
31	Laminar Air Flow(4ft)	B
32	Trinocular microscope	B
33	Water purifier	B
34	Gel Electrophoresis (a. Horizontal, b. Vertical)	B
35	Milk Analyzer	B
36	ULT Freezer Chest (-80)	B
37	Chemicals	B
38	Digital Dispenser (10ml, 50ml, 100ml) Set	B
39	Top Loading Balance	B
40	Analytical Balance	B
41	Vacuum Pumps and UV Lamps	B
42	TDS meter	B
43	Water Activity Meter	B
44	Moisture Analyzer	B
45	Fume Hoods (Size 4ft)	B
46	EC conductivity bench meter	B
47	pH Meter	B
48	High Speed Centrifuge machine (Refrigerated)	B
49	Automatic Muffle Furnace	B
50	Laboratory Oven	B
51	Multimode ELISA reader and plate washer	B
52	Rancimat	B
53	Ultrasonic bath sonicator digital	B
54	Solvent Filtration Assembly	B
55	Anaerobic Jar 1.5L~10L	B
56	Automated glassware washer	B
57	Gerber Centrifuge	B
58	Refractometer (Automatic Benchtop)	B
59	Viscometer	B
60	Density Meter	B
61	Micro Filtration Assembly	B

62	Automatic electronic pipettes (0.5 - 10ul, 1-20ul, 2-100ul, 10- 200ul, 15-300ul, 50-1000ul)	B
63	Auto Titrators	B
64	Digital Burette	B
65	Micropipette	B
66	Analytical Balance	B
67	Ultrasonic bath sonicator digital	B
68	Multimedia Projector	C
69	Still camera	C
70	Movie camera	C
71	Computer/Printers with central work station	C
72	Photocopier	C
73	UPS	C
74	Sonicators, Stirrers, Desiccators, Mortar and Pestles	D
75	Hot plate	D
76	Magnetic stirrer + Hotplate digital	D
77	Mechanical Shaker	D
78	Water bath (Digital Thermostatic)	D
79	Test tube shaker (Vortex mixer)	D
80	Vortex mixer	D
81	Circulating water bath	D
82	Glassware drying cabinet	D
83	PPEs and Lab Safety Equipment	D
84	Glassware (Beakers, Flasks, Cylinders, Pipettes etc.) PYREX	D
85	Fire Sprinkler System	D

TECHNICAL SPECIFICATIONS

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

LIST OF CATEGORY (A) EQUIPMENT AND TECHNICAL & PERFORMANCE SPECIFICATIONS

S.No	Equipment Name	Required Specifications
1	HPLC with Quaternary Gradient system with Degasser	<p>Pump Specification:</p> <ul style="list-style-type: none">• Flow rate range (0.01-10.0 ml/min, in 0.01 ml increments)• Method linking; automated system shut down• Having high efficiency, low volume, and vacuum degassing system with separate vacuum chambers for each solvent.• Flow precision of $\leq 0.075\%$ RSD with flow accuracy of $\pm 1\%$.• Compositional accuracy is $<0.5\%$ and compositional precision is $<0.5\%$, both measured at 1 ml/min.• An automated software assisted purge function required for ease of solvent changing and system purging/priming.• Operates at pressures of minimum 500 bar or better• Integrated Automatic Seals & Plunger's Wash System <p>Sample Manager Specification:</p> <ul style="list-style-type: none">• Automatic routines for adding, mixing and injecting derivative samples.• Needle wash system that uses fresh solvent with each injection.• Random access to any vial for multi-method operation.• Programmable needle height control to help protect the needle from damage and allow greater flexibility when using advanced routines.• All electric design for convenience and reliability.• Precision is $<0.5\%$ for injections from 5-80 ul. Linearity is >0.999 coefficient of deviation from 1-100 ul. Carryover is $<0.01\%$ from previous injection (Caffeine).• Injection should 0.1 to 100 ul range with up to 99 injections per vial.• Sample capacity is 100*1.5ml vials. Limited volume inserts allow as little as 0.1ul from 7ul.• Events include inject starts, inject stop and programmable contact closure.• Temperature control module must be available for controlling the sample.• Temperature compartment between 4 and 40°C in 1° increments. <p>Column Compartment Specification:</p> <ul style="list-style-type: none">• Able to mount 300 MM Length of Column.

		<ul style="list-style-type: none"> • Should able to fix minimum 2 columns at a time. • Column Heating Ambient to 60 °C. <p>Bottle Tray:</p> <p>The Separations Module solvent tray with solvent management. This tray provides the capability to locate the detector directly above the column heater/cooler thus minimizing ambient temperature effects upon column to detector flow cell tubing. The solvent tray and detector drip tray accessory kit incorporate design features for improved tubing management. This kit supports all refreshed HPLC detectors. The detector base shall include an integrated leak management scheme. Solvent bottle configurations can be up to (2) 4-Liter bottles, and (4) 1-Liter bottles.</p> <p>PDA Detector Specifications:</p> <ul style="list-style-type: none"> • Low noise sensitivity = <10 µAU • 190-800 nm with 1.2 nm bandwidth and optical resolution. • Spectral exposure optimization to maximize signal-to-noise across the entire wavelength range with a dual lamps diode • Wavelength accuracy ±1nm • Flexible sampling rates for normal and fast LC separations from 1 to 80 Hz • Photodiodes minimum 512 to reduce noise. • Independent optimization of data rate and time constant. • Flow cell • Lamp optimization through Software, ensures the same light energy output for the entire life of the detector lamp • Detector can run via software as a single wavelength, multi-wavelength or spectral detector. • Specialized routines such as max plot, purity determinations and spectral libraries. • Collect 8 channels of 2D data at user defined bandwidth for user optimization of 2D detection. • Detector must have nitrogen purging capabilities to remove contamination from optics. • Detector must be from same manufacturer. <p>Controlling Software:</p> <ul style="list-style-type: none"> • Must be 21CFR Part 11 Compliant • Eliminate the needs for manual record keeping • Maintain compliance and security requirements. • Improve information management, storage, and data mining capabilities. • Refine process with method developments and validation management tools. • Software should have a Size of Database for Recovery in any accidental loss
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		<p>of Computer Hardware.</p> <ul style="list-style-type: none"> • Able to Signoff Results Electronically <p>Additional Requirements:</p> <ul style="list-style-type: none"> • Latest Computer System for HPLC Machine Handling Core i5 or Better Latest Generation, 8Gb Ram or better, 1TB Disk Space or better. 21" LED & Laser Jet Printer. • C18 Column 4.6X250 mm, 5um (OR as per application requirement) <p>Vendor must perform IQ/OQ of Software and Hardware.</p> <p>Warranty should be 5 Years from Date of Installation Including parts and labor. 3 years with parts and 2 years with maintenance service</p> <p>Complete system with Filtration assembly and Vacuum Pump</p> <ul style="list-style-type: none"> • Local/abroad training of the technical personnel/staff <p>Certification online verifiable US FDA/ JIS /CE</p>
2	POLARIMETER DIGITAL	<p>Details specifications</p> <ul style="list-style-type: none"> • High Precision • Up to 3.0 OD measurement • Tube lengths up to 200mm • High definition full color display • US/EP/BP/JP compliant <p><u>Technical Specification</u></p> <p>Specifications Angular (°A) ISS (°Z)</p> <p>Range -355 to +355 -225 to +225</p> <p>Resolution 0.01/0.001 (selectable)</p> <p>Accuracy ± 0.010 ±0.030</p> <p>User Scales & Methods Library PHR-MEAN statistical, Specific Rotation, Concentration, Inversion (A-B), Invert Sugar and User Defined</p> <p>Reading Time Continuous measurement and display or single shot (selectable)</p> <p>Tube Length 10 to 200mm</p> <p>Beam Diameter 4mm</p> <p>Optical Density 0.0 to 3.0 OD</p> <p>Measuring Range 5-40 °C</p> <p>Sensor Accuracy ± 0.1 °C</p> <p>Compensation None, ICUMSA, Quartz or User Defined</p>

		Instrument Housing Polyurethane foam with aluminum base Interfaces 1 x USB (A), 1 x USB (B), 1 x Ethernet Operated on 220Volts Complete with Tube Certification US FDA/ JIS /CE
3	FTNIR	<p>General Hardware Specification:</p> <ol style="list-style-type: none"> 1. The FT-NIR spectrometer optics must be able to be controlled by a laptop computer. 2. Communication between the spectrometer and controlling PC must be performed using an Ethernet protocol. 3. The optical bench must support optionally up to 5 computer controlled internal measurement channels for different applications. 4. Spectrometer components like source, laser, detector, interferometer and automation units must be continuously monitored for operation within factory specifications ("Diagnosis"). The operator must be immediately notified by system software if any of the factory specifications are not met. The software must offer detailed information about the nature of the failure and suggest possible remedy. 5. The system must incorporate automated internal instrument validation unit. The internal validation unit must be able to incorporate 5 different reference standards and be fully software controlled. The unit must have standards to test for instrument wavelength (X-axis) and photometric (Y-axis) accuracy and precision. This instrument performance verification must not require user interaction and must produce a report documenting the results of the performance verification tests. 6. The control panel on the front of the spectrometer must indicate the proper function of the system, based on the diagnosis and the valid instrument performance verification of the active measurement channel. 7. The control panel on the front of the spectrometer must warn against exceeding the permitted internal humidity. 8. The instrument spectral resolution should be continuously variable to maximum optical retardation of at least 0.3nm at 1,250nm (2cm-1), apodized. 9. The wavenumber accuracy must be better than 0.1cm-1, the wavenumber repeatability (RMS) better than 0.006cm-1 and the photometric accuracy better than 0.1% transmission to lay the foundations for a successful calibration transfer. 10. The FT-NIR spectrometer must incorporate a high throughput 60-degree interferometer and gold coated optics for maximum light throughput. 11. The interferometer must be permanently aligned. Interferometer designs that require alignment (either manual or automatic) are not acceptable. 12. The interferometer should be capable of acquiring data in both scanning directions to ensure the maximum signal-to-noise ratio in the shortest possible time.

		<p>13. The interferometer bearing mechanism must be wear-free (frictionless) designed to ensure unlimited lifetime. Bearings with wear are not acceptable as they require frequent maintenance and costly exchange.</p> <p>14. The interferometer must utilize retro-reflecting cube corners for instantaneous correction of instability due to mirror tilt.</p> <p>15. The spectrometer must be able to support thermoelectrically stabilized or cooled detectors.</p> <p>16. The systems A/D converter must have a 24bit dynamic range for accurate representation of spectra and best signal to noise.</p> <p>17. The system must have a broad range power supply with the following specifications for worldwide operation: 100 - 240V AC, 50 - 60Hz.</p> <p>18. The system must be a class 1 Laser product for maximum user safety.</p> <p>19. The Laser must have a minimum lifetime of 10 years.</p> <p>20. To protect the interferometer components, the interferometer compartment must be physically sealed and desiccated. Sealing should be done with an easily replaceable Quartz isolation window. The humidity status must be indicated on the control panel on the front of the instrument.</p> <p>21. The desiccant cartridge must be easily user replaceable.</p> <p>22. The system delivery must include a replacement desiccant.</p> <p>23. To meet future measurement requirements the FT-NIR system must be available to provide the following NIR sampling accessories:</p> <ul style="list-style-type: none"> a. Sample compartment for the measurement of liquids in transmission b. Integrating sphere with rotating sample cup for reflection measurements of inhomogeneous samples or samples with large particle size. c. Fiber optics coupling, up to 2 positions, for liquid & solids probes with integrated trigger & status lights. d. "Tablet Transmission" device for the measurement of highly scattering samples. e. Sample changer with up to 99 positions (standard: 30+1 positions) for automated reflection and "Tablet Transmission" measurements. f. Fully OPUS controlled coupling to an external sampling system (LSM; IN606) for the measurement of liquid samples. <p>Specifications for the "Classic Transmission" measurement channel:</p> <ul style="list-style-type: none"> 1. The sampling device ("sample compartment") should consist in an open slot with access from the top and a software-controlled accessible background position. 2. Reduction inserts must allow the use of various round shaped disposable vials (up to 27mm diameter) and rectangular cuvettes.
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		<ol style="list-style-type: none"> 3. The sampling slot must be heat able from ambient temperature to 120°C. 4. The sample compartment must be exchangeable. 5. The standard spectral operating range should be not less than 870 - 2,500nm (11,500 - 4,000cm⁻¹). 6. The standard detector must be a thermoelectrically cooled InGaAs detector. 7. The near infrared detector must have an integrated A/D converter. Separated ADC are not accepted due to possible disturbances of the analog signal along the signal path from the detector to the ADC. 8. The maximum noise for a 5 second 100%-line measurement should be less than 1x10⁻⁵ AU noise RMS using the following conditions: <ol style="list-style-type: none"> a. 8cm⁻¹ spectral resolution b. Blackman Harris 3-Term apodization c. InGaAs detector (thermoelectrically cooled) d. Quartz beam splitter and air-cooled tungsten source e. Noise calculated from 6,100 - 5,600cm⁻¹ <p style="text-align: center;">Specifications for other measurement channels (as far as they differ from the general hardware specifications above)</p> <p>A. “Reflection” measurement channel (integrating sphere)</p> <ol style="list-style-type: none"> 1. The regular measurement spot must have a diameter of at least 12mm. 2. A second measurement spot for very small samples (e.g. single seeds) must have a diameter of about 2.5mm. 3. The integrating sphere must have an internal background measurement position, which is accessible under software control. 4. Sample spinners for the enlargement (5 times, 15 times, 100 times) of the effective measured sample surface must be optionally available. 5. An automatic sample changer must be optionally available. The standard sample changer wheel shall have 30+1 positions (for vials with 22mm diameter or standard tablet sample cups), or customized with up to 99 positions. 6. The standard spectral operating range should be not less than 870 - 2,500nm (11,500 - 4,000cm⁻¹). 7. The standard detector must be a thermoelectrically cooled InGaAs detector. 8. The near infrared detector must have an integrated A/D converter. Separated ADC are not accepted due to possible disturbances of the analog signal along the signal path from the detector to the ADC. 9. The maximum noise for a 5 second 100%-line measurement should be less than 1x10⁻⁵ AU noise RMS using the following conditions: <ol style="list-style-type: none"> a. 8cm⁻¹ spectral resolution
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- b. Blackman Harris 3-Term apodization
- c. InGaAs detector (thermoelectrically cooled)
- d. Quartz beam splitter and air-cooled tungsten source
- e. Noise calculated from 6,100 - 5,600cm⁻¹

B. “Fiber Optics” measurement channel

1. The spectrometer must optionally offer fiber optics coupling for up to 2 computer-controlled positions.
2. BQC connectors must allow the robust attachment of liquid & solids probes with integrated trigger & status lights.
3. The spectrometer must have storage for 2 laboratory probes. The storage must contain a “Reference Position” for acquiring background spectra in case of diffuse reflectance measurements.
4. The optional use of probes for process applications having SMA connectors should be possible.
5. The standard spectral operating range should be not less than 870 - 2,500nm (11,500 - 4,000cm⁻¹).
6. The standard detector must be a thermoelectrically cooled InGaAs detector.
7. The near infrared detector must have an integrated A/D converter. Separated ADC are not accepted due to possible disturbances of the analog signal along the signal path from the detector to the ADC.
8. The maximum noise for a 5 second 100%-line measurement should be less than 1x10⁻⁵ AU noise RMS using the following conditions:
 - a. 8cm⁻¹ spectral resolution
 - b. Blackman Harris 3-Term apodization
 - c. InGaAs detector (thermoelectrically cooled)
 - d. Quartz beam splitter and air-cooled tungsten source
 - e. Noise calculated from 6,100 - 5,600cm⁻¹

C. “Tablet Transmission” measurement channel

1. The NIR spectrometer must allow single transmission measurements of highly scattering samples like pharmaceutical tablets.
2. The regular measurement spot must have a diameter at least of 2.5mm.
3. The system should have an internal attenuator to allow the background measurement without any external material.
4. It must be an option to measure the samples in the same position alternatively in reflection (3.I. is needed).
5. An automatic sample changer must be optionally available. The sample changer wheel shall have 30+1 positions for standard tablet sample cups.

