

GOVERNMENT COLLEGE WOMEN UNIVERSITY FAISALABAD



TENDER DOCUMENT

FOR

Procurement of Equipment, Chemicals and Glassware

Special Instructions:

- A person who attends the tender (Technical and Financial) bids opening meetings may be owner of company but in case of company representative must have authority letter of company.
- Technical Bids must be submitted on Letter Head of the company.
- Soft Copy of the technical bids must be provided.

Issued to: _____

Tender No. GCWUF/2023-24/07

Table of Contents

S#	Description
	Tender Notice
1	Invitation to the Bid
2	Instructions to the Bidders
	Terms and Conditions of the Tender
3	Definitions
4	Tender Eligibility
5	Amendment of the Tender Document
6	Bid Currency
7	Validity Period of the Bid
8	Bid Security
9	Bid Preparation and Submission of Technical & Financial Proposals
10	Modification and withdrawal of the Tender
11	Bid Opening
12	Preliminary Examination
13	Determination of the Responsiveness of the Bid
14	Technical Evaluation Criteria
15	Financial Proposal Evaluation
16	Rejection and Acceptance of the Tender
17	Contacting the Procuring Agency
18	Announcement of Evaluation Report
19	Award of Contract
20	Letter of Acceptance (LOA)
21	Payment of Performance Guarantee (PG)
22	Refund of Bid Security (BS)
23	Issuance of Supply Order or Signing the Contract
24	Redresses of Grievances by the Procuring Agency
	General Conditions of Supply Order /Contract
25	Delivery of Items
26	Liquidated Damages
27	Inspection and Tests
28	Release of Performance Guarantee (PG)
29	Contract Amendment
30	Termination for Default
31	Mechanism for Blacklisting
32	Force Majeure
33	Termination of Insolvency
34	Forfeiture of Performance Security
35	Payment
36	Warranty
37	Technical Specification and Schedule of Requirement

1. INVITATION TO THE BID

1.1. Bids/Tenders are invited, for “**Procurement of Equipment, Chemicals and Glassware**” from Active Sales Tax and Income Tax Registered firms.

2. INSTRUCTIONS TO THE BIDDERS

2.1. Procurement will be made under Punjab Procurement Rules (PPRA) 2014.

2.2. It will be clearly understood that the Terms and Conditions mentioned in this document are intended to be strictly enforced.

2.3. Bidders must ensure that they submit all the required documents indicated in the Tender / Bid Documents at the time of opening of Technical Bids and no request for submission of missing documents will be entertained after opening of the Technical Bids.

2.4. Bids without supporting documents, undertaking, valid documentary evidence, and bids not conforming to terms and conditions given in the Tender Document will be liable for rejection. Bids received after due time and date and bids without Bid Security in shape of CDR or CDR less than required amount shall be rejected.

2.5. The bidder must quote rates of items

2.6. Mode of Advertisement:

As per Rule 12(2) the advertisement is being placed on www.gcwuf.edu.pk, and on the website of PPRA Punjab (www.ppra.punjab.gov.pk)

2.7. Type of Open Competitive Bidding

As per Rule No. 38(2) a, Single stage two envelope procedure shall be followed with details given below:

2.7.1. The bid shall comprise of a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal;

2.7.2. The envelopes shall be marked as “FINANCIAL PROPOSAL” and “TECHNICAL PROPOSAL” in bold and legible letters to avoid confusion;

2.7.3. Initially, only the envelope marked “TECHNICAL PROPOSAL” shall be opened; The envelope marked as “FINANCIAL PROPOSAL” shall be retained in the custody of procuring agency without being opened;

2.7.4. The committee shall evaluate the technical proposal under **PPRA Rule # 32** and in a manner prescribed in this document, without reference to the price and reject any proposal which does not conform to the specified requirements as listed in said Sections. During the technical evaluation no amendments in the technical proposal shall be permitted;

2.7.5. The financial proposals of technically qualified bidders shall be opened publicly at a time, and venue announced and communicated to the bidders in advance;

2.7.6. After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted and qualified bids only. The financial proposal of bids found technically non-responsive shall be returned unopened to the respective bidders.

2.8. BID DATA SHEET (Information for the Bidders)

1	Procuring Agency	Government College Women University Faisalabad
2	Tender Number	GCWUF/2023-24/07
3	Name of Tender	Procurement of Equipment, Chemicals and Glassware
4	Tender Document available place	Purchase Section, Government College Women University Faisalabad or GCWUF Website
5	Cost of Tender Document	Rs.1000/- CDR in favor of the Treasurer Government College Women University Faisalabad.
7	Bid Security	2% of GCWUF estimated cost Bid security must be attached with technical bid.
8	Performance Guarantee	10% contract value for one year for Lab Equipment 10% contract value for Four months for Chemicals and Glassware.
9	Tender Addressed to	Convener Tender Committee Government College Women University Faisalabad
6	Contact Number	Ph. 041-9220696
10	Due Date, Time and place of submission of Tender Document	19-10-2023 till 11:00 AM Purchase Section First Floor Admin Block GCWUF.
11	Date, Time and Place of Technical Bid Opening	19-10-2023 at 11:30 AM at Video Conference Room of GCWUF
12	Date, Time and Place of the Financial Proposals	Shall be intimated subsequently to Technically Qualified firms

TERMS AND CONDITIONS OF THE TENDER

3. Definitions

3.1. “Purchaser” means Government College Women University Faisalabad.

3.2. “GCWUF” means Government College Women University Faisalabad

3.3. "Bidder/Tenderer" means the Firm/Company/Supplier/Distributor that may provide or Provides the Goods and related services to any of the public sector organization under the Contract and have registered for the relevant business thereof.

3.4. "Contract" means the agreement entered into between the Purchaser and the Contractor, in form of Supply Order or as recorded in the Contract Form signed by the parties, including all Schedules and Attachments thereto and all documents incorporated by reference therein.

3.5. "Contractor/The Successful Bidder" means the person whose Tender has been accepted and awarded letter of Acceptance followed by the Supply Order or Contract by the Purchaser.

3.6. "Goods" means equipment, machinery, and/or other materials which the Contractor is required to supply to the Purchaser under the Contract.

