



University of Kamalia

UNIVERSITY OF KAMALIA

A Public Sector University Established under Government of the Punjab Act XVII of 2022

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DIRECTORATE OF PRUCHASE & STORES

TENDER DOCUMENTS

FOR THE “PROCUREMENT OF LAB EQUIPMENTS FOR ALLIED HEALTH SCIENCES” AT UNIVERSITY OF KAMALIA



University of Kamalia

Submission Deadline	Opening Date & Time	Venue
09-03-2026 (11:30AM)	09-03-2026 (12:00 PM)	Admin meeting room, University of Kamalia

DIRECTOR PURCHASE,
UNIVERSITY OF KAMALIA, RAJANA ROAD,
KAMALIA, PUNJAB PAKISTAN
OFFICE CONTACT NO. 046-3411191
(TREASURER@UKM.EDU.PK)



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SECTION-I: INVITATION TO BIDS

TENDER NOTICE UNIVERSITY OF KAMALIA

The University of Kamalia intends to procure the items listed below. Interested and eligible firms that are duly registered with the **Electronic Pakistan Acquisition and Disposal System (e-PADS)** and with the Income Tax and GST authorities are invited to submit their bids exclusively through **e-PADS**. Bids must be submitted on or before **09 March 2026 at 11:30 a.m.** The bids will be opened on the same day at **12:00 p.m.** at the University of Kamalia, in the presence of the bidders' authorized representatives.

Sr. #	Description	Estimated Amount (in Rupees)	Bid Security (2% Estimated Amount)
1	Procurement of Lab equipment for Allied health sciences	Rs. 26,000,000/-	Rs. 520,000/-

TERMS AND CONDITIONS

- Detailed Bidding documents are available immediately on the websites of University of Kamalia <https://ukm.edu.pk> and Punjab Procurement Regulatory Authority <http://ppra.punjab.gov.pk> after publication of tender notice.
- The bidder shall download the bidding documents from the above websites and participate in the procurement process without paying any cost or fee as per PPRA rules.
- Bids should be submitted through **e-PADS (Electronic-Pak Acquisition and Disposal System)** and the same should be opened online as per above mentioned schedule. Only e-bids submitted through e-PADS shall only be entertained / accepted.
- Bidders are advised to ensure uploading the **Bid on e-PADS Portal**, well before the submission deadline, and not wait for the last date and time to upload the bid. Bid submission on e-PADS Portal shall entirely be the responsibility of the bidder. University of Kamalia shall not be held responsible for any issues thereof.
- Scheduled Bank CDR (Refundable) is required as Bid Security.
- The bidder shall submit hardcopy of the financial instrument in addition to the scan copy uploaded at e- PADS as bid security 2% of the estimates in the form of CDR in favor of Treasurer, University of Kamalia, well before the closing date and time otherwise bid shall not be entertained.
- In case of official holiday on the day of submission, next day will be treated as closing date.
- For all correspondence, please use postal address, **Director Purchase, University of Kamalia, Kamalia, District Toba Take Singh, Punjab, Pakistan.**
- Purchase will be made under PPRA (Punjab) rule 38(2)(a) "single stage two envelope procedure" as amended from time to time.**
- All Firms shall have to follow all terms and conditions issued by University of Kamalia and PPRA (Punjab) from time to time.

DIRECTOR PURCHASE,

University of Kamalia, Kamalia, Punjab Pakistan
Office Contact No. 046-3411191



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Section-II: Instructions to Bidders (ITB):

- All procurement procedures shall be conducted strictly in accordance with the Punjab Procurement Authority Act, 2009 and the Punjab Procurement Rules, 2014. In the event of any conflict or inconsistency between the provisions of this document and the Punjab Procurement Authority Act, 2009 and/or the Punjab Procurement Rules, 2014, the provisions of the Act and Rules shall prevail. Furthermore, all bidders are required to submit item-wise rates for each item as specified in the bidding documents.

2.1. INTRODUCTION		
SR. #	SUB-SECTION	DESCRIPTION
2.1.1.	Scope of Bid	i) The Procuring Agency (PA), as indicated in the Bid Data Sheet (BDS) invites Bids for the provision of Goods as specified in the Section-IV Bid Data Sheet (BDS) and Section III - Technical Specifications & Section VII- Schedule of Requirements. The successful Bidders will be expected to deliver, install/ commissioning) the goods within the specified period and timeline(s) as stated in the BDS.
2.1.2.	Source of Funds	i) The Procuring Agency named in the Bid Data Sheet has received budget from the Government of Punjab/own funding. The Procuring Agency intends to apply the provided funds/ a portion of this budget to make eligible payments under the contract for which the Invitation to bids has been issued.
2.1.3.	Eligible Bidders	<p>i) The Invitation to Bids is open to all suppliers i.e. association of firms/companies/sole proprietor/ general order suppliers/ JVs, registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax, Sales Tax & Punjab Sales Tax etc.) except as provided hereinafter.</p> <p>ii) Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consultancy 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 to Bids [if applicable].</p> <p>iii) Government-owned enterprises may participate only if they are duly/legally authorized in this regard by the respective/relevant competent forum/authority.</p> <p>iv) Bidders shall not be under a declaration of blacklisting by the Procuring Agency.</p> <p>v) In the case of a Joint Venture, Consortium, or Association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The Joint Venture, Consortium, or Association shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of contract.</p>



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		<p>vi) The appointment of Lead Member in the Joint Venture, Consortium, or Association shall be confirmed by submission of a valid JV or Consortium agreement to the Procuring Agency.</p> <p>vii) Any agreement that forms a Joint Venture, Consortium or Association shall be required to be submitted as part of the Bid and shall be attested.</p> <p>viii) Any bid submitted by the Joint Venture, Consortium or Association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated or post qualified with respect to its contribution only and the responsibilities of each party and shall not be substantially altered without prior written approval of the Procuring Agency and in line with any instructions issued by the Authority.</p> <p>ix) The invitation for Bids is open to all prospective Supplier, Manufacturers or Authorized Agents/Dealers/Distributors subject to any provisions or licensing/regulatory requirements issued by the respective National/ Provincial Professional Statutory Body established for that particular trade or business as mentioned in bid data sheet.</p> <p>x) A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be non-responsive. A Bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if they:</p> <ul style="list-style-type: none"> (a) Are associated or have been associated for the procurement of the goods to be purchased under this Invitation for Bids, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used. (b) Have controlling shareholders in common; or (c) Receive or have received any direct or indirect subsidy from any of them; or (d) Have the same legal representative for purposes of this Bid; or (e) Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or <p>xii) A Bidder may be ineligible if –</p> <ul style="list-style-type: none"> (f) The Bidder is declared bankrupt or, in the case of company or firm, insolvent;
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		<p>(g) Payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting, in accordance with the national laws, in the total or partial loss of the right to administer and dispose of its property;</p> <p>(h) Legal proceedings are established against such Bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property;</p> <p>(i) The Bidder is convicted, by a final judgment, of any offence involving professional conduct;</p> <p>(j) The Bidder is debarred and blacklisted due to involvement in corrupt and fraudulent practices in accordance with the provision of section 17A of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014.</p> <p>(k) The Bidder is debarred and blacklisted from Procuring agency (University of Kamalia) due to consistent performance failure in accordance with the section 17A of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014.</p> <p>xiii) Bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.</p> <p>xiv) Bidders shall provide such evidence of their continued eligibility satisfactory to the Procuring Agency, as the Procuring Agency shall reasonably request.</p> <p>xv) Bidders shall submit proposals relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to more than ten percent of the Bid price is envisaged.</p>
<p>2.1.4.</p>	<p>Eligible Goods and Services</p>	<p>i) All goods and related services to be supplied under the Contract shall have their origin in eligible source countries, defined in the <i>Bid Data Sheet (BDS/Technical Specification)</i>, and all expenditures made under the contract will be limited to such goods and related services.</p> <p>ii) 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 is obtained that is substantially</p>



		<p>different in basic characteristics or in purpose or utility from its components.</p> <p>iii) The origin of goods and services is distinct from the nationality of the Bidder. <i>In any case, the requirements of Rules 10 & 26 of PPR-14, shall be followed.</i></p>
2.1.5.	Cost of Bidding	<p>i) The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Procuring Agency named in the Bid Data Sheet, hereinafter referred to as “the Procuring Agency,” will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.</p>
2.1.6.	One person one bid	<p>i) As per Rule 36A of Punjab Procurement Rules 2014, a Bidder shall submit only one Bid in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.</p> <p>ii) No Bidder can be a sub-contractor while submitting a Bid individually or as a member of a joint venture in the same Bidding process.</p> <p>iii) A Bidder, if acting in the capacity of sub-contractor in any Bid, shall not submit bid for the same.</p>
2.2. The Bidding Documents		
2.2.1.	Content of Bidding Documents	<p>i) The goods required, Bidding procedures, and contract terms are prescribed in the Bidding documents. The Bidding documents, inter alia, include:</p> <ul style="list-style-type: none"> (a) Invitation to Bids (b) Instructions to Bidders (ITB) (c) Technical Specifications (d) Bid Data Sheet (e) General Conditions of Contract (GCC) (f) Special Conditions of Contract (SCC) (g) Schedule of Requirements (h) Bid Form (i) Manufacturer’s Authorization Form (j) Bidder Profile Form (k) General Information Form (l) Affidavit (m) Bid Security Form (n) Technical Bid Form (o) Contract Form (p) Financial Bid Form / Price Schedule (q) Performance Guarantee Form (r) Check List <p>ii) The Bidder is required to examine all instructions, forms, terms, and specifications in the Bidding documents. Failure to furnish all information as required by the Bidding documents or to submit a Bid not responsive to the Bidding documents in every respect will be at the Bidder’s risk and may result in the rejection of its Bid.</p> <p>iii) In case of discrepancies between the Invitation to Bid and the Bidding Documents listed in ITB 2.2.1 (i) above, the said Bidding Documents, not in conflict with any provision of PPR-14, will take precedence.</p>



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		<p>iv) The Procuring Agency is not responsible for the completeness of the Bidding Documents and their addenda, if they were not obtained directly from the Procuring Agency or from its website or website of PPRA. Re-confirming from the Procuring Agency that all pages/ contents have been properly and clearly received is the prime responsibility of the Bidder</p>
<p>2.2.2.</p>	<p>Clarification of Bidding Documents</p>	<p>i) A prospective Bidder requiring any clarification of the Bidding documents may notify the Procuring Agency through in writing or by email at the Procuring Agency's address indicated in Invitation to Bid/ Tender Notice/ Advertisement. The Procuring Agency will respond in writing to any request for clarification of the Bidding documents which it receives no later than seven (7) days prior to the deadline for the submission of Bids prescribed in the Bid Data Sheet. Written copies of the Procuring Agency's response (including an explanation of the query but without identifying) will be sent to all prospective Bidders that have received the Bidding documents.</p> <p>ii) A prospective Bidder requiring any clarification of the Bidding Documents may notify the Procuring Agency in writing or in electronic form that provides record of the content of communication at the Procuring Agency's address indicated in the BDS.</p> <p>iii) The Procuring Agency will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than seven (7) days prior to the deadline for the submission of Bids.</p> <p>iv) Should the Procuring Agency deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB 2.2.3.</p> <p>v) If indicated in the BDS, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned in the BDS. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding Documents.</p> <p>vi) Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective Bidders who have obtained the Bidding Documents and by uploading same on the website of the procuring agency. Any modification to the Bidding Documents that may become necessary as a result of the pre-Bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to ITB 2.2.3. Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.</p>



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2.2.3.	Amendment of Bidding Documents	<p>i) At any time prior to the deadline for submission of Bids, but not later than three (3) days before the closing date of the submission of Bid, the Procuring Agency, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the Bidding documents by amendment. Any such change/amendment in the Bidding documents shall be provided in a timely manner, preferably through electronic means also, not later than three (3) days, and on equal opportunity basis as per Rule-25(3) OR Rule 25(4) of PPR-14 as the case may be.</p> <p>ii) In order to allow prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Agency, at its discretion, may extend the deadline for the submission of Bids, as per rule 29 of PPR-14, in the manner similar to the original advertisements, so as to avoid any inconvenience and to doubly ensure level playing field for all prospective bidders.</p>
2.3. Preparation of Bids		
2.3.1.	Language of Bid	<p>i) The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Agency shall be written in the language specified in the Bid Data Sheet. Supporting documents and printed literature furnished by the Bidder may be in same language.</p>
2.3.2.	Bid Form	<p>i) The Bidder shall complete the Bid Form and the appropriate Price Schedule (Financial Bid) furnished in the Bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.</p>
2.3.3.	Bid Prices	<p>i) The Bidder shall indicate on form 8.10 the unit prices (where applicable) and total Bid price of the goods it proposes to supply under the contract.</p> <p>ii) Prices indicated on the Price Schedule shall be item wise.</p> <p>iii) The Bidder's separation of price components in accordance with ITB Clause 2.3.3(ii) above will be solely for the purpose of facilitating the comparison of Bids by the Procuring Agency and will not in any way limit the Procuring Agency's right to contract on any of the terms offered.</p> <p>iv) 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 non-responsive and may be rejected.</p>
2.3.4.	Bid Currencies	<p>i) Prices shall be quoted in Pak Rupees for local/DDP items unless otherwise specified in the Bid Data Sheet.</p>
2.3.5.	Documents Establishing Bidder's Eligibility and Qualification	<p>i) Pursuant to ITB Clause 2.1.3, 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.</p> <p>ii) The documentary evidence of the Bidder's eligibility to Bid shall establish to the Procuring Agency's</p>



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		<p>satisfaction that the Bidder, at the time of submission of its Bid, is eligible as defined under ITB Clause 2.1.3.</p> <p>iii) The documentary evidence, of the Bidder's qualifications to perform the contract if its Bid is accepted, shall establish to the Procuring Agency's satisfaction:</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 [<i>Manufacturer's Authorization form No. 8.3</i>] or producer to supply the same in Pakistan;</p> <p>(b) that the Bidder has the financial, technical, and production capability necessary to perform the contract;</p> <p>(c) that, in the case of a Bidder not doing business within Pakistan, 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>(d) that the Bidder meets the qualification criteria listed in the Bid Data Sheet.</p>
<p>2.3.6.</p>	<p>Documents Establishing Goods' Eligibility and Conformity to Bidding Documents</p>	<p>i) Pursuant to ITB Clause 2.1.4, the Bidder shall furnish, as part of its Bid, documents establishing the eligibility and conformity to the Bidding documents of all goods and related services which the Bidder proposes to supply under the contract.</p> <p>ii) The documentary evidence of the eligibility of the goods and services shall consist of a statement in the Price Schedule/Financial Bid Form 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> <p>iii) The documentary evidence of conformity of the goods and services to the Bidding documents may be in the form of literature, drawings, 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 Agency; and</p> <p>(c) an item-by-item commentary on the Procuring Agency's Technical Specifications demonstrating responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.</p> <p>iv) For purposes of the commentary to be furnished, the Bidder shall note that standards for workmanship,</p>