		<ol style="list-style-type: none"> 6. Universal variable diameter sample cups for round tablets and customized sample cups for tablets with different shapes must be available. 7. The standard spectral operating range should be not less than 870 - 1,725nm (11,500 - 5,800cm⁻¹). 8. The standard detector must be an InGaAs detector. 9. The maximum noise for a 5 second 100%-line measurement should be less than 3x10⁻⁶ AU noise RMS using the following conditions: <ol style="list-style-type: none"> a. 16cm⁻¹ spectral resolution b. Blackman Harris 3-Term apodization c. InGaAs detector d. Quartz beam splitter and air-cooled tungsten source e. Noise calculated from 6,700 - 6,200cm⁻¹ <p>D. Spectroscopic software specifications</p> <ol style="list-style-type: none"> 1. The software must be validated. 2. The software must be compliant to cGMP, to 21 CFR part 11 and all current guidelines. 3. The software must be an "all-in-one" software for data measurement, manipulation and evaluation. 4. The software must offer optional packages for dedicated applications: <ol style="list-style-type: none"> a. Quantification of substances using PLS algorithm. The quantification software package must have self-optimizing calibration models. b. Identification of substances and substance classes. The identification software package must include cluster analysis and an unlimited number of hierarchical structured libraries. 5. Dedicated user interfaces like OPUS/LAB must allow single and sample changer based routine measurements with predefined measurement parameters, qualitative and quantitative evaluations, storage conditions and GMP compliant reports. <p>Local/abroad training of the technical personnel/staff Certification US FDA/ JIS /CE</p>
4	Automatic Soxhlet System	<p><u>Automatic Solvent Extractor System</u></p> <p>Fully automated solvent extractor capable of a high sample throughput, offering state-of-the-art technology for a fast, precise and accurate fat determination in complete safety according to the Randall technique.</p> <p>A unique, smart and hermetically sealed solvent dispensing system assuring no exposure</p>

		<p>to the solvent for maximum operator safety</p> <p>Minimized Solvent Consumption</p> <p>Patent pending titanium condensers for unparalleled performance. More than 90% of the solvent used is recovered and stored in the internal recovery tank.</p> <p>LED Guidance</p> <p>The extraction process is easily visualized to the LEDs illuminating the active positions.</p> <p>Extractable Control Pad</p> <p>The Control Pad is able to control up to 4 units independently, and features the immediate display of calculated results on the onboard storage. Integrated yet removable, it can be connected with a balance for a completely new experience. The fully automated cooling operation prevents the overheating of the soluble matter.</p> <p>Features:- Unattended operations, “Load & Go”: simply prepare the sample and start the analysis with “one-click”; automatic shutdown feature improves overall throughput for unattended operations 24/7.</p> <ul style="list-style-type: none"> - Extremely versatile and scalable: the SER 158 is preconfigured to address a variety of applications and includes a complete set of accessories; investment is protected by seamlessly allowing the increase of connected units according to throughput requirements; supports Twisselman technique. - Accurate & precise: proven performance and reliable results combined with excellent reproducibility. The SER 158 improves the extraction process compared to the traditional Soxhlet (five times faster). Results are precise and in compliance with major standards. - Safe and smart: the automatic solvent dispensing system minimizes the exposure to the solvent ensuring the operator safety.
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		<p>A wide range of accessories guarantee safe sample handling for a large variety of solvent extraction applications.</p> <ul style="list-style-type: none"> - Fast and easy: the automatic extraction process completes fully unattended 5-step analysis according to the Randall technique in a short time. Easy user interface including full multi-lingual support. - Low operating cost: state-of-the-art technology incorporated into the SER 158 relieves the user of manual operations as well as limiting consumption for a higher productivity. <p>Technical Specifications</p> <p>Positions: 6-positions</p> <p>Max. Capacity: 42 samples/day/unit</p> <p>Display 7" color touch screen - extractable ControlPad</p> <p>Solventi Accettati:</p> <p>Capable of being used with the majority of solvents</p> <p>Solvent Recovery:> 90%</p> <p>Automation:Immersion, Removing, Washing, Recovery, Cooling</p> <p>Lighting: LED lights show 3/6 active positions</p> <p>Heating Element: Glass ceramic - 6 positions</p> <p>independent switch on/off</p> <p>Sample Size:0.5 to 15 g in 33x80 mm thimbles (generally 2-3 g)</p> <p>Seals:Viton, Butyl, and Vaflon</p> <p>Condensers: Titanium</p> <p>Interfaces:3 x USB (balance, mouse, USB stick), Ethernet (Pc)</p> <p>Result Calculation: Automatic, Archived on Control Pad</p>
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		<p>Water Consumption: from 1.0 l/min</p> <p>Operated on 220 Volts</p> <p>Must have Quality Certification</p>
5	Sulphur-di-oxide Analyzer	<p>Range</p> <p>0-10 ppm or better</p> <p>0-25 mg/m³</p> <p>Extended Ranges</p> <p>0-100 ppm</p> <p>0-250 mg/m³</p> <p>Detection Limit</p> <p>2 ppb (10 second averaging time)</p> <p>1 ppb (60 second averaging time)</p> <p>0.25 ppb (300 second averaging time)</p> <p>Zero Drift</p> <p><0.5 ppb (24 hour)</p> <p>Span Drift $\pm 0.5\%$ full-scale (24 hour)</p> <p>Response Time</p> <p>60 sec (10 second averaging time)</p> <p>110 sec (60 second averaging time)</p> <p>320 sec (300 second averaging time)</p> <p>Must have Quality Certification</p>
6	Amino acid analyzer	<p>Automatic Amino Acid Analyzer or protein hydrolysate or physiological fluids equipped for the classical determination of amino acids with ion exchange and high-temperature post-column</p>

		<p>reaction with Ninhydrin and Data System consisting of: Quaternary Solvent Delivery Peek including pump,4-channel vacuum degasser + quaternary gradient operation module (Eluent mixing with variable mixing speed). In dialogue programmable inert pump with 2-plunger short stroke with following parameters:</p> <ul style="list-style-type: none"> • Flow rate: 0.1 -10ml/min • Pressure range: up to 40 MPa/ 6000 PSI. • Operation mode: constant flow or constant pressure • Autosampler • Peek-version 2x60 samples in two trays; X-, Y-, Z-axes • Needle control for random sample access • Variable dosage mode; Programmable volume dosage mode from 1 to 100µl in increments of 1 µL • Partial loop filling of the sample loop with air segmenting; Free programmable cooling and heating of the sample rack from 4°C to 70°C • Amino Acid Reaction including Dual wavelength filter photometer with external control of the measuring ranges • Fixed wavelengths of 440nm and 570nm • both signals can be continuously recorded • High Temperature Reactor for the Ninhydrin post-column derivatization with free programmable temperature selection from RT to 180°C, Inert micro dosing pump for the exact supply of Ninhydrine-solution
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		<ul style="list-style-type: none"> • Temperature controlled column oven (1 to 99°C +/- 1 °C) with active cooling capability; Controlled Temperature of the columns with Peltier Elements for fast temperature gradients • Column thermostat for active cooling/heating • Reagent Organizer for storage of buffers under N2 or He. • Cooling of all solvents through Peltier elements • Data acquisition and control software dedicated for the Amino Acid Analyzer • The software package is fully 21 CFR Part 11 compliant and features an integrated buffer & reagent monitor; • Package includes 2-channel 24-bit USBADS, full instrument control of all components • Tool Kit consisting of: 1 pc. Wrench 12x13 mm; 1 pc. Wrench 1/4" x 5/16"; 1 pc. Plastic Syringe with tubing adapter; 1 pc. Allen wrench 2,5mm; 1 pc. Allen wrench 3mm; • Columns: pc. Cation Exchange Column LCA K13/Na • Peek-Column 4,6 x 175 mm, packed with spherical cation exchanger based on polystyrol; Particle size: 7µm; 10% cross linked; max. pressure 180 bar; Sodium form for extended separation program hydrolysate fluids • 1 pc. Ammonia Filter Column • LCA K04/Na (for hydrolysate program) • Hydrolysate Kit III for approx. 100 samples • for hydrolysate program consisting of: <ul style="list-style-type: none"> • x1000 ml Buffer A-4, 0, 12N, pH 2,90 • x1000 ml Buffer A-5, 0, 15N, pH3,6
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		<ul style="list-style-type: none"> • 1 x1000 ml Regeneration Solution 0,5N • 1 x1000 ml Sample Dilution Buffer, 0,12N, pH 2,20 • Standard solution(H-Ox), 5ml • for extended Hydrolysate program for feedstuff sample; 1 µMol/ml • Ninhydrine Reagent 1000 ml • with reducing agent (1ml) • Complete with Computer, Printer, UPS • 1-year preventive maintenance kits <p>Must have Quality Certification</p>
7	Portable NIR spectrometer	<ul style="list-style-type: none"> • Measurement mode: Down view reflection or reflectance • Sample types: Unground grains and pellets, powders, pastes, slurries, liquids and more • Sample area analyzed Up to 108 cm² • Sample Volume: Flexible 1-400 mL, depending on sample type • Interface: USB ports and Ethernet • Operating temperature range 5 °C to 40 °C • Wavelength range: 900 -1700 nm detector, 950 -1650 nm applied • Detector: Indium gallium arsenide (InGaAs) • Wavelength accuracy < 0.05 nm • Warranty: 1 year, 5 year on diode array spectrometer <p>Must have Quality Certification</p>
8	NMR	<ul style="list-style-type: none"> • NMR-frequency (1H)400 MHz

		<ul style="list-style-type: none"> • Typical helium hold time: 300 days • Typical nitrogen holding time 16 days • Timing Resolution: 12.5 ns • Frequency Resolution < 0.005 Hz • Digital Lock: Included • RF amplifier frequency range: 57Fe-19F/1H • NMR Tube Diameter 5 mm • Channels: 1H, BB & 2H Lock • Z-Gradient: 50 G/cm <p>Must have Quality Certification</p>
9	Freeze Dryer	<p>Materials/Samples for freeze drying: liquid (blood/milk), feed, forage and feces</p> <p>Shelf temperature At least -30 °C to +60 °C</p> <p>Condenser capacity: At least 16 kg</p> <p>Condenser temperature: At least -50 °C</p> <p>Temperature range: -40 °C to +40 °C</p> <p>Type: Stoppering tray dryer</p> <p>Include: 3 shelves, 6-Port Manifold, Isolation valve</p> <p>Three 16.5 x 12 inch, temperature-controlled ($\pm 1^\circ$ C), adjustable shelves with sample temperature sensors</p> <p>Chamber pre-freezing samples to save time and money by eliminating need for separate freezer and product transfer</p> <p>Environmentally-friendly HCFC/CFC-free refrigeration system</p>

		<p>Built-in pneumatic mechanism stoppers containers on all three shelves</p> <p>Up to 594 sq. inches of shelf space</p> <p>Circulating fluid in shelves ranges from -40 and $+40^{\circ}$ C</p> <p>Nearly upto 0.155 m^2 of shelf space</p> <p>Clear acrylic viewing door for complete visibility of shelves</p> <p>1/8 in. OD backfill port introduces sterile air or inert gas from outside source to chamber, protecting samples from atmospheric moisture and contaminants</p> <p>Real time display of freeze dryer and tray dryer parameters on 5 in. full color, capacitive touch screen</p> <p>Data may be exported via USB or Ethernet</p> <p>Microprocessor-based controller for different ($n = 30$) temperature programs to be stored and repeated, each using up to 16 different steps</p> <p>Digital display</p> <p>Display provides navigation to manual or program mode, probe temperatures, vacuum in mBar, Torr or Pa, step of program in progress, time remaining in present step, and end of program, as well as alarms</p> <p>6-Port tray dryer manifold accommodates either 1/2 inch or 3/4-inch flask adapters and connect to flasks and other glassware</p> <p>Freeze dryer, vacuum pump with displacement of at least 163L/minute, and freeze dry glassware along with all accessories</p> <p>Standard warranty</p> <p>All accessories</p> <p>Installation, successful running and training of staff on the equipment will be an integral</p>
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		responsibility of the supplier, security Must have Quality Certification
10	Upright Frost Free Vertical Deep Freezer (-25 °C)	Capacity: 220 litres / 7.8 cu.ft or Better Temperature range: -20°C to -40°C Ambient Temp: 35°C Baskets: 3 Compressor: Hermetic Alarm system: High/low temperature alarm (adjustable ± 5 to ± 15), Power failure, Remote alarm contact Must have Quality Certification
11	ANALYTICAL MICROBALANCE	Features <ul style="list-style-type: none"> • Advanced mechanical and electronic weighing technology • isoCAL: automatic internal adjustment can be programmed at defined intervals or ambient temperature changes • SQmin: minimum sample reference can be programmed and displayed on balance • Overload protection • Connect balance to a computer using a USB and transfer results instantly • Weighing results can be printed within seconds in compliance with GLP/GMP • Smaller footprint and up-front control display with integrated cooling system • Efficient and easy for fume hood and benchtop installations • Removable stainless-steel pan • Single block, monolithic weight cell for optimum performance and repeatability • Simple touchscreen for easy navigation (without manual) • Removable, rolling glass doors and complete draft chamber • Contoured base plate provides spill protection and can easily be removed and cleaned • High-capacity specifications to accommodate large beakers and tare containers • Specifications: • Sensitivity drift between 10deg.C to 30deg.C: ± 1ppm/K • isoCAL Temperature Change: 1.5k isoCAL Time Interval: 4 hours

		<ul style="list-style-type: none"> • Display Update Rate: 0.2mm, 0.4mm • Weighing Pan Dia.: 80 (90 optional) • Weighing Chamber Height: 218mm • Dimensions (D x W x H): 37.6 x 21.4 x 31.6cm (14.8 x 8.4 x 12.4 in.) • with built in printer • Net Weight: approx. 7.8kg • Weighing Capacity: 40g, 60g • Readability: 0.01mg, Repeatability: 0.02mg, 0.04mg • Linearity: 0.1mg, 0.1mg Stabilization time: 6, 6 sec <p>Certification US FDA/ JIS /CE</p>
12	Differential Scanning Calorimeter (DSC)	<p>Furnace Type Silver Furnace</p> <p>Temperature range (max.) -140°C to 600°C</p> <p>Measuring range (max.) ± 750 mW (τ-sensor)</p> <p>Enthalpy accuracy < 1%*</p> <p>Precision of specific heat capacity determination < 2 to 3% (for sapphire, RT to 500°C)</p> <p>Exchangeable sensors · τ-sensor (-180°C to 700°C)</p> <p>· μ-sensor (-150°C to 400°C)</p> <p>Cooling options</p> <p>· Air compressor: RT to 700°C</p> <p>· Compressed air: <0°C to 700°C (Vortex)</p> <p>· Intracooler: -85°C to 600°C</p> <p>· Liquid nitrogen: -180°C to 700°C</p> <p>Gas atmospheres Inert, oxidizing, static, dynamic</p> <p>Gas-tight Yes</p> <p>Mass flow controller for purge/protective gas 3, integrated (0 ... 250 ml/min)</p>

		<p>Gas flow regulation Software-controlled</p> <p>Automatic sample changer (ASC) Optional, for up to 192 samples + up to 12 calibration samples</p> <p>Evolved Gas Analysis MS and/or FT-IR, possible with ASC</p> <p>Photocalorimetry (optional) UV extension for various commercial lamps, possible with ASC</p> <p>Software (included features)</p> <ul style="list-style-type: none"> · SmartMode · Expert Mode · Auto Calibration · Auto Cooling · Auto Evaluation · Identify · Advanced software extensions (optional) · Temperature modulation, TM-DSC · Purity <p>Advanced software extensions (optional)</p> <ul style="list-style-type: none"> · Peak Separation · Thermokinetics · Thermal Simulations · Component Kinetics <p>Must have Quality Certification</p>
13	Automatic Digital Colony Counter	<p>Image</p> <p>Camera CMOS color camera</p>

