

GOVERNMENT COLLEGE UNIVERSITY FAISALABAD



TENDER DOCUMENT

FOR

Tender No. 868.48.2025

**Supply of Lab Equipment, &
Lab Furniture items for
Establishment of Allied Health
Labs at Chiniot & Main
Campus, GCUF**

Special Instructions:

- The firms may visit the Office of DP&IC to discuss any query before submission of bids.
- A person who attends the tender bids opening meetings may be owner of company but in case of company's representative must have authority letter of company.

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
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	Termination for Convenience
35	Resolution of Disputes
36	Applicable Law
37	Notices
38	Taxes and Duties
39	Bidder General Information Form
40	Affidavit

1. INVITATION TO THE BID

1.1. Bids/Tenders are invited, for “**Procurement for Lab Equipment & Lab Furniture**” from Active Sales Tax and Income Tax Registered firms for Establishment of Allied Health Labs at Chiniot * Main Campus, of Government College University, Faisalabad.

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 upload all the required documents indicated in the Tender / Bid Documents at the time of submission of bid and no request for submission of any missing mandatory documents will be entertained after opening of the Bids.

2.4. Bids without supporting documents, short/ no bid security, undertaking, valid documentary evidence, and bids not conforming to terms and conditions given in the Tender Document will be liable for rejection.

2.5. The bidder must quote rates of items as per required specifications / cost of tender.

2.6. The **estimated cost** of this tender is **Rs. 39,390,120/-**

Mode of Advertisement:

As per Rule 12(1) the advertisement is being published on the website of PPRA Punjab (www.ppra.punjab.gov.pk) and also placed on official website of GCUF i.e. www.gcu.edu.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 separate technical and financial bids to be uploaded on e-pads. Technical bids shall be opened first and evaluation report shall be uploaded after technical evaluation. The financial bid of the technically responsive firms shall be opened.

2.7.2. The committee shall evaluate the 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.

2.7.3. The proposals shall be opened through **E-PADS** at a time, and venue announced and mentioned in below BID DATA SHEET;

2.8. **DATA SHEET (Information for the Bidders)**

1	Procuring Agency	Government College University Faisalabad
2	Tender Number	868.48.2025
3	Name of Tender	Supply of Lab Equipment & Lab Furniture for various departments of GCUF
4	Tender Document available place	Director Procurement & Inventory Control, GC University Faisalabad

5	Cost of Tender Document	Free of Cost
6	Bid Security	5% of Estimated Amount in shape of Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) OR Banker's Cheque in favor of Treasurer Government College University Faisalabad”
7	Performance Guarantee	10 % of the order value / the firm may also request to convert the bid security as Performance Guarantee (if compatible)
8	Performance Security	10 % shall be deducted from final bill
9	Contact Number	Ph. 041-9201468
10	Due Date and Closing Time	09-06-2026 till 11:00 AM
11	Date, Time and Place of Bid Opening	09-06-2026 at 11:30 AM at office of Director Procurement & Inventory Control, GC University Faisalabad

TERMS AND CONDITIONS OF THE TENDER

3. Definitions

3.1. “The Procuring Agency” means Government College University Faisalabad.

3.2. “GCUF” means Government College 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. “The Contract Price” means the price payable to the lowest qualified Supplier under the Contract for the full and proper performance of its contractual obligations.

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

3.8. "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.

3.9. “PPRA” means Punjab Procurement Regulatory Authority.

3.10. “CPC” means Central Purchase Committee of GCUF.

4. TENDER ELIGIBILITY

Eligible Bidder/Tenderer is one who:

- 4.1. Who has valid registration certificates for Income Tax, Sales Tax and registered on E-PADS.
- 4.2. is an active Tax Payer;
- 4.3. Conforms to the clause of “Responsiveness of Bid” given in this tender document; meets the eligibility criteria of tender
- 4.4. has not been blacklisted.

5. AMENDMENT OF THE TENDER DOCUMENT

- 5.1 The Central Purchase Committee (CPC) of Government College 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.
- 5.2 All amendment(s) shall be part of the Tender Document and binding on the Bidder(s).
- 5.3 The amendment(s) will be conveyed in writing to the prospective Tenderers/Bidders.
- 5.4 The GCUF 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 GCUF 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.

7. VALIDITY PERIOD OF THE BID

- 7.1. Validity period of the bids shall be 90 days w.e.f. opening date of technical bid.
- 7.2. In exceptional circumstances, the Central Purchase Committee (CPC) 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.
- 7.3. If the bidder, offer validity for a shorter period, shall be rejected by the CPC as “**Non-Responsive**”.
- 7.4. Under exceptional circumstances and for reasons to be recorded in writing, if an extension is considered necessary, all the bidders shall be requested to extend their respective bid validity period but such extension shall not be for more than the original period of bid validity or 180 days whichever is more.