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		<p>material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring Agency in its Technical Specifications, are intended to be descriptive only and not restrictive.</p> <p>v) Where a sample(s) is required by a procuring agency, the sample shall be:</p> <p>(a) submitted as part of the bid, in the quantities, dimensions and other details requested in the BDS;</p> <p>(b) carriage paid;</p> <p>(c) received on, or before, the closing time and date for the submission of bids; and</p> <p>(d) Evaluated to determine compliance with all characteristics listed in the BDS.</p> <p><i>{However, the procuring agency may also opt to ask for samples after submission of technical bids (where require)}</i></p> <p>vi) The Procuring Agency may retain the sample(s) of the successful Bidder till the successful delivery of the goods. A Procuring Agency may reject the Bid if the sample(s)-</p> <p>(a) do(es) not conform to all characteristics prescribed in the bidding documents; and</p> <p>(b) is/are not submitted within the specified time clearly mentioned in the Bid Data Sheet.</p> <p>vii) Where it is not possible to avoid using a propriety article as a sample, a Bidder shall make it clear that the propriety article is displayed only as an example of the type or quality of the goods being Bided for, and that competition shall not thereby be limited to the extent of that article only.</p> <p>viii) Samples made up from materials supplied by a Procuring Agency shall not be returned to a Bidder nor shall a Procuring Agency be liable for the cost of making them.</p> <p>ix) All samples produced from materials belonging to an unsuccessful Bidder may be kept by the Procuring Agency till thirty (30) days from the date of award of contract or exhaust of all the grievance forums (including those pending at Authority's Level or in some Court of Law).</p> <p>x) Pursuant to the requirements as indicated in ITB 2.3.6, the Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all goods and related services which the Bidder proposes to deliver.</p> <p>xi) The Bidder shall also furnish a list giving full particulars, including available sources and current prices of goods, spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified in the BDS following commencement of the use of the goods by the Procuring Agency.</p> <p>xii) The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation attested by the embassy in country of</p>
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		<p>manufacturer into English shall be attached to the original version.</p>
2.3.7.	Bid Security	<p>i) The Bidder shall furnish, as part of its Bid, a Bid security in the amount specified in the Bid Data Sheet.</p> <p>ii) The Bid security is required to protect the Procuring Agency against the risk of Bidder's conduct which would warrant the security's forfeiture Pursuant to ITB Clause 2.3.8. (vii).</p> <p>iii) The Bid security shall be in Pakistan Rupees and shall be in one of the following forms:</p> <p>(a) Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker's cheque valid for 180 (One hundred and eighty days).</p> <p>iv) Any Bid not secured in accordance with ITB Clauses 2.3.8 (i) and (ii) may be rejected by the Procuring Agency as non-responsive.</p> <p>v) Unsuccessful Bidders' Bid security will be discharged or returned as promptly as possible.</p> <p>vi) The successful Bidder's Bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 2.6.1, and furnishing the Performance Guarantee, pursuant to ITB Clause 2.6.2.</p> <p>vii) The Bid security may be forfeited:</p> <p>a. If a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Bid Form; or</p> <p>b. In the case of a successful Bidder, if the Bidder:</p> <p>i. Fails to sign the contract in accordance with ITB Clause 2.6.3; or</p> <p>ii. Fails to furnish Performance Guarantee in accordance with ITB Clause 2.6.2; or</p> <p>iii. If the blacklisting proceedings under Section-17A of PPRA Act, 2009 read with Rule-21 of PPR-14 are initiated and the bidder is declared blacklisted after due process of law.</p>
2.3.8.	Period of Validity of Bids	<p>i) Bids shall remain valid for the period specified in the Bid Data Sheet after the date of Bid opening prescribed by the Procuring Agency. A Bid valid for a shorter period may be rejected by the Procuring Agency as non-responsive.</p> <p>ii) In exceptional circumstances, the Procuring Agency may solicit the Bidder's consent to an extension of the period of validity (as per rule-28 of PPR-14). The request and the responses thereto shall be made in writing (or by email). The Bid security provided under ITB Clause 2.3.8 shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security. A Bidder accepting the request will not be required nor permitted to modify its Bid.</p>
2.3.9.	Format and Signing of Bid	<p>i) 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</p>



		<p>OF BID,” as appropriate. In the event of any discrepancy between them, the original shall prevail.</p> <p>ii) The Bidder shall authorize a person/ persons for signing, submission and further correspondence with Procuring Agency on behalf of bidder. Authority letter must be part of bid. However, in case of any issue bidder shall be responsible for all consequences.</p> <p>iii) 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 duly authorized to bind the Bidder to the contract. All pages of the Bid, shall be signed and stamped by the authorized person.</p> <p>iv) Any interlineation, erasures, or overwriting shall be valid only if they are initialed by the authorized person for signing the Bid.</p> <p>v) 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 duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid, shall be signed and stamped by the authorized person.</p> <p>vi) Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person or persons signing the Bidder.</p> <p>vii) 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.</p>
2.4. Submission of Bids		
2.4.1.	Submission of Bids	<p>i) The Bidder shall submit technical and financial bids on e-Pads on/before the closing time and date of the tender.</p> <p>a.</p>
2.4.2.	Deadline for Submission of Bids	<p>i) The Bids will be submitted electronically on e-Pads on/before deadline of the tender.</p> <p>ii) The firm will submit Bid Security and affidavit of no blacklisting physically at the office of the Director Purchase before/on deadline of tender.</p>
2.4.3.	Late Bids	<p>i) As all bids are submitted through e-pads and are uploaded electronically by bidder. The CDR and Affidavit of no blacklisting are received at Procurement agency. Late submission of these will not be accepted.</p>
2.4.4.	Modification and Withdrawal of Bids	As per PPRA Rules and provision on e-Pads
2.5. Opening and Evaluation of Bids		
2.5.1.	Opening of Bids by the Procuring Agency	<p>i) The Procuring Agency will open all Bids, in public, in the presence of Bidders’ or their representatives who choose to attend, and other parties with a legitimate interest in the Bid proceedings at the</p>



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		<p>place, on the date and at the time through e-pads, specified in the BDS. The Bidders' representatives present shall sign a register/attendance sheet as proof of their attendance.</p> <p>ii) Bidders are advised to send in a representative with the knowledge of the content of the Bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent Bidder's representative shall indemnify the Procuring Agency against any claim or failure to read out the correct information contained in the Bidder's Bid.</p> <p>iii) No Bid will be rejected at the time of Bid opening.</p> <p>iv) The Procuring Agency shall prepare minutes of the Bid opening. The record of the Bid opening shall include, as a minimum: the name of the Bidder and whether or not there is a withdrawal, substitution or modification, the Bid price if applicable.</p> <p>v) The Bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a Bidder's signature on the record shall not invalidate the contents and affect the record.</p> <p>vi) Minutes of the Financial Bid Opening shall be recorded and uploaded by the procuring agency on its website or shared to all bidders through e-mail. <i>[if Procuring Agency opts for single stage one envelope procedure as per rule 38(1) of PPR-14, clause (vi) to (xiii) should be formulated accordingly by the procuring agency.]</i></p>
<p>2.5.2.</p>	<p>Confidentiality</p>	<p>i) Information relating to the examination, clarification, evaluation and comparison of Bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report in accordance with the requirements of rule 37 of PPR-14.</p> <p>ii) Any effort by a Bidder to influence the Procuring Agency processing of Bids or award decisions may result in the rejection of its Bid.</p> <p>iii) Notwithstanding ITB Clause 2.2.2 from the time of Bid opening to the time of contract award, if any Bidder wishes to contact the Procuring Agency on any matter related to the Bidding process, it should do so in writing or in electronic forms that provides record of the content of communication.</p>
<p>2.5.3.</p>	<p>Clarification of Bids</p>	<p>i) As per rule 33(2) of PPR-14, to assist in the examination, evaluation and comparison of Bids and post-qualification of the Bidders, the Procuring Agency may, at its discretion, ask any Bidder for a clarification of its Bid including breakdown of prices to determine its reasonability. Any clarification submitted by a Bidder that is not in response to a request by the Procuring Agency shall not be considered.</p> <p>ii) The request for clarification and the response shall be in writing or in electronic forms that provide</p>



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		<p>record of the content of communication. In case of Single Stage Two Envelope Procedure, no change in the prices or substance of the Bid shall be sought, offered, or permitted. Whereas in case of Single Stage One Envelope Procedure, only the correction of arithmetic errors discovered by the Procuring Agency in the evaluation of Bids should be sought in accordance with ITB Clause 2.5.6.</p> <p>i) The alteration or modification in The Bid which in any way affect the following parameters will be considered as a change in the substance of a bid:</p> <ul style="list-style-type: none"> a) Evaluation & qualification criteria; b) Required scope of work or specifications; c) All securities requirements; d) Tax requirements; e) Terms and conditions of bidding documents. f) Change in the ranking of the Bidder <p>iii) From the time of Bid opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bid it should do so in writing or in electronic forms that provide record of the content of communication.</p>
<p>2.5.4.</p>	<p>Preliminary Examination</p>	<p>i) The Procuring Agency will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order.</p> <p>ii) Arithmetical errors will be rectified on the following basis: -</p> <ul style="list-style-type: none"> a. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its Bid may be rejected, and its Bid security may be forfeited. b. If there is a discrepancy between words and figures, the amount in words will prevail. <p>iii) Prior to the detailed evaluation, the Procuring Agency will determine the responsiveness of each Bid to the Bidding documents, pursuant to ITB Clause 2.5.5. For purposes of these Clauses, a 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 2.3.8), Applicable Law (GCC Clause 30), Taxes and Duties (GCC Clause 32) & mandatory Registrations/ Renewals will be deemed to be a material deviation. The Procuring Agency's determination of a Bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.</p> <p>iv) If a Bid is not responsive, it will be rejected by the Procuring Agency and may not subsequently be</p>



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		<p>made responsive by the Bidder by correction of the non-conformity.</p> <p>v) Prior to the detailed evaluation of Bids, the Procuring Agency will determine whether each Bid:</p> <ol style="list-style-type: none"> a) Meets the eligibility criteria defined in ITB 2.1.3 and ITB 2.1.4; b) Has been prepared as per the format and contents defined by the Procuring Agency in the Bidding Documents; c) Has been properly signed; d) Is accompanied by the required securities; and e) Is responsive to the requirements of the Bidding Documents. <p>The Procuring Agency's determination of a Bid's responsiveness will be based on the contents of the Bid itself.</p>
2.5.5.	Examination of Terms and Conditions; Technical Evaluation	<ol style="list-style-type: none"> i) The Procuring Agency shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation. ii) The Procuring Agency shall evaluate the technical aspects of the Bid submitted to confirm that all requirements specified in Section III-Technical Specifications, Section VII – Schedule of Requirements & Evaluation Criteria as provided in BDS, have been met without material deviation or reservation. iii) If after the examination of the terms and conditions and the technical evaluation, the Procuring Agency determines that the Bid is not responsive in accordance, it shall reject the Bid.
2.5.6.	Correction of Errors	<ol style="list-style-type: none"> i) Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: - <ol style="list-style-type: none"> a) If there is a discrepancy between unit prices 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, unless in the opinion of the Procuring Agency there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected; b) If there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and c) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern. d) Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors. ii. The amount stated in the Bid will, be adjusted by the Procuring Agency in accordance with the



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		<p>above procedure for the correction of errors. The concurrence of the Bidder shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bid Securing Declaration may be executed in accordance with ITB 2.3.8.</p>
5.5.7.	Conversion to Single Currency	<p>i) As per rule 32(2) of PPR-14, to facilitate evaluation and comparison, the Procuring Agency will convert all Bid prices expressed in the amounts in various currencies in which the Bid prices as follows:</p> <p>For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day, in case of holiday in State Bank of Pakistan on the day of opening financial bids, then previous working day's ex-change rates will prevail.</p>
2.5.8.	Post-Qualification & Evaluation of Bids	<p>i) In the absence of prequalification, the Procuring Agency will determine to its satisfaction whether the Bidder is qualified to perform the contract satisfactorily, in accordance with the evaluation criteria listed in BDS & pursuant to ITB Clause 2.1.3.</p> <p>ii) The determination will take into account the Bidder's financial, technical, and production/ supplying 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 2.3.6, as well as such other information required for eligibility/qualification expressed in Bid Data Sheet as the Procuring Agency deems necessary and appropriate.</p> <p>iii) The Procuring Agency will technically evaluate and compare the Bids which have been determined to be responsive, pursuant to ITB Clause 2.5.5, as per Technical Specifications required.</p> <p>iv) The financial evaluation of a Bid will be on the basis of form of Price Schedules/ Financial Bid Form 8.10 to be decided by the Procuring Agency which must include clear cut instruction regarding item wise or package wise evaluation inclusive of prevailing taxes, duties, fees etc.</p>
2.5.9.	Contacting the Procuring Agency	<p>i) Subject to ITB Clause 2.5.3, no Bidder shall contact the Procuring Agency on any matter relating to its Bid, from the time of the Bid opening to the time the evaluation report is made public i.e. 10 days before the contract is awarded. If the Bidder wishes to bring additional information or has grievance to the notice of the Procuring Agency, it should do so in writing.</p> <p>ii) Any effort by a Bidder to influence the Procuring Agency during Bid evaluation, or Bid comparison may result in the rejection of the Bidder's Bid.</p>
2.5.10.	Grievance Redressal	<p>i) As per Rule-67 of PPR-14, Procuring Agency shall constitute a Grievance Redressed Committee (GRC) comprising of odd number of persons with proper powers and authorization to address the complaints.</p>



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		<p>The GRC shall not have any of the members of the Procurement Evaluation Committee. The Committee may preferably have one subject specialist depending upon the nature of the procurement in addition to one person with legal background as per their availability to the Procuring Agency.</p> <p>ii) Any Bidder feeling aggrieved can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the Bidding documents found contrary to provision of Rule 33, and the same shall be addressed by the Procuring Agency well before the proposal submission deadline.</p> <p>iii) Any party can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the bidding documents found contrary to provision of Rule 34 and the same shall be addressed by the Procuring Agency well before the proposal submission deadline.</p> <p>iv) Any Bidder feeling aggrieved by any act of the Procuring Agency after the submission of his Bid may lodge a written complaint concerning his grievances not later than ten days after the announcement of the Final evaluation reports. In case of single stage - two envelope bidding procedure any bidder feeling aggrieved from technical evaluation may file a grievance within 5 days of announcement of the technical evaluation report. After completion of the technical evaluation process, the procuring agency shall immediately upload the technical evaluation report on the website of PPRA and Procuring Agency for obtaining/ receiving grievance petitions from the prospective bidders (if any).</p> <p>v) In case, the complaint/grievance is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report. Provided that the complainant may raise the objection on any part of the final evaluation report in case where single stage one envelopes bidding procedure is adopted.</p> <p>vi) The GRC shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.</p>
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2.6. Award of Contract