		<p>Lens M12 lens</p> <p>Digital zoom x 28</p> <p>Resolution 1 megapixel or better</p> <p>Counting time Up to 1000 colonies per second</p> <p>Minimum size of colonies 0.1 mm</p> <p>Lighting technology Long-life white LEDs / Dark Field</p> <p>Lighting system Automatic 6 combinations, top and/or bottom light white or black background</p> <p>Counting</p> <p>Counting Automatic, with manual control</p> <p>Results / data Recountable file, PDF report, JPEG, PNG, BMP, Excel™</p> <p>LIMS connection yes</p> <p>USB connection yes</p> <p>Petri dishes (55-90 mm)</p> <p>Traceability 21 CFR Part 11</p> <p>PC requirements</p> <p>Operating systems Windows™: 8 or 10</p> <p>Processor (Quad-core recommended) Intel i3 or i5 or i7 or AMD FX 6000 or superior, 2.4 Ghz or superior</p> <p>RAM 8 GB recommended)</p> <p>Graphic card AMD or NVIDIA (chipsets are not recommended)</p> <p>Equipment USB 2.0 slot</p> <p>Screen 1280 X 1024 pixels and more</p> <p>Must have Quality Certification</p>
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14	Polarimeter (Automatic)	<p>Measuring scales: °Optical Rotation, °Specific Rotation, %Concentration</p> <p>Measuring range: ±89.9° or better</p> <p>Resolution: 0.001°</p> <p>Accuracy: ±0.01°</p> <p>Repeatability: ±0.01°</p> <p>Response time: 12 sec.</p> <p>Wavelength: 589 nm</p> <p>Light source: LED, with average lifetime of 100.000 hours</p> <p>Sensitivity: A light intensity control compensates attenuation up to Optical Density (OD) 2.0</p> <p>Temperature sensor: Built-in PT 100 sensor</p> <p>Temperature resolution: 0.1 °C</p> <p>Temperature accuracy: ±0.2 °C</p> <p>Temperature control: Automatic Peltier temperature control at 20°C and 25°C, or without temp. control</p> <p>Sample cell / quartz control plate: Automatic sample cell and quartz control plate identification; sample cell path length of 2.5 mm to 100 mm</p> <p>Must have Quality Certification</p>

TECHNICAL SPECIFICATIONS
LIST OF CATEGORY (B) EQUIPMENT AND TECHNICAL & PERFORMANCE SPECIFICATIONS

1	Incinerator	<p style="text-align: center;"><u>Specification for Hazardous Waste Incinerator (Cat-A)</u></p> <p>Bio-Medical/Hospital/Infectious/Cytotoxic Waste Incinerator with integrated Gas Flue Washing System, Fully compliant with the Pakistan Environmental Protection Act 1997 and Rules/ Regulations framed thereunder.</p> <p>Incinerator should be excellently designed to burn all Type IV pathological waste and infectious and contaminated “red bag,” surgical dressings, plastic test devices, vials, yellow bags, bandages, gauzes, cytotoxic and other Hazardous waste.</p> <ul style="list-style-type: none"> a. Prefabricated 8-10mm robust mild steel casing, seam welded and suitably stiffened/ braced where necessary. b. Lightweight durable refractory fiber insulation door, providing a tight seal, giving excellent thermal efficiency. c. Primary and secondary chamber lining thickness of minimum 180mm rated up-to 1650°C. d. Steel structures shall be painted using a two-pack high grade paint system. e. Double pass Hot Hearth principle / technology enabling increased efficiency of incineration by providing additional heating below the chamber encouraging 360° heat distribution. f. Multi-layered refractory lining using fire bricks and insulation bricks, improving thermal efficiency.
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		<p>Industry Leading Insulation</p> <p>Coretex© or Equivalent insulation is a specially formulated substrate containing various levels of material that ensure almost all the heat generated within incinerators stays inside them - increasing performance and efficiency.</p> <p>Rigid, Long-Lasting Construction</p> <p>Incinerators should be constructed from British / European/ Japan and USA made high quality 8mm or better steel plate, and fully welded for maximum strength for trouble-free operation. Clad in stainless steel for hygiene and better heat retention.</p> <p>Fully Compliant Range</p> <p>The quoted incinerators must be tested to exacting standards ensuring they meet all required guidelines.</p> <p>The machine shall reach to a minimum of 1150 °C in the secondary chamber and shall retain the gases for the 2 seconds.</p> <p>STANDARD CONFIGURATION:</p> <ul style="list-style-type: none"> ✓ Bio-Medical/Hospital Waste Incinerator Modular Package Type, free standing unit consisting of (Primary chamber, Secondary Chamber, stake, controller, and gas flue washing system). ✓ Diesel Oil, Natural Gas and LPG Fired Burners ✓ Stainless steel stack for longevity ✓ Burning capacity: Minimum 100 kgs of waste destroyed per hour or above. ✓ Average ash residue: 3 to 4% ✓ Operating Temperature 850°C to 1350°C or better: ✓ Minimum 1150°C in a secondary chamber ✓ Residency Time in Secondary Chamber of 2 seconds
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		<ul style="list-style-type: none"> ✓ Thick refractory lining & insulation minimum 180mm rated to 1650° C in main chamber retains heat, increasing efficiency ✓ Separate doors for loading and ash removal ✓ Loading door for maximum operator protection for direct heat exposure ✓ Burner with temperature activated modulating control ✓ Dual HT Thermocouples: Allow independent control of Primary and secondary temperature via the control panel ✓ Pressure blower with modulating air control ✓ Stainless steel cladding for maximum heat retention, cool touch, and hygiene control ✓ Rapid, complete, and efficient medical waste disposal ✓ Safe use handle ✓ High quality refractory lining and insulation ✓ PLC touch screen, dual burner control, preset burn times and blower ✓ Temperature monitoring and recording ✓ Programmable digital temperature controls for complete combustion ✓ Secondary burner temperature activated modulating control ✓ Fast pre-heat and continual high temperature performance ✓ Heavy duty lock: Designed by us to ensure tight locking chamber with no air gaps. Easy to open and close ✓ Low energy consumption levels
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		<p>✓ 2 efficient high efficiency burners for better fuel saving to save per hour fuel burning cost.</p> <p>PRIMARY CHAMBER</p> <p>Primary Chamber must be designed for maximum air flow and circulation to improves efficiency and total burn time.</p> <ul style="list-style-type: none"> • Heavy-duty steel casing • High quality refractory lining and insulation • Large full size load door and liquid retention sill • Heavy Duty Ceramic Grate • Natural Gas, LPG And diesel oil fired ignition burners operated on/off & thermostatic control • HT thermocouple: Allow independent control of Primary temperature via the control panel. <p>SECONDARY CHAMBER</p> <p>100% stainless steel. Able to Retains and reburns exhaust gases for 2 seconds at 1100°C to meet EU guidelines.</p> <ul style="list-style-type: none"> • Heavy-duty steel casing • High quality refractory lining and insulation • Natural Gas, LPG and Diesel fired ignition burners operated on/off & thermostatic control • Blower (excess air reactor for cyclonic turbulence)
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		<ul style="list-style-type: none"> • HT thermocouple: Allow independent control of Secondary temperature via the control panel • 2 second gas retention time. <p>WET SCRUBBER (AIR POLLUTION CONTROL)</p> <ul style="list-style-type: none"> • Air pollution control under wet scrubbing • Smell and smoke free operation • Full emission control as per following: <p>Parameters</p> <p>Must be NEQS standard</p> <p>CHIMNEY</p> <ul style="list-style-type: none"> • Stainless steel stack for longevity. • Minimum 3m stack height required (further extended as per customer requirements). • Fitted with dispersion cap as standard. • Refractory lined sectional chimney sections • Stainless steel stack cap / spark arrestor • Two stage type • Total Height: 15M from ground level • Heat Exchanger for chimney (optional)
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		<p>CONTROL PANEL</p> <ul style="list-style-type: none"> • Control of burners • Preset burn times • PLC touch screen, dual burner control, preset burn times and blower • Temperature monitoring and recording • Programmable digital temperature controls for complete combustion • Secondary burner temperature activated modulating control • Fast pre-heat and continual high temperature performance/Batch Type <p>LOW ENERGY CONSUMPTION</p> <ul style="list-style-type: none"> • Programmable digital temperature controls maintain temperature, assuring complete combustion while conserving fuel • Pressure blower with modulating air control creates turbulence and distributes combustion air to secondary chamber • Secondary burner with temperature activated modulating control provides fast preheat and sustains high temperature performance at low energy consumption levels. <p>CHARGING RATE</p> <ul style="list-style-type: none"> • Minimum 100 kgs per hour of Type IV pathological waste or red bag waste rated at 3500 kcal <p>SPECIFICATIONS: FUEL SOURCE: Diesel oil and Natural Gas, LPG</p>
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		<div>BURN RATE: up to 50 kg/hour or better</div> <div>AVG. ASH RESIDUE: 3% or better</div> <div>Gas Retention time: 2 seconds</div> <div>Thermostatic device: Yes</div> <div>Controller: PLC (<i>Programmable Logic controller</i>)</div> <div>Operations:</div> <div>Min. operating temperature: 850 C</div> <div>Max. operating temperature: 1350 C</div> <div>Residency time in sec. chamber: 2 seconds</div> <div>Temperature monitoring: YES</div>			
2	Columns for HPLC	<div><div>• Column</div><div>• L1/C18: 5 um, Encapped</div><div>• L1/C18: 5 um, Encapped</div><div>• L7/C8: 5 um, Encapped</div><div>• L7/C8: 5 um, Encapped</div><div>• L3, 5 um, Encapped</div><div>• L3, 5 um, Encapped</div><div>• L29, 5 um, Encapped</div><div>• L29, 5 um, Encapped</div><div>• Certification US FDA/ JIS /CE</div></div>	<div><div>• Length (cm)</div><div>• 15</div><div>• 25</div><div>• 15</div><div>• 25</div><div>• 15</div><div>• 25</div><div>• 15</div><div>• 25</div></div>	<div><div>• Diameter (nm)</div><div>• 4.6</div><div>• 4.6</div><div>• 4.6</div><div>• 4.6</div><div>• 4.6</div><div>• 4.6</div><div>• 4.6</div></div>	<div><div>• Qty</div><div>• 4</div><div>• 4</div><div>• 4</div><div>• 4</div><div>• 1</div><div>• 1</div><div>• 1</div><div>• 1</div></div>

3	LAL TEST KIT FOR ENDOTOXINS	<ul style="list-style-type: none"> • REAGENTS AND CONSUMABLES FOR QUALITATIVE ANALYSIS • DIGITAL WATER BATH <ul style="list-style-type: none"> • Microprocessor PID Control for 0.1 °C Precision • Timer, Alarm, Auto-Tuning Function • Seamless Stainless Steel Bath (SUS304) <p>Dimensions (W x D x H mm): Inner 500 x 295 x 150 Outer 537 x 327 x 280 Capacity: 22 Liter Temperature Range: Set: Ambient +5 °C to 99 °C, Accuracy: ±0.1 °C, Uniformity: ±1.0 °C Heater: 1400W Manufacturer: Korea/USA/Europe</p> <ul style="list-style-type: none"> • Lysate for Qualitative Analysis • Amebocytes Extracts from Horse shoe crab Limulus Polyphemus • Multi-test Vial for Endotoxin Testing • 50 Reactions/Vial <p>Sensitivity: 0.03 EU/ml Storage life after reconstitution should be more than 02 Months. Expiry: More than 70%. Certificate of Compliance and Certificate of Analysis with online traceability is must</p> <ul style="list-style-type: none"> • Control Standard Endotoxin purified extract of E. coli O113:H10 Volume: 0.5ng/vial Expiry: More than 70% Certificate of Compliance and Certificate of Analysis with online traceability with quoted lysate is must <p>LAL Reagent water, <0.001 EU/ml <1.56 pg/mL glucan Pack size: 1000 ml plastic bottle Expiry: More than 70% Certificate of Compliance with online traceability is must</p>
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		<ul style="list-style-type: none"> • Depyrogenated Tips 250 µL Precision Pipette Tips certified free of interfering endotoxins and glucans Pack size: 96 Tips/Box Certificate of Compliance with online traceability is must • Depyrogenated Tips 1000 µL Precision Pipette Tips certified free of interfering endotoxins and glucans Pack size: 96 Tips/Box Certificate of Compliance with online traceability is must • Reaction Tubes Size: 10 x 75 mm (Comparable size) Material: Borosilicate/ Soda lime glass Pack Size: 50 tubes/pack Certificate of Compliance with online traceability is must • Dilution Tubes 16 x 90 mm depyrogenation heat stable Borosilicate glass tubes with Aluminum Caps Pack Size: 65 tubes/pack. Certificate of Compliance with online traceability is must Certification US FDA/ JIS /CE
4	LAB WATER DISTILLATION	Water Double Distillation Apparatus Technical data Ambient temperature min. 10 °C Ambient temperature max. 40 °C Distillation type Double Material Stainless steel/glass Production output 4 L/h Conductivity at 25 °C 2.2 µS/cm Cooling water flow rate 2.0 L/min Operated on 220 Volts with standard warranty of manufacturer. Certification US FDA/ JIS /CE
5	REFERENCE STANDARDS	<ul style="list-style-type: none"> • Primary reference standards as per requirements of the official Monographs (USP/BP) <ul style="list-style-type: none"> ▪ Certification US FDA/ JIS /CE • <u>Name of the Primary Reference standard</u> • Acetaminophen • Acyclovir

		<ul style="list-style-type: none"> • Albuterol • Albendazole • Alendronate Sodium • Alfuzosin Hydrochloride • Allopurinol • Alprazolam • Dried Aluminum Hydroxide Gel • Amantadine Hydrochloride • Amikacin Sulfate • Amitriptyline Hydrochloride • Amlodipine Besylate • 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
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		<ul style="list-style-type: none"> • 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
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		<ul style="list-style-type: none"> • 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
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		<ul style="list-style-type: none"> • 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
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		<ul style="list-style-type: none"> • 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
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		<ul style="list-style-type: none"> • 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
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		<ul style="list-style-type: none"> • Progesterone • Procyclidine Hydrochloride • Promethazine Hydrochloride • Propofol • Pseudoephedrine Hydrochloride (• Pyrazinamide • Pyridoxine Hydrochloride • Quetiapine Fumarate • Quinine Sulfate • Ramipril • Ranitidine Hydrochloride (200 mg) • Ribavirin (200 mg) • Rifampin (300 mg) • Risperidone • Rivaroxaban • Rosiglitazone Maleate • Rosuvastatin Calcium • Sertraline Hydrochloride • Sevoflurane • Sildenafil Citrate • Simethicone • Sitagliptin Phosphate • Solifenacin Succinate • Spironolactone • Streptomycin Sulfate • Sulfamethoxazole • Tamoxifen Citrate • Tazobactam • Tamsulosin Hydrochloride • Tenofovir Disoproxil Fumarate • Terbinafine Hydrochloride • Theophylline • Ticlopidine Hydrochloride • Tinidazole • Tobramycin • Tolbutamide
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		<ul style="list-style-type: none"> • Topiramate • Tramadol Hydrochloride • Tranexamic Acid • Triamcinolone (• Trimethoprim (• Valproic Acid • Valsartan • Venlafaxine Hydrochloride • Vinblastine Sulfate • Warfarin • Xylometazoline Hydrochloride • Yohimbine Hydrochloride • Zinc Sulfate • Zoledronic Acid • Zolmitriptan
6	Flame Photometer	<p>Large LCD touch screen display for ease of accessibility</p> <p>Correlation coefficient with automated calculative function</p> <p>Equipped with an air compressor for stable flow rate of air during flammation</p> <p>USB interface</p> <p>Elements detected in single aspiration K, Na, Li, Ca</p> <p>Sensitivity</p> <ul style="list-style-type: none"> • K- 0.01 ppm • Na- 0.01 ppm • Li- 0.1 ppm • Ca- 2 ppm <p>Range</p> <ul style="list-style-type: none"> • K- 0 ppm ~ 100 ppm • Na- 0 ppm ~ 160 ppm