3.7. "Services" means installation, configuration, deployment, commissioning, testing, training, support, after sale service, etc. of Goods and other such obligations which the Contractor is required to provide to the Purchaser under the Contract.

3.8. "PPRA" means Punjab Procurement Regulatory Authority.

4. TENDER ELIGIBILITY

Eligible Bidder/Tenderer is one who:

4.1. Who has valid registration certificates for Income Tax, Sales Tax and Professional Tax

4.2. is an active Income Tax Payer;

4.3. has got the experience in supply of relevant items;

4.4. conforms to the clause of "Responsiveness of Bid" given in this tender document;

4.5. has not been blacklisted.

5. AMENDMENT OF THE TENDER DOCUMENT

5.1 The Tender Committee of Government College Women University Faisalabad, at any time prior to the deadline for submission of the Tender, at its own initiative or in response to a clarification requested by the Bidder(s), amend the Tender Document, on any account, for any reason. All amendment(s) shall be part of the Tender Document and binding on the Bidder(s).

5.2. The Purchaser shall notify the amendment(s) in writing to the prospective Tenderers/Bidders.

5.3. The Purchaser may, at its exclusive discretion, amend the Tender Document to extend the deadline for the submission of the Tender, in which case all rights and obligations of the Purchaser and the Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

6. BID CURRENCY

Bidder should quote price in Pak Rupees only and payments shall also be made in Pakistan Rupees only.

7. VALIDITY PERIOD OF THE BID

7.1. Validity period of the bids shall be 90 days.

7.2. In exceptional circumstances, the Tender Committee of University may ask the Bidders for an extension of the period of validity. The request and the responses shall be made in writing. A bidder accepting the request will not be required nor permitted to modify its tender.

8. BID SECURITY

8.1. Bidder will submit Bid Security drawn in the name of Treasurer Government College Women University Faisalabad against Item wise with details given below:

(The required amount of Bid Security does not exceed 2% of estimated cost)

8.2. The Bid Security will be in form of CDR in favor of the Treasurer Government College women university Faisalabad

8.3. Cheque or Cross Cheque shall not be accepted at all.

8.4. The amount submitted as Bid Security shall be refunded to the unsuccessful bidders after the decision for the award of the said tender.

8.5 . Subject to the award of contract, the Bid Security shall be returned to successful bidder against submission of Performance Guarantee

8.6. If the Bid Security is found less than the required amount then the bid will be rejected Irrespective of the rates and the stage of the bid process.

8.7. The Bid Security may be forfeited if a Bidder:

- a. Refuses to accept Letter of Acceptance of the Bid; or
- b. Fails to furnish Performance Security.

9. BID PREPARATION AND SUBMISSION

9.1. Bid shall be filed in / accompanied by the prescribed Forms, Annexes, Schedules, Drawings, Documents, Brochures, Literature, etc. which shall be completely filled in, stamped and signed by the Tenderer or his Authorized Representative. In case of copies, photocopies may be attested.

9.2. The Bids/Tenders should be submitted in two parts (1) **Technical Proposal** and (2) **Financial Proposal**. The Technical Proposal and Financial Proposal shall be submitted in separate covers.

9.3. TECHNICAL PROPOSAL

The Technical Proposal will enable the Technical Tender Committee to evaluate whether the bidder is technically competent and capable of executing the order and the specifications offered by the bidder meet the ones given in the Tender/Bid Documents. Only those bids which qualify in the technical stage will be eligible for the Financial Proposal opening. The Financial Proposals of bidders who failed in the Technical stage will not be opened.

9.4. The Technical Proposal form as given in the Bid/Tender Document shall be filled, signed and stamped in all pages. The Purchase Committee will not be responsible for the errors committed in the bids by the bidders.

9.5. The Technical Proposal should not strictly contain any Price/Cost indications as such otherwise the bids will be summarily rejected.

9.7 Detail and Order of Documents to be furnished with the Technical proposal:

The documents attached with the Technical Bid must be signed and stamped by the Authorized Representative of the Bidder. The documents attached must be numbered and attached in the following order:

9.7.1. Covering letter *duly* signed and stamped by authorized representative.

9.7.2. Copy of Income Tax Registration Certificate

9.7.3. Copy of Sales Tax Registration Certificate.

9.7.4. Copy of Professional Tax

9.7.5. Detailed specification of items.

9.7.6 Sound financial position of the bidder (At least each available equal to the 50% of quoted value as per bank statement)

9.7.7. At least three relevant Supply Orders/Contracts received in the past

9.7.8. Affidavit/Undertaking Covering Letter on Stamp Paper.

FINANCIAL PROPOSAL

9.8. The Financial Proposal of the bidder shall include the price break up of taxes/duties. All taxes/duties as applicable shall be responsibility of the bidders.

9.9. The cost quoted by the bidder shall be kept firm and unchanged for a period specified in the Bid/Tender Documents from the date of opening of the bids. The bidder shall keep the price firm/unchanged during the period of Contract including during the period of extension of time if any.

9.10. The quoted price will be inclusive of all taxes, duties, levies, insurance, freight (transportation charges), etc. **9.11.** The Bid is liable for rejection if Financial Proposal contains conditional offer.

9.12. Details to be furnished with financial proposal

9.12.1. Financial Proposal Covering Letter

9.12.2. Financial Proposal Form duly filled, signed and stamped by the Bidder

9.13 Mode of Submission of Bids

9.13.1 The Bid should be addressed to “Convener Tender Committee, Government College Women University Faisalabad” and dropped in the Tender Box placed at Purchase Section of University by hand or through courier.

9.13.2. The Bids received after Due Date and Time or Unsealed or incomplete or Submitted by Fax or Email will be summarily rejected.

10. MODIFICATION/WITHDRAWAL OF THE TENDER

10.1. The Bidder may, by written notice served on the Purchaser, modify or withdraw the Tender after submission of the Tender, prior to the deadline for submission of the Tender.

10.2. The Tender, withdrawn after the deadline for submission of the Tender and prior to the expiration of the period of the Tender validity, shall result in forfeiture of the Tender Security.