<p>2.6.1.</p>	<p>Notification of Award</p>	<p>i) Prior to the expiration of the period of Bid validity, the Procuring Agency will notify the successful Bidder in writing by registered letter and by email to be confirmed in writing by registered letter, that its Bid has been accepted.</p> <p>ii) The notification of award will constitute the formation of the Contract.</p> <p>iii) Upon the successful Bidder's furnishing of the Performance Guarantee pursuant to ITB Clause 2.6.2 (i), the Procuring Agency will promptly notify each unsuccessful Bidder and will discharge its Bid security, pursuant to ITB Clause 2.3.8 (v).</p>
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2.6.2.	Performance Guarantee	<ul style="list-style-type: none"> i) Within fifteen (15) days of the receipt of notification of award from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in accordance with the Conditions of Contract, in the Performance Guarantee Form provided in the Bidding documents, or in another form acceptable to the Procuring Agency. ii) Failure of the successful Bidder to comply with the requirement of ITB Clause (i) above or ITB Clause 2.6.3 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid security along with other remedies available under PPR-14. After that, the Procuring Agency may decide to award the contract to the next lowest evaluated Bidder, keeping in view the Bid validity time, or call for new Bids keeping in view the concept of value for money as defined under rule-2(ae) read with Principles of Procurement as enunciated in rule-4 of PPR-14.
2.6.3.	Signing of Contract/ Issuance of Purchase Order	<ul style="list-style-type: none"> i) At the same time as the Procuring Agency notifies the successful Bidder that its Bid has been accepted, the Procuring Agency will send the Bidder the Contract Form provided in the Bidding documents, incorporating all agreements between the parties or will issue the purchase order <i>[as the case may be]</i>. ii) Under rule-63 of PPR-14, where the Procuring Agency requires formal signing of contract, within seven (07) days of receipt of the Contract Form, the successful Bidder shall sign and mention date of the contract and return it to the Procuring Agency. iii) Where no such formal signing is required by the procuring agency, the procuring agency shall issue purchase order after the receipt of required performance guarantee, as per rule 55 of PPR-14.
2.6.4.	Award Criteria	<ul style="list-style-type: none"> i) Subject to ITB Clause 2.6.2, under rule-55 of PPR-14, the Procuring Agency will award the contract to the successful Bidder whose Bid has been determined to be responsive and has been determined to be the lowest evaluated Bid, provided that the Bidder has been determined to be qualified to perform the contract satisfactorily.
2.6.5.	Procuring Agency's Right to Vary Quantities at Time of Award	<ul style="list-style-type: none"> (i) The Procuring Agency reserves the right at the time of contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions, on the analogy of rule-59 (c)(iv) of PPR-14 (not more than 15%).
2.6.6.	Procuring Agency's Right to Accept or Reject All Bids	<ul style="list-style-type: none"> i) As per rule 35 of PPR-14, the Procuring Agency reserves the right to accept or reject all Bids or proposals (and to annul the Bidding process) at any time prior to the acceptance of any Bid or proposal, without thereby incurring any liability towards the Bidders. ii) The Bidders shall be promptly informed about the rejection of the Bids, if any iii) The Procuring Agency shall upon request communicate to any Bidder, the grounds for its



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		rejection of all Bids or proposals, but shall not be required to justify those grounds.
2.6.7.	Re-Bidding	(i) If the Procuring Agency rejects all the Bids under rule 35, it may proceed with the process of fresh Bidding but before doing that it shall assess the reasons for rejection and may, if necessary, revise specifications, evaluation criteria or any other condition for Bidders.
2.6.8.	Corrupt or Fraudulent Practices	<p>i) The Procuring Agency Bidders, Suppliers, and Contractors observe the highest standard of ethics during the procurement and execution of contracts.</p> <p>“Corrupt practices” in respect of procurement process, shall be as given in S-2 (d) of PPRA, Act, 2009, which is as follows: “(d) “corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official, bidder or Contractor in the procurement process or in Contract execution to the detriment of the procuring agency; or misrepresentation of facts in order to influence a procurement process or the execution of a Contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, noncompetitive levels and to deprive the procuring agency of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty; it may include any of the following:</p> <ol style="list-style-type: none"> i. Coercive practice by impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party; ii. Collusive practice by arrangement between two or more parties to the procurement process or Contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain; iii. Offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain; iv. Any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation; v. Obstructive practice by harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a Contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or



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threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit process.”

ii) **Blacklisting & Debarment:**

Blacklisted Bidders from procuring agency (University of Kamalia) i.e. firms/companies/sole proprietor/ general order suppliers/ JVs etc. and those found involved in “Corrupt Practices” are not allowed to participate in bidding.

Requirements & Procedure for Blacklisting & Debarment:

As per As per S-17A of PPRA, Act, 2009:

“17A. Blacklisting.– (1) A procuring agency may, for a specified period and in the prescribed manner, debar a bidder or Contractor from participating in any public procurement process of the procuring agency, if the bidder or Contractor indulges in corrupt practice or any other prescribed practice.

(2) The Managing Director may, in the prescribed manner, debar a bidder or Contractor from participating in any public procurement process of all or some of the procuring agencies for a specified period.

(3) Any person, aggrieved from a decision of a procuring agency, may within prescribed period prefer a representation before the Managing Director.

(4) A procuring agency or any other person, aggrieved from a decision of the Managing Director, may within prescribed period prefer a representation before the Chairperson whose decision on such representation shall be final.]

As per rule 21 of PPR-14:

21. Blacklisting.–(1) A procuring agency may, for a specified period, debar a bidder or Contractor from participating in any public procurement process of the procuring agency, if the bidder or Contractor has:

- (a) acted in a manner detrimental to the public interest or good practices;
- (b) consistently failed to perform his obligation under the Contract;
- (c) not performed the Contract up to the mark; or
- (d) indulged in any corrupt practice.

(2) If a procuring agency debars a bidder or Contractor under sub-rule (1), the procuring agency:

- (a) shall forward the decision to the Authority for publication on the website of the Authority; and



(b) may request the Authority to debar the bidder or Contractor for procurement of all procuring agencies.

(3) The Managing Director may debar a bidder or Contractor of any procuring agency from participating in any public procurement process of all or some of the procuring agencies for such period as the Managing Director may determine.

(4) Any person aggrieved by a declaration made under rule 20 or a decision under sub-rule (1) of this rule may, within thirty days from the date of the publication of the information on the website of the Authority, file a representation before the Managing Director and the Managing Director may pass such order on the representation as he may deem fit.

(5) Any person or procuring agency aggrieved by an order under sub-rule (3) or (4) may, within thirty days of the order, file a representation before the Chairperson and the Chairperson may pass such order on the representation as he may deem appropriate.

(6) The mechanism or process for barring a bidder or Contractor from participating in procurement process of a procuring agency, procuring agencies and a representation under this rule is specified in the Schedule appended to these rules.

As per Schedule appended with PPR-14:

SCHEDULE

see sub-rule (6) of rule 21

BLACKLISTING MECHANISM OR PROCESS

1. The procuring agency may, on information received from any resource, issue show cause notice to a bidder or Contractor.
2. The show cause notice shall contain:
 - (a) precise allegation, against the bidder or Contractor;
 - (b) the maximum period for which the procuring agency proposes to debar the bidder or Contractor from participating in any public procurement of the procuring agency; and
 - (c) the statement, if needed, about the intention of the procuring agency to make a request to the Authority for debarring the bidder or Contractor from participating in public procurements of all the procuring agencies.
3. The procuring agency shall give minimum of seven days to the bidder or Contractor for submission of written reply of the show cause notice.
4. In case, the bidder or Contractor fails to submit written reply within the requisite time, the procuring agency may issue notice for personal hearing to the bidder or Contractor/ authorize representative of the bidder or Contractor and the procuring agency shall decide the matter on the basis of available record and personal hearing, if availed.



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5. In case the bidder or Contractor submits written reply of the show cause notice, the procuring agency may decide to file the matter or direct issuance of a notice to the bidder or Contractor for personal hearing.
6. The procuring agency shall give minimum of seven days to the bidder or Contractor for appearance before the specified officer of the procuring agency for personal hearing.
7. The procuring agency shall decide the matter on the basis of the available record and personal hearing of the bidder or Contractor, if availed.
8. The procuring agency shall decide the matter within fifteen days from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the period of personal hearing shall be reckoned from the last date of personal hearing.
9. The procuring agency shall communicate to the bidder or Contractor the order of debaring the bidder or Contractor from participating in any public procurement with a statement that the bidder or Contractor may, within thirty days, prefer a representation against the order before the Managing Director of the Authority.
10. The procuring agency shall, as soon as possible, communicate the order of blacklisting to the Authority with the request to upload the information on its website.
11. If the procuring agency wants the Authority to debar the bidder or Contractor from participating in any public procurement of all procuring agencies, the procuring agency shall specify reasons for such dispensation.
12. The Authority shall immediately publish the information and decision of blacklisting on its website.
13. In case of request of a procuring agency under para 11 or representation of any aggrieved person under rule 21, the Managing Director shall issue a notice for personal hearing to the parties and call for record of proceedings of blacklisting. The parties may file written statements and documents in support of their contentions.
14. In case of representation of any aggrieved person or procuring agency under rule 21, the Chairperson shall issue a notice for personal hearing to the parties and may call for the record of the proceedings. The parties may file written statements and documents in support of their contentions.
15. In every order of blacklisting under rule 21, the procuring agency shall record reasons of blacklisting and also reasons for short, long or medium period of blacklisting.
16. The Authority shall upload all the decisions under rule 21, available with it, on its website. But the



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		<p>name of a bidder or Contractor shall immediately be removed from the list of blacklisted persons on expiry of period of blacklisting or order of the competent authority to that effect, whichever is earlier.</p> <p>17. An effort shall be made for electronic communication of all the notices and other documents pursuant to this mechanism or process.”</p> <p>1. Furthermore, Bidders must keep themselves aware of the provision stated in clause 5.4 and clause 24.1 of the General Conditions of Contract.</p>
2.6.9.	Quantity and volume of the goods to be considered in mind	<p>i) While quoting the rate in a framework contract, the Bidder must consider the following facts:</p> <p>a. Certain volume and quantity of the goods as prescribed in Bid Data Sheet.</p> <p>b. The Bidder have to maintain the rates of the goods for the whole financial year.</p> <p>c. The Bidder should quote the rate as per Price Schedule/ Financial Bid form. In case of non-observance of prescribed format, Financial Bid may be rejected.</p>

Section-V: General Conditions of Contract:

The University of Kamalia, being the Procuring Agency, has formulated the General Conditions of Contract in accordance with Punjab Procurement Rules, 2014 (PPR-14), keeping in view its specific requirements, nature of procurement, and applicable form of contract. This procurement is being conducted on an item-wise basis, and not as a bulk or framework procurement. Accordingly:

- Bidders are required to quote item-wise rates for all items they intend to supply.
- Technical and financial evaluations shall be carried out item-wise.
- Supply Orders shall be issued item-wise to the successful bidder(s) for each item, based on item-wise technical qualification and lowest evaluated financial bid.

Sr. #	Sub-Section	Descriptions
1	Definitions	<p>1.1 In this Contract, the following terms shall be interpreted as indicated:</p> <p>The Contract” means the agreement entered into between the Procuring Agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.</p> <p>(b) “The Contract Price” means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.</p> <p>(c) “The Goods” means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring Agency under the Contract.</p> <p>(d) “The Services” means those services ancillary and related 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, maintenance & repair and</p>



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		<p>other such obligations of the Supplier covered under the Contract.</p> <p>(e) “GCC” means the General Conditions of Contract contained in this section.</p> <p>(f) “SCC” means the Special Conditions of Contract.</p> <p>(g) “The Procuring Agency” means the organization purchasing the Goods & Services, as named in SCC.</p> <p>(h) “The Procuring Agency’s country” is the country named in SCC.</p> <p>(i) “The Supplier” means the Bidder or firm supplying the Goods and Services under this Contract.</p> <p>(j) “The Project Site,” where applicable, means the place or places named in SCC.</p> <p>(k) “Day” means calendar day.</p>
2	Application	2.1. These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.
3	Country of Origin	<p>3.1. All Goods and Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules, as further elaborated in the SCC.</p> <p>3.2. For purposes of this Clause, “origin” means the place where the Goods were mined, grown, or produced, or from which where the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new product is obtained that is substantially different in basic characteristics or in purpose or utility from its components.</p> <p>3.3. The origin of Goods and Services is distinct from the nationality of the Supplier. In any case, the requirements of rules 10 & 26, PPR-14, shall be followed.</p>
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 procuring agency.	<p>5.1. The Supplier shall not, without the Procuring Agency’s prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.</p> <p>5.2. The Supplier shall not, without the Procuring Agency’s prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of executing the Contract.</p> <p>5.3. Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Procuring Agency and shall be returned</p>



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		<p>(all copies) to the Procuring Agency on completion of the Supplier's performance under the Contract if so required by the Procuring Agency.</p> <p>5.4. The Supplier shall permit the Procuring Agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the donors, if so required by the donors.</p>
6	Patent Rights	6.1. The Supplier shall indemnify the Procuring Agency against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring Agency's country.
7	Performance Guarantee	<p>Within fifteen (15) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring Agency the Performance Guarantee in the amount specified in SCC/Bid Data Sheet & clause 2.6.2 of ITB.</p> <p>7.2. The proceeds of the Performance Guarantee shall be payable to the Procuring Agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.</p> <p>7.3. As per Rule-56 of PPR-14, the performance guarantee shall be denominated in the currency of the Contract acceptable to the Procuring Agency and shall be in one of the following forms:</p> <p>(a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring Agency's country, in the form provided in the Bidding documents or another form acceptable to the Procuring Agency; or</p> <p>(b) a Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker's cheque cashier's or certified cheque or CDR.</p> <p>7.4. The performance guarantee will be discharged by the Procuring Agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.</p>
8	Inspections and Tests	<p>8.1. The Procuring Agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring Agency requires and where they are to be conducted. The Procuring Agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives nominated for these purposes.</p> <p>8.2. The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s) (if so allowed by the Procuring Agency), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Agency.</p>



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		<p>8.3. Should any inspected or tested Goods fail to conform to the Specifications, the Procuring Agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring Agency.</p> <p>8.4. The Procuring Agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring Agency's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring Agency or its representative prior to the Goods' shipment from the country of origin.</p> <p>8.5. Nothing in GCC Clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.</p>
9	Packing	<p>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.</p> <p>9.2. The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Procuring Agency.</p>
10	Delivery and Documents	<p>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.</p> <p>10.2. Upon delivery, the Procuring Agency shall give receiving certificate to the supplier with the statement that, "completion certificate along with satisfactory report shall be issued after due inspection as per clause-8 of GCC, which will enable the supplier to put up the bill".</p> <p><i>[Further conditions may be incorporated by the Procuring Agency keeping in view the nature of contract, DDP, CIF, C&F, FOR, FOP for example; for a DDP contract the clause may be as follows:]</i></p> <p>10.3. For purposes of the Contract, DDP trade term used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of <i>Incoterms</i></p> <p>10.4. Documents to be submitted by the Supplier are specified in SCC.</p>
11	Insurance	<p>11.1. The Goods supplied under the Contract shall be delivered <i>[form of content to be decided by the Procuring Agency]</i> duty form paid under which risk is transferred to the buyer after having been delivered, hence <i>[details</i></p>



		coverage to be decided by the Procuring Agency] 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 Agency’s country, including <i>(details to be decided by Procuring Agency as per requirement)</i> insurance and storage, as shall be specified in the Contract, and related costs shall be included in the Contract Price.
13	Incidental Services	<p>13.1. 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) satisfactory performance for specified time/ quantity on-site and/or supervision of on-site assembly and/or start-up of the supplied Goods; (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods; (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; an (e) training of the Procuring Agency’s personnel, at the Supplier’s plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods. <p>13.2. Prices charged by the Supplier for incidental services shall be included in the Contract Price for the Goods and shall not exceed:</p> <ul style="list-style-type: none"> (i) the prevailing rates charged for other parties by the Supplier for similar services; and (ii) original price of goods.
14	Spare Parts	<p>14.1. As specified in SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:</p> <ul style="list-style-type: none"> (a) such spare parts as the Procuring Agency may choose to purchase from the Supplier, provided that this choice 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"> (i) advance notification to the Procuring Agency of the pending termination, in sufficient time to permit the Procuring Agency to procure needed requirements; and (ii) following such termination, furnishing at no cost to the Procuring Agency, the blueprints, drawings, and specifications of the spare parts, if requested.