		<ul style="list-style-type: none"> • Li- 0 ppm ~ 100 ppm • Ca- 0 ppm ~ 1000 ppm <p>Method detection limit</p> <ul style="list-style-type: none"> • K- ≤ 0.156 ppm • Na- ≤ 0.184 ppm • Li- ≤ 0.105 ppm • Ca- ≤ 2 ppm <p>Linearity</p> <ul style="list-style-type: none"> • K- 0.195 ppm (0.39 ppm ~ 3.12 ppm) • Na- 0.69 ppm (1.15 ppm ~ 9.2 ppm) • Li- 0.15 ppm (0.25 ppm ~ 5 ppm) • Ca- 3 ppm (5 ppm ~ 100 ppm) <p>Sample uptake < 6 mL/min</p> <p>Repeatability 1% CV for 20 consecutive samples</p> <p>Response time < 8s</p> <p>Must have Quality Certification</p>
7	Nitrogen Distillation Unit / Automatic Kjeldhal System	<p>Digestion Block: Six places or better, simultaneously digestion</p> <p>Programming through console, increases of Temperature controlled with microprocessor. Temperature range ambient to 420 - 450°C, Setting of heating time 120 minutes, automatic Switch off, possibility to program upto 4</p> <p>Increases of temperature and twice of permanence each of them.</p> <p>Including digestion tube set with compatible digestion tubes</p>

		<p>RECOMMENDED FOR ABOVE</p> <p>i. Recirculating Water Vacuum Pump, Innovative recirculating water vacuum pump that allows selecting the flow up to 35 l/min to optimize the Functioning according to the different applications.</p> <p>The structure manufactured from polypropylene and ABS gives a high resistance to chemical aggression.</p> <p>The unit is designed for all the uses which require a non pulsating suction; typical examples are rotating evaporators, vacuum filtrations etc. when coupled to a Scrubber allows a very effective removal of fumes evolved during acid mineralization</p> <p>ii. Scrubber is designed to neutralize corrosive and Toxic Fumes that develop during oxidative mineralization's.</p> <p>This is a highly efficient neutralization due to the optimized gas liquid contact, used for both basic and acid neutralization.</p> <p>iii. Kjeldahl's Distillation Apparatus</p> <p>Technical Specs</p> <p>Steam Generator uses Deionised Water and is Maintenance Free</p> <p>Digital LCD Display,</p> <p>Automatic Sodium Hydroxide addition, manual Distillation residues removal, Manual dilution Water addition, Manual Boric Acid addition.</p> <p>Measuring Range mg N 0.1 to 200 or better</p> <p>Reproducibility 1%</p> <p>Recovery 99.5% at Nitrogen Levels between 1-200 mg N</p>
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		<p>Detection Limit 0.1mg N</p> <p>Distillation time 5 minutes to collect Distillate 180-250ml</p> <p>Sodium Hydroxide Volume 0-100ml</p> <p>Tap water Consumption 0.5l/min at 15 degree C, 1litre/m at 30° C</p> <p>Time related to start 0-99 minutes</p> <p>Complete with all standard Accessories with Instruction Manual</p> <p>Must have Quality Certification</p>
8	Digestion block	<p>High sample capacity - up to 40 samples at a time</p> <p>Multiple programs - up to 20 different digestion procedures.</p> <p>Unattended operation</p> <p>Precise Temperature Control +/- 2 deg C of set temperature.</p> <p>Electronically stored methods - consistent performance from batch-to-batch</p> <p>Specifications</p> <p>Capacity (tubes)</p> <p>Min 20ml</p> <p>Temperature range</p> <p>Ambient to 450° C</p> <p>Set point accuracy $\pm 2^{\circ}\text{C}$</p> <p>Must have Quality Certification</p>
9	Autoclave Vertical	<p>Microprocessor Controlled Vertical Unit</p> <p>Temperature Range 105 to 135° C Interior Chamber Stainless steel, capacity 60 Lit with Built in Timer 1 to 250 Minutes and Pressure Gauge 0 to 0.4 mpa, Selected Modes for Liquid and Solids and Agar Process, Complete with stainless Steel Baskets with following Features: -</p>

		<ul style="list-style-type: none"> a. Electromechanical Lock System. b. Dual Sensing Interlock mechanism. c. Pulse Sensing System for Air Exhaust. d. Programmable Auto start e. Process Status Display f. Over Pressure Cutoff. Over Temperature Cutoff, Pressure Safety valve. <p>Must have Quality Certification</p>
10	Binocular Microscope	<p>Body: Aluminum die-cast metal frame, protective plastic covering</p> <p>Optical System:</p> <p>Infinity optical system</p> <p>Illumination System: Built-in transmitted illumination system</p> <p>LED power consumption: 0.5 W (nominal value)</p> <p>Focusing: Stage height movement</p> <p>Coarse movement stroke: 15 mm</p> <p>Coarse adjustment limit stopper</p> <p>Torque adjustment for coarse adjustment knob</p> <p>Fine focus knob (minimum adjustment gradations: 2.5 µm)</p> <p>Revolving Nosepiece: Fixed quadruple nosepiece with inward tilt Stage: Wire movement mechanical fixed stage</p> <p>Traveling range (X × Y): 76 mm × 30 mm</p> <p>Specimen holder: Specimen position scale</p> <p>Observation Tube: Binocular, anti-fungal</p> <p>Eyepiece (Antifungal): 10X Field Number 20mm</p>

		<p>Tube Inclination: 30°</p> <p>Light Path Selector: None</p> <p>Interpupillary distance adjusting range: 48-75mm</p> <p>Eye Point Adjustment: 370.0 - 432.9 mm</p> <p>Condenser:</p> <p>Abbe condenser NA 1.25 with oil immersion</p> <p>Built-in aperture iris diaphragm</p> <p>Objectives: Plan Achromat, anti-fungal</p> <table><tr><td>4X</td><td>NA 0.1</td><td>W.D. 27.8 mm</td></tr><tr><td>10X</td><td>NA 0.25</td><td>W.D. 8.0 mm</td></tr><tr><td>40X</td><td>NA 0.65</td><td>W.D. 0.6 mm</td></tr><tr><td>100XOil</td><td>NA 1.25</td><td>W.D. 0.13 mm</td></tr></table> <p>Technical Specs:</p> <p>Microscope frame for transmitted microscopy with LED illuminator, binocular tube, a pair of eyepiece 10X (F.N.20), quadruple revolving nosepiece, right-handle mechanical stage, abbe condenser and plan objectives (4X, 10X, 40X, 100X), including AC adapter, fixing belt for transportation</p> <p>Power Cord</p> <p>Must have Quality Certification</p>	4X	NA 0.1	W.D. 27.8 mm	10X	NA 0.25	W.D. 8.0 mm	40X	NA 0.65	W.D. 0.6 mm	100XOil	NA 1.25	W.D. 0.13 mm
4X	NA 0.1	W.D. 27.8 mm												
10X	NA 0.25	W.D. 8.0 mm												
40X	NA 0.65	W.D. 0.6 mm												
100XOil	NA 1.25	W.D. 0.13 mm												
11	Bio Safety Cabinet Class II Type B2	<table><tr><td>Display</td><td>Digital Microprocessor controlled</td></tr><tr><td>Filter Efficiency</td><td>99.999%</td></tr><tr><td>Filter Type</td><td>H14 HEPA</td></tr><tr><td>Hertz</td><td>50/60 Hz</td></tr></table>	Display	Digital Microprocessor controlled	Filter Efficiency	99.999%	Filter Type	H14 HEPA	Hertz	50/60 Hz				
Display	Digital Microprocessor controlled													
Filter Efficiency	99.999%													
Filter Type	H14 HEPA													
Hertz	50/60 Hz													

		<p>Lighting LED</p> <p>Certifications/Compliance EN 12469</p> <p>Chamber Material Stainless Steel (316)</p> <p>Anti-corrosive material</p> <p>Outlets 4</p> <p>Ports 2</p> <p>Sash Opening 7.8 in.</p> <p>Sash Opening (Metric) 200 mm</p> <p>UV Lamp with bactericidal activity</p> <p>Water faucet inlet and gas inlet with water sink</p> <p>Must have Quality Certification</p>
12	BOD Incubator	<p>Range</p> <p>Selectable: 0 to 35, 0 to 70, 0 to 350, or 0 to 700 mg/L BOD (Biochemical Oxygen Demand)</p> <p>Capacity</p> <p>Six 492-mL bottles</p> <p>Precision</p> <p>For a standard containing 150 mg/L each of glucose and glutamic acid, testing 44 samples obtained a mean of 235 mg/L BOD with a 95% confidence limit of distribution of 11 mg/L (or arrange of 224 to 246 mg/L BOD)</p> <p>Drift</p> <p>< 3 mg/L BOD in 5 days</p> <p>Resolution</p> <p>1 mg/L BOD</p>

		<p>Operating Temperature 20°C (68°F)</p> <p>Storage Temperature 0 to 40°C (104°F)</p> <p>BOD Incubator</p> <p>The TC series of thermostatically controlled cabinets is used for continuous temperature control over a range of 3 °C to 50 °C. This makes them ideal for a wide range of different applications in industrial and research laboratories. In particular they are ideal for the temperature-controlled storage of samples or BOD determination in effluent analysis work. The temperature can be set in steps of 0.1 °C and an LED display shows both the set temperature and the current temperature in the cabinets.</p> <p>Must have Quality Certification</p>
13	Aflatoxin and Antibiotic reader	<p>Must be able to reader antibiotic and aflatoxin strips</p> <p>Must read the results both quantitatively and qualitatively with online test and single machine test mode options.</p> <p>The calculations should be pre-stored in the instrument, the standard curves for different testing items and samples can be read by scanning the IC card or the QR code.</p> <p>The testing results can be printed out through the printers installed in the instrument or imported into the computer for long term storage or data tracing purpose.</p> <p>Principle of Operation: Reflection Spectrophotometry</p> <p>Technical Specifications</p> <p>PC Connection: USB Port</p> <p>Speed: Reads the cassette in approximately 6 seconds</p>

		<p>Cassette Transport: Stepper motor</p> <p>Installation, training should be included</p> <p>1 Kit each for 1x96 test for 4-in-1 antibiotics and aflatoxin M1 should be included</p> <p>Must have Quality Certification</p>
14	Frost Free Double door (side by side) Refrigerator	<p>Pharmacy refrigerator is an upright double glass door refrigeration unit with electronic temperature controller. Automated defrost cycles facilitate frost-free storage interiors.</p> <p>CFC-free rapid fan cooling technology</p> <p>Digital control panel for temperature monitoring and alarms</p> <p>Sprayed steel interiors</p> <p>Temperature range: 2 °C ~ 8 °C</p> <p>Interior cabinet LED lighting</p> <p>Automatically charging for power battery backup</p> <p>Durable casters for mobility</p> <p>Network accessibility via USB interface</p> <p>Storage capacity 1000 L or better</p> <p>Wire shelves 10</p> <p>Temperature 2 °C ~ 8 °C</p> <p>Ambient temperature 10°C ~ 32°C</p> <p>Temperature sensor NTC</p> <p>Refrigerant R600a</p> <p>Evaporator Copper tube aluminum fin</p> <p>Condenser Tube type</p> <p>Noise 53 dB</p> <p>Must have Quality Certification</p>
15	Incubator (Ambient to 70 °C)	<p>A double-deck metal plate reinforced door with door open alarm</p> <p>The inner chamber is made out of stainless steel and easy to clean.</p> <p>Volume: 225 L or better</p> <p>Operating Temp Range: Room Temperature + 5°C... + 70°C</p> <p>Temp. Uniformity: ± 0,65 (37°C)</p> <p>Temp. Fluctuation: ± 0,65 (37°C)</p> <p>Temperature Setting: 0,1°C</p> <p>Ramping Time: 30 min.</p>

		Timekeeping Time: 99 hours, 59 min, 59 sec. Max. Number of shelves: 2 Must have Quality Certification
16	Incubator	Capacity (English) 2.6 cu. ft. Capacity (Metric) 75 L or better Chamber Material Stainless Steel Temperature Range (Metric) Ambient +5°C to 70°C No. of Shelves 2 supplied/ 05 max. Must have Quality Certification
17	Laminar Air Flow (4ft)	Vertical Laminar Flow Cabinet is a floor standing unit with an applicable station of two operators on both the sides provides an aseptic work area with vertical air flow direction. The air passed through a 0.3 µm HEPA filter is then discharged over the work area in a unidirectional stream providing a sterile working environment. Two operators applicable station Vertical laminar air flow direction High-efficient HEPA filter of over 0.3µm filtering ratio Enclosed stainless steel bench board to effectively prevent air flow and keep operator from pungent odour Class 100 cleanliness Low-noise fan and light touching blowing-rate operational key Adjustable multi-level blowing rate Operators Two Applicable stations Both Sides Cleanliness 100 grade $\geq 0.5 \mu\text{m}$ particle size Colony count ≤ 0.5 (Φ 90 mm cultivation utensil) Average wind speed 0.3 ~ 0.5 m/s (Adjustable)

		<p>Noise Level ≤ 62 dB</p> <p>Vibration and semi-peak numerical value ≤ 4 μm</p> <p>Luminance ≥ 300 lx</p> <p>Fluorescent Lamp 30 W</p> <p>U.V. Lamp 30 W</p> <p>Maximum power 0.8 kW</p> <p>Specification of HEPA Filter (2 pieces) 610 × 610 × 50 mm</p> <p>Must have Quality Certification</p>
18	Trinocular microscope	<p>Head: Trinocular Superwidefield w/ C-Mount with 5 MP Camera</p> <p>Eyepieces: 10x Eyepieces Superwidefield</p> <p>Nosepiece 6 Position</p> <p>Focusing: Coaxial coarse & fine adjustment</p> <p>Stage: Graduated mechanical XY stage</p> <p>Objectives: Plan Fluor 4x, 10x, 20x, 40x, 100x Oil Objectives</p> <p>Condenser: 1.25 N.A. Condenser</p> <p>Fluorescence: Fluorescence Attachment</p> <p>DAPI, FITC, TRITC Filter Cubes</p> <p>Light Source: 12v 100W Halogen</p> <p>Warranty: One Year Mechanical</p> <p>Must have Quality Certification</p>
19	Water purifier	<ul style="list-style-type: none"> - Resistivity Type 1: 18.2 Mohm.cm at 25°C; Type 2: 10 to 15 Mohm.cm at 25°C - Conductivity Type 1: 0.055 μS/cm, Type 2: 0.067 to 0.1 μS/cm - Feedwater Source Tap - Flow Rate 0.6 L/min.

		<ul style="list-style-type: none"> - Total Organic Carbon 1 to 5 ppb - Endotoxin Concentration 0.005 EU/mL - Bacterial Content <0.01 CFU/mL - Particles >0.2µM/mL <1 - Feed Water Monitoring No - Feedwater Pressure 1 to 6 bar - Operating Pressure 1 to 6 bar - Includes RO/pretreatment cartridge, an ultrapure polisher cartridge, sterile 0.2µm filter, pressure regulator, UV lamp and UF filter. <p>Must have Quality Certification</p>
20	Gel Electrophoresis A) Horizontal B) Vertical	<p>Gel Electrophoresis Horizontal unit dimension 27 x 17.5 x 10 cm (LxWxH), Silicone rubber prevents any leakage, UV Transparent whole unit included lid to monitor the movement of bands during Electrophoresis, easy lid removal, Run up to 40 samples at once complete system with UV Tray 10 x 15 cm, one Comb for 15 samples thickness 1.00 mm and one Comb for 20 samples thickness 1.00 mm with leads</p> <p>Electrophoresis Power Supply, compact, space saving & light weight design, touch panel, audible & visible alarm, status alarm, constant voltage or current, safety features include, no load detection, over voltage protection, automatic recovery after power failure, dimension 320x240x73mm, digital voltage range 10 - 300V in 1 Volt step, current 4-400 mA in 1mA steps 75-Watt max, design 4 parallel outputs, with timer control 0-999 minute.</p> <p>Vertical Gel Electrophoresis able to make and runs two gels simultaneously. Maximum gel size 8 x 11cm, gel thickness 0.75 mm, minimum buffer volume internal 250 ml, and</p>

		minimum buffer volume external 500 ml, gel tank dimension: 20 x 13 x 16.5cm. Injection moulded unit, compact design, complete unit includes Electrophoresis tank, casting module 2-set, glass plates 5-sets, 0.75mm spacer 4-Nos., 0.75 mm 10 teeth combs 2-Nos., one gel plate, alignment cord, Glass plate separator and instruction manual Must have Quality Certification
21	Milk Analyzer	Technology: Mid-Infrared & Ultrasonic (Hybrid) modules in a single unit Average time per one (1) measurement: 60 seconds or better The following parameters must be measured from the mid-infrared & ultrasonic hybrid technology without the use of chemicals: Milk Components: Fat, Solids Non-Fat (SNF), Milk density (CLR), Protein, Freezing Point, Added Water to Milk, Lactose Specific Adulterant Detection: Ammonium sulfate, Urea, Melamine, Nitrates (ammonium, potassium, sodium, etc.), Carbonates / Bicarbonates (ammonium, potassium, etc.), Added Water, Synthetic Milk (Veg. Oil, Urea, Detergent, Water), Non-milk Fat, Sweeteners (sucrose, maltodextrin), Non-specific adulterants: In case the milk has been contaminated with substantial volume of unknown adulterant the instrument could detect it. <ul style="list-style-type: none">• Color TFT Display with resistive touchscreen• Automatic cleaning of the IR module• No acids or other chemicals used• Data collection system• USB / Bluetooth / Wi-Fi / Ethernet interfaces• USB port with flash drive, keyboard & mouse support• Customized calibrations possible• Remote calibration and firmware update possible Optional modules for pH and conductivity measurements Ranges: Ammonium Sulfate 0.10 ± 0.05 (abs.) Urea 0.20 ± 0.05 (abs.) Melamine 0.10 ± 0.05 (abs.) Nitrates (ammonium, potassium, sodium,...) 0.05 ± 0.03 (abs.)