11. BID OPENING

11.1. Technical Proposal Opening

The bid's outer cover and Technical Proposal cover will be opened by the Tender Committee of University on the date and time as specified in the Tender Notice. The bids will be opened in the presence of the bidders/representatives who choose to be present.

11.2. Suppression of facts and misleading information

11.2.1. During the bid evaluation, if any suppression or misrepresentation of information is brought to the notice of the Tender Committee, the Committee shall have the right to reject the Bid and if it happens so after selection of the Bidder, the Purchase Committee may terminate the Contract or award of the Contract or further processing of the Bid as the case may be and that will be without any compensation to the Bidder and the Bid Security/Performance Guarantee, as the case may be, shall be forfeited.

11.2.2. It is the Bidder's responsibility to prove the Bidder's requisite qualification, Experience and capacity to undertake the project to the entire satisfaction of the Tender Committee failing which the Bid may be rejected.

12. PRELIMINARY EXAMINATION

12.1. The Tender Committee shall examine the bids to determine whether they are complete, whether the required documents have been furnished and properly signed, and whether the bids are generally in order.

12.2. Financial bids (at the time of opening the financial proposal) the arithmetical errors shall be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Bidders/Suppliers do not accept the correction of the errors, its bid shall be rejected. If there is a discrepancy between words and figures, the amount in words shall prevail.

13. DETERMINATION OF RESPONSIVENESS OF THE BID

13.1. The Purchaser shall determine the substantial responsiveness of the Tender to the Tender Document, prior to the Tender evaluation, on the basis of the contents of the Tender itself without recourse to extrinsic evidence. A substantially responsive Bid is one which:

13.1.1. To meets an eligibility criterion for the Bidder / the Goods / the Services;

13.1.2. To meets all the mandatory requirements of the evaluation criteria.

13.1.3. To meets the Technical Specifications for the Goods / the Services;

13.1.4. Is accompanied by the required Bid Security;

13.1.5. Is otherwise complete and generally in order;

13.1.6. Conforms to all terms and conditions of the Tender Document, without Material deviation or reservation

13.2. The Tender determined as not substantially responsive shall not subsequently be made responsive by the Tenderer by correction or withdrawal of the material deviation or reservation. However, the Purchaser may waive off any minor non-conformity or inconsistency or informality or irregularity in the Tender.

14. TECHNICAL EVALUATION CRITERIA

The Bidders who have duly complied with the Eligibility/Qualification and Evaluation will be eligible for further processing.

The Bids which do not conform to the Technical Specifications or Bid conditions or the Bids from the Bidders without adequate capabilities for supply and maintenance / warranty services will be rejected. The Eligible/Technically Qualified Bidders will be considered for further evaluation.

Under PPRA Rules # 31, Technical Bids will be evaluated on the basis of following criteria and Financial Bids of only those bidders will be opened who have fulfilled the criteria:

Mandatory Requirements	Documents Required
Sales Tax Registration	Certificate of Registration
Income Tax Registration	Certificate of Registration
Conformance to the required specification of items given in Schedule of Requirement	Detailed Specifications with Brand and Model
At least three relevant Supply Orders received in the Past from year 2017 onwards	Copies of Supply Orders/Contracts received in the past of the quoted brand
Company Firm is not black Listed	Affidavit /Bidder's Undertaking on stamp paper
Professional Tax	Certificate of Registration

The bidder must provide Verifiable documentary proof against all the mandatory requirement and Evaluation Criteria along with the Technical Proposal and no document will be received or considered after opening of the Technical Proposal.

The Tender Committee may ask for physical Demonstration of any of the items given in the Tender Document for confirmation of the specifications.

15. FINANCIAL PROPOSAL EVALUATION

15.1. Technically qualified/successful bidder(s)/Tenderer(s) shall be called for opening of the Financial Proposal(s). The Financial Proposals will be opened in the presence of the Bidders at the time and venue indicated by the University accordingly. The technically Eligible/Successful Bidder(s)/Tenderer(s) or

their authorized representatives against each Items shall be allowed to take part in the Financial Proposal(s) opening against their relevant bid .

15.2. Financial Proposal evaluation will be conducted under the Punjab Procurement Rules, 2014. The Price evaluation will include all duties, taxes and expenses etc.

16. REJECTION AND ACCEPTANCE OF THE TENDER/BID

16.1.The Purchaser shall have the right, at his exclusive discretion, to increase / decrease the quantity of any or all item(s), under PPRA Rules 2014 without any change in unit prices or other terms and conditions,

According to PPRA rule 35

(5) A procuring agency may, for reasons to be recorded in writing, restart bidding process from any prior stage if it is possible without violating any principle of procurement contained in rule 4 and shall immediately communicate the decision to the bidders.

16.2.The Tender / bid shall be rejected if:

16.2.1. It is substantially non-responsive; or

16.2.2. The bidder does not meet any of the mandatory criteria mentioned.

16.2.3. It does not contain the documentary proof against any of the mandatory Criteria.

16.2.4.The bid is incomplete, partial, conditional, alternative, late; or

16.2.5.The Authorization Certificate could not be verified; or

16.2.6. The bidder does not attach Bid Security in Shape of CDR; or

16.2.7.The bid security is not attached or it is less than the required amount; or

16.2.8.The Bidder submits more than one Bids against one Tender; or

16.2.9.The Bidder tries to influence the Tender evaluation / Contract award; or

16.2.10. The Bidder engages in corrupt or fraudulent practices in competing for the Contract award; or

16.2.11. There is any discrepancy between bidding documents and bidder's proposal i.e. any non-conformity or inconsistency or informality or irregularity in the submitted bid; or

16.2.12. The Bidder submits any financial conditions as part of its bid which is not in Conformity with tender document.

17. CONTACTING THE PROCURING AGENCY

17.1. No Bidder shall contact the Tender Committee of University on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.

17.2. Any effort by a Bidder to influence the Procuring Agency in its decisions on bid evaluation, bid comparison, or Contract Award will disqualify the bidder and rejection of the bid. **Canvassing by any Bidder at any stage of the Tender evaluation is strictly prohibited.**

18. ANNOUNCEMENT OF EVALUATION REPORT

The Procuring Agency shall announce the results of bid evaluation in the form of a report giving justification for acceptance or rejection of bids at least ten days prior to the award of Contract. The report shall be made available on PPRA website and all the bidders shall be informed of this.