8. BID SECURITY

8.1. Bidder will submit Bid Security drawn in the name of “**Treasurer, Government College University Faisalabad**”. The bid security shall be submitted as per following lots, however, if a bidder intends to participate in all lots then a combined bid security may also be submitted.

• <u>Lot No. 1</u> Operation Theater Technology Lab equipment & consumables	(Rs. 383,676/-)
• <u>Lot No. 2</u> DPT Lab equipment & Instruments	(Rs. 589,080/-)
• <u>Lot No.3</u> MLT, RIT, Allied Health Labs	(Rs. 722,500/-)
• <u>Lot No. 4</u> Laboratory furniture for all labs	(Rs. 274,250/-)
<u>Total Bid Security Amount</u>	<u>Rs. 1,969,506/=</u>

(The required amount of Bid Security does not exceed 5% of estimated cost)

8.2. Cheque or Cross Cheque shall not be accepted at all. **(Insurance Bonds are not acceptable)**

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

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

8.5. 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.

8.6. The Bid Security may be forfeited if a lowest qualified 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 uploaded on PPRA 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.

9.2 The documents attached with the 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

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

9.4 Copy of Income Tax Registration Certificate

9.5 Copy of Sales Tax Registration Certificate.

9.6 Copy of Professional Tax

9.7 Detailed specification of items and sample (if required), which shall be examined as per required specifications.

9.8 Sound financial position of the bidder (Bank Statement)

9.9 Documents required in the tender eligibility criteria.

9.10 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

9.11 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.

9.12 The quoted price will be inclusive of all taxes, duties, levies, insurance, freight (transportation charges), etc.

9.13 The Bid is liable for rejection if Financial Proposal contains conditional offer.

9.14 (Mode of Submission of Bids) The Bid should be submitted through E-Procurement System.

10. MODIFICATION/WITHDRAWAL OF THE TENDER

10.1. The Bidder may, by written notice served to 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. Proposal Opening

The bids will be opened by the Central Purchase 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

- During the bid evaluation, if any suppression or misrepresentation of information is brought to the notice of the Central Purchase 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.
- 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. 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.

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

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 meet an eligibility criterion for the Bidder / the Goods / the Services;

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

13.1.3. To meet 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. The Tender determined as substantially non-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. 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 offers of only those bidders will be opened who have fulfilled the criteria:

Qualifying marks are 70 out of 100 marks.

Sr#	Mandatory Requirements	Documents Required	Marks		Remarks
1	Sales Tax Registration	Certificate of Registration as active tax payer	5		The requirements at serial no. 1 to 4 are mandatory, if a bidder loses any score from these four mandatory requirements, (30 Marks) the bid shall be disqualified / rejected for financial evaluation.
2	Income Tax Registration	Certificate of Registration as active tax payer	5		
3	Affidavit as per clause 38.	An affidavit on Rs. 200/- stamp paper that currently firm is not blacklisted or debarred by any Government/Semi-Government department to participate in bidding.	5		
4	Manufacturer Authorization/ Dealership certificate / Distribution Letter	<ul style="list-style-type: none"> The bidder must attach Authorization Letter / Dealership Certificate / Distribution letter issued by the principal company for quoted lab equipment items only. The vendor participating for furniture item must be registered as manufacturer in FBR. 	15		
5	Supply Orders received in Past from years July-2023 till tender opening date	Copies of relevant Supply Orders/Contracts received of the similar items (lab equipment, instruments etc) from Government sector organizations Universities, Autonomous Bodies etc; valuing above Rs. 35 Million, accumulatively from July 2023 till tender date. Furniture vendors shall attach Pos of similar goods (lab furniture items, iron racks of labs, stools, tables etc) valuing above Rs. 6 Million (max 10 marks)	A	10	A. POs exceeding 70 million accumulatively for lab equipment and 12 million for furniture items B. POs exceeding 35 million, accumulatively for lab equipment and 6 million for furniture items Maximum marks 10
			B	7	