		<p>Carbonates/Bicarbonate (ammonium, potassium,...) 0.08 ± 0.05 (abs.)</p> <p>Added Water 20 ± 5 (abs.)</p> <p>Synthetic milk (veg. oil, urea, detergent, water) 20 ± 5 (abs.)</p> <p>Non-milk fat 1.5 ± 0.5 (abs.)</p> <p>Sweeteners (sucrose, maltodextrin) 0.9 ± 0.5 (abs.)</p> <p>Adulteration Detection (non-specific adulterants) In case the milk has been contaminated with substantial volume of unknown adulterant the instrument could detect it</p> <p>*Adulterants detection limit: in the range of milk fat 1.5% to 9%</p> <p>Parameters (Ultrasonic):</p> <p>Fat $0.5\% \div 12\% \pm 0.1\%$ (abs.)</p> <p>Solids non Fat (SNF) $6\% \div 12\% \pm 0.2\%$ (abs.)</p> <p>Milk Density $1.0200 \div 1.0400 \text{ g/cm}^3 \pm 0.0005 \text{ g/cm}^3$ (abs.)</p> <p>Protein $2\% \div 6\% \pm 0.2\%$ (abs.)</p> <p>Freezing Point $0 \div -1.000 \text{ }^\circ\text{C} \pm 0.015 \text{ }^\circ\text{C}$ (abs.)</p> <p>Added Water to Milk $0\% \div 60\% \pm 5\%$ (abs.)</p> <p>Lactose $0.5\% \div 7\% \pm 0.2\%$ (abs.)</p> <p>Must have Quality Certification</p>
22	ULT Freezer Chest (-80)	<p>Cooling liquid R404A / R508B or equivalent</p> <p>Cooling liquid classic cooling liquids</p> <p>Cooling type air cooling</p> <p>Heat output 720 W</p> <p>Number of shelves 3 shelves</p> <p>Insulation Vacuum insulation paneling / polyurethane foam</p> <p>Capacity 500L (18.9 ft³) or better</p> <p>No. of internal doors 3</p> <p>No. of compartments 3</p> <p>Max. racks per freezer 12</p> <p>Display classic interface</p> <p>Temperature range -50 °C to -86 °C</p> <p>Pull-down time to -80 °C</p> <p>CO2 backup system</p> <p>Must have Quality Certification</p>
23	Chemicals	Analytical, Microbiological and HPLC Grade Chemicals.
24	Digital Dispenser (10ml, 50ml, 100ml) Set	<ul style="list-style-type: none"> Precision piston to prevent liquid efflorescence

		<ul style="list-style-type: none"> • High chemical resistance • Fast volume setting via fine graduation • Easy to disassemble for cleaning and maintenance • With compatible caps included adapter <p>Must have Quality Certification</p>
25	TOP LOADING BALANCE	<p>Digital top loading Balance Uni-block technology, Fast Response, high stability, Readability: 0.001gm Capacity: 620gm Built in under weighing hook, Piece counting function built in, RS 232C Data interface, Over load protection, Windows direct function, No software required, Stainless steel pan 108x105mm with draft shield, operated on 220 volts, with built in printer</p> <p>Certification US FDA/ JIS /CE</p>
26	ANALYTICAL BALANCE	<ul style="list-style-type: none"> • Weighing capacity (maximum): 220 g • Readability: 0.1 mg • Repeatability: < ±0.1mg • Linearity: ± 0.2 m • Response time: 2 seconds average • Stabilizing time: 6 seconds average • Working temperature: +10 to +40 °C • Sensitivity drift: ±1.5 ppm/°C • Adjustment/ Calibration: Internal (Automatic) • Pan Size: not less than 85 mm in diameter • Display: LCD (backlit) • Power Supply: 12V DC / 220V AC

		<ul style="list-style-type: none">• Warranty: Five years of parts and service• Balance should have all glass draft shield with 3 sides opening (Left, Right, Top)• Balance should have overload protection• Balance should have standard weights set for calibration (1 to 200g)• With built in Printer <p>Certification US FDA/ JIS /CE</p>								
27	Vacuum Pumps and UV Lamps	<ul style="list-style-type: none">• Diaphragm Vacuum Pump• 100% oil-free transfer• Pure transferring, evacuation and compression of gases• Version for slightly aggressive or corrosive gases and vapors• Maintenance-free• Environmentally friendly• High level of gas tightness. <p>Technical Specifications:</p> <table><tr><td>Delivery minimum or better than</td><td>5.5 lit/min</td></tr><tr><td>Ultimate vacuum (mbar abs.)</td><td>160</td></tr><tr><td>Operating pressure (bar g)</td><td>2.5</td></tr><tr><td>Motor protection</td><td>IP 20</td></tr></table> <p>Operated on 220 Volts</p>	Delivery minimum or better than	5.5 lit/min	Ultimate vacuum (mbar abs.)	160	Operating pressure (bar g)	2.5	Motor protection	IP 20
Delivery minimum or better than	5.5 lit/min									
Ultimate vacuum (mbar abs.)	160									
Operating pressure (bar g)	2.5									
Motor protection	IP 20									
28	TDS meter	<p>TDS/Conductivity Meter Digital Bench Top</p> <p>Resolution: 0.001</p> <p>Memory: 1000 sets, most recent calibration data</p> <p>Display: white backlight liquid crystal Protection</p> <p>Class : Must compliant the good laboratory practices (EN)</p> <p>USB interface for simple data export to PC Printer</p> <p>Microprocessor Controlled with parallel temperature indication,</p>								

		<p>Conductivity Range 0.0 us/cm to 1000 ms/cm,</p> <p>Accuracy : $\pm 0.5\%$ - 1%</p> <p>Temperature Range -5.0 to +105.0 °C,</p> <p>Salinity 0.0-70.0,</p> <p>TDS 0-1999 mg/l,</p> <p>Reference Temperature 20 or 25 °C</p> <p>Selectable with following accessories.</p> <p>Conductivity Electrode with built in Temperature Sensor</p> <p>Electrode Stand with Base, Standard solution 50 ml</p> <p>Complete package operated on 220 Volts</p> <p>Must have Quality Certification</p>
29	Water Activity Meter	<p>Range: 0.030-1.000 aw or better</p> <p>Resolution: 0.0001 aw</p> <p>Accuracy: ± 0.003 (4TE dew point)</p> <p style="padding-left: 40px;">± 0.015 (4TEV capacitance)</p> <p>Repeatability: 0.001 aw</p> <p>Temperature</p> <p>Range: 15-50 °C</p> <p>Resolution: 0.01 °C</p>

		Accuracy: $\pm 0.1^{\circ}\text{C}$ Must have Quality Certification
30	Moisture Analyzer	<p>Larger pan size ($\varnothing 95\text{mm}$)</p> <p>Halogen heater / IR heater (quick & accurate measurement)</p> <p>Capacity: Max = 60g, Min = 0.02g or better</p> <p>Minimum readability: 0.001g, 0.01/0.1% (Selectable)</p> <p>Repeatability: 0.15% (2g), 0.05% (5g), 0.02% (10g)</p> <p>Drying heater: Straight type halogen heater</p> <p>Temperature range setting: $50\text{-}200^{\circ}\text{C}$ (1°C increments)</p> <p>Display: LCD with backlight</p> <p>Measurement modes: Standard, (Easy start / Automatic end / Timed end)</p> <p>Rapid drying, (Easy start / Automatic end / Timed end)</p> <p>Step drying, (Easy start / Automatic end / Timed end)</p> <p>Timer setting: 1-120 minutes or continuous, (max 12 hours)</p> <p>Interface: RS-232C (9-pin connector) I/O port, USB port</p> <p>Data memory: 100</p> <p>Must have Quality Certification</p>
31	Fume Hoods (4 ft Min)	<p>Ducted fume hood is a floor mounted unit with built-in microprocessor control system. Porcelain white provides unique appearance and corrosion resistant to the fume hood. Front thick transparent toughened glass gives bright and open working environment. Built-in axial flow blower controls air stream speed. Standard PVC exhaust duct removes toxic fumes and provides excellent chemical resistance.</p>

		<ul style="list-style-type: none"> → Adjustable air speed (9 Levels) → Two water proof socket → Manual front glass window (height adjustable) → Remote control water and gas → Anti-corrosive water tap → Phenolic resin coated work table (Chemical resistance) → Air velocity 0.3 m/sec ~ 0.8 m/sec → Front window 5 mm toughened glass → Exhaust duct length 4 meters → Exhaust duct diameter 250 mm → Noise ≤ 60 dB → Power consumption 360 W → Acid Base Cabinet <p>Must have Quality Certification</p>
32	EC conductivity bench meter	<p>TDS: 0 to 9950 ppm</p> <p>Resolution: Electric Conductivity Method: 0.01 mS/cm (0.00 to 1.99mS/cm) / 0.00 to 1000 mS/cm 2.0 to 19.9 mS/cm (0.1 mS/cm)</p> <p>TDS: 5ppm (0 to 995ppm) 50ppm (1000 to 9950ppm)</p> <p>Accuracy Electric Conductivity Method: ±0.04mS/cm (0.20 to 1.99mS/cm) ±0.4mS/cm (2.0 to 19.9mS/cm)</p> <p>TDS: ±20ppm(100 to 995ppm) ±200ppm(1000 to 9950ppm)</p> <p>Calibration: 12.9mS/cm</p> <p>Temperature compensation: 10.0 to 40.0°C</p> <p>Must have Quality Certification</p>

33	pH Meter	Range (pH) -2.00 to +16 Range (Relative mV) $\pm 2000.0\text{mV}$ Relative Humidity Range 5 to 85%, non-condensing Resolution (pH) 0.1, 0.01, 0.001 Resolution (mV) 0.1mV Resolution (Temperature) 0.1°C , 0.1°F Temperature Range (English) 22.0°F to 221.0°F Temperature Selection Manual or automatic with ATC temperature probe Complete with buffers solutions ATC probe and electrode holder Must have Quality Certification
34	High Speed Centrifuge machine (Refrigerated)	Max. rotor capacity: 24 x 1.5/2.0 mL, 6 x 50 mL, 2 x MTP > Max. speed: 30 Min 20000x g (Min 15,000rpm) or better It should have option for 12 different rotors Soft-touch one-finger lid closure for ergonomic operation 5 program keys for easy access to routine programs > Saves up to 50 user-defined programs Automatic imbalance detection Quick Lock - System for quickly opening and closing the rotor lid Acceleration time = 14s Deceleration time = 15s Temperature range -20 to +40 Timer = 30s to 99.59 hours with continuous run function. Noise Level = <58dB(A) Rotors Included= 24 x 1.5/2ml tubes, 6 x 15/50ml tubes and 96 x 0.2 ml pcr tubes Must have Quality Certification
35	Automatic Muffle Furnace	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. <ul style="list-style-type: none"> • 1200°C maximum operating temperature • Vacuum formed ceramic fiber heating elements ensure rapid heat up excellent temperature uniformity and quick cool down Max Temp ($^{\circ}\text{C}$) 1200°C Heat Zones: 1 Chamber Volume: 5 Lit or better Thermo Couple Type K

		With crucible high temperature gloves and tongs Must have Quality Certification
36	Laboratory Oven	Adaptive Multifunctional Digital PID-microprocessor Controller High-Definition TFT-Color Displays <ul style="list-style-type: none"> • Temperature range 5 °C above ambient up to +300 °C • Single DISPLAY • natural convection • adjustment of pre-heated fresh air admixture by air flap control in 10% steps for each segment individually • self-diagnostics for fault analysis • digital timer adjustable from 1 minute to 99 days, 23 hours • Multiple Overtemperature Protection with audible and visual alarm • Interior Stainless Steel & Textured Stainless Steel Casing • Capacity 50 Litre Must have Quality Certification
37	Multimode ELISA reader and plate washer	a) <u>MULTIMODE ELISA READER</u> Light source UV Xenon flashlamp Resolution of UV Wavelength Selection: Quad4 Monochromators system (2 excitation and 2 emission monochromators) Bandwidth Ex: < 5 nm for $\lambda \leq 315$ nm and < 9 nm for $\lambda > 315$ nm; Em: < 20 nm Wavelength range: Fluorescence intensity Ex 230 - 850 nm, Em 280 - 850 nm Absorbance 230 - 1000 nm Detectors: Fluorescence - PMT, UV and red-sensitive Absorbance - UV silicon photodiode Luminescence - photon counting system with low dark current PMT Plate formats 6- to 384-well plates, cuvettes, NanoQuant Plate Temperature control Ambient +5 °C up to 42 °C Shaking: Linear, orbital Luminescence sensitivity values:

		<p>Glow luminescence 3) 225 amol ATP / well (25 µl; low volume 384-well plate) Flash luminescence 4) 12 amol ATP / well (55 µl; 384-well plate)</p> <p>Absorbance: Ratio accuracy 260 / 280 nm \pm 0.07 Precision @ 260 nm < 0.2 % Accuracy @ 260 nm < 0.5 % Measurement range 0 - 4 OD or better</p> <p>Injectors: Pump speed 100 - 300 µl/s</p> <p>Injection volume selectable in 1 µl increments; max. volume: 800µl per stroke Dead volume 100 µl including pump back Fastest Read Times 96-well plate 20 sec 384-well plate 30 sec Wavelength Ex / Em-scan, 96-well plate 450 - 550 nm, 5 nm step 150 sec</p> <p>b) <u>ELISA PLATE WASHER</u> Display unit: Liquid crystal display with two rows of sixteen digits Keyboard: Four key membrane keyboard Number of dispensing channels 1, 2 or 4 channels Manifold types 8 or 16 way for parallel processing of 8 or 16 wells Variable Volume of solution dispensed 50 - 3000 µl in 50 µl steps for washing 50 - 400 µl in 50 µl steps for dispensing</p> <p>Dispensing accuracy \leq 1.2 % (300µl dispense volume, dispense rate: 3, 8-way manifold) Dispensing uniformity CV \leq 2.5 % over the plate (300µl dispense volume, dispense rate: 3, 8-way manifold) Residual volume Crosswise aspiration: \leq 1.8 µl per well (96-well, flat-bottom Greiner® plate) (Asp. Rate: 3; Asp. time: 4 sec; Head speed: 10 mm/sec; 8-way manifold)</p>
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		<p>Vacuum range High level vacuum filtration: -150 to -850 mBar absolute pressure Low level vacuum filtration: -50 to -150mBar absolute pressure</p> <p>Interface USB Shaking Linear shaking; high, medium and low setting Must have Quality Certification</p>
38	Rancimat	<ul style="list-style-type: none"> - Determination of the oxidation stability of foods, oils and fats - Analysis on whole sample, without preliminary fat separation - PC-controlled instrument - Based on ASTM D942 - IP 142 method <p>Technical Data: Pressure range: 0 - 8 bar Temperature range: from room temp. to 110°C or better Number of oxidation chambers: 2 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 Complete operated on 220 Volts Must have Quality Certification</p>
39	Ultrasonic bath sonicator digital	<ul style="list-style-type: none"> - Cavitation resistant stainless steel. - Casing made of stainless steel, - hygienic and easy to clean - Permanent sweep function for an optimised sound field distribution in the cleaning liquid. - Temperature-controlled ultrasonic operation. - Temperature setting between 30 C°, and 80C°, variable in 5 C°, steps. - Tank Min.(litre) = 5 - Ultrasound frequency (kHz) = 37 <p>Must have Quality Certification</p>
40	Solvent Filtration Assembly	<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</p>