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15	Warranty	<p>15.1. The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models selected by the Procuring Agency, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring Agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.</p> <p>15.2. This warranty shall remain valid for 02 years year 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, after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.</p> <p>15.3. The Procuring Agency shall promptly notify the Supplier in writing of any claims arising under this warranty.</p> <p>15.4. Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring Agency.</p> <p>15.5. If the Supplier, having been notified, fails to rectify the defect(s) within the period specified in SCC, within a reasonable period, the Procuring Agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Agency may have against the Supplier under the Contract/relevant provision of PPR-14 including Blacklisting.</p>
16	Payment	<p>16.1. The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.</p> <p>16.2. The Supplier's request(s) for payment shall be made to the Procuring Agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.</p> <p>16.3. As per rule-62 of PPR-14, payments shall be made promptly by the Procuring Agency, but in no case later than thirty (30) days after submission of an invoice or claim by the Supplier, provided the work is satisfactory.</p> <p>16.4. The currency of payment is Pakistani Rupees.</p>
17	Prices	<p>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.</p>
18	Change Orders	<p>18.1. The Procuring Agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the</p>



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		<p>Contract, only if required for the successful completion of the job, 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 Agency; (b) the method of shipment or packing; (c) the place of delivery; and/or (d) the Services to be provided by the Supplier. <p>18.2. If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring Agency's change order. But, in no case, the overall impact of the change should exceed 15% of the contract cost and no provisions of PPR-14 should be violated.</p>
19	Contract Amendments	<p>19.1. Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by the mutual consent through written amendment signed by the parties. No variation in finalized brands/ makes/models shall be allowed except in special conditions where the manufacturer has stopped producing or suspended that model or the latest model of similar series or version has been launched by the manufacturer or non-availability due to international mergers of the manufacturers or similar unavoidable constraints.</p>
20	Assignment	<p>20.1. The Supplier shall not assign the whole of contract to anybody else. However, some parts of contract or its obligations may be assigned to sub-contractors with the prior written approval of the procuring agency.</p>
21	Sub-contracts	<p>21.1. The Supplier shall notify the Procuring Agency in the Bid of all subcontracts to be assigned under this Contract. Such notification, in the original Bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.</p> <p>21.2. Subcontracts must comply with the provisions of GCC Clause 20.</p>
22	Delays in the Supplier's Performance	<p>22.1. Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirements-</p> <p>22.2. If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring Agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring Agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.</p>



		<p>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 imposition of liquidated damages.</p>
23	Liquidated Damages	<p>23.1. Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to GCC Clause 24 along with other remedies available under PPR-14.</p>
24	Termination for Default	<p>24.1. The Procuring Agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:</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 Agency pursuant to GCC Clause 22; (b) if the Supplier fails to perform any other obligation(s) under the Contract; or (c) if the Supplier, in the judgment of the Procuring Agency has engaged in corrupt practices in competing for or in executing the Contract. For the purpose of this clause, corrupt practices will be defined as per Section-2 (d) of The PPRA Act, 2009. <p><i>“Corrupt practices” in respect of procurement process, shall be as given in S-2 (d) of PPRA, Act, 2009:</i></p> <p><i>(d) “corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official, bidder or Contractor in the procurement process or in Contract execution to the detriment of the procuring agency; or misrepresentation of facts in order to influence a procurement process or the execution of a Contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, noncompetitive levels and to deprive the procuring agency of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty; it may include any of the following:</i></p> <ul style="list-style-type: none"> <i>vi. coercive practice by impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;</i>



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		<p>vii. <i>collusive practice by arrangement between two or more parties to the procurement process or Contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;</i></p> <p>viii. <i>offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;</i></p> <p>ix. <i>any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;</i></p> <p>x. <i>obstructive practice by harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a Contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit process</i></p> <p>24.2. In the event the Procuring Agency terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Procuring Agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.</p>
25	Force Majeure	<p>25.1. Notwithstanding the provisions of GCC Clauses 22, 23, and 24, the Supplier shall not be liable for forfeiture of its Performance Guarantee, 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> <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 Agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes. Both, the Procuring Agency and the Supplier, may agree to exclude certain widespread conditions e.g: epidemics, pandemics, quarantine restrictions etc from the purview of “Force Majeure”.</p> <p>25.3. If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing of such condition and the cause thereof. Unless otherwise</p>



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		directed by the Procuring Agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. Any difference of opinion concerning “Force Majeure” may be decided through means given herein below.
26	Termination for Insolvency	26.1. The Procuring Agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Agency.
27	Termination for Convenience	27.1. The Procuring Agency, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring Agency’s convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective. 27.2. The Goods that are complete and ready for shipment (if applicable) within thirty (30) days after the Supplier’s receipt of notice of termination shall be accepted by the Procuring Agency on the Contract terms and prices. For the remaining Goods, the Procuring Agency may choose: (a) to have any portion completed and delivered at the Contract terms and prices; and/or (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.
28	Resolution of Disputes	28.1. After signing the contract or issuance of purchase order, The Procuring Agency and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract. 28.2. If, after thirty (30) days from the commencement of such informal negotiations, the Procuring Agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed and/or arbitration as per rule 68 of PPR-14 and in accordance with Arbitration Act-1940.
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.



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30	Applicable Law	30.1. The Contract shall be interpreted in accordance with the laws of Punjab (Pakistan) unless otherwise specified in SCC.
31	Notices	31.1. Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by any information technology mean for the time being in use and acceptable in ordinary course of business 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 & Services to the Procuring Agency. In case of imposition of new taxes/duties or concession thereof after the deadlines for the submission of bids the effect thereof shall be borne or availed by the procuring agency as the case may be.



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1. Bidding Data:

The following specific data for the Procurement to be bided shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

Sr.	Element	Descriptions
1	Name and address of the Procuring Agency & title of services to be procured	<ul style="list-style-type: none"> Director Purchase & Stores, Former QAED Academy Building, Rajana Raod, Kamalia (Procurement of Lab Equipments for Allied health sciences and Chemistry at Univeristy of Kamalia).
2	Bid Language	<ul style="list-style-type: none"> English
3	Currencies of Bid and Payment:	<ul style="list-style-type: none"> Bidders to quote in PKR in lieu of (Procurement of Lab Equipments for Allied health sciences & Chemistry at University of Kamalia, Kamalia).
4	Period of Bid Validity:	<ul style="list-style-type: none"> 120-Days.
5	Bid Security:	<ul style="list-style-type: none"> 2% of Estimated Amount.
6	Number of copies of the Bid to be completed and returned:	<ul style="list-style-type: none"> Not applicable (E-Bids only)
7	Procuring Agency's address for the purpose of Bid submission	<ul style="list-style-type: none"> Director Purchase, University of Kamalia, Former QAED Academy Building, Rajana Road, Kamalia.
8	Name and Number of the Contract:	<ul style="list-style-type: none"> UOK/Tender/2025-26/11 "Procurement of Lab Equipment (Allied health Sciences & Chemistry) at University of Kamalia"
9	Deadline for submission of bids:	<ul style="list-style-type: none"> 09-03-2026 (11:30 a.m).
10	Venue of Opening of Tenders	<ul style="list-style-type: none"> Vice Chancellor Secretariat, University of Kamalia, Former QAED Academy Building, Rajana Raod, Kamalia.
11	Date and Time of Opening of Tenders:	<ul style="list-style-type: none"> 09-03-2026 (12:00 p.m).
12	Standard form and amount of Performance Security acceptable to the Procuring Agency:	<ul style="list-style-type: none"> Form of Performance Security: Bank Guarantee in favor of Treasurer, University of Kamalia. Amount: 5% of Bid
13	Work/Delivery Schedule: -	<ul style="list-style-type: none"> Work shall be completed within 45 days from the date of issuance of Purchase/work Order.
14	Estimate Cost: -	<ul style="list-style-type: none"> Rs. 26,000,000/-

S r #	 Name of Equipment/Items	Specifications/Features (Required by Procuring Agency)	Qty	Specifications/Features (Quoted by Bidder)
1	Binocular Microscope (student)	Optical system: Plan achromat (or equivalent) with anti-fungal coating; Binocular head 30° inclination, 360° rotatable; interpupillary 48–75 mm; diopter ±5. Eyepieces: WF10× (field number 18–20). Objectives: 4×, 10×, 40× spring, 100× oil immersion (standard thread). Stage: double-layer mechanical stage ~140×140 mm with X–Y travel ≥75×50 mm; slide holder. Focus: coaxial coarse & fine; fine focus division ≤2 μm; rack stop. Condenser: Abbe NA 1.25 with iris diaphragm; centerable. Illumination: LED with intensity control; input 220–240 V, 50 Hz. Accessories: immersion oil, dust cover, spare fuse; operating manual. Warranty: ≥1 year; installation/commissioning included.	10	
2	Hematology Analyzer (3-part)	Type: automated hematology analyzer with 3-part WBC differential (Lymph/Mid/Gran). Parameters: ≥20 CBC parameters including WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, RDW, MPV (or equivalent). Throughput: ≥60 tests/hour. Sample: whole blood; sample volume ≤20 μL; open-vial; capillary/venous compatible. Display/Storage: color display; memory ≥10,000 results with histograms. QC/Calibration: built-in QC program with Levey–Jennings, flagging, calibration menu. Interfaces: USB + LAN/RS232; LIS/HL7 capable (or equivalent). Deliverables: startup reagents/consumables, printer (built-in or external), installation & user training. Warranty: ≥1 year with local service support; preventive maintenance plan offered.	01	
3	ESR Stand + Tubes (Westergren)	Method: Westergren ESR measurement set compatible with ICSH recommendations (or equivalent). Stand: stable, corrosion-resistant rack for ≥3 tubes; accurate vertical alignment; spill tray; easy cleaning. Tubes: 200 mm graduated ESR tubes (0–200 mm), glass or	03	



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		<p>medical-grade plastic; supplied with caps/adapters as needed. Accessories: cleaning brush, tube holders/adapters; instruction sheet.</p>		
4	Neubauer Chamber (Improved)	<p>Type: Improved Neubauer hemocytometer with double ruling. Material: precision optical glass; chamber depth 0.1 mm (± 0.002 mm). Ruling: 9 large squares (1 mm²) with RBC/WBC sub-squares as per Neubauer pattern; permanent etched grid. Includes: special thick coverslips (No. 4 / ~0.4 mm) ≥ 2 pcs; protective case. Use: manual cell counting (RBC/WBC/platelets) and teaching demonstrations.</p>	05	
5	Hematocrit Centrifuge	<p>Type: microhematocrit centrifuge for capillary tubes. Capacity: ≥ 24 capillary tubes with safety lid lock. Speed: adjustable up to $\geq 12,000$ rpm (RCF $\geq 12,000 \times g$) with digital rpm/RCF display. Timer: 1–99 min; automatic stop; imbalance detection. Safety: lid interlock; over-speed/over-temperature protection; noise ≤ 65 dB. Accessories: tube holders/adapters; reader/scale if available; spare fuses. Power: 220–240 V, 50 Hz. Warranty: ≥ 1 year.</p>	01	
6	Semi-Auto Chemistry Analyzer	<p>Type: semi-automatic clinical chemistry analyzer (photometric). Wavelength: 340–700 nm via ≥ 8 filters or monochromator; includes 340, 405, 450, 505, 546, 578, 630 nm (or equivalent). Modes: endpoint, kinetic, fixed-time, multi-standard; absorbance and concentration calculation. Optics/Flow cell: quartz/glass flow cell; low sample volume ≤ 20 μL; reagent volume configurable. Temperature: incubator 25/30/37 °C with stability ± 0.1–0.2 °C. Performance: photometric accuracy $\pm 1\%$ or better; resolution 0.001 Abs (or equivalent). Interfaces: printer output and USB/RS232/LAN (as available); LIS capable (preferred). Deliverables:</p>	01	



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		<p>starter reagents/QC material, installation, calibration and training. Warranty: ≥ 1 year.</p>		
7	UV-Vis Spectrophotometer	<p>Type: UV-Visible spectrophotometer. Wavelength range: 190–1100 nm; bandwidth ≤ 2 nm. Wavelength accuracy: ± 0.5–1.0 nm; repeatability ≤ 0.2 nm. Photometric range: 0–200%T; -0.3 to 3.0 Abs (or better). Photometric accuracy: $\pm 0.3\%$T or ± 0.005 Abs (or equivalent). Light sources: deuterium (UV) + tungsten-halogen (Vis) with automatic switching. Detector: silicon photodiode. Modes: Abs/%T, concentration, kinetics, spectrum scan. Sample compartment: supports 10 mm cuvettes; includes quartz & glass cuvettes starter set. Interface: USB for data export/software. Warranty: ≥ 1 year.</p>	01	
8	Bench-top Centrifuge (swing rotor)	<p>Type: bench-top centrifuge with swing-out rotor for clinical tubes. Rotor: swing rotor supporting 15 mL/50 mL tubes (e.g., 8×15 mL or 4×50 mL) with adapters; sealed buckets preferred. Speed/RCF: max speed $\geq 4,000$–5,000 rpm (RCF $\geq 3,000$–4,500×g) with digital rpm/RCF display. Timer: 1–99 min plus continuous mode. Safety: lid lock, imbalance detection, emergency lid release. Brake: adjustable electronic braking. Power: 220–240 V, 50 Hz. Warranty: ≥ 1 year; installation/training included.</p>	02	
9	Water Bath (digital)	<p>Type: digital thermostatic water bath. Capacity: ≥ 10–20 L stainless steel tank with lid. Temperature range: ambient +5 °C to 100 °C; stability ± 0.2 °C; uniformity ± 0.5 °C. Controller: PID digital controller with display; over-temperature protection. Features: drain valve, low-water protection; corrosion-resistant chamber. Power: 220–240 V. Warranty: ≥ 1 year.</p>	02	
10	Analytical Balance	<p>Type: analytical balance. Capacity: ≥ 200 g; readability</p>	01	