6	Experience in Number of year	The firm must have minimum 5-year relevant experience and POs must be attached as reference. (max 10 marks)	A	10	A. 10 years above B. 7-10 year C. 5-8 year
			B	7	
			C	5	
7	Professional Tax	Certificate of Registration Attach for 2023-24 & 2024-25 (max 4 marks)	4 marks		2 marks for each year
8	Income Tax & Sales Tax Returns of two year	July 2023 to June 2025 (max 6 marks)	6 marks		Attach online copies 3 marks for 2023-24 & 3 marks for 2024-25
9	Financial Statement	Audited Financial statements by certified Chartered Accountants for companies / firms for year 2024-2025 OR Unaudited financial statements for sole proprietor firms by FBR (max 5 marks)	5 marks		Auditor's report / FBR audited financial statements
10	Account Maintenance Certificate	Latest Account Maintenance certificate from the Bank (max 5 marks)	5 marks		Certificate before dated <u>30-12-2025</u> is not acceptable
11	Sound financial position of the bidder Bank Statement Jan 2025 till December 2025	Turnover as per financial transactions minimum Rs. 70 million for lab equipment firm and 12 million for furniture firms. The turnover should be shown at the footnote of the bank statement. (max 10 marks)	A	10	A. Above 140 M B. 70-140 M C. Below 70 M (0) marks For furniture vendors A. Above 24 million B. 12=24 million C. Below 12 million (0) marks
			B	5	
12	Performance Certificate	Performance certificate for successful completion of supplies, projects from various Government organizations during last 5 years. Two mark for one certificate per PO / project against tender supplies only. (max 20 marks)	20 Marks		In case Performance certificates are from same organization the PO / project should be different.

The bidder must provide Verifiable documentary proof against all the mandatory requirement and Evaluation Criteria along with the Technical Proposal. The firm shall not be allowed to change / re-submit any document after opening of the Technical Proposal, however Purchase Committee may allow for submission of a document inadvertently missed by vendor or ask for any further documentation besides above keeping the substance of bid unchanged.

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

14.1 Technical Evaluation of specifications:

The technical evaluation of the quoted specifications by the eligible shall be made by technical committees in comparison with required equipment specifications and item wise acceptance / rejection shall be finalized and same shall be carried in the financial evaluation.

15. FINANCIAL PROPOSAL EVALUATION

15.1. Financial bids of the technically qualified firms (as per bid evaluation report) shall be opened and item wise comparison shall be made in each lot. The item wise lowest in each lot shall be considered as lowest qualified bidder and contract shall be awarded, accordingly.

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 bidder does not attach Bid Security in Shape of Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) OR Banker's Cheque; or

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

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

17. CONTACTING THE PROCURING AGENCY

17.1. No Bidder shall contact the Central Purchase 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 in each lot) who has been Declared Technically and Financially Qualified.

20. Letter of Acceptance (LOA)

After acceptance of the Bids by the Central Purchase Committee (CPC), 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 (In the form of Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) OR Banker's Cheque) will be submitted to DP&IC for a specified time mentioned in bidding documents. **(Insurance Bonds are not acceptable)**

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 Directorate of Procurement and Inventory Control (DP&IC) 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 0.25% of total order value for Signing the Contract OR Supply Order shall be issued and Stamp Paper duty shall be deducted from the bill.

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 Grievances 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 Government College 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 (75 Days) will be counted after issuance of Letter of Acceptance / Supply Order with following conditions;

25.2. The Supplier will be responsible for **delivery** of Goods, loading / unloading & shifting in store.

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

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. In case any extension required in delivery period the shall be submit justified reason before expiry of delivery time. The Committee (CPC) may grant extension under given circumstances if agrees with the request of vendor.

26. LIQUIDATED DAMAGES / LATE DELIVERY CHARGES

26.1. When the supplier fails to deliver or install the goods or both within the time period specified in the contract, the Central Purchase 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 (**0.067 % per day**) of delay, maximum up to 10% of the price of total value of the contract.

26.2. 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 Central Inspection Committee / Technical Committee of GCUF 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 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 Central Purchase 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 Payment & Performance Guarantee (PG)

The performance Guarantee shall be release to the vendor / supplier after successful completion of the contract OR supply of goods / items as per Supply Order.

The payment shall be made after final inspection of goods 100 % delivered / installed in the department.

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 Government College 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 Central Purchase 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, mis-management 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. Termination for Insolvency

The Government College University Faisalabad (GCUF) 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 GCUF.

34. Termination for Convenience

35.1. 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.

35.2. 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 GCUF on the Contract / Supply Order terms and prices. For the remaining Goods, the GCUF may choose:

- (a) to have any portion completed and delivered at the Contract / Supply Order 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.

35. Resolution of Disputes

35.1. After signing the contract or issuance of purchase order, The GCUF 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.

35.2. If, after thirty (30) days from the commencement of such informal negotiations, the GCUF 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. 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.