		Approximate filter area is 9.6 cm ² Connection to our 1 liter filtration flask (available as an accessory) is made with a silicone stopper Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements Should include vacuum pump, oil less, vacuum adjustable and gauge Along with 47mm membrane filter aqueous/ non aqueous Pore size 0.45 micron (100 per pack) Must have Quality Certification	
41	Anaerobic Jar 1.5L~10L	Holder Packing size(L*W*H)	Gross weight
		1 stack of 6 dishes (φ9-10cm) 245*215*295mm 2.3kg φ=130mm, h=150mm; 1.5liter	15R
		1 stack of 12 dishes (φ9-10cm) 245*215*395mm 2.8kg φ=130mm, h=240mm; 2.5liter	25R
		1 stack of 18 dishes (φ9-10cm) 245*215*495mm 3.3kg φ=130mm, h=330mm; 3.5liter	15/25R
		3 stacks of 6 dishes (φ9-10cm) 370*370*340mm 5.9kg φ=240mm, h=120mm; 5liter	3/25R
		3 stacks of 8 dishes (φ9-10cm) 370*370*370mm 6.3kg φ=240mm, h=160mm; 7liter	3/25R
		3 stacks of 12 dishes (φ9-10cm) 370*370*470mm 7.3kg φ=240mm, h=230mm; 10liter	3/25R
		Must have Quality Certification	

42	Automated glassware washer	<p>Glassware washing machine is a fully automated CPU SCM controlled laboratory glassware cleansing unit. It is characterized with excellent washing and anti-bacterial thermal disinfection with blast drying function. The inbuilt piping systems with effective valves and pumps enable efficient spray cleaning and heat sterilization.</p> <p>Digital LCD touch screen promotes visual monitoring and operational accessibility</p> <p>Real time display of washing temperature and drying air temperature</p> <p>316 L stainless steel double walled internal structure</p> <p>Insulated anti-corrosive external structure</p> <p>One touch 6 preset cleaning procedures (washing, rinsing, ultrasound rinsing, blast drying, washing temperature, drying temperature)</p> <p>Automatic power off by temperature control relay</p> <p>Automatic alarm indication on absence of washing liquid and distilled water</p> <p>→ Heating system power 3000 W</p> <p>→ Drying system power 2000 W</p> <p>→ Ultrasonic power 500 W</p> <p>→ Maximum operating power 3500 W</p> <p>→ Ambient temperature 5 °C ~ 40 °C</p> <p>→ Relative humidity < 85 %</p> <p>Must have Quality Certification</p>
43	Gerber Centrifuge	<p>Max RPM 1100rpm or better</p> <p>Max RCF 350×g</p> <p>Max Capacity 8×20ml</p> <p>Time Range 1min~99min</p> <p>Temp Range +24°C~60°C</p> <p>Noise Level ≤ 60dB(A)</p> <p>Rotor Diameter Φ230mm</p> <p>Must have Quality Certification</p>
44	Refractometer (Automatic Benchtop)	<p>Measuring ranges Refractive index scale (RI)</p> <p>Range nD 1.30 to 1.66</p> <p>Resolution nD ± 0.0001</p> <p>Accuracy nD 1) ± 0.0001</p> <p>Measuring ranges Brix scale</p> <p>Range 0 to 100 %</p>

		Resolution 0.01 % Accuracy 0.05 % Automatic temperature compensation Light source LED light source Must have Quality Certification
45	Viscometer	Rotational viscometer for fast determination of viscosity <ul style="list-style-type: none"> • Speed selected: rpm • Spindle used: Spindle Reference • Dynamic viscosity: mPas or CP • Full scale percentage: % • Sample temperature: °C or °F • Auto range to display • Viscosity limits: mPas or CP Two different versions are available “L” for low to medium viscosity and “R” for medium to high viscosity. Measured values are shown in a chart and can be saved in Excel format for posterior evaluation. Must have Quality Certification
46	Density Meter	Measuring range Density 0 g/cm ³ to 3 g/cm ³ Temperature 0 °C to 100 °C (32 °F to 212 °F) Pressure up to 10 bar (145 psi) absolute pressure Accuracy Density 0.0001 g/cm ³ Temperature 0.03 °C (0.05 °F) Repeatability Density 0.00001 g/cm ³ Temperature 0.02 °C (0.04 °F) Reproducibility Density 0.00005 g/cm ³ Digital resolution Density 0.0001 g/cm ³ Automation Automatic sample changers Modularity pH, alcohol, CO ₂ , O ₂ , color

		Optional accessories Aerosol Adapter, Heating Attachment Wetted materials PTFE, borosilicate glass Must have Quality Certification
47	Micro Filtration Assembly	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 ² Connection to our 1 liter filtration flask (available as an accessory) is made with a silicone stopper Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements Should include vacuum pump, oil less, vacuum adjustable and gauge Along with 47mm membrane filter aqueous/ non aqueous Pore size 0.45 micron (100 per pack) Must have Quality Certification
48	Automatic electronic Pipettes i. 0.5 - 10ul ii. 1-20ul iii. 2-100ul iv. 10-200ul v. 15-300ul vi. 50-1000ul	<ul style="list-style-type: none"> • Adjustable volume pipettes for highest flexibility • Ability to recharge on a charging stand. • All pipetting parameter visible • Option to automatically recall the last 10 parameters setting • Automatically returns the piston to start position after tip ejection to the pipette ready for the next aspiration step • It should include with a charging stand for upto 4 pipette at a time • Should include tips (WITH STARTER PACKS 1000PCS) Must have Quality Certification
49	Auto Titrators/ Potentiometric titrator	<ul style="list-style-type: none"> • exchangeable units for storing all relevant reagent and unit data. • electrodes guarantees accurate calibration and measurements. • touch sensitive glass keypad • 3 USB and 2 RS-232 ports allow to connect e.g. USB keyboards, USB printers, USB storage media, stirrer, balance, PC • pH/mV measuring input with reference input

		<ul style="list-style-type: none"> • Wireless electrode recognition • Dead stop measuring input (2 x 4 mm socket) • Temperature measuring input (2 x 4 mm socket) • Titration to mV and pH endpoint 2 EP • Dynamic and linear titration to equivalence point (EQ), mV and pH 2 EQ • Especially suitable for non-aqueous titration • pH-stat titration • Manual titration • Preparation of solvents (manual or automatic with connected balance) • Formulae for miscellaneous calculations • Standard methods 50 <p>Technical details</p> <p>Measuring input 1 (analog) pH/mV with reference electrode input : pH/mV-input with 24 bit transducer Electrode socket according to DIN 19 262 or additional with BNC socket insert RFID receiver electrodes</p> <p>Measuring range pH - 3.0 to 18.00</p> <p>Display resolution pH / Accuracy pH (without sensor probe) 0.001 / 0.002 ± 1 Digit</p> <p>Measuring range mV - 2000 to 2000</p> <p>Display resolution mV / Accuracy mV (without sensor probe) 0.1 / 0.1 ± 1 Digit</p> <p>Display 3.5 inches -1/4 VGA TFT display with 320 x 240 pixels</p> <p>Dosing accuracy according DIN EN ISO 8655, part 3</p> <p>Accuracy : 0.15 %</p> <p>Precision: 0.05 - 0.07 % (Depending on the used interchangeable unit)</p> <p>Operated on 220 Volts, Complete With 10ml burette Complete</p> <p>Must have Quality Certification</p>
50	Digital Burette	<ul style="list-style-type: none"> • Continuous, pulse-free dispensing technology • Recirculation valve with valve lever • Voltage supply with long-life battery and battery status indicator • Dispensing range 0.1 to 999.9 ml or better • Electronic control pad can be removed as a unit. • Visible discharge tube, horizontal 142 - 220 mm, vertical 10 - 200 mm and rotatable by 360 degree.

		<ul style="list-style-type: none"> • With compatible caps included adapter or equivalent to GL 32, GL 38, GL45 and S 40 Must have Quality Certification
51	Micropipette	Adjustable volume pipettes Adjustable dispensing volumes within a range of 0.5 µL and 1 mL Selected volume is clearly displayed in the large 4-digit volume display High accuracy and precision, robustness quality and fantastic ergonomic design Good chemical & UV-light resistance Pipette ranges: 0.5-10ul, 10-100ul, 20-200ul, 30-300ul and 100-1000ul. Should be Autoclave able Must have Quality Certification
52	Analytical Balance	Must have programmable multi-functional touch-free sensors for cleanliness, speed and safety Must have multiple applications modes plus library for storage of personal application settings External calibration Must support application: Weighing (Multiple units + custom units), parts counting, % weighing, filling, Differential weighing, Density determination, Pipette adjustment, Gross/Net/Tare weighing Display must be colored high Resolution Construction must be of Metal Base, Acrylonitrile butadiene styrene (ABS) top housing, stainless steel pan, anti-static glass draft shield with flip door, replaceable in use cover Over load protection mechanism Must have fully automatic internal calibration system Must have four digit measurement <ul style="list-style-type: none"> • Range 0.1 to 110g or better • Readability: 0.01 mg, • max Linearity: ± 0.2 mg • Adjustment: Internal • Warranty: 3 years preferably 5 years along with calibrated standards and parts

		<ul style="list-style-type: none"> • Service Warranty: 3 years preferably 5 years <p>Must have Quality Certification</p>
53	Ultrasonic bath sonicator digital	<p>Extremely powerful mixing and cleaning Fully adjustable power - 7 levels from 30% - 100% 4 modes: cleaning, dissolving, degassing, intense mixing/cleaning Dual frequency - 37 kHz standard, 80 kHz delicate Convenient digital display of all parameters Must have Quality Certification</p>

TECHNICAL SPECIFICATIONS
LIST OF CATEGORY (C) EQUIPMENT AND TECHNICAL & PERFORMANCE SPECIFICATIONS

1	Multimedia Projector	<p>Make & model Lumens 5,000 lumens (normal) or higher Display Technology 3LCD Contrast ratio 15000:1 or higher Lamp Life 250 W, 4,000 h durability (Normal) or higher Native Resolution WUXGA, 1920 * 1200 16:10 Ports 1) HDMI (At least 2) 2) VGA (At least 2) 3) USB (At least 1) or higher Sound System 16 Watt or higher Full Function Required Remote Key Stone Horizontal & vertical : $\pm 30^\circ$ Network Control Required: Wired and wireless LAN capable, Network administration and projection. Network Interface RJ-45 Accessories VGA Cable, Main Unit, Power Cable, Remote control incl. batteries.</p> <p>Software Support Monitor / control / projection Warranty 36 months with parts & labor; lamp = 12months with Installation On site</p>
2	Still Camera	<p>Versatile multimedia camera with a well-rounded photo and video feature-set. Sporting improved focusing, recording, and sharing capabilities, Still revolves around the proven 24.1MP APS-C CMOS sensor and DIGIC 8 image processor, which enable a quick 10 fps shooting rate, a native sensitivity range of ISO 100-25600, and UHD 4K video recording at 23.98 fps, along with Full HD 1080p60 and HD 720p120 for slow motion capture. Sensor-based Dual Pixel CMOS AF has been improved with faster speeds and refined Eye Detection AF performance, and supports both Eye Detection and Face Detection focusing modes when working with Movie Servo AF to help keep sharp focus on the subject matter. Additionally, Combination IS 5-axis image stabilization also helps to realize steady, shake-free recording by minimizing the appearance of camera shake.</p> <p>24.1MP APS-C CMOS Sensor DIGIC 8 Image Processor UHD 4K and HD 720p120 Video Recording Dual Pixel CMOS AF with Eye Detect AF 2.36m-Dot OLED Electronic Viewfinder 3.0" 1.04m-Dot Vari-Angle Touchscreen Wi-Fi and Bluetooth; Webcam Capability Extended ISO 51200, 10 fps Shooting Combination 5-Axis Image Stabilization EF-M 15-45mm f/3.5-6.3 IS STM Lens</p>

		Must have Quality Certification
3	Movie Camera	Mirrorless Digital Camera with 18-135mm Lens <ul style="list-style-type: none"> • 24.2MP APS-C Exmor CMOS Sensor • BIONZ X Image Processor • XGA Tru-Finder 2.36m-Dot OLED EVF • 3.0" 921.6k-Dot Tilting Touchscreen LCD • Internal UHD 4K Video & S-Log3 Gamma • S&Q Motion in Full HD from 1-120 fps • 5-Axis Steady Shot INSIDE Stabilization • 4D FOCUS with 425 Phase-Detect Points • Up to 11 fps Shooting and ISO 51200 • E 18-135mm f/3.5-5.6 OSS Lens Sigma 16mm f/1.4 DC DN Contemporary Mount Lens E-Mount Lens/APS-C Format 24mm (35mm Equivalent) Aperture Range: f/1.4 to f/16 3 FLD, 2 SLD, and 2 Aspherical Elements Super Multi-Layer Coating Stepping AF Motor Rounded 9-Blade Diaphragm Weather-Sealed TSC Construction Must have Quality Certification
4	Computer/Printers with central work station	a. Desktop Computer Tower Casing (Branded) Desktop Computer Tower, Intel® Core TM i7-9700 (8 Cores /12MB /8T/3.0GHz to 4.8GHz/65W); supports Windows 10/Linux equivalent or higher. Memory 16GB (2x8GB) RAM DDR4 Hard Disk (i) 3.5-inch 512 GB 7200rpm SATA Hard Disk Drive (ii) Secondary Storage M.2 256GB PCIe NVMe Solid State Drive (Build in Slot) Graphics Intel HD Graphics 630 Optical Drive Multiformat DVD Writer