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		<p>0.0001 g (0.1 mg). Repeatability: ≤ 0.1 mg; linearity ≤ 0.2 mg (or equivalent). Pan: stainless steel with draft shield (3-door). Calibration: internal calibration preferred; otherwise external with supplied certified weight. Interface: RS232/USB. Accessories: leveling feet, spirit level, dust cover. Warranty: ≥ 1 year.</p>		
1 1	Micropipettes (set)	<p>Set: adjustable micropipettes covering 0.1–2 μL, 2–20 μL, 20–200 μL, 100–1000 μL (or equivalent). Performance: ISO 8655 compliant; calibration certificate provided. Features: volume lock, ergonomic handle, color coding, tip ejector; autoclavable lower parts. Accessories: stand, tool kit, spare seals/O-rings. Warranty: ≥ 1 year; local calibration/service support.</p>	04 Set	
1 2	Tips (assorted)	<p>Pipette tips: universal fit compatible with supplied pipettes. Sizes: 10 μL, 200 μL, 1000 μL (assorted). Quality: sterile, DNase/RNase-free, pyrogen-free (preferred). Packaging: racked and/or refills; filtered tips for aerosol-sensitive work (optional). Quantity: sufficient starter stock for routine teaching practicals.</p>	10 Box es	
1 3	Lab Refrigerator	<p>Type: laboratory refrigerator (medical/lab grade). Temperature: 2–8 °C; accuracy ± 1 °C; digital display. Capacity: ≥ 250–350 L with adjustable shelves and internal light. Alarms: high/low temperature and door-ajar alarm (preferred); min/max memory. Logging: built-in data logging or external logger port (preferred). Features: lock, eco-friendly refrigerant. Power: 220–240 V. Warranty: ≥ 1 year; installation included.</p>	02	
1 4	Deep Freezer	<p>Type: laboratory deep freezer (upright or chest). Temperature: -20 °C setpoint (or -40 °C if required) with digital</p>	01	



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		<p>control; stability ± 2 °C. Capacity: ≥ 250–350 L. Features: high/low temperature alarm, lock, baskets/shelves; eco-friendly refrigerant. Power: 220–240 V. Warranty: ≥ 1 year; commissioning included.</p>		
1 5	Biosafety Cabinet Class II	<p>Class: Biosafety Cabinet Class II Type A2 (or equivalent). Size: ~4 ft working width (≈ 1.2 m) or as per lab need. Filtration: supply & exhaust HEPA filters, 99.97% at $0.3 \mu\text{m}$; pre-filter included. Airflow: microprocessor-controlled downflow/inflow with audible/visual airflow alarms. Construction: stainless steel work surface; tempered glass sash; UV germicidal lamp with interlock + timer; work light. Utilities: 1–2 electrical outlets; gas/water taps optional. Noise: ≤ 65 dB. Deliverables: DOP/PAO test certificate or airflow performance certificate (preferred), installation & training. Warranty: ≥ 1 year with local support.</p>	01	
1 6	Laminar Flow Cabinet	<p>Type: laminar airflow clean bench (vertical or horizontal). HEPA filter: 99.97% at $0.3 \mu\text{m}$ with pre-filter. Working area: stainless steel; size 3–4 ft (as required). Air velocity: 0.3–0.5 m/s uniform flow with pressure gauge/manometer. Lighting: fluorescent/LED plus optional UV lamp with timer/interlock. Use: aseptic media preparation (not for hazardous biological agents). Power: 220–240 V. Warranty: ≥ 1 year; installation included.</p>	01	
1 7	Autoclave (vertical)	<p>Type: vertical steam autoclave. Chamber: stainless steel; capacity ≥ 50–75 L. Cycles: 121 °C (15 psi) and 134 °C (as applicable); programmable time 0–99 min. Control: digital/microprocessor with cycle display; automatic exhaust; drying function preferred. Safety: over-pressure valve, low-water cut-off, door safety lock, over-temperature</p>	01	



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		<p>protection. Accessories: stainless baskets/trays; drain pipe/hose.</p> <p>Deliverables: installation, validation indicator pack starter, user training.</p> <p>Warranty: ≥ 1 year.</p>		
18	Incubator (bacterial)	<p>Type: bacteriological incubator. Temperature range: ambient $+5$ °C to 60 °C; stability ± 0.5 °C; uniformity $\leq \pm 1.0$ °C.</p> <p>Capacity: ≥ 100–200 L with adjustable shelves. Control: digital PID with over-temperature safety cut-off. Interior: stainless steel or easy-clean coated chamber; inner glass door preferred. Power: 220–240 V. Warranty: ≥ 1 year.</p>	01	
19	Hot Air Oven	<p>Type: laboratory hot air oven for dry heat sterilization. Temperature range: 50–250/300 °C; accuracy ± 1–2 °C; uniformity $\leq \pm 5$ °C.</p> <p>Chamber: stainless steel; capacity ≥ 50–100 L. Control: digital PID; timer; safety cut-off. Air circulation: forced convection fan preferred. Power: 220–240 V. Warranty: ≥ 1 year.</p>	01	
20	Colony Counter	<p>Type: digital colony counter. Counting range: 0–999 colonies with illuminated background. Plate support: 90–150 mm Petri dishes.</p> <p>Features: magnifier $\geq 3\times$; pressure-sensitive counting probe/marker; digital display with reset. Power: 220–240 V or rechargeable option. Warranty: ≥ 1 year.</p>	01	
21	Kjeldahl Digestion + Distillation	<p>System: Kjeldahl unit with digestion block + distillation for nitrogen/protein analysis. Digestion block: ≥ 6 positions; temperature up to 450 °C; programmable ramp/hold; tube size suitable for food samples.</p> <p>Fume handling: compatible fume manifold/scrubber (preferred). Distillation: steam distillation with adjustable steam power; boric acid receiver; automatic dilution preferred.</p> <p>Safety: acid-resistant components; over-temp protection; automatic steam cut-off. Deliverables: glassware set, starter</p>	01	



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		chemicals list, installation & training. Warranty: ≥1 year; local service support.		
2 2	Soxhlet Extraction (6-place)	Type: Soxhlet extraction apparatus, 6-place. Glassware: borosilicate extractors, condensers, 250 mL flasks (or equivalent). Heating: electric heating mantle with individual temperature controls. Cooling: water manifold with hoses/connectors. Accessories: cellulose thimbles, clamps/stands, spare seals. Application: fat/oil extraction from food samples. Warranty: ≥1 year.	01	
2 3	Muffle Furnace	Type: muffle furnace for ash/mineral analysis. Max temperature: ≥1100–1200 °C. Chamber: ceramic fiber insulation; volume ≥5–10 L. Controller: programmable PID with ramp/soak profiles; digital display. Safety: over-temperature protection; door safety switch. Power: 220–240 V. Warranty: ≥1 year.	01	
2 4	pH Meter	Type: bench-top pH meter with ATC. Range: pH 0–14; resolution 0.01/0.001; accuracy ±0.01 pH (or better). mV: ±1999 mV; temperature: 0–100 °C. Calibration: 2–5 point with buffer recognition; slope/offset display. Electrodes: combined glass pH electrode + temperature probe; buffers and storage solution starter pack. Warranty: ≥1 year.	04	
2 5	Moisture Analyzer	Type: halogen/IR moisture analyzer. Capacity: ≥100–200 g; readability 0.001 g. Moisture range: 0.01–100%; temperature 40–200 °C programmable. Modes: standard/rapid/step drying; end-point by time or stability. Accessories: sample pans, pan lifter; protective cover. Warranty: ≥1 year.	01	
2 6	Food Homogenizer/Grinder	Type: food homogenizer/grinder for sample preparation. Bowl: stainless steel, ≥1–2 L with sealed lid; removable and washable. Motor/Speed: heavy-duty motor with variable speed; suitable for	01	



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		dry & wet foods. Output: uniform homogenate for proximate analysis (moisture, fat, protein, ash). Safety: lid interlock; overload protection. Power: 220–240 V. Warranty: ≥1 year.		
27	Spirometer (digital)	Type: portable digital spirometer. Measures: FVC, FEV1, FEV1/FVC, PEF, FEF25–75 (or equivalent). Accuracy: conforms to ATS/ERS guidance or equivalent; volume accuracy ±3% (typical). Storage: ≥500 tests with patient profiles; report generation via USB/Bluetooth (as available). Accessories: disposable mouthpieces, nose clips; turbine/flow sensor type specified. Power: rechargeable battery + adapter. Warranty: ≥1 year.	01	
28	BP Apparatus (manual + digital mix)	Supply mix: aneroid sphygmomanometers + digital upper-arm BP monitors for teaching. Aneroid: 0–300 mmHg; accuracy ±3 mmHg; adult cuff and inflation bulb; stethoscope included. Digital: validated automatic monitors with memory storage; irregular heartbeat indicator preferred. Compliance: clinical validation (BHS/AAMI/ESH or equivalent). Warranty: ≥1 year.	06	
29	Glucometer	Type: glucometer for capillary glucose testing demonstrations. Range: approx. 20–600 mg/dL (or equivalent). Accuracy: compliant with ISO 15197:2013 (or latest applicable). Sample volume: ≤1 µL; result time ≤5 seconds. Features: ≥500-result memory; averaging; no-coding preferred. Includes: starter strips, lancets, lancing device, control solution. Warranty: ≥1 year.	10	
30	Anthropometric Kit	Kit includes: portable stadiometer (≥20–210 cm; ±0.1 cm), digital weighing scale (≥200 kg; ±0.1 kg), non-stretch tape (150 cm), skinfold caliper (0–40 mm; ±0.2 mm), MUAC tape, waist-hip tape, carry case;	02	

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		optional infant length board. Suitable for nutrition assessment practicals.		
3 1	Body Composition Analyzer	Type: body composition analyzer using bioelectrical impedance (BIA). Outputs: weight, BMI, body fat %, fat mass, fat-free mass, skeletal muscle %, total body water (or equivalent). Capacity: ≥200 kg; increment 0.1 kg. Profiles: ≥10 users; athlete/standard modes. Display: large LCD; optional print/PC connectivity. Notes: include contraindication guidance for pacemakers. Warranty: ≥1 year.	02	
3 2	Ultra-pure water purification system	Ultra-pure water purification system (ASTM Type-I), resistivity 18.2 MΩ-cm at 25°C, conductivity ≤ 0.055 μS/cm, TOC ≤ 5 ppb, bacterial count < 1 CFU/ml, particle free >0.22 μm, compliance with ASTM Type-I / ISO 3696 Grade-1, multi-stage purification including sediment filter, activated carbon, reverse osmosis, mixed-bed deionization, UV 185/254 nm, ultrafiltration, final 0.22 μm sterile filter, production capacity approx. 10–15 L/hr or 1–2 L/min dispensing, digital resistivity/conductivity display, cartridge life indicator, automatic flushing, water quality alarms, microprocessor controlled, compatible with potable tap water feed, 220–240 V, 50 Hz, installation kit and consumables included, minimum one-year warranty with local service,	01	
3 3	Hot Plate With magnetic stirrer	Hot plate with magnetic stirrer (laboratory grade), digital temperature control, temperature range approx. ambient to 300–350 °C, temperature accuracy about ±1 °C, stirring speed approx. 100–1500 rpm (variable), stirring capacity about 2–5 L, ceramic or coated aluminium plate (~150–180 mm), simultaneous heating and stirring function, digital display for temperature and speed, corrosion-resistant body, over-temperature	10	



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		safety protection, operates on 220–240 V 50 Hz suppl		
3 4	Vortex mixer	Vortex mixer (laboratory grade), variable speed approx. 100–3000 rpm or better, touch and continuous operation modes, orbital diameter approx. 4 mm, suitable for test tubes, vials and small flasks up to ~50 ml, stable anti-slip base with low vibration, compact bench-top design, analog/digital speed control, durable chemical-resistant body, low noise motor, operates on 220–240 V, 50 Hz supply, complete with standard accessories, minimum one-year warranty with local service support	04	
3 5	Centrifuge Machine	High-speed microcentrifuge (bench-top), suitable for Eppendorf tubes, maximum speed approx. 15,000 rpm or higher, RCF approx. 15,000–20,000×g, rotor capacity approx. 12–24 × 1.5/2.0 ml tubes, compatible with 0.2 and 0.5 ml adapters, digital speed/time display, timer 1–99 min or continuous, brushless maintenance-free motor, low noise ≤60 dB, lid safety lock with imbalance protection, microprocessor controlled operation, corrosion-resistant chamber, operates on 220–240 V 50 Hz supply, complete with rotor and adapters, minimum one-year warranty with local service support,	01	

2. Technical Evaluation:



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Sr. #	Descriptions/ Requirements	Required Documents/Proof	Marks	Evaluation by Technical Committee
A. Firm / Company/Profile/ Existence (20-Marks)				
1	• 2-5 Years	Years of Registration or operations (From Registration date of NTN / FBR)	10	
2	• 6-10 Years		15	
3	• Above 10 Years		20	
Sub-Total (A)			20	
B. Relevant Experience (Work Orders/Completion Certificates for supply of Laboratory Equipment to Government / Semi-Government / Autonomous Bodies during last 03 years) (40-Marks)				
1	• Per Institute (for Tender only)	Purchase orders / supply orders / completion certificates must be attached, otherwise, no marks shall be awarded.	10	
2	• Maximum (04 or more institutes)		40	
Sub-Total (B)			40	
C. Financial Capacity (Average Annual Sales (Minimum 02 years) verified from Income Tax Returns/Audit statement: Tax Years: 2023-24 & 2024-25) (40-Marks)				
1	• Rs. 20-30 million	Audit statement/Tax Return or Any other Proof of last two financial years must be attached, otherwise, no marks shall be awarded.	15	
2	• Rs. 31-50 million		25	
3	• Above Rs. 50 million		40	
Sub-Total (C)			40	
TOTAL MARKS (A+B+C)			100	
Note: Only the Bids securing minimum 50-Marks (50%) would be declared technically accepted				

Technical Evaluation of specifications

Bidders are required to produce (attach proof in technical bid) Manufacturer Authorization Letter (MAL) for Sales/ distribution of items and the items with same specs should be available at manufacturer website.