19. AWARD OF CONTRACT

The Tender will be awarded to the Lowest Evaluated Bidder (item wise) who has been Declared Technically Qualified.

20. Letter of Acceptance (LOA)

After acceptance of the Bids by the Tender Committee, Letter of Acceptance (LOA) will be issued only to the Successful Bidder (s).

21. PAYMENT OF PERFORMANCE GUARANTEE (PG)

The Successful Bidder(s) performance guarantee will be submitted to Purchase office for a specified time mentioned in bidding documents.

22. REFUND OF BID SECURITY (BS)

The BS of the unsuccessful Bidder will be refunded on the written request of the Bidder.

23. ISSUANCE OF SUPPLY ORDER OR SIGNING THE CONTRACT

23.1 The Tender Committee shall issue Supply Order or sign a Contract with the Successful bidder who has meet all requirement.

23.2 The Successful Bidder will provide the stamp paper of .25% of total order value for issuance of Supply Order or Signing the Contract.

24. REDRESSAL OF GRIEVANCES BY THE PROCURING AGENCY

24.1 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 10 days after the announcement of the bid evaluation report.

24.2. The committee shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint.

24.3. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.

24.4. The decision of the Vice Chancellor of GC Women University Faisalabad would be final & binding on both the parties and not challengeable in any court of law.

GENERAL CONDITIONS OF CONTRACT / SUPPLY ORDER

25. DELIVERY OF ITEMS

25.1. Delivery Period will be counted after issuance of Letter/ of Acceptance / Supply Order with details given below:

25.2.The Supplier will be responsible for **delivery and installation** of Goods and services

25.3 Before delivery of items to the locations, the Bidder must get the items inspected at GCWUF.

25.4. The supplier will bear all costs associated with the preparation, delivery and installation of the Items and the Purchaser will in no case be responsible or liable for those costs. The supplier will make such arrangements to ensure safe delivery of goods. Any damage sustained during transportation / delivery will be rectified by the supplier at his cost.

26. LIQUIDATED DAMAGES

26.1. When the supplier fails to deliver or install the goods or both within the time period specified in the contract, the Tender Committee may, without prejudice to any other remedy it may have under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 2% of the price of the delayed goods per month of delay, maximum up to 10% of the price of total value of the contract.

27.2. The Successful Bidder will be responsible to provide the delivery, delivery Challan and Bill within the delivery period in order to avoid Late Delivery Charges.

27. INSPECTION AND TESTS

27.1 The Inspection Committee of GCWUF shall inspect and test the Goods supplied, the Services provided, under the Contract/Supply Order, to verify their conformity to the Technical Specifications.

27.2. Inspection will be done at Government College Women University Faisalabad.

27.3.Inspection Committee may verify the authenticity of items from Supplier.

27.4. After the inspection or test if the Inspection Committee declared items do not conform to the specification and the criteria then Tender Committee may reject them, and the supplier shall either replace the rejected goods or make all alterations necessary to meet the requirements of the specifications free of cost to University.

28. RELEASE OF PERFORMANCE GUARANTEE (PG)

The Performance Guarantee will be refunded to the Successful Bidder(s) **after one year of lab Equipment and 4 months of chemicals completion of delivery/Inspection and installation of Goods.**

29. CONTRACT AMENDMENT

No variation in or modification in the Contract shall be made, except by written amendment signed by both the Purchaser and the Contractor.

30. TERMINATION FOR DEFAULT

The Tender Committee of GCW University may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the tenderer, terminate this Contract in whole or in part if:

30.1 The bidder fails to provide services within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring entity.

30.2. The successful bidder fails to deliver goods and services as per its technical specifications Offered in the bid

30.3. The successful bidder fails to perform any other obligation(s) under the Contract.

30.4. The bidder, in the judgment of the Tender Committee has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

31. BLACKLISTING

If the Contractor fails / delays in performance of any of the obligations, under the Contract / Letter of Acceptance, violates any of the provisions of the Contract / Letter of Acceptance, commits breach of any of the terms and conditions of the Contract / Letter of Acceptance or found to have engaged in corrupt or fraudulent practices in competing for the award of contract / Letter of Acceptance or during the execution of the contract / Letter of Acceptance, the University may without prejudice to any other right of action / remedy it may have, blacklist the Contractor, either indefinitely or for a stated period, for future tenders in public sector, as per mechanism provided in Punjab Procurement Rules, 2014.

32. Force Majeure

Majeure means an act of nature or an event beyond the control of the Supplier and not involving the Supplier's fault or negligence directly or indirectly purporting to mis planning, mismanagement and/or lack of foresight to handle the situation. Such events may include but are not restricted to acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, earthquakes, strikes, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing with sufficient and valid evidence of such condition and the cause thereof. The Committee constituted for Redressed of grievances, shall examine the pros and cons of the case and all reasonable alternative means for completion of purchase order under the Contract and shall submit its recommendations to the competent authority. However, unless otherwise directed by the Procuring Agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek reasonable alternative means for performance not prevented by the Force Majeure event.

33. Warranty

33.1. Warranty of equipment will be as mentioned in tender specification.

33.2. Supplier shall confirm that the goods supplied under this contract are new and unused. The Supplier shall further warrant that all goods supplied under this contract shall have no defect arising from design materials or workmanship or from any act or omission of the supplier that may arise under the normal use of the supplied goods in the conditions prevailing in the University.

33.3. During the warranty period the Successful Bidder will provide comprehensive warranty of the items. The Tender Committee shall notify the supplier in writing of any claim arising under the warranty. Upon receipt of such notice, the supplier shall repair or replace the defective goods or parts within given time, inclusive of, where

Applicable, the cost of inland delivery of the repaired or replaced goods or parts from the port of entry to the final destination and their installation.