		<p>Operating System Pre-installed Microsoft Windows 10 Pro (64 bit)</p> <p>Accessories Key Board, Mouse Power Cable</p> <p>Display 21" FHD IPS display 60Hz</p> <p>Warranty NOTE: 03 Year Parts/Labour Local warranty for all components on site.</p> <p>b) Laptop</p> <p>Hardware Specification (HP/Dell/Lenovo Branded)</p> <p>Processor Intel® Core™ i7 11th Generation</p> <p>RAM 16 GB</p> <p>Hard Disk 512 GB SSD</p> <p>Display 15.6" FHD LED</p> <p>Operating System Pre-installed Microsoft Windows 10 Pro (64 bit)</p> <p>Graphics Intel HD Graphics</p> <p>Warranty NOTE: 03 Year Parts/Labour Local warranty for all components on site.</p> <p>c) MFP Printer</p> <p>Print Technology: Laser Jet</p> <p>Duplex Printing: Auto</p> <p>Processor: 1.2 Ghz or higher</p> <p>Memory: 512 MB or higher</p> <p>Connectivity/ Interfaces: 1 x USB ports or more (High-speed/ Host), 1 x Gigabit Ethernet</p> <p>Paper Handling</p> <ul style="list-style-type: none"> • Size: A4/ Legal/ Letter • Input: 100 sheets Output: 100 sheet or above <p>First Page Out: 7.5 Sec or less</p> <p>Print:</p> <ul style="list-style-type: none"> • Speed: 20 PPM or higher (A4, B&W) • Resolution: up-to 600 x 600 or higher <p>Scan:</p> <ul style="list-style-type: none"> • Type: Flatbed and ADF • Speed: 77 PPM or higher
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		<ul style="list-style-type: none"> • Resolution: 600 dpi or higher <p>Copy: Resolution: 600 dpi or higher' Speed: 20 CPM or above OS Support: Compatible with Windows / Linux / Accessories: USB Cable, Power Cable, Toner and other allied accessories</p> <p>d) Printer (Mobile Lab) Print speed Up to 19 ppm First page out (ready) black As fast as 8.1 sec Resolution (black) Up to 600 x 600 dpi Monthly duty cycle Up to 8000 pages Print Technology Laser Display LED Processor speed 500 MHz Automatic paper sensor Yes Paper trays 1 input tray Mobile Printing Capability yes Connectivity Hi-Speed USB 2.0 port; built-in Wifi 802.11b/g/n Compatible operating systems Windows® 10, 8.1, 8, 7: 32-bit or 64-bit, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer. Memory 16 MB Supported network protocols TCP/IP: IPv4; IPv6; IP Direct Mode; LPD; SLP; Bonjour; WS-Discovery; BOOTP/DHCP/AutoIP; SNMP v 1/2/3; HTTP/HTTPS Paper handling input 150-sheet input tray Paper handling output 100-sheet output bin Media sizes supported A4; A5; A6; envelopes (C5, DL); custom Power 110V - 127V nominal @ +/-10% (min 99V, max 140V), 50 - 60Hz nominal +/- 3Hz (min 47Hz, max 63Hz) Power consumption 210 watts (active printing), 2.2 watts (ready), 0.4 watts (sleep), 0.1 watts (Manual-off), 0.1 watts (Auto-off/Manual-on), 0.4watts (Auto-off/Wake on USB) Energy efficiency ENERGY STAR® qualified; EPEAT® Silver Warranty One-year Local Dimensions Maximum (W X D X H) 13.6 x 13.7 x 11 in Weight 8.4 lb</p>
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		Cable included Yes, 1 USB Cable Must have Quality Certification
5	Photocopier	Multi-Function Digital Photocopier Printing with Wi-Fi. Scanning (600 dpi minimum) Toner life Minimum 40,000 pages Portable (with wheels) Speed: 40Pages/Minute of 80 gram paper. Higher Drum Life 500,000 copies 2 GB RAM, Standard, HDD Capacity 320 GB encrypted Control Panel 9-inch Color Touch LCD Panel USB Memory Printing Standard High image quality with 1,200 x 1,200 dpi print resolution. Paper Size: A3 Duplex- Standard, DSDF (Dual scanner document feeder) Standard paper capacity of 2 x 500-sheet universal paper cassette, 100-sheet multipurpose tray (all paper sizes) Power Supply 220-240V Single component Technology One year warranty card (manufacturer), Two years' service warranty free of cost
6	UPS	Power rating Not less than 3000VA - Online Type Rack Mountable Input / Supply 160 - 260 Single phase Input frequency 50Hz - 60Hz automatic detection Output supply voltage 200 - 230V Output frequency 50Hz Cord length 1 meter Battery Sealed - Maintenance free lead acid with over 5 years lifetime Transfer Time Less than 5 ms Backup time Minimum hours on full load Recharge Time 5-6 hours to 90% capacity Warranty 1-year comprehensive onsite warranty with one to one backup in case of workshop attention requires. (Labor and Parts)

		Protection and surge protection.	Over voltage protection, Lightning, Short Circuit
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TECHNICAL SPECIFICATIONS

LIST OF CATEGORY (D) EQUIPMENT AND TECHNICAL & PERFORMANCE SPECIFICATIONS

1	Sonicators, Stirrers, Desiccators, Mortar and Pestles	<p><u>Sonicators/ Ultrasonic Cleaning Bath with Plastic Lid</u></p> <p>Product description:</p> <ul style="list-style-type: none">- Cleaning tank made of cavitation-resistant stainless steel.- Casing made of stainless steel, <p>Hygienic and easy to clean</p> <ul style="list-style-type: none">- Permanent sweep function for an optimized sound field distribution in the cleaning liquid.- Temperature-controlled ultrasonic operation:- Splash water-proof operating panel.- Temperature setting between 30C°, and 80C°, variable in 5C°, steps.- Automatic switch-off after 12 h operation to prevent unintended permanent operation. <p>Technical Specifications:</p> <ul style="list-style-type: none">- Tank Capacity max = 5.75 lit- Tank internal dimensions = 300x 151x 150mm Or Approx.- Ultrasound frequency (kHz) = 37 or better- Mains voltage variants = 220 V <p><u>HOT PLATE WITH STIRRER</u></p> <p>Ceramic Top plate,</p> <p>Extremely resistant to corrosion</p> <p>Dimension (mm) 180 x 180mm, ceramic coated,</p>
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		<p>Temperature range up to 550° C, Stirring volume up to 15 Lit</p> <p>Electronic speed regulation up to 1500 rpm</p> <p>Stirrer and digital temperature,</p> <p>Heating power 800W,</p> <p>Operating on 220 Volts</p> <p>Specifications for Mortar & Pestle</p> <table><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><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></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																								
2	Hot plate	<p>Temperature range upto 340° C or better</p> <p>Uniform distribution to whole surface and high resistance to Chemical Agents</p> <p>Temperature Controller Energy regulator</p> <p>Electric supply 220V</p> <p>Must have Quality Certification</p>																												
3	Magnetic stirrer + Hot plate digital	<p>Temperature range: up to 340° C</p> <p>Variable Speed Control: upto 1500rpm or high</p> <p>Heating Plate Ø: 155mm,</p> <p>Stirring capacity: 15 liter or better</p> <p>With temperature sensor probe</p> <p>Must have Quality Certification</p>																												

4	Mechanical Shaker	<p><u>Orbital Shaker Digital/Mechanical Shaker</u></p> <p>Compact, flat laboratory shakers available with orbital motion, adjustable timer, digital display of speed, protected against overload and intrinsically safe operation</p> <p>Shaking motion: orbital</p> <p>Shaking movement: 20 mm</p> <p>Speed range infinitely</p> <p>Adjustable: 30 - 500 rpm</p> <p>Load Capacity: 5kg</p> <p>Speed display: Digital</p> <p>Complete with Platform capacity to hold flask</p> <p>Must have Quality Certification</p>
5	Water bath (Digital Thermostatic)	<p>Capacity 20 L or better</p> <p>Temperature range RT+5 °C to 99 °C</p> <p>Temperature fluctuation ± 1.5 °C</p> <p>Temperature homogeneity ± 1 °C</p> <p>Must have Quality Certification</p>
6	Test tube shaker (Vortex mixer)	<p>Heavy Vortex high speed mixer with brushless motor, digital display and optional attachments.</p> <p>Motor: brushless DC motor</p> <p>Kind of motion: orbital, 4 mm</p> <p>Speed range: 300 - 4200 rpm Speed accuracy: ± 10 rpm</p> <p>Max. Loading Capacity: 500g or better</p>

		<p>Display: Digital Speed / Time Setting</p> <p>Switch: ON / OFF / Touch</p> <p>Pulse mode (default): vibration for 5 secs than pause for 5 secs.</p> <p>Pulse mode (programme) vibration time & pause time can be defined by user between 1 to 99 secs.</p> <p>Timer: 1 to 999 mins. & continuous mode</p> <p>Must have Quality Certification</p>
7	Vortex mixer	<p>Bench top with variable speed control</p> <p>Vortexing speed from 0 to 2500rpm or better</p> <p>Touch mode and continuous modes of operation</p> <p>Orbit: 4.9 mm</p> <p>Speed Knob: Variable 1 to 10 dial marks</p> <p>Standard warranty</p> <p>Must have Quality Certification</p>
8	Circulating water bath	<p>Capacity (Metric), 20 to 30 L or better</p> <p>Controller Type, Digital</p> <p>Description, 35L Circulating Water Bath</p> <p>Heating Capacity, 1500 w</p> <p>Includes, 1 Stainless Steel Gable cover and Rubber Duck</p> <p>Material 304 Stainless Steel</p> <p>Temperature Presets 4</p> <p>Temperature Stability, $\pm 0.1^{\circ}\text{C}$</p> <p>Temperature Uniformity, $\pm 0.05^{\circ}\text{C}$</p> <p>Must have Quality Certification</p>

9	Glassware drying cabinet	<p>Presents an optimized range of drying cabinets for laboratory glassware</p> <p>Easy to use and have functional and practical equipment</p> <p>Performance:</p> <p>drying cabinets are used to dry and store glassware at a maximum temperature of 60° C</p> <p>Working volume: 800 liters or better</p> <p>Stainless steel shelves:</p> <p>Quantity of shelves (provided/maximum): 3/12</p> <p>Max load on shelf/total: 40/200kg</p> <p>Number of doors: 2</p> <p>Must have Quality Certification</p>
10	PPE's and Lab Safety Equipments	<p>Front Face protection shield with head cover</p> <p>Laboratory coat</p> <p>Nitrile Gloves</p> <p>Safety glasses</p> <p>Fire extinguisher</p> <p>First aid kit</p> <p>Must have Quality Certification</p>
11	Glassware (Beakers, Flasks, Cylinders, Pipettes etc.)_PYREX	<p>Beaker</p> <p>PYREX</p> <p>Borosilicate Glass</p> <p>10 mL, 20 mL, 50 mL, 100 mL, 250 mL, 500 mL, 1000 mL</p> <p>Graduated cylinder</p>

		<p>PYREX</p> <p>Borosilicate Glass</p> <p>10 ml, 25 ml, 50 ml, 100 ml, 250 ml, 500 ml</p> <p>Funnel</p> <p>PYREX</p> <p>Borosilicate Glass</p> <p>50mm, 75mm, 90mm</p> <p>Conical Flask</p> <p>PYREX</p> <p>25 mL, 50 mL, 100mL, 250mL, 500mL</p> <p>Volumetric flasks</p> <p>PYREX</p> <p>50 mL, 100mL, 250mL, 500mL, 1000 mL, 2000 mL</p> <p>Gooch Crucible</p> <p>Material: PYREX</p> <p>Porosity (40 to 60 μm)</p> <p>For higher temperatures, use electric furnace: Maximum</p> <p>Glass Graduated Pipette</p> <p>1 ml, 2 ml, 5ml, 10ml, 15ml, 20 ml, Dropper with Big Rubber Cap Dropping Lab Pipette</p> <p>Transfer for Liquid Essential Oil</p> <p>Micro Pipette</p> <p>0.2-2 μL, 1-10 μL, 2-20 μL , 20-100 μL</p>
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		<p>Burettes:</p> <p>burette, straight stopcock, accuracy: ± 0.03 mL, clear borosilicate glass 3.3 (Schellbach stripes, PTFE spindle)</p> <p>automatic and high accuracy</p> <p>Size: 10, 25, 50, 100mL</p> <p>Glass Petri Dish and Disposable / Reusable Petri Plates</p> <p>25mm, 50mm, 100mm, 150mm diameter</p> <p>Must have Quality Certification</p>
12	Fire Sprinkler System	Different capacity and types of Fire Extinguishers

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.
- 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:
 - a) 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
 - b) 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:
 - a Valid Income Tax Registration
 - b Valid General Sales Tax Registration
 - c Bidder must be active taxpayer and listed as an active taxpayer on the respective websites of relevant taxation authorities.
 - d 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 Two valid certificates 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 Two mandatory valid certificates 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**”.

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.

Sample Evaluation:

Samples of equipment in Category (B, C & D) proposed 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, data sheet of equipment.

Please Note: Samples provided by the bidders 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.

iv. Bidder's / firms Experience:

a Specific 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.

b General 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. In similar business, experience will be counted from day of registration.

The Certificate should NOT be older than 03 years.

v. Delivery Schedule:

Procuring Agency requires all the equipment to be delivered within -Five (45) days from the day of the award of the contract or issuance of Purchase Order.

vi. 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.

Technical Evaluation of the bid has been allotted 70 marks / score to Category (A, B, C, D). Bids will be scored for 70 points. To qualify the technical evaluation minimum 70% or (49) marks must be achieved to qualify for financial evaluation.

$$= (70 \times 70) \div 100 = 49$$

Technical Evaluation Weight	70%
Financial Evaluation Weight	30%
Total	100%

SCORING AND WEIGHING PRINCIPLES

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 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 ± 0.2 and the offered equipment/ item Accuracy ± 0.1 same will be considered exceeding requirement*

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 = $[\text{Lowest quoted Price of the item} \div \text{Next higher proposed Price of the competing item}] \times \text{Total allocable financial score}$

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

SNO	CATEGORY	Total Score / Marks	CRITERIA FOR SCORE	SCORES
i	Quality	18		
a	Product Quality (Any Two valid certificates shall be provided for Category A items) as a mandatory requirement		a. Proposed equipment registered & certified with international quality & standards accreditation body. (21 CFR compliance / 510K, CEMDD, JIS Ministry of health Labor & Welfare.	Mandatory
		04	Third certificate for issued to quoted model will be awarded extra marks	04
b	Compliance/Conformity with requirements	10	a. Fully compliance to the specifications / requirements with advertised specifications.	10
			For every minor deviation 0.5 marks will be deducted. Upto maximum (04) minor deviations shall be allowed.	
			Any Major deviation in the required specifications will be technically disqualified.	
			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. (0.5 marks for each deviation will be deducted).	

c		04	Additional feature/s in the offered specifications of the quoted item will be awarded an additional (01) marks up to maximum (05) marks	04
ii	Company's / Bidders capacity & Capability	26		
a	Manufacturer Performance	06	a. Valid ISO 13485 Medical Devices Quality Management Systems Certificate issued from IAF accredited body.	02
			b. Valid OSHAS 18001 / ISO 45001 Occupational Health & Safety Series from IAF accredited body.	02
			c. Valid ISO 9001 Quality Management Certificate of the firm from PNAC / IAF accredited body.	02
b	Financial Capabilities	02	a. Audit reports of last consecutive 2 years submitted showing 100 million or above annual revenue / turnover	02
			b. Audit reports of last consecutive 2 years submitted showing Rs.50 to Rs.99.9 million annual revenue / turnover	01
			c. Audit reports of last consecutive 2 years submitted showing Less than Rs.50 million annual revenue / turnover	0
		04	a. Annual Sales & Income tax returns for last four years submitted	04
			b. Annual Sales & Income tax returns for last three years submitted	03
			c. Annual Sales & Income tax returns for last two years submitted	02
			d. Annual Sales & Income tax returns for last one years submitted	01

c	After Sale Product / Bidder Local Performance	05	a. One mark for each 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 and receiving/ Delivery Challan from public sector Institutes/ Semi Government or Private organizations of Pakistan	05
d	Firm Evaluation Parameters Personnel/Human Resource	09	a. Diploma of Associate Engineer (DAE) in electrical / electronic / biomedical / mechatronics / mechanical / industrial. DAE certificate must be submitted. (0.5 mark for each certificate)	2
			b. Graduate Engineer with PEC Registration in electrical / electronics, biomedical / mechatronics / mechanical / industrial. PEC registration card of the engineer must be submitted. (1 mark for each Engineer)	3
			c. BSc (hons) Electronics / MSc Electronics / B-Tech (hons) in electrical / electronic / biomedical / mechatronics mechanical / industrial. Degree of BSc / MSc / B-Tech (hons) must be submitted. (0.5 mark for each)	2
			d. Factory trained technical staff on the quoted Products. (To be verified from the visa, passport & Travelling history). (1 mark for each staff)	2
iii	Workshop facility Testing/ Calibration tools of Equipment	06	Availability of workshop in Pakistan to be verified with Ownership / Rent Agreement with Owner / Rent Agreement with Company Name.	Mandatory Requirement

			a. List of related tools available at workshop. Details shall be submitted with technical bid. (List Attached in BSD)	02
			b. List of Testing and Calibration tools for the quoted items available at workshop. Details shall be submitted with technical bid.	02
			c. Detail of Spare parts availability at workshop for the quoted items. Details shall be submitted with technical bid.	02
iv	Bidder's / firms Specific Experience	10	a. 05 supply completion certificates with all relevant documents submitted are provided issued by purchaser of Semi Government and / or Government Departments for supplying same goods under same nature and / or scope of contract.	10
			b. 04 supply completion certificates with all relevant documents submitted are provided issued by purchaser of Semi Government and / or Government Departments for supplying same goods under same nature and / or scope of contract	08
			c. 03 supply completion certificates with all relevant documents submitted are provided issued by purchaser of Semi Government and / or Government Departments for supplying same goods under same nature and / or scope of contract	06
			a. 02 supply completion certificates submitted with all relevant documents are provided issued by purchaser of Semi Government and / or Government Departments for supplying same goods under same nature and / or scope of contract	04
			b. 01 supply completion certificates with all relevant documents submitted are provided issued by purchaser of Semi Government and / or Government Departments for supplying same goods under same nature and / or scope	02

			of contract	
			c. "Zero" (0) score will be awarded for no submission by the bidder.	0
v	Bidder's / firms General Experience	10	a. 05 supply completion certificates with all relevant documents submitted issued by purchaser of Semi Government and / or Government Departments for supplying similar goods under similar nature and / or type of contract.	10
			b. 04 supply completion certificates with all relevant documents submitted issued by purchaser of Semi Government and / or Government Departments for supplying similar goods under similar nature and / or type of contract	08
			c. 03 supply completion certificates with all relevant documents submitted issued by purchaser of Semi Government and / or Government Departments for supplying similar goods under similar nature and / or type of contract	06
			d. 02 supply completion certificates with all relevant documents submitted issued by purchaser of Semi government and / or Government Departments for supplying similar goods under similar nature and / or type of contract	04

			e. 01 supply completion certificates with all relevant documents submitted issued by purchaser of Semi Government and / or Government Departments for supplying similar goods under similar nature and / or type of contract	02
			f. Zero (0) score will be awarded for no submission by the bidder.	0
	Total Weight: Criteria (i + ii + iii + iv + v) =	70		

Note: The Procuring Entity shall inspect the premises 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.