36. Applicable Law

36.1. The Contract shall be interpreted in accordance with the PPRA RULES and laws of Punjab (Pakistan) and Rules/ Regulations of GCUF.

37. Notices

37.1. 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.

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

38. Taxes and Duties

38.1. Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods & Services to the Government College University Faisalabad. 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 GCUF as the case may be.

Bidder General Information Form

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

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

*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	

39. Affidavit

[To be printed on PKR 100 Stamp Paper, duly attested by oath commissioner. To be attached with 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 Government College University Faisalabad 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 Government College University Faisalabad. 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.

[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: _____

Appendix “A”

Technical Specifications

LOT # 1 Operation Theater Technology lab equipment

S.No	Item Name	Detailed Technical Specifications	Typical Brand/Model	Main Campus	Chiniot Campus	Total	A/U
1	Operating Table (Multi-Function)	Hydraulic/electric adjustment, stainless steel top, Trendelenburg $\pm 30^\circ$, lateral tilt $\pm 20^\circ$, height adjustable ~690–1090 mm, longitudinal slide ~340 mm, load capacity ~150–250 kg, wheels with brakes.	Maquet/Skytron	1	1	2	No.
2	Autoclave	Chamber capacity ~35 L, SS inner chamber, 121-134 °C, pressure 0.25 MPa, digital LCD, safety lock, drying function. Capacity ~35 L; weight ~65–80 kg	Tuttnauer / Getinge	1	1	2	No.
3	Overhead OR LED Light/	Dual LED heads, illuminance 120,000–160,000 lux @ 1 m, color temp ~3500–5000 K, CRI ~85-96, <3.6 mW/m ² Lx.	LED OR Light	1	1	2	No.
4	Adult Surgical Simulation Mannequin	Full-body, durable PVC/ABS, articulated joints, ~30–40 kg, washable, reusable for basic surgical practice (positioning, draping, handling).	Mock Medical / 3B Scientific	1	1	2	No.
5	Infant Simulation Mannequin	Pediatric training model, ~5–15 kg, articulated limbs, teaching CPR/airway.	Mock Medical / 3B Scientific	1	1	2	No.
6	Mayo Stand (Instrument Stand)	Stainless steel frame, height adjustable ~800–1050 mm, top tray ~500×300 mm.	Local OEM	1	1	2	No.
7	Back/Instrument Tables	Stainless steel, mobile with four wheels, table top ~900×450 mm.	Local OEM	1	1	2	No.
8	IV Poles	Stainless steel, height adjustable 1100–2000 mm, four fixed hooks, caster wheels.	Local OEM	2	2	4	No.
9	Suction Machine	Vacuum –710 to –730 mmHg, flow ~30–60 L/min, noise <50 dB, 2×2.5 L jars, non-collapsible tubing, bacterial filter.	Yuwell/Local	1	1	2	No.
10	Pulse Oximeter (Digital)	SpO ₂ measurement range 0-100%, pulse rate 30-250 bpm, low power, LED/LED probe.	Contec/Bistos	2	2	4	No.
11	Vital Signs Monitor (Basic)	NIBP: 0-300 mmHg, SpO ₂ 0-100%, HR 30-250 bpm, display LCD/LED, integrated alarms.	Mindray/Contec	1	1	2	No.
12	Electrosurgical Unit (ESU)/ Surgical Diathermy	Monopolar ~200–300 W, bipolar ~80-120 W, footswitch control, multiple modes (cut/coag).	Valleylab/Local	1	1	2	No.