Technical Specifications

Category 1

Sr #	Name of Equipment	Quantity	Estimated cost (PKR/-)
1.	Soxhlet Apparatus For Fat-extraction R 104 S for 4 samples, complete consisting of: <ul style="list-style-type: none">• 1 linear row of four individually adjustable hotplates• Temperature controlled• 1 Condenser cooling water distributor with condenser stand, KV 4/R-100• 1 Holder for the extractors, GH 4/100• 4 Aluminum adapters 100/94 for flasks• 4 250ml round- bottom flasks, RK 250• 4 100 ml Soxhlet extractors with drain spigot , EZ 100/H• 4 Reflux condensers , RFK 100• 1 pack of 25 extraction thimbles, EX 100HS	01	Rs. 1,000,000/-
2.	Laboratory incubator <ul style="list-style-type: none">• Technical Features:• Internal Dimensions (W*D*H): 400*370*350mm)• External Dimensions (including door, handle, legs N or casters K) (W*D*H) max. mm: 620*680*680N• Package-basic package (W*D*H including palette) approx mm: 700*760*880• Package-case (W*D*H including palette) approx mm: 800*840*900• Trays/shelves• Maximal number (pc): 4• Standard equipment (pc): 2• Minimal distance between trays/shelves (mm): 70• Usable area (mm): 380x335• Maximal allowed loading of trays *)• Per 1 tray (kg): 20• Per 1 shelf (kg): 20• Inside the device - in total (kg): 50• Number of external metal door (pc): 1• Net weight (approx kg): 55• Electrical Data - mains 50/60 Hz• Max. input (kW): 0,3/0,7• Stand by input (W): 5• Current for Voltage **) (A & V): 1,3/1,3 & 230V• IP code: IP20• Temperature data• Operation temperature from 5/10 °C ***) above ambient temperature to °C: 100• Variations from operation temperature with closed flap and door (DIN 12 880 part 2) Space (± % temperature): 0,5/0,3	01	400,000

	<ul style="list-style-type: none"> • Variations from operation temperature with closed flap and door (DIN 12 880 part 2) Space (\pm at 37 °C): 0,3/0,2 • Variations from operation temperature with closed flap and door (DIN 12 880 part 2) time (\pm °C): 0,2 • Time to reach temperature of 37 °C with closed flap and voltage 230V (min): 49/41 • Number of air exchanges at 37 °C (per hour): 5/45 • Heat losses at 37 °C (W): 30/80 • Noise level of complete device (dB): 0/55 		
3.	<p>Laminar flow cabinet</p> <ul style="list-style-type: none"> • Features: • Space-saving desk-top type with compact design • Open type large air exhaust area for airflow uniformity • SUS304 working area • Adjustable fan unit & one-button velocity selection • High efficiency & low power consumption <p>Technical Specifications:</p> <ul style="list-style-type: none"> • External Dimensions WxDxH: 1300x820x2040mm • Internal Work Area Dimensions WxDxH: 1200x500x570mm • Work Surface Height: 750 mm • Max Opening: 430mm • Cleanliness: ISO 5 (Class 100) • Velocity: ≥ 0.3m/s • Controller: Tack Switch • Blower: AT Blower • Main Power Switch: Yes • Foot-pad: Yes • Noise dB(A): <65 dB • HEPA Filter: H13, $\geq 99.99\%$(@$\geq 0.3\mu\text{m}$) <p>Operated on 220 volts</p>	01	850,000

4.	<p>Colony Counter</p> <ul style="list-style-type: none"> • FEATURES: • Display: 3-digit, LED panel • Magnification: 2~3 X • Petri dish diameter: 60 mm or 90 ~ 150 mm (adjustable) • Storage: 100 records • Operating buttons: Average, Zero reset, Count back • Illumination: LED (adjustable) • Pressure sensitivity: Adjustable • Acoustical counting signal: Adjustable • Net weight: 5.6 Kg • Dimension (LxWxH): 35.1 x 30.2 x 37 cm 	01	200,000/-
5.	<p>BP Apparatus digital</p> <ul style="list-style-type: none"> • Irregular Heartbeat Detection • WHO Classification Indicator • Results Average in Three Way • Low Battery Detection • Automatic Power-Off • Data transfer capability <p><u>Features</u></p> <ul style="list-style-type: none"> • Certificate- CE / ISO 13485 / 510K Listing • Display- LCD Digital Display Size:62.3mm×46.0mm (2.45" x 1.81") • Measurement Method- Oscillometric Method • Pressurization- Automatic Pressurization • Memory- 120 Memories in Tow Groups with Date and Time • Power Source- 4 AA batteries or Medical AC Aadapter (DC6.0V, 600mA) • Battery Life- Approximately 2 months at 3 tests per day • Unit Weight- Approx.340g (11.99 oz.) (excluding battery) • Unit Dimensions- Approx.140 x 98 x 48mm (5.51" x 3.86" x 1.89")(L x W x H) • Battery life- About 2 months • Cuff Circumference <ul style="list-style-type: none"> ▪ Optional size below : ▪ 1, 16~24 cm ▪ 2, 22~36 cm ▪ 3, 22~42 cm ▪ 4, 30~42 cm • Ingress Protection Rating- IP22 • Packaging- 1pc/cuff / travel box / user manual / giftbox ; 24pcs/carton 	01	7000

6.	<p>Trinocular Microscope</p> <ul style="list-style-type: none"> • FEATURES: • Observation mode: Brightfield • Main Body • Type: Upright • Construction material: Aluminum die-cast • Head • Type: Trinocular (Siedentopf) • Split ratio: 50/50 • Inclination: 30° • 360° rotating: YES • Interpupillary distance (mm): 48-75 • Dioptric adjustment: On left tube • Fixing screw for eyepieces: Yes • Tube inner diameter (mm): 23 • Eyepieces • Field number (mm): 18 • Magnification: 10x • Pointer: As optional • Micrometric scale: As optional • Diameter of micrometer glass (mm): 20 • Nosepiece: Quadruple • Objectives included: • 4x/0.10, W.D. 15.2 mm • 10x/0.25, W.D. 5.5 mm • 40x/0.65, W.D. 0.45 mm • 100x/1.25 (Oil/Water), W.D. 0.13 mm • Product Dimensions (H*W*D): 440*235*320 mm • Accessories Included: Dust cover, Immersion oil (10ml), Tension adjustment tool, User Manual 	01	400,000/
7.	<p>Glucometer</p> <ul style="list-style-type: none"> • A blood glucose meter is a small, portable machine that's used to measure how much glucose (a type of sugar) is in the blood (also known as the blood glucose level). <p><u>Technical</u></p> <ul style="list-style-type: none"> • Display: LCD. • Display size: 40mm (H) x 28mm(W). • Memory capacity: Memory can store 500 tests including 7, 14, 30 & 90 day averages and pre- and post-meal averages. • Coding: No coding is required. • Set up: Only time & date set up required. Ready to use straight out of the box. • Test strip ejector: No the test strips must be manually removed but are supplied in size that is easy to use and handle. • Weight of blood glucose meter: 40g with batteries 	02	5000