TECHNICAL EVALUATION CRITERIA FOR CATEGORY-B EQUIPMENT / ITEMS				
SNO	CATEGORY	Total Score / Marks	CRITERIA FOR SCORE	SCORES
i	Quality	20		
a	Product Quality (Minimum One valid certificates shall be provided for Category B items)		a. Proposed equipment registered & certified with international quality & standards accreditation body. (21 CFR compliance / 510K, CEMDD, JIS Ministry of health Labor.	Mandatory
		5	Two certificates for issued to quoted model will be awarded extra marks (2.5 Marks per certificate)	5
b	Compliance/Conformity with requirements	10	a. Fully compliance to the specifications / requirements with advertised specifications.	10
			For every minor deviation 0.5 marks will be deducted. Up to maximum (04) minor deviations shall be allowed.	
			Any Major deviation in the required specifications will be technically disqualified.	
			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. (0.5 marks for each deviation will be deducted).	
		05	Additional feature/s in the offered specifications of the quoted item will be awarded an additional (01) marks upto maximum (05) marks.	05

ii	Sample Evaluation	16	Best evaluated Sample on basis of physical/ performance and fully adherence to Specification, Physical appearance, user friendly, compatibility with Software, LIMS, Maintenance & Operational Cost.	
			a) Excellent (Fully adherence the advertised specifications and accuracy in performance of the Equipment)	16
			b) Very Good (Fully adherence the advertised specifications and accuracy in performance of the Equipment)	12
			c) Good (Fully adherence the advertised specifications and accuracy in performance of the Equipment)	08
b	Financial Capabilities	06	a. Audit reports of last consecutive 2 years submitted showing 100 million or above annual revenue / turnover	02
			e. Audit reports of last consecutive 2 years submitted showing Rs.50 to Rs.99.9 million annual revenue / turnover	01
			f. Audit reports of last consecutive 2 years submitted showing will be. Less than Rs.50 million annual revenue / turnover	0
			e. Annual Sales & Income tax returns for last four years submitted	04
			f. Annual Sales & Income tax returns for last three years submitted	03
			g. Annual Sales & Income tax returns for last two years submitted	02
			h. Annual Sales & Income tax returns for last one years submitted	01

c	After Sale Product / Bidder Local Performance	05	b. One mark for each 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	05
d	Firm Evaluation Parameters Personnel/Human Resource	07	e. Diploma of Associate Engineer (DAE) in electrical / electronic / biomedical / mechatronics / mechanical / industrial. DAE certificate must be submitted. (0.5 mark for each certificate)	01
			f. Graduate Engineer with PEC Registration in electrical / electronics, biomedical / mechatronics / mechanical / industrial. PEC registration card of the engineer must be submitted. (1 mark for each Engineer)	03
			g. BSc (hons) Electronics / MSc Electronics / B-Tech (hons) in electrical / electronic / biomedical / mechatronics / mechanical / industrial. Degree of BSc / MSc / B-Tech (hons) must be submitted. (0.5 mark for each)	01
			h. Factory trained technical staff on the quoted Products. (To be verified from the visa, passport & Travelling history). (1 mark for each staff)	02
iii	Workshop facility Testing/ Calibration tools of Equipment	06	Availability of workshop in Pakistan to be verified by physical i Ownership / Rent Agreement with Owner / Rent Agreement with Company Name.	

			d. List of related tools available at workshop. Details shall be submitted with technical bid. (List Attached in BSD)	02
			e. List of Testing and Calibration tools for the quoted items available at workshop. Details shall be submitted with technical bid.	02
			f. Detail of Spare parts availability at workshop for the quoted items. Details shall be submitted with technical bid.	02
5	Bidder's / firms Specific Experience	05	g. 05 supply completion certificates submitted are provided issued by purchaser of Semi Government and / or Government Departments for supplying same goods under same nature and / or scope of contract.	10
			h. 04 supply completion certificates submitted are provided issued by purchaser of Semi Government and / or Government Departments for supplying same goods under same nature and / or scope of contract	08
			i. 03 supply completion certificates submitted are provided issued by purchaser of Semi Government and / or Government Departments for supplying same goods under same nature and / or scope of contract	06
			j. 02 supply completion certificates submitted are provided issued by purchaser of Semi Government and / or Government Departments for supplying same goods under same nature and / or scope of contract	04
			k. 01 supply completion certificates submitted are provided issued by purchaser of Semi Government and / or Government Departments for supplying same goods under same nature and / or scope of contract	02

			l. "Zero" (0) score will be awarded for no submission by the bidder.	0
5	Bidder's / firms General Experience	05	g. 05 supply completion certificates submitted issued by purchaser of Semi Government and / or Government Departments for supplying similar goods under similar nature and / or type of contract.	10
			h. 04 supply completion certificates submitted issued by purchaser of Semi Government and / or Government Departments for supplying similar goods under similar nature and / or type of contract	08
			i. 03 supply completion certificates submitted issued by purchaser of Semi Government and / or Government Departments for supplying similar goods under similar nature and / or type of contract	06
			j. 02 supply completion certificates submitted issued by purchaser of Semi Government and / or Government Departments for supplying similar goods under similar nature and / or type of contract	04
			k. 01 supply completion certificates submitted issued by purchaser of Semi Government and / or Government Departments for supplying similar goods under similar nature and / or type of contract	02
			l. Zero (0) score will be awarded for no submission by the bidder.	0
	Total Weight: Criteria (i + ii + iii + iv + v) =	70		

Note: The Procuring Entity shall inspect the premises 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.

Technical Evaluation Criteria for Category-C (ICT Equipment)				
Sno	CATEGORY	Total Score / Marks	CRITERIA FOR SCORE	SCORES
1	Warranty	10	a. Minimum Two-year Local Warranty for replacement of parts provided as per requirements specified.	10
			b. Minimum One Year Local Warranty for replacement of parts provided as per requirements specified.	05
			a. One-year International Warranty for replacement parts provided as per requirements specified.	02
			b. Less than One year Local or International Warranty for replacement parts provided.	00
2	Compliance/Conformity with requirements	15	Full compliance to the specifications / requirements with advertised specifications.	10
			For every minor deviation 0.5 marks will be deducted. Up to maximum (04) minor deviations shall be allowed.	
			Any Major deviation in the required specifications will be technically disqualified.	
			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. (0.5 marks for each deviation will be deducted).	
			Additional feature/s in the offered specifications of the quoted item will be awarded an additional (01) marks upto maximum (05) marks.	5
3	Sample Evaluation	20	Best evaluated Sample on basis of physical/ performance and fully adherence to Specification, Physical appearance, user friendly, compatibility with Software, LIMS, Maintenance & Operational Cost.	

			Excellent (Fully adherence the advertised specifications and accuracy in performance of the Equipment)	20
			Very Good (Fully adherence the advertised specifications and accuracy in performance of the Equipment)	15
			Good (Fully adherence the advertised specifications and accuracy in performance of the Equipment)	10
4	Financial Capabilities	05		
a	Audit reports	05	a. Audit reports of last consecutive 3 years.	05
			b. Audit reports of last consecutive 2 years.	03
			c. Audit reports of last year.	01
5	After Sale Service	10		
A	Location of office	05	a. Established office within Peshawar.	05
			b. Established office within Khyber Pakhtunkhwa	03
			c. Established office outside Khyber Pakhtunkhwa within Pakistan	01
b	Availability of After Sale Service Facility	05	a. Established mechanical workshop facility within Peshawar.	05
			b. Established mechanical workshop facility within Khyber Pakhtunkhwa	03
			c. Established mechanical workshop facility outside Khyber Pakhtunkhwa within Pakistan.	01
6	Bidder's / firms Experience	05	a. 05 supply Completion Certificate are provided issued by Semi Government / Government Departments for supply of quoted goods will be submitted.	05
			b. 04 supply Completion Certificate are provided issued by Semi Government / Government Departments for supply of quoted goods will be submitted	04
			c. 03 delivery Completion Certificate are provided issued by Semi Government / Government Departments for supply of quoted goods will be submitted	03
			d. 02 delivery Completion Certificate are provided issued by Semi Government / Government Departments for supply of quoted goods will be submitted	02

			e. 01 delivery Completion Certificate are provided issued by Semi Government / Government Departments for supply of quoted goods will be submitted	01
			f. For No submission "Zero" (0) score will be awarded.	00
7	Delivery Schedule	5	a. Delivery date confirmed within 90 days from award of contract.	5
			b. Delivery date confirmed within 120 days from award of contract	3
			c. For Delivery date beyond 120 days "Zero" (0) score will be awarded.	0
Total		70		

Evaluation Criteria for the Purchase of Category D Items for FY 2021-2022

Firm Name:

Bid Reference No:

Sno	CATEGORY-D	WEIGHT
1	Product Performance	
A	Conformity to the specification and physical Evaluation of Samples	40
B	Total compliance with specification given in statement of Requirement subject to the fulfillment of the physical Evaluation of Samples by the Inspection Committee. Excellent Sample	40
C	Total compliance with specification given in statement of Requirement subject to the clearance on sample test by the Inspection Committee. Good Sample	30
D	Total compliance with specification given in statement of Requirement subject to the clearance on sample test by the Inspection Committee. Satisfactory Sample	20
E	Sample rejected by inspection committee or low-quality sample provided, the firm will be considered as non-responsive for the quoted item and no marks will be awarded.	0
2	Manufacturer's Performance	10
A	Valid CE Certificate of the manufacturer for the quoted items.	2
B	Valid FDA for the quoted items.	2
C	Valid JIS / MHLW of the manufacturer for the quoted items.	2
D	Valid ISO 9001 Quality Management Certificate from PNAC accredited body. Certificate from IAF accredited body for imported items.	2
E	Valid ISO 14001 Environmental Certificate from PNAC accredited body. (The certificate must be issued to the manufacturer plant in case of local manufacturer). Certificate from IAF accredited body for imported items.	2
3	After Sale Past Performance	12

A	One mark for each after sale satisfactory performance certificate (verifiable) of the firm 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
B	One mark for each after sale satisfactory performance certificate (verifiable) of the firm on letter head of private medical institution / hospital for the quoted item. The hospital must be recognized from Pakistan Medical Commission (PMC). The satisfactory performance certificate of non-recognized institution from PMC will not be considered. Performance certificate shall be coupled with supply order / purchase order from teaching level private sector medical institution.	6
4	Warranty	Mandatory (No Score)
	One year warranty for all items will be provided	
5	Firm Financial Strength	8
A	Annual Sales tax returns for last three years (1 mark for each year).	3
B	Annual Income tax returns for last two years (1 mark for each year).	2
C	Last three years Audited Balance Sheet Duly attested by Chartered Accountant. Marks will be allocated on the basis revenue annual turnover, 30 Mor above will be awarded 3 marks in last 3 years. Rs.20 to Rs.29.9M will be awarded 2 marks in last 3 years. Less than Rs.20M will be awarded 1 mark.	3
6	Office / Workshop facility	
A	Availability of office / workshop in Khyber Pakhtunkhwa to be verified with Ownership / Rent Agreement with Owner/ Rent Agreement with Company Name.	
	Total Score	70

Bidder's Declaration

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Requirements and Terms and Conditions: 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"/>	Ethics: 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"/>	Conflict of interest: 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"/>	Prohibitions, Sanctions: 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"/>	Bankruptcy: I/We have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings.
<input type="checkbox"/>	<input type="checkbox"/>	Offer Validity Period: 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 authorised 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 2021-2022**
(Maximum Allocable Marks Score = 70 marks)

Technical Evaluation Criteria for the Purchase of Category-A Equipment for FY 2021-2022

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

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

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 dis-qualification 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.

Sno	Name of the Bidding Firm:	
1.	<p>Please indicate whether the firm is:</p> <ul style="list-style-type: none"> a. Manufacturer, or b. Importer, or c. Both Manufacturer and importer. d. Authorized Agent/Dealer/Distributor <p>For various items Offered for this bidding competition.</p>	
2.	<p>Please indicate the category/ies under which the Firm is applying for bidding</p> <ul style="list-style-type: none"> a. Machinery & Equipment b. Instrument/ other laboratory supply. c. others 	

3.	<p>Please provide names, attested copies of CNICs , two recent attested photographs , valid street addresses in Pakistan, all landline and mobile phone numbers of:</p> <ul style="list-style-type: none"> a Owner/Proprietor of the Firm. b Managing Director / CEO of the Firm; c Focal person officially made responsible and authorized by the Firm for day-to-day 	
	<p>official Correspondence with Project Director DG, DC & PS.</p> <ul style="list-style-type: none"> d (Please provide clear, legible and visible attested photocopies of all the requisite items mentioned items) 	
4.	<p>Please provide the following valid information:</p> <p>Regarding applicant Firm: Complete street address of the:</p> <ul style="list-style-type: none"> a. Head Office b. Main warehouse; and c. Valid & working official Landline Phone and d. Fax Numbers; and e. Mobile phone numbers of the Focal Person registered against his /her CNIC No. And name; and f. Valid and functional Email address; g. Official Website address /es 	

5.	<p>a. 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 & Pharmacy Services, Peshawar. Non- provision of bid Security shall render the bid as non -responsive.</p> <p>b. 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 sealed envelope of the financial bid to the Project Director Directorate General Drug control & Pharmacy Services, Peshawar.</p>
6.	<p>Please provide attested copies of the following Tax related mandatory documents:</p> <p>a National Tax Number (NTN) of the Firm (FTN) for Income Tax b Last year Income Tax Return of the Firm; and</p> <p>c Sales Tax Registration Certificate of the Firm; and Certificate of Professional Tax</p>
7.	<p>In case of being manufacturer, the Firm should provide attested copies of the following mandatory documents also:</p> <p>a Duly attested copy of valid Certificate from Chamber of Commerce of the respective country</p>
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 attested by the Embassy concerned.</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 ² 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.		

²**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) Technical enclosures for each equipment / ITEM PROPOSE (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. <i>(Compulsory)</i>		
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 24th, March, 2021 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

FINANCIAL BID FORM (PRICE SCHEDULE)

Note: This form must cover all the costs associated to deliver the goods and services on such as, on Delivered Duty Paid (DDP) basis. The respective costs of each goods & services must be separately provided in the following manner.

Item	Description	Quantity	Rate (Pak. Rs.) DDP Basis	
			Unit Rate	Total
	TOTAL (DDP Price) (in figures & words)			

Official Stamp: -----

PERFORMANCE SECURITY FORM

To: Khyber Pakhtunkhwa Food Safety & Halal Food Authority

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: Directorate General

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]