Schedule of requirements



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BOQ

Sr. #	Name of Equipment/Items	Specifications/Features (Required by Procuring Agency)	Qty
1	Binocular Microscope (student)	<p>Optical system: Plan achromat (or equivalent) with anti-fungal coating; Binocular head 30° inclination, 360° rotatable; interpupillary 48–75 mm; diopter ±5. Eyepieces: WF10× (field number 18–20). Objectives: 4×, 10×, 40× spring, 100× oil immersion (standard thread). Stage: double-layer mechanical stage ~140×140 mm with X–Y travel ≥75×50 mm; slide holder. Focus: coaxial coarse & fine; fine focus division ≤2 μm; rack stop. Condenser: Abbe NA 1.25 with iris diaphragm; centerable. Illumination: LED with intensity control; input 220–240 V, 50 Hz. Accessories: immersion oil, dust cover, spare fuse; operating manual. Warranty: ≥1 year; installation/commissioning included.</p>	10
2	Hematology Analyzer (3-part)	<p>Type: automated hematology analyzer with 3-part WBC differential (Lymph/Mid/Gran). Parameters: ≥20 CBC parameters including WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, RDW, MPV (or equivalent). Throughput: ≥60 tests/hour. Sample: whole blood; sample volume ≤20 μL; open-vial; capillary/venous compatible. Display/Storage: color display; memory ≥10,000 results with histograms. QC/Calibration: built-in QC program with Levey–Jennings, flagging, calibration menu. Interfaces: USB + LAN/RS232; LIS/HL7 capable (or equivalent). Deliverables: startup reagents/consumables, printer (built-in or external), installation & user training. Warranty: ≥1 year with local service support; preventive maintenance plan offered.</p>	01



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3	ESR Stand + Tubes (Westergren)	Method: Westergren ESR measurement set compatible with ICSH recommendations (or equivalent). Stand: stable, corrosion-resistant rack for ≥ 3 tubes; accurate vertical alignment; spill tray; easy cleaning. Tubes: 200 mm graduated ESR tubes (0–200 mm), glass or medical-grade plastic; supplied with caps/adapters as needed. Accessories: cleaning brush, tube holders/adapters; instruction sheet.	03
4	Neubauer Chamber (Improved)	Type: Improved Neubauer hemocytometer with double ruling. Material: precision optical glass; chamber depth 0.1 mm (± 0.002 mm). Ruling: 9 large squares (1 mm ²) with RBC/WBC sub-squares as per Neubauer pattern; permanent etched grid. Includes: special thick coverslips (No. 4 / ~ 0.4 mm) ≥ 2 pcs; protective case. Use: manual cell counting (RBC/WBC/platelets) and teaching demonstrations.	05
5	Hematocrit Centrifuge	Type: microhematocrit centrifuge for capillary tubes. Capacity: ≥ 24 capillary tubes with safety lid lock. Speed: adjustable up to $\geq 12,000$ rpm (RCF $\geq 12,000 \times g$) with digital rpm/RCF display. Timer: 1–99 min; automatic stop; imbalance detection. Safety: lid interlock; over-speed/over-temperature protection; noise ≤ 65 dB. Accessories: tube holders/adapters; reader/scale if available; spare fuses. Power: 220–240 V, 50 Hz. Warranty: ≥ 1 year.	01
6	Semi-Auto Chemistry Analyzer	Type: semi-automatic clinical chemistry analyzer (photometric). Wavelength: 340–700 nm via ≥ 8 filters or monochromator; includes 340, 405, 450, 505, 546, 578, 630 nm (or equivalent). Modes: endpoint, kinetic, fixed-time, multi-standard; absorbance and concentration calculation. Optics/Flow cell: quartz/glass flow cell; low sample volume ≤ 20 μ L; reagent volume configurable.	01



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		<p>Temperature: incubator 25/30/37 °C with stability $\pm 0.1-0.2$ °C. Performance: photometric accuracy $\pm 1\%$ or better; resolution 0.001 Abs (or equivalent). Interfaces: printer output and USB/RS232/LAN (as available); LIS capable (preferred). Deliverables: starter reagents/QC material, installation, calibration and training. Warranty: ≥ 1 year.</p>	
7	UV-Vis Spectrophotometer	<p>Type: UV-Visible spectrophotometer. Wavelength range: 190–1100 nm; bandwidth ≤ 2 nm. Wavelength accuracy: $\pm 0.5-1.0$ nm; repeatability ≤ 0.2 nm. Photometric range: 0–200%T; -0.3 to 3.0 Abs (or better). Photometric accuracy: $\pm 0.3\%T$ or ± 0.005 Abs (or equivalent). Light sources: deuterium (UV) + tungsten-halogen (Vis) with automatic switching. Detector: silicon photodiode. Modes: Abs/%T, concentration, kinetics, spectrum scan. Sample compartment: supports 10 mm cuvettes; includes quartz & glass cuvettes starter set. Interface: USB for data export/software. Warranty: ≥ 1 year.</p>	01
8	Bench-top Centrifuge (swing rotor)	<p>Type: bench-top centrifuge with swing-out rotor for clinical tubes. Rotor: swing rotor supporting 15 mL/50 mL tubes (e.g., 8×15 mL or 4×50 mL) with adapters; sealed buckets preferred. Speed/RCF: max speed $\geq 4,000-5,000$ rpm (RCF $\geq 3,000-4,500 \times g$) with digital rpm/RCF display. Timer: 1–99 min plus continuous mode. Safety: lid lock, imbalance detection, emergency lid release. Brake: adjustable electronic braking. Power: 220–240 V, 50 Hz. Warranty: ≥ 1 year; installation/training included.</p>	02
9	Water Bath (digital)	<p>Type: digital thermostatic water bath. Capacity: $\geq 10-20$ L stainless steel tank with lid. Temperature range: ambient $+5$ °C to 100 °C; stability ± 0.2 °C; uniformity ± 0.5 °C. Controller: PID</p>	02



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		digital controller with display; over-temperature protection. Features: drain valve, low-water protection; corrosion-resistant chamber. Power: 220–240 V. Warranty: ≥ 1 year.	
10	Analytical Balance	Type: analytical balance. Capacity: ≥ 200 g; readability 0.0001 g (0.1 mg). Repeatability: ≤ 0.1 mg; linearity ≤ 0.2 mg (or equivalent). Pan: stainless steel with draft shield (3-door). Calibration: internal calibration preferred; otherwise external with supplied certified weight. Interface: RS232/USB. Accessories: leveling feet, spirit level, dust cover. Warranty: ≥ 1 year.	01
11	Micropipettes (set)	Set: adjustable micropipettes covering 0.1–2 μL , 2–20 μL , 20–200 μL , 100–1000 μL (or equivalent). Performance: ISO 8655 compliant; calibration certificate provided. Features: volume lock, ergonomic handle, color coding, tip ejector; autoclavable lower parts. Accessories: stand, tool kit, spare seals/O-rings. Warranty: ≥ 1 year; local calibration/service support.	04 Set
12	Tips (assorted)	Pipette tips: universal fit compatible with supplied pipettes. Sizes: 10 μL , 200 μL , 1000 μL (assorted). Quality: sterile, DNase/RNase-free, pyrogen-free (preferred). Packaging: racked and/or refills; filtered tips for aerosol-sensitive work (optional). Quantity: sufficient starter stock for routine teaching practicals.	10 Boxes
13	Lab Refrigerator	Type: laboratory refrigerator (medical/lab grade). Temperature: 2–8 $^{\circ}\text{C}$; accuracy ± 1 $^{\circ}\text{C}$; digital display. Capacity: ≥ 250 –350 L with adjustable shelves and internal light. Alarms: high/low temperature and door-ajar alarm (preferred); min/max memory. Logging: built-in data logging or external logger port (preferred). Features: lock,	02



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		eco-friendly refrigerant. Power: 220–240 V. Warranty: ≥1 year; installation included.	
14	Deep Freezer	Type: laboratory deep freezer (upright or chest). Temperature: -20 °C setpoint (or -40 °C if required) with digital control; stability ±2 °C. Capacity: ≥250–350 L. Features: high/low temperature alarm, lock, baskets/shelves; eco-friendly refrigerant. Power: 220–240 V. Warranty: ≥1 year; commissioning included.	01
15	Biosafety Cabinet Class II	Class: Biosafety Cabinet Class II Type A2 (or equivalent). Size: ~4 ft working width (≈1.2 m) or as per lab need. Filtration: supply & exhaust HEPA filters, 99.97% at 0.3 μm; pre-filter included. Airflow: microprocessor-controlled downflow/inflow with audible/visual airflow alarms. Construction: stainless steel work surface; tempered glass sash; UV germicidal lamp with interlock + timer; work light. Utilities: 1–2 electrical outlets; gas/water taps optional. Noise: ≤65 dB. Deliverables: DOP/PAO test certificate or airflow performance certificate (preferred), installation & training. Warranty: ≥1 year with local support.	01
16	Laminar Flow Cabinet	Type: laminar airflow clean bench (vertical or horizontal). HEPA filter: 99.97% at 0.3 μm with pre-filter. Working area: stainless steel; size 3–4 ft (as required). Air velocity: 0.3–0.5 m/s uniform flow with pressure gauge/manometer. Lighting: fluorescent/LED plus optional UV lamp with timer/interlock. Use: aseptic media preparation (not for hazardous biological agents). Power: 220–240 V. Warranty: ≥1 year; installation included.	01
17	Autoclave (vertical)	Type: vertical steam autoclave. Chamber: stainless steel; capacity ≥50–75 L. Cycles: 121 °C (15 psi) and 134 °C (as applicable);	01



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		<p>programmable time 0–99 min. Control: digital/microprocessor with cycle display; automatic exhaust; drying function preferred. Safety: over-pressure valve, low-water cut-off, door safety lock, over-temperature protection. Accessories: stainless baskets/trays; drain pipe/hose. Deliverables: installation, validation indicator pack starter, user training. Warranty: ≥1 year.</p>	
18	Incubator (bacterial)	<p>Type: bacteriological incubator. Temperature range: ambient +5 °C to 60 °C; stability ±0.5 °C; uniformity ≤±1.0 °C. Capacity: ≥100–200 L with adjustable shelves. Control: digital PID with over-temperature safety cut-off. Interior: stainless steel or easy-clean coated chamber; inner glass door preferred. Power: 220–240 V. Warranty: ≥1 year.</p>	01
19	Hot Air Oven	<p>Type: laboratory hot air oven for dry heat sterilization. Temperature range: 50–250/300 °C; accuracy ±1–2 °C; uniformity ≤±5 °C. Chamber: stainless steel; capacity ≥50–100 L. Control: digital PID; timer; safety cut-off. Air circulation: forced convection fan preferred. Power: 220–240 V. Warranty: ≥1 year.</p>	01
20	Colony Counter	<p>Type: digital colony counter. Counting range: 0–999 colonies with illuminated background. Plate support: 90–150 mm Petri dishes. Features: magnifier ≥3×; pressure-sensitive counting probe/marker; digital display with reset. Power: 220–240 V or rechargeable option. Warranty: ≥1 year.</p>	01
21	Kjeldahl Digestion + Distillation	<p>System: Kjeldahl unit with digestion block + distillation for nitrogen/protein analysis. Digestion block: ≥6 positions; temperature up to 450 °C; programmable ramp/hold; tube size suitable for food samples. Fume handling: compatible fume manifold/scrubber (preferred). Distillation:</p>	01



		<p>steam distillation with adjustable steam power; boric acid receiver; automatic dilution preferred. Safety: acid-resistant components; over-temp protection; automatic steam cut-off. Deliverables: glassware set, starter chemicals list, installation & training. Warranty: ≥ 1 year; local service support.</p>	
22	Soxhlet Extraction (6-place)	<p>Type: Soxhlet extraction apparatus, 6-place. Glassware: borosilicate extractors, condensers, 250 mL flasks (or equivalent). Heating: electric heating mantle with individual temperature controls. Cooling: water manifold with hoses/connectors. Accessories: cellulose thimbles, clamps/stands, spare seals. Application: fat/oil extraction from food samples. Warranty: ≥ 1 year.</p>	01
23	Muffle Furnace	<p>Type: muffle furnace for ash/mineral analysis. Max temperature: $\geq 1100-1200$ °C. Chamber: ceramic fiber insulation; volume $\geq 5-10$ L. Controller: programmable PID with ramp/soak profiles; digital display. Safety: over-temperature protection; door safety switch. Power: 220-240 V. Warranty: ≥ 1 year.</p>	01
24	pH Meter	<p>Type: bench-top pH meter with ATC. Range: pH 0-14; resolution 0.01/0.001; accuracy ± 0.01 pH (or better). mV: ± 1999 mV; temperature: 0-100 °C. Calibration: 2-5 point with buffer recognition; slope/offset display. Electrodes: combined glass pH electrode + temperature probe; buffers and storage solution starter pack. Warranty: ≥ 1 year.</p>	04
25	Moisture Analyzer	<p>Type: halogen/IR moisture analyzer. Capacity: $\geq 100-200$ g; readability 0.001 g. Moisture range: 0.01-100%; temperature 40-200 °C programmable. Modes: standard/rapid/step drying; end-point by time or stability. Accessories: sample pans, pan lifter;</p>	01



		protective cover. Warranty: ≥ 1 year.	
26	Food Homogenizer/Grinder	Type: food homogenizer/grinder for sample preparation. Bowl: stainless steel, $\geq 1-2$ L with sealed lid; removable and washable. Motor/Speed: heavy-duty motor with variable speed; suitable for dry & wet foods. Output: uniform homogenate for proximate analysis (moisture, fat, protein, ash). Safety: lid interlock; overload protection. Power: 220-240 V. Warranty: ≥ 1 year.	01
27	Spirometer (digital)	Type: portable digital spirometer. Measures: FVC, FEV1, FEV1/FVC, PEF, FEF25-75 (or equivalent). Accuracy: conforms to ATS/ERS guidance or equivalent; volume accuracy $\pm 3\%$ (typical). Storage: ≥ 500 tests with patient profiles; report generation via USB/Bluetooth (as available). Accessories: disposable mouthpieces, nose clips; turbine/flow sensor type specified. Power: rechargeable battery + adapter. Warranty: ≥ 1 year.	01
28	BP Apparatus (manual + digital mix)	Supply mix: aneroid sphygmomanometers + digital upper-arm BP monitors for teaching. Aneroid: 0-300 mmHg; accuracy ± 3 mmHg; adult cuff and inflation bulb; stethoscope included. Digital: validated automatic monitors with memory storage; irregular heartbeat indicator preferred. Compliance: clinical validation (BHS/AAMI/ESH or equivalent). Warranty: ≥ 1 year.	06
29	Glucometer	Type: glucometer for capillary glucose testing demonstrations. Range: approx. 20-600 mg/dL (or equivalent). Accuracy: compliant with ISO 15197:2013 (or latest applicable). Sample volume: ≤ 1 μ L; result time ≤ 5 seconds. Features: ≥ 500 -result memory; averaging; no-coding preferred. Includes: starter strips, lancets, lancing	10



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		device, control solution. Warranty: ≥ 1 year.	
30	Anthropometric Kit	Kit includes: portable stadiometer (≥ 20 – 210 cm; ± 0.1 cm), digital weighing scale (≥ 200 kg; ± 0.1 kg), non-stretch tape (150 cm), skinfold caliper (0–40 mm; ± 0.2 mm), MUAC tape, waist-hip tape, carry case; optional infant length board. Suitable for nutrition assessment practicals.	02
31	Body Composition Analyzer	Type: body composition analyzer using bioelectrical impedance (BIA). Outputs: weight, BMI, body fat %, fat mass, fat-free mass, skeletal muscle %, total body water (or equivalent). Capacity: ≥ 200 kg; increment 0.1 kg. Profiles: ≥ 10 users; athlete/standard modes. Display: large LCD; optional print/PC connectivity. Notes: include contraindication guidance for pacemakers. Warranty: ≥ 1 year.	02
32	Ultra-pure water purification system	Ultra-pure water purification system (ASTM Type-I), resistivity 18.2 M Ω -cm at 25°C, conductivity ≤ 0.055 μ S/cm, TOC ≤ 5 ppb, bacterial count < 1 CFU/ml, particle free > 0.22 μ m, compliance with ASTM Type-I / ISO 3696 Grade-1, multi-stage purification including sediment filter, activated carbon, reverse osmosis, mixed-bed deionization, UV 185/254 nm, ultrafiltration, final 0.22 μ m sterile filter, production capacity approx. 10–15 L/hr or 1–2 L/min dispensing, digital resistivity/conductivity display, cartridge life indicator, automatic flushing, water quality alarms, microprocessor controlled, compatible with potable tap water feed, 220–240 V, 50 Hz, installation kit and consumables included, minimum one-year warranty with local service,	01
33	Hot Plate With magnetic stirrer	Hot plate with magnetic stirrer (laboratory grade), digital temperature control, temperature range approx. ambient to 300–350 °C, temperature accuracy about	10