8.	<p>Stadiometer</p> <ul style="list-style-type: none"> The stadiometer is particularly suitable for mobile use, e.g. for measuring children and teenagers in the course of medical examinations at schools. The measuring rod which can be dismantled into several pieces is easy to transport and can be set up anywhere in no time at all. <p>Technical</p> <ul style="list-style-type: none"> Measuring range: 20 - 205 cm. Graduation: 1 mm. Packing size: 25.75 x 14.25 x 4.75 inches. Gross Weight: 2.65kg 	01	35,000
9.	<p>Sense wear</p> <ul style="list-style-type: none"> Sensewear is an armband that we use to gather important information about your activity level, type of activity, calories burned and sleep patterns <p>Technical</p> <ul style="list-style-type: none"> Screen Size- 1.58" inch Display Type- AMOLED Screen Resolution- 336 x 336 pixels Touch Type- Muti-Touch Size- 1.59in l x 1.59in w x 0.49in h Casing- aluminium OS platform- Proprietary OS 	01	55,000
10.	<p>Human skeleton model</p> <ul style="list-style-type: none"> Size: 180 Cm. Color: Natural. Material: PVC. 	01	40,000
11.	GIT model	01	45,000
12.	Respiratory tract model	01	40,000
13.	Cardiovascular system model	01	40,000
14.	Reproductive system (male)	01	35,000
15.	Reproductive system (female)	01	45,000
16.	Renal system model	01	45,000
17.	<p>Haemoglobin meter</p> <ul style="list-style-type: none"> Methodology Reflectance Photometry Detection Principle Methemoglobin Time to Results < 15 seconds Memory 1,000 tests with date/time and ID number Specimen Volume 10 µL Specimen Type Capillary and Venous whole blood Hb Measurement Range 4.5-25.6 g/dL Hct Range 13-75% Wavelengths 525 nm PC Interface Mini USB Port 	01	10,000

	<ul style="list-style-type: none"> • Calibration Automatic • Hb Within Run Precision $\leq 3\%$ • Hb Total Precision CV $\leq 3\%$ • Accuracy Venous Blood: $Y=0.9582X+0.5673$, $R^2=0.992$ • Capillary Blood: $Y=1.006X+0.026$, $R^2=0.993$ • Operating Conditions 10 – 40 °C (50 -104 °F); $\leq 90\%$ RH • Meter Storage Conditions 0-50 °C (32-122 °F); $\leq 90\%$ RH • Strip Storage Conditions 2-30 °C (36-86 °F); $\leq 85\%$ RH • Strip Shelf Life 2 years unopened canister; 3 months opened canister • Power Source 3 AAA Batteries or AC Adapter • Battery Life 2,700 tests or 360 hours • Automatic Shut Off 8 minutes • Meter Dimensions 127 × 58 × 25 mm (5.0" x 2.28" x 0.99") • LCD Dimensions 39 × 37 mm (1.54" x 1.46") 		
18.	<p>Sphygmomanometer (Aneroid)</p> <ul style="list-style-type: none"> • Composed of a cuff containing an inflatable bag. The inflatable bag is connected via a tube to a bulb with an integrated manometer needle gauge. • The cuff is made of durable material (e.g. nylon), which is non-deformable, and washable at 30°C. • The cuff is fitted with double Velcro fastening, enabling a tight and secure fit around arms. • The cuff is reinforced at both sides. • Size cuff for adult. • The bag is inflated by means of the flexible bulb connected via a tube. • Material tube: rubber or other suitable material, e.g. silicone rubber, crack resistant. • Length tube between: 50 to 70 cm. • Gauge graduated 0 - 300mmHg (min) in 2 (max) mmHg increments, with pressure release valve. • Accuracy as per ISO 81060-1: +/- 3mm Hg. • Latex and mercury free design. 	01	7,000
19.	<p>Stethoscope</p> <ul style="list-style-type: none"> • Comprises a chest piece connected by a double tube to the headgear with earpieces that are placed into the users' ears. • Double cup, with two diaphragms for dual-use (adult and paediatric auscultation) chest piece in zinc alloy. • Adult diaphragm Ø: 45,5mm; paediatric diaphragm Ø: 31.5mm. • Tube made of PVC and is crack resistant. • Tube impervious to outside noises, guaranteeing full transmission of sound, good auditive quality. • Tube diameter: outer diameter 10mm, inner diameter 4.8mm. Tube length 560mm. • Sensitivity from 3.2dB to 26dB in a range from 50 to 1000Hz for cardiology. 	01	3,000

	<ul style="list-style-type: none"> • Sensitivity 8.1dB in a range from 600 Hz to 1,500Hz for pneumology. • Arms: brass-steel with a flexible spring. • Removable plastic earpieces. • Latex-free. • Designed for frequent and easy disassembly and disinfection with hospital-grade products. 		
20.	<p>PH/Cond/Oxi Meter (Laboratory Multi-Parameter Instruments Bench Top)</p> <p>Specifications</p> <p><u>pH Measurement</u></p> <ul style="list-style-type: none"> • Measuring Range: 2.00 to 20.00 pH • Resolution: 0.1/0.01 pH • Selectable Resolution: Yes • Accuracy: ± 0.01 pH • Pre-Defined Buffer Groups: 5 <p><u>ORP, Redox</u></p> <ul style="list-style-type: none"> • Measuring Range: ± 2000.0mV • Resolution: 0.1 mV • Accuracy: ± 0.5 mV • Units: mV, RmV <p><u>Conductivity Measurement</u></p> <ul style="list-style-type: none"> • Measuring Range: 0.01 μS/cm to 19.99 μS/cm, 20 μS/cm to 199.9 μS/cm, 200 μS/cm to 1999 μS/cm, 2.00 mS/cm to 19.99 mS/cm, 20.0 mS/cm to 500.0 mS/cm • Resolution: 0.01 μS/cm minimum; auto-range • Accuracy: ± 0.5 % Reading ± 2 Least Significant Digital • Reference Temperature: 20 °C, 25 °C • Cell Constants: 0.001 to 10.00 cm⁻¹ • Temperature Compensation: Linear (0 to 10.0%/°C), off <p><u>TDS</u></p> <ul style="list-style-type: none"> • Measuring Range: 0.1mg/L to 199.9 g/L • Resolution: 0.01 mg/L minimum, auto-range • Accuracy: ± 0.5 % Reading ± 2 Least Significant Digital • TDS Factor Range: Linear, 0.01 to 10.00, default 0.5 <p><u>Resistivity</u></p> <ul style="list-style-type: none"> • Measuring Range: 2 to 100 MΩ-cm • Resolution: 0.01 Ω-cm auto-range • Accuracy: ± 0.5 % Reading ± 2 Least Significant Digital <p><u>Practical Salinity</u></p> <ul style="list-style-type: none"> • Measuring Range: 0 to 100 psu • Resolution: 0.01 psu minimum, auto-range • Accuracy: ± 0.5 % Reading ± 2 Least Significant Digital <p><u>Temperature</u></p> <ul style="list-style-type: none"> • Measuring Range: -5.0 to 110.0 °C, 23.0 °F to 230.0 °F • Resolution: 0.1 °C, 0.1 °F • Accuracy: ± 0.3 °C, ± 0.3 °F • Calibration: No <p><u>Calibration</u></p> <ul style="list-style-type: none"> • Calibration: Up to 5 points for pH; 1 point cell constant calibration; 6 conductivity standard solutions available (10, 84, 146.5, 500, 1413 μS/cm and 12.88 mS/cm) • Calibration Sign: Slope/offset & cell constant & face • Calibration Mode: Linear 	01	495,000

	<p><u>Meter specification</u></p> <ul style="list-style-type: none"> • Display Type: 6.5" Segment & Dot matrix LCD with backlight • Multilanguage User Interface: English, Spanish, French, Portuguese, Chinese, Russian and Turkish • Measurement End-point Modes: Auto-stop, Continuous • Measurement End-point Modes: Auto-stop, Continuous • Datalog for Measurement: 1000 sets data points with time and date stamp • Datalog for Calibration: Last calibration • Keypad: Capacitive Touch • Output: Connect to PC via RS232 and USB, Connect to Printer via RS232 • pH electrode input: BNC • Conductivity input: Mini-DIN • Temperature input: Cinch, NTC 30 kΩ • Installation Overvoltage: Category II • Pollution: Degree 2 • Power Supply: Universal, 100-240 VAC, 50-60Hz • Ambient Operating: 5 to 40 °C, 5 to 80 %, non-condensing • Warranty: 1 year 		
21.	<p>MUAC tape</p> <ul style="list-style-type: none"> • Measurement range: Upto 45.5cm. • Graduation: 1mm. • Color coded: Red (sever) 0-21cm; Yellow (moderate) 21-23cm; green (normal) 23-45.5cm. 	01	4,000
22.	<p>Body Fat Caliper</p> <ul style="list-style-type: none"> • This caliper gives you the same accurate results as other body fat measurement devices without the high prices costing up to hundreds or more. • Helps in the easy and simple measurement of body fat percentage by pinching certain areas of the body to gauge the skinfold thickness. <p><u>Technical</u></p> <ul style="list-style-type: none"> • Colour White • Item Weight 27.0 grams • Material Plastic • Model Number FatAnalyzer • Part Number FatAnalyzer • Size Medium 	01	1000
23.	Lymphatic system model	01	40,000
24.	CNS model	01	40,000
25.	<p>Flame photometer</p> <ul style="list-style-type: none"> • Industrial Model digital single channel with unobstructed samples work area with following features • - Safety features including Fail safe flame detection and shut off, with low air pressure indicator. • - High sensitivity with fine manual control of air, and stable Flame design. • With ease of use resulting from auto ignition and flame optimization. Peak picker for presenting unambiguous readings with selected filter indicator. 		1,200,000

	<ul style="list-style-type: none"> • With built in Sodium, Potassium, Lithium, Calcium and Barium Filters. • Minimum Detection Level @ 3 x noise • Na 0.1 ppm • K 0.1 ppm • Li 0.1 ppm • Ca 2 ppm • Ba 20 ppm • Specificity Na, K and Li interference is <0.5% value of element under analysis, Aspiration rate 3 – 6 mL/min, Speed of Analysis/Time to stability 20 seconds, complete with compressor (but without Gas Cylinder), Operated on 220 Volts, 		
26.	<p>Pedometer</p> <ul style="list-style-type: none"> • Pulse output • Counting Accuracy: $\pm 3\%$ • Working current: $<60\mu\text{A}$ • Standby current: $<5\mu\text{A}$ • Supply voltage: 2.5~3.3V • Working Temp: $-10\sim+55^{\circ}\text{C}$ • Dimensions: 12*12.4*2mm 	01	5,000
27.	<p>Spirometer (lung capacity test for sports)</p> <ul style="list-style-type: none"> • Patient Range Adult, Pediatric • SpO2 • Range: 35-99% • Resolution: 1% • Accuracy: 70% - 100% $\pm 2\%$ • 0% - 90% - unspecified • Heart (Pulse) Rate • Range: 30-240 bpm • Resolution: 1 bpm • Accuracy: ± 2 bpm or $\pm 2\%$ • Display • Type: B&W Organic LED • Parameters Displayed: SpO2, PR, SpO2 waveform (pleth or line), signal strength bargraph • Information: Low battery • Brightness: 10 Levels • Display Modes: Six xelectable • Environmental • Operating Temperature: $5^{\circ}\text{C} - 40^{\circ}\text{C}$ • Storage Temperature: $-10^{\circ}\text{C} - 40^{\circ}\text{C}$ • Operating Humidity: 15% RH - 80% RH • Storage Humidity: 10% RH - 80% RH • Mechanical • Size: 50 x 32 x 34 mm (LxWxH) • Weight: 50g (including batteries) • Power: 2 AAA alkaline or rechargeable NiMH batteries • Operating Time: Typical 30 hours 	01	5000