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		±1 °C, stirring speed approx. 100–1500 rpm (variable), stirring capacity about 2–5 L, ceramic or coated aluminium plate (~150–180 mm), simultaneous heating and stirring function, digital display for temperature and speed, corrosion-resistant body, over-temperature safety protection, operates on 220–240 V 50 Hz suppl	
34	Vortex mixer	Vortex mixer (laboratory grade), variable speed approx. 100–3000 rpm or better, touch and continuous operation modes, orbital diameter approx. 4 mm, suitable for test tubes, vials and small flasks up to ~50 ml, stable anti-slip base with low vibration, compact bench-top design, analog/digital speed control, durable chemical-resistant body, low noise motor, operates on 220–240 V, 50 Hz supply, complete with standard accessories, minimum one-year warranty with local service support	04
35	Centrifuge Machine	High-speed microcentrifuge (bench-top), suitable for Eppendorf tubes, maximum speed approx. 15,000 rpm or higher, RCF approx. 15,000–20,000×g, rotor capacity approx. 12–24 × 1.5/2.0 ml tubes, compatible with 0.2 and 0.5 ml adapters, digital speed/time display, timer 1–99 min or continuous, brushless maintenance-free motor, low noise ≤60 dB, lid safety lock with imbalance protection, microprocessor controlled operation, corrosion-resistant chamber, operates on 220–240 V 50 Hz supply, complete with rotor and adapters, minimum one-year warranty with local service support,	01



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3. Financial Evaluation (Abstract of Qty / Cost) for The Procurement of Lab Equipment for Allied Health Sciences at University of Kamalia

Sr. #	Name of Equipment/Items	Specifications/Features	Qty	Unit Rate including all Taxes	Total Price (Rs) with All Taxes
1	Binocular Microscope (student)	Optical system: Plan achromat (or equivalent) with anti-fungal coating; Binocular head 30° inclination, 360° rotatable; interpupillary 48–75 mm; diopter ±5. Eyepieces: WF10× (field number 18–20). Objectives: 4×, 10×, 40× spring, 100× oil immersion (standard thread). Stage: double-layer mechanical stage ~140×140 mm with X–Y travel ≥75×50 mm; slide holder. Focus: coaxial coarse & fine; fine focus division ≤2 μm; rack stop. Condenser: Abbe NA 1.25 with iris diaphragm; centerable. Illumination: LED with intensity control; input 220–240 V, 50 Hz. Accessories: immersion oil, dust cover, spare fuse; operating manual. Warranty: ≥1 year; installation/commissioning included.	10		
2	Hematology Analyzer (3-part)	Type: automated hematology analyzer with 3-part WBC differential (Lymph/Mid/Gran). Parameters: ≥20 CBC parameters including WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, RDW, MPV (or equivalent). Throughput: ≥60 tests/hour. Sample: whole blood; sample volume ≤20 μL; open-vial; capillary/venous compatible. Display/Storage: color display; memory ≥10,000 results with histograms. QC/Calibration: built-in QC program with Levey–Jennings, flagging, calibration menu. Interfaces: USB + LAN/RS232; LIS/HL7 capable (or equivalent). Deliverables: startup reagents/consumables, printer (built-in or external),	01		



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		installation & user training. Warranty: ≥1 year with local service support; preventive maintenance plan offered.			
3	ESR Stand + Tubes (Westergren)	Method: Westergren ESR measurement set compatible with ICSH recommendations (or equivalent). Stand: stable, corrosion-resistant rack for ≥3 tubes; accurate vertical alignment; spill tray; easy cleaning. Tubes: 200 mm graduated ESR tubes (0–200 mm), glass or medical-grade plastic; supplied with caps/adapters as needed. Accessories: cleaning brush, tube holders/adapters; instruction sheet.	03		
4	Neubauer Chamber (Improved)	Type: Improved Neubauer hemocytometer with double ruling. Material: precision optical glass; chamber depth 0.1 mm (±0.002 mm). Ruling: 9 large squares (1 mm ²) with RBC/WBC sub-squares as per Neubauer pattern; permanent etched grid. Includes: special thick coverslips (No. 4 / ~0.4 mm) ≥2 pcs; protective case. Use: manual cell counting (RBC/WBC/platelets) and teaching demonstrations.	05		
5	Hematocrit Centrifuge	Type: microhematocrit centrifuge for capillary tubes. Capacity: ≥24 capillary tubes with safety lid lock. Speed: adjustable up to ≥12,000 rpm (RCF ≥12,000×g) with digital rpm/RCF display. Timer: 1–99 min; automatic stop; imbalance detection. Safety: lid interlock; over-speed/over-temperature protection; noise ≤65 dB. Accessories: tube holders/adapters; reader/scale if available; spare fuses. Power: 220–240 V, 50 Hz. Warranty: ≥1 year.	01		
6	Semi-Auto Chemistry Analyzer	Type: semi-automatic clinical chemistry analyzer (photometric). Wavelength: 340–700 nm via ≥8 filters or monochromator; includes 340, 405, 450, 505, 546, 578, 630 nm (or equivalent). Modes: endpoint, kinetic, fixed-time, multi-standard; absorbance and concentration calculation.	01		



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		<p>Optics/Flow cell: quartz/glass flow cell; low sample volume $\leq 20 \mu\text{L}$; reagent volume configurable. Temperature: incubator 25/30/37 °C with stability $\pm 0.1-0.2$ °C. Performance: photometric accuracy $\pm 1\%$ or better; resolution 0.001 Abs (or equivalent). Interfaces: printer output and USB/RS232/LAN (as available); LIS capable (preferred). Deliverables: starter reagents/QC material, installation, calibration and training. Warranty: ≥ 1 year.</p>			
7	UV-Vis Spectrophotometer	<p>Type: UV-Visible spectrophotometer. Wavelength range: 190–1100 nm; bandwidth ≤ 2 nm. Wavelength accuracy: $\pm 0.5-1.0$ nm; repeatability ≤ 0.2 nm. Photometric range: 0–200%T; -0.3 to 3.0 Abs (or better). Photometric accuracy: $\pm 0.3\%T$ or ± 0.005 Abs (or equivalent). Light sources: deuterium (UV) + tungsten-halogen (Vis) with automatic switching. Detector: silicon photodiode. Modes: Abs/%T, concentration, kinetics, spectrum scan. Sample compartment: supports 10 mm cuvettes; includes quartz & glass cuvettes starter set. Interface: USB for data export/software. Warranty: ≥ 1 year.</p>	01		
8	Bench-top Centrifuge (swing rotor)	<p>Type: bench-top centrifuge with swing-out rotor for clinical tubes. Rotor: swing rotor supporting 15 mL/50 mL tubes (e.g., 8×15 mL or 4×50 mL) with adapters; sealed buckets preferred. Speed/RCF: max speed $\geq 4,000-5,000$ rpm (RCF $\geq 3,000-4,500\times g$) with digital rpm/RCF display. Timer: 1–99 min plus continuous mode. Safety: lid lock, imbalance detection, emergency lid release. Brake: adjustable electronic braking. Power: 220–240 V, 50 Hz. Warranty: ≥ 1 year; installation/training included.</p>	02		
9	Water Bath (digital)	<p>Type: digital thermostatic water bath. Capacity: $\geq 10-20$ L stainless steel tank</p>	02		



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		with lid. Temperature range: ambient +5 °C to 100 °C; stability ±0.2 °C; uniformity ±0.5 °C. Controller: PID digital controller with display; over-temperature protection. Features: drain valve, low-water protection; corrosion-resistant chamber. Power: 220–240 V. Warranty: ≥1 year.			
10	Analytical Balance	Type: analytical balance. Capacity: ≥200 g; readability 0.0001 g (0.1 mg). Repeatability: ≤0.1 mg; linearity ≤0.2 mg (or equivalent). Pan: stainless steel with draft shield (3-door). Calibration: internal calibration preferred; otherwise external with supplied certified weight. Interface: RS232/USB. Accessories: leveling feet, spirit level, dust cover. Warranty: ≥1 year.	01		
11	Micropipettes (set)	Set: adjustable micropipettes covering 0.1–2 µL, 2–20 µL, 20–200 µL, 100–1000 µL (or equivalent). Performance: ISO 8655 compliant; calibration certificate provided. Features: volume lock, ergonomic handle, color coding, tip ejector; autoclavable lower parts. Accessories: stand, tool kit, spare seals/O-rings. Warranty: ≥1 year; local calibration/service support.	04 Set		
12	Tips (assorted)	Pipette tips: universal fit compatible with supplied pipettes. Sizes: 10 µL, 200 µL, 1000 µL (assorted). Quality: sterile, DNase/RNase-free, pyrogen-free (preferred). Packaging: racked and/or refills; filtered tips for aerosol-sensitive work (optional). Quantity: sufficient starter stock for routine teaching practicals.	10 Boxes		
13	Lab Refrigerator	Type: laboratory refrigerator (medical/lab grade). Temperature: 2–8 °C; accuracy ±1 °C; digital display. Capacity: ≥250–350 L with adjustable shelves and internal light. Alarms: high/low temperature and door-ajar alarm (preferred);	02		



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		min/max memory. Logging: built-in data logging or external logger port (preferred). Features: lock, eco-friendly refrigerant. Power: 220–240 V. Warranty: ≥1 year; installation included.			
14	Deep Freezer	Type: laboratory deep freezer (upright or chest). Temperature: -20 °C setpoint (or -40 °C if required) with digital control; stability ±2 °C. Capacity: ≥250–350 L. Features: high/low temperature alarm, lock, baskets/shelves; eco-friendly refrigerant. Power: 220–240 V. Warranty: ≥1 year; commissioning included.	01		
15	Biosafety Cabinet Class II	Class: Biosafety Cabinet Class II Type A2 (or equivalent). Size: ~4 ft working width (≈1.2 m) or as per lab need. Filtration: supply & exhaust HEPA filters, 99.97% at 0.3 μm; pre-filter included. Airflow: microprocessor-controlled downflow/inflow with audible/visual airflow alarms. Construction: stainless steel work surface; tempered glass sash; UV germicidal lamp with interlock + timer; work light. Utilities: 1–2 electrical outlets; gas/water taps optional. Noise: ≤65 dB. Deliverables: DOP/PAO test certificate or airflow performance certificate (preferred), installation & training. Warranty: ≥1 year with local support.	01		
16	Laminar Flow Cabinet	Type: laminar airflow clean bench (vertical or horizontal). HEPA filter: 99.97% at 0.3 μm with pre-filter. Working area: stainless steel; size 3–4 ft (as required). Air velocity: 0.3–0.5 m/s uniform flow with pressure gauge/manometer. Lighting: fluorescent/LED plus optional UV lamp with timer/interlock. Use: aseptic media preparation (not for hazardous biological agents). Power: 220–240 V. Warranty: ≥1 year; installation included.	01		



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17	Autoclave (vertical)	Type: vertical steam autoclave. Chamber: stainless steel; capacity ≥50–75 L. Cycles: 121 °C (15 psi) and 134 °C (as applicable); programmable time 0–99 min. Control: digital/microprocessor with cycle display; automatic exhaust; drying function preferred. Safety: over-pressure valve, low-water cut-off, door safety lock, over-temperature protection. Accessories: stainless baskets/trays; drain pipe/hose. Deliverables: installation, validation indicator pack starter, user training. Warranty: ≥1 year.	01		
18	Incubator (bacterial)	Type: bacteriological incubator. Temperature range: ambient +5 °C to 60 °C; stability ±0.5 °C; uniformity ≤±1.0 °C. Capacity: ≥100–200 L with adjustable shelves. Control: digital PID with over-temperature safety cut-off. Interior: stainless steel or easy-clean coated chamber; inner glass door preferred. Power: 220–240 V. Warranty: ≥1 year.	01		
19	Hot Air Oven	Type: laboratory hot air oven for dry heat sterilization. Temperature range: 50–250/300 °C; accuracy ±1–2 °C; uniformity ≤±5 °C. Chamber: stainless steel; capacity ≥50–100 L. Control: digital PID; timer; safety cut-off. Air circulation: forced convection fan preferred. Power: 220–240 V. Warranty: ≥1 year.	01		
20	Colony Counter	Type: digital colony counter. Counting range: 0–999 colonies with illuminated background. Plate support: 90–150 mm Petri dishes. Features: magnifier ≥3×; pressure-sensitive counting probe/marker; digital display with reset. Power: 220–240 V or rechargeable option. Warranty: ≥1 year.	01		
21	Kjeldahl Digestion + Distillation	System: Kjeldahl unit with digestion block + distillation for nitrogen/protein analysis. Digestion block: ≥6 positions; temperature up to 450 °C; programmable	01		



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		<p>ramp/hold; tube size suitable for food samples. Fume handling: compatible fume manifold/scrubber (preferred). Distillation: steam distillation with adjustable steam power; boric acid receiver; automatic dilution preferred. Safety: acid-resistant components; over-temp protection; automatic steam cut-off. Deliverables: glassware set, starter chemicals list, installation & training. Warranty: ≥1 year; local service support.</p>			
22	Soxhlet Extraction (6-place)	<p>Type: Soxhlet extraction apparatus, 6-place. Glassware: borosilicate extractors, condensers, 250 mL flasks (or equivalent). Heating: electric heating mantle with individual temperature controls. Cooling: water manifold with hoses/connectors. Accessories: cellulose thimbles, clamps/stands, spare seals. Application: fat/oil extraction from food samples. Warranty: ≥1 year.</p>	01		
23	Muffle Furnace	<p>Type: muffle furnace for ash/mineral analysis. Max temperature: ≥1100–1200 °C. Chamber: ceramic fiber insulation; volume ≥5–10 L. Controller: programmable PID with ramp/soak profiles; digital display. Safety: over-temperature protection; door safety switch. Power: 220–240 V. Warranty: ≥1 year.</p>	01		
24	pH Meter	<p>Type: bench-top pH meter with ATC. Range: pH 0–14; resolution 0.01/0.001; accuracy ±0.01 pH (or better). mV: ±1999 mV; temperature: 0–100 °C. Calibration: 2–5 point with buffer recognition; slope/offset display. Electrodes: combined glass pH electrode + temperature probe; buffers and storage solution starter pack. Warranty: ≥1 year.</p>	04		
25	Moisture Analyzer	<p>Type: halogen/IR moisture analyzer. Capacity: ≥100–200 g; readability 0.001 g. Moisture range: 0.01–100%; temperature 40–200 °C programmable. Modes: standard/rapid/step drying;</p>	01		