28.	<p>ELISA Microreader</p> <ul style="list-style-type: none"> • Should have minimum wavelength range of 400–750 nm and photometric range of 0.0–3.5 OD • Should have linearity of $\leq 1.0\%$ from 0.0–2.0 OD; $\leq 2.0\%$ from 0.0–3.0 OD; accuracy of $\leq 1.0\%$ or 0.010 from 0.000–3.000 OD at 490 nm; precision of 1.0% or 0.005 OD from 0.0–2.0 OD; 1.5% from 2.0–3.0 OD and resolution of 0.001 OD • Should have minimum 8 filter wheel capacity with 415, 450, 490, 595, 655, and 750 nm included filters • Should have minimum 3 speed plate shaking with adjustable duration of 0–999 sec • Read time should not be more than 6 sec at single wavelength or 10 sec at dual wavelengths • Should have onboard graphical thermal printer and USB2 interface with PC or Mac data stations for data output • Should be able to store data for over sixty assay protocols • System should come with a comprehensive software package allowing colorimetric and turbidimetric analyses, as well as report analysis for raw data, absorbance, limit, matrix, normalization, and curve fit • Software should have the functionality of flexible template creation for any microplate format up to 1,536 wells • Software should be either license free or license for minimum 5 systems should be provided 	01	853,000
29.	<p>Garber apparatus for milk fat analysis</p> <ul style="list-style-type: none"> • The Gerber Method is a primary and historic chemical test to determine the fat content of substances, most commonly milk. • In this method milk fat is separated from proteins by adding sulfuric acid <p><u>Technical</u></p> <ul style="list-style-type: none"> • Timer 0 to 99 minutes • Automatic brake • Heating with variable temperature setting (1000 W) • Microprocessor control with digital reading • Cover lock • Inclusive of rotor to accommodate 12 butyrometers • Timer 0 to 99 minutes • Automatic brake • Heating with variable temperature setting (1000 W) • Microprocessor control with digital reading • Cover lock • Inclusive of rotor to accommodate 12 butyrometers 	01	1100000
Total (Rs) Category 1			7,000,000/-

Category 2

Sr #	Description	Specifications	Required Quantity	Estimated Cost (PKR)
1	Petri dishes	100 Mm	15	
2	Pipettes	Msring Mohr Cl 'B' 5 and 10 mL	4	
3	Wash Bottles	500 mL	4	
4	Beakers	50, 100, 250,500 mL	25 each	
5	Flask Rb, Sn, I/C Jt 24/29	50, 100, 250,500 mL	06 each	
6	Tripod Stands		2	
7	Crucibles	50 mL	15	
8	Burettes with stands:	Boroflo,PtfeKeys,Cl 'B' 50x0.10 ml	2	
9	Volumetric Flask	250 mL	2	
10	Test tubes with rims	15 X 150 Mm	24	
11	Tongs and forceps		5	
12	Test Tube Rack.	Holes Ø 16 Mm	2	
13	Test Tube Rack.	Holes Ø 20 Mm	2	
14	Spirit Lamp		3	
15	Sieves	250 µm Mesh Size	2	
16	Stirring rods	Pyrex	3	
17	Reagent Bottle	250 mL, 500 mL, 1000 mL	3 each	
18	Droppers Pipettes with sucker		5	
19	Burner		2	
20	Funnels	Plain Long Stem 60° 65 Mm	2	
21	Culture Petri Dishes		12	
22	Tubes, Culture Rb With Screw Cap	50ml	12	
23	Aluminium Foil, Diamond USA		2	
24	Inoculation Loop		1 pk	
25	Glass slides/cover slips		1 box	
26	Wire Gauze		2	
27	Filter Paper		100 Pcs	
28	Air Tight Plastic Bags	(Big, Medium & Small Size)	11 g	
29	Inoculation Needle		50 Pcs	
30	Membrane filters		100 pcs	
31	Glass spreader		5	
32	Digestion mixture tablets (FeSO ₄ , K ₂ SO ₄ , CuSO ₄)	Analytical Grade	50	
33	H ₂ SO ₄	Analytical Grade	2.5 L	

34	Boric acid	99.99%, (trace metal basis), extra pure	250 g	
35	Sodium hydroxide	98%, extra pure	0.5 Kg	
36	Methyl red indicator	Analytical Grade	25 g	
37	Distilled Water	Analytical Grade	5 L	
38	Petroleum ether	Analytical Grade	2 L	
39	Sodium carbonate	Analytical Grade	250 g	
40	Deionized Water	Analytical Grade	20 L	
41	Sodium nitrite	Analytical Grade	0.5 Kg	
42	Aluminium chloride	Analytical Grade	0.5 Kg	
43	Methanol	Analytical Grade	9 L	
44	Spirit	Analytical Grade	1 L	
45	Ethanol	Analytical Grade	1.5 L	
46	Blood group test kit		1 set	
47	Syringes		300 pcs	
48	Methylene Blue		25g	
49	Crystal violet		100ml	
50	Safranin		237 ml	
51	Iodine solution		90 ml	
52	Ethyl alcohol		2.5 L	
53	Acetone		240 ml	
54	Carbolfuchsin stain (Zeil-Neelsen)		25 g	
55	Acid alcohol		2.5 L	
56	MacConkey agar		500 g	
(g). Sub-Total (Chemicals/Glassware)				336,530/-

Note

- **Category 1 (Lab Equipment) of this tender is item wise bases. Bid Security will be submitted accordingly and must be attached with technical bid.**
- **Category 2 (Chemicals and Glassware) is item wise basis but bid security of the complete category must be submitted.**
- **Warranty Period for all equipment is one year, which will start from the date of inspection.**
- **Warranty Period for all Chemicals and Glassware is four Months, which will start from the date of inspection.**