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		end-point by time or stability. Accessories: sample pans, pan lifter; protective cover. Warranty: ≥ 1 year.			
26	Food Homogenizer/Grinder	Type: food homogenizer/grinder for sample preparation. Bowl: stainless steel, $\geq 1-2$ L with sealed lid; removable and washable. Motor/Speed: heavy-duty motor with variable speed; suitable for dry & wet foods. Output: uniform homogenate for proximate analysis (moisture, fat, protein, ash). Safety: lid interlock; overload protection. Power: 220-240 V. Warranty: ≥ 1 year.	01		
27	Spirometer (digital)	Type: portable digital spirometer. Measures: FVC, FEV1, FEV1/FVC, PEF, FEF25-75 (or equivalent). Accuracy: conforms to ATS/ERS guidance or equivalent; volume accuracy $\pm 3\%$ (typical). Storage: ≥ 500 tests with patient profiles; report generation via USB/Bluetooth (as available). Accessories: disposable mouthpieces, nose clips; turbine/flow sensor type specified. Power: rechargeable battery + adapter. Warranty: ≥ 1 year.	01		
28	BP Apparatus (manual + digital mix)	Supply mix: aneroid sphygmomanometers + digital upper-arm BP monitors for teaching. Aneroid: 0-300 mmHg; accuracy ± 3 mmHg; adult cuff and inflation bulb; stethoscope included. Digital: validated automatic monitors with memory storage; irregular heartbeat indicator preferred. Compliance: clinical validation (BHS/AAMI/ESH or equivalent). Warranty: ≥ 1 year.	06		
29	Glucometer	Type: glucometer for capillary glucose testing demonstrations. Range: approx. 20-600 mg/dL (or equivalent). Accuracy: compliant with ISO 15197:2013 (or latest applicable). Sample volume: ≤ 1 μ L; result time ≤ 5 seconds. Features: ≥ 500 -result memory;	10		



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		<p>averaging; no-coding preferred. Includes: starter strips, lancets, lancing device, control solution. Warranty: ≥ 1 year.</p>			
30	Anthropometric Kit	<p>Kit includes: portable stadiometer (≥ 20–210 cm; ± 0.1 cm), digital weighing scale (≥ 200 kg; ± 0.1 kg), non-stretch tape (150 cm), skinfold caliper (0–40 mm; ± 0.2 mm), MUAC tape, waist-hip tape, carry case; optional infant length board. Suitable for nutrition assessment practicals.</p>	02		
31	Body Composition Analyzer	<p>Type: body composition analyzer using bioelectrical impedance (BIA). Outputs: weight, BMI, body fat %, fat mass, fat-free mass, skeletal muscle %, total body water (or equivalent). Capacity: ≥ 200 kg; increment 0.1 kg. Profiles: ≥ 10 users; athlete/standard modes. Display: large LCD; optional print/PC connectivity. Notes: include contraindication guidance for pacemakers. Warranty: ≥ 1 year.</p>	02		
32	Ultra-pure water purification system	<p>Ultra-pure water purification system (ASTM Type-I), resistivity 18.2 MΩ-cm at 25°C, conductivity ≤ 0.055 μS/cm, TOC ≤ 5 ppb, bacterial count < 1 CFU/ml, particle free > 0.22 μm, compliance with ASTM Type-I / ISO 3696 Grade-1, multi-stage purification including sediment filter, activated carbon, reverse osmosis, mixed-bed deionization, UV 185/254 nm, ultrafiltration, final 0.22 μm sterile filter, production capacity approx. 10–15 L/hr or 1–2 L/min dispensing, digital resistivity/conductivity display, cartridge life indicator, automatic flushing, water quality alarms, microprocessor controlled, compatible with potable tap water feed, 220–240 V, 50 Hz, installation kit and consumables included, minimum one-year warranty with local service,</p>	01		
33	Hot Plate With magnetic stirrer	<p>Hot plate with magnetic stirrer (laboratory grade), digital temperature control,</p>	10		



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		<p>temperature range approx. ambient to 300–350 °C, temperature accuracy about ± 1 °C, stirring speed approx. 100–1500 rpm (variable), stirring capacity about 2–5 L, ceramic or coated aluminium plate (~150–180 mm), simultaneous heating and stirring function, digital display for temperature and speed, corrosion-resistant body, over-temperature safety protection, operates on 220–240 V 50 Hz suppl</p>			
34	Vortex mixer	<p>Vortex mixer (laboratory grade), variable speed approx. 100–3000 rpm or better, touch and continuous operation modes, orbital diameter approx. 4 mm, suitable for test tubes, vials and small flasks up to ~50 ml, stable anti-slip base with low vibration, compact bench-top design, analog/digital speed control, durable chemical-resistant body, low noise motor, operates on 220–240 V, 50 Hz supply, complete with standard accessories, minimum one-year warranty with local service support</p>	04		
35	Centrifuge Machine	<p>High-speed microcentrifuge (bench-top), suitable for Eppendorf tubes, maximum speed approx. 15,000 rpm or higher, RCF approx. 15,000–20,000×g, rotor capacity approx. 12–24 × 1.5/2.0 ml tubes, compatible with 0.2 and 0.5 ml adapters, digital speed/time display, timer 1–99 min or continuous, brushless maintenance-free motor, low noise ≤ 60 dB, lid safety lock with imbalance protection, microprocessor controlled operation, corrosion-resistant chamber, operates on 220–240 V 50 Hz supply, complete with rotor and adapters, minimum one-year warranty with local service support,</p>	01		

Note: All bidders are required to submit item-wise rates for the laboratory items quoted in the bidding document (Sr. No. 1-31). The financial evaluation shall be carried out on item-wise basis, and comparison of bids will be made separately for each item. The supply order(s) shall be issued item-wise to the technically qualified and financially lowest evaluated bidder(s) for each respective item, in accordance with PPRA Rules, Punjab. The



Procuring Agency reserves the right to award one or more items to different successful bidders based on item-wise financial evaluation and responsiveness of the bids.

4. Award of Contract

2.6.5	Percentage for quantity increase or decrease is: [Less or More 15%].
2.6.2	The Performance Guarantee shall be: [Insert: amount up to 10 percent of the Contract Price]
2.6.2	The Performance Security (or guarantee) shall be in the form of: [Pay Order/Demand Draft/CDR etc.]

7.1 Schedule of Requirements

[The Procuring Agency should formulate Schedule of requirement in accordance with PPR-14 keeping in view its requirements, nature of procurement i.e. Bulk/Framework, item wise/package wise and form of contract to be adopted (i.e. DDP, CIF, C&F, FOR, FOP etc. if applicable). However, for a standard procurement/contract, contents of schedule of requirement may be as follows.]

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

Number	Description	Quantity	Delivery schedule (shipment) in weeks/months from _____ ¹
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In order to determine the correct date of delivery hereafter specified, the Procuring Agency has taken into account the additional time that will be needed for international or national transit to the Project Site or to another common place.

Number	Description	Quantity	Delivery schedule (shipment) in weeks

Note: [The Procuring Agency should provide clear cut instructions and methodology regarding the delivery schedule in case of framework contract]. The Procuring Agency must specify here the date from which the delivery schedule will start. That date should be either the date of contract award, or the date of contract signature, or the date of opening of letter of credit, or the date of confirmation of the Letter of Credit, as appropriate. The Bid Form should include only a cross-reference to this Schedule

8.4. Bidder Profile Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

Sr.#	Particulars
1.	Name of the company:
2.	Registered Office:
Address:	
Office Telephone Number:	



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Fax Number:	
3.	Contact Person:
Name:	
Personal Telephone Number:	
Email Address:	
4.	Local office if any:
Address:	
Office Telephone Number:	
Fax Number:	
5.	Registration Details:

a) Details of Experience (Last ____ Years)

(i)	Similar Project (Agency/Department)	Item Name

8.5. General Information Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

Particulars			
Company Name			
Abbreviated Name			
National Tax No.		Sales Tax Registration No	
PRA Tax No.			
No. of Employees		Company's Date of Formation	

Note: *Please attach copies of NTN, GST Registration & Professional Tax Certificate

Registered Office Address		State/Province	
City/Town		Postal Code	
Phone		Fax	
Email Address		Website Address	



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8.6. Affidavit

[To be printed on PKR 100 Stamp Paper, duly attested by oath commissioner. To be attached with Technical Bid]

Name: _____

(Applicant)

I, the undersigned, do hereby certify that all the statements made in the Bidding document and in the supporting documents are true, correct and valid to the best of my knowledge and belief and may be verified by employer if the Employer, at any time, deems it necessary.

The undersigned hereby authorize and request the bank, person, company or corporation to furnish any additional information requested by the *[name of Procuring Agency]* of the Punjab deemed necessary to verify this statement regarding my (our) competence and general reputation.

The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the *[name of Procuring Agency]*. The undersigned further affirms on behalf of the firm that:

- (i) The firm is not currently blacklisted by the Procuring Agency.
- (ii) The documents/photocopies provided with Bid are authentic. In case, any fake/bogus document was found at any stage, the firm shall be blacklisted as per Law/ Rules.
- (iii) Affidavit for correctness of information.
- (iv) *****omitted*****

[Name of the Contractor/ Bidder/ Supplier] undertakes to treat all information provided as confidential.

Signed by an authorized Officer of the company

Title of Officer: _____

Name of Company: _____

Date: _____



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8.7. Performance Guarantee Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

To,

[The Vice Chancellor, University of Kamalia]

WHEREAS (Name _____ of _____ the _____ Contractor/ _____ Supplier) _____ hereinafter called "the Contractor" has undertaken, in pursuance of "INVITATION TO BID FOR THE "PROVISION OF _____" procurement of the following:

1. [**Please insert details**].

(Here in after called "the Contract").

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

AND WHEREAS we have agreed to give the Contractor a Guarantee;

THEREFORE WE hereby affirm that we are Guarantor and responsible to you, on behalf of the Contractor, 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 Contractor to be in default under the Contract, and without cavil or argument, any sum or sums as specified by you, 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 _____ day of _____, 20____, or _____ [insert number of days] after the rectification of the Defects, whichever is later.

[NAME OF GUARANTOR]

Signature _____

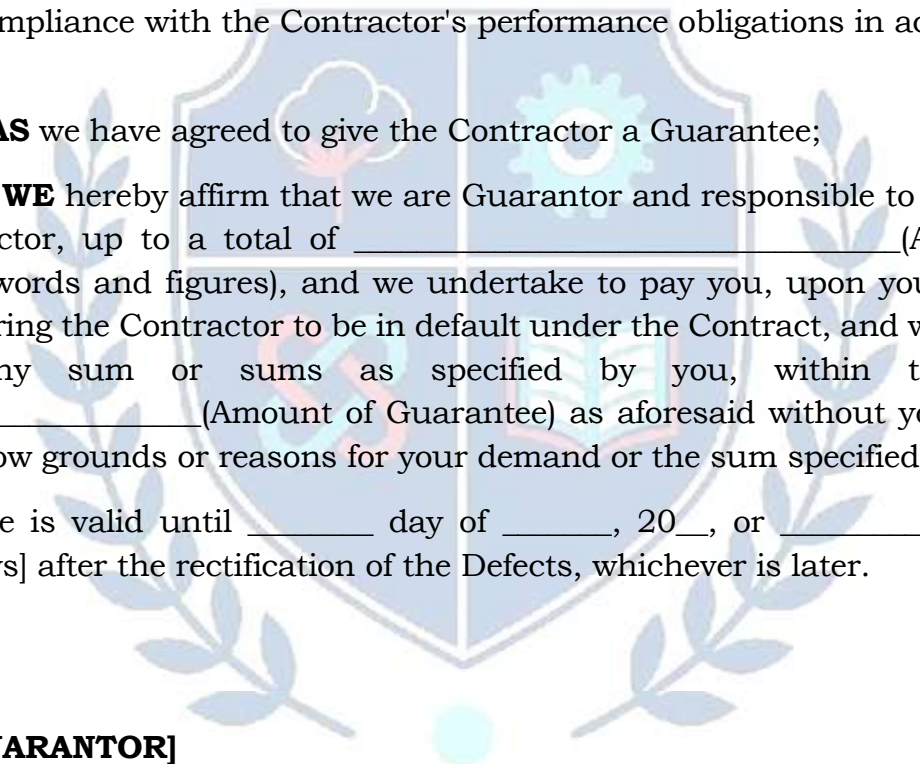
Name _____

Title _____

Address _____

Seal _____

Date _____



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8.9. Contract Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

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

WHEREAS the Procuring Agency invited Bids for certain goods and ancillary services, viz., *[brief description of goods and services]* and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of *[contract price in words and figures]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Bid Form and the Price Schedule submitted by the Bidder;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract;
 - (e) the Special Conditions of Contract; and
 - (f) the Procuring Agency’s Notification of Award.
 - (g) Contract agreement
 - (h) Complete Bidding document
3. In consideration of the payments to be made by the Procuring Agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Agency to provide the goods and services and to rectify defects therein in conformity with all respects in accordance with the provisions of the Contract.
4. The Procuring Agency hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the rectification of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year mentioned above.

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

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



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8.11. Bid Security Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Financial Bid]

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

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

THE CONDITIONS of this obligation are:

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

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

This guarantee will remain in force up to and including thirty (30) days after the period of Bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

[Signature of the bank]



Section IX- Check List

[To be signed and stamped and presented on Bidder's letter head pad]

The provision of this checklist is essential prerequisite along with submission of tenders (with technical proposal).

Sr. #	Detail	Responsive	Non-responsive
1	Original receipt for purchase of tender along with Standard Bidding Documents.		
2	02% Bid Security of estimated cost of articles / items given by the department. The Bid security must be submitted with technical proposal.		
3	All required samples (if demanded) have been submitted in [University of Kamalia] sample store.		
4	Active Registration with Income Tax Authorities (National Tax Number NTN) at least three years old		
5	Copy of active Registration with Sales Tax Authorities (STRN)		
6	Copy of active Registration (Professional Tax Certificate)		
7	Technical Bid Form on letter head of the firm duly signed and stamped.		
8	Financial Bid Form on letter head of the firm, duly signed and stamped.		
9	Bid Security Form (as per form 8.11 of Bidding documents) on letter head of the firm, duly signed and stamped.		
10	Performance Guarantee Form (as per form 8.7 of Bidding documents) on letter head of the firm, duly signed and stamped.		
11	Affidavit(as per form 8.6) on non-judicial Stamp Paper of Rs. 100/- (i) The firm is not currently blacklisted by the Procuring Agency. (ii) The documents/photocopies provided with Bid are authentic. In case of any fake/bogus document look at any stage. They shall be black listed as per Rules / Laws. (iii) Affidavit for correctness of information. (iv) ****omitted*** Affidavit for correction of information Form (as per form of Bidding documents) on letter head of the firm, duly signed and stamped.		



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12	<p>i. Work order / supply order / purchase order of previous relevant experience.</p> <p>ii. Income Tax Returns/Audited Financial Statement, National tax number Certificate, General Sale Tax Number Certificate (last 03 year).</p> <p>Bidders profile Form (as per form of Bidding documents) on letter head of the firm, duly signed and stamped.</p>		
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Stamp & Signature of Bidder _____



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