13	Anesthesia Simulator Unit	Non-clinical simulator, mock control panel, ventilation indicators (no patient use). Typical size ~600×400×1400 mm.	Training Simulator	1	1	2	No.
14	Defibrillator Trainer	Simulation-only model for training, energy output simulation, pads included.	Trainer Model	1	1	2	No.
15	Flash Sterilizer / Dry Heat Oven	Dry heat sterilization ~160-180 °C, timer ~0-60 min, SS chamber ~20-30 L.	Local OEM	1	1	2	No.
16	Instrument Wash Tray & Brushes	SS wash tray ~600×300 mm, kit of brushes for cleaning.	Local OEM	2	2	4	No.
17	Operating Room Gurney / Stretcher	Frame ~1900×650 mm, mattress, max load ~150–200 kg, wheels with brakes.	Local OEM	1	1	2	No.
18	Crash Cart / Emergency Trolley	Steel trolley with 3–6 drawers, lockable, bumpers, 4 caster wheels.	Local OEM	1	1	2	No.
19	Double Scrub Basin	SS-304, 2 scrub stations, overall size approx. 1500–1800 × 550–600 × 200–300 mm (L×W×D), rounded splash-free design with integrated backsplash (300–400 mm), 2 hands-free faucets (elbow/knee/foot or sensor), hot & cold mixing valves, flow 6–9 L/min per faucet, central drains with strainers, matte/satin finish, approximate weight 60–80 kg.	Local	1	1	2	No.
20	Computer + Projector	PC/Laptop (Core i5+, 16GB+512 ssd with LED 22 inch), Projector output 4000+ lumens, 6x6 screen as needed. One computer and one projector	Dell/HP + Epson/BenQ	1	1	2	No.
	General Surgical Instrument Set		Aesculap / Jalal Surgical	0	1	1	No.
1		Scalpel Handle No. 3	Standard		2	2	No.
2		Scalpel Handle No. 4	Standard		2	2	No.
3		Artery Forceps (Mosquito) Straight	12–13 cm		2	2	No.
4		Artery Forceps (Mosquito) Curved	12–13 cm		2	2	No.
5		Artery Forceps (Kelly) Straight	14–16 cm		2	2	No.
6		Artery Forceps (Kelly) Curved	14–16 cm		2	2	No.
7		Artery Forceps (Crile) Straight	14–16 cm		2	2	No.
8		Artery Forceps (Crile) Curved	14–16 cm		2	2	No.
9		Kocher Forceps Straight	14–16 cm		2	2	No.
10		Kocher Forceps Curved	14–16 cm		2	2	No.
11		Allis Tissue Forceps	15–18 cm		2	2	No.
12		Babcock Tissue Forceps	15–18 cm		2	2	No.
13		Towel Clips (Backhaus)	9–11 cm		6	6	No.
14		Dissecting Forceps (Plain)	12–15 cm		2	2	No.
15		Dissecting Forceps (Toothed)	12–15 cm		2	2	No.
16		Needle Holder (Mayo-Hegar)	16–18 cm		2	2	No.
17		Mayo Scissors Straight	14–16 cm		2	2	No.

18		Mayo Scissors Curved	14–16 cm		2	2	No.
19		Metzenbaum Scissors Straight	14–18 cm		2	2	No.
20		Metzenbaum Scissors Curved	14–18 cm		2	2	No.
21		Sponge Holding Forceps	18–24 cm		2	2	No.
22		Retractor – Langenbeck	Medium		2	2	No.
23		Retractor – Langenbeck	Small		2	2	No.
24		Retractor – Senn (Double-ended)	Standard		2	2	No.
25		Retractor – Volkmann (Rake)	3–4 prongs		2	2	No.
26		Retractor – Deaver	Medium		2	2	No.
27		Retractor – Richardson	Medium		2	2	No.
28		Suction Tip (Yankauer)	Standard		1	1	No.
29		Suction Tip (Poole)	Standard		1	1	No.
30		Gall Bladder Forceps	20–25 cm		1	1	No.
31		Intestinal Clamp (Doyen)	20–25 cm		2	2	No.
	Gynaecology Surgical Instruments Set		Aesculap / Jalal Surgical	1	1	2	No.
1		Vaginal Speculum (CUSCO) – Small	Small	1	1	2	No.
2		Vaginal Speculum (CUSCO) – Medium	Medium	1	1	2	No.
3		Vaginal Speculum (CUSCO) – Large	Large	1	1	2	No.
4		Vaginal Speculum (Sims) – Single End	Medium / Large	2	2	4	No.
5		Anterior Vaginal Wall Retractor	Standard	2	2	4	No.
6		Posterior Vaginal Wall Retractor	Standard	2	2	4	No.
7		Uterine Sound	25–30 cm	2	2	4	No.
8		Cervical Dilators (Hegar Set)	3–18 mm (Set)	1	1	2	set
9		Cervical Dilators (Hanks)	Assorted sizes	1	1	2	set
10		Vulsellum Forceps	20–25 cm	2	2	4	No.
11		Tenaculum Forceps	20–25 cm	2	2	4	No.
12		Sponge Holding Forceps	18–24 cm	1	1	2	No.
13		Ovum Forceps	25–28 cm	1	1	2	No.
14		Dressing Forceps (Plain)	20–25 cm	1	1	2	No.
15		Dressing Forceps (Toothed)	20–25 cm	1	1	2	No.
16		Uterine Curette (Sharp)	Assorted sizes	1	1	2	set
17		Uterine Curette (Blunt)	Assorted sizes	1	1	2	set
18		Endometrial Biopsy Curette	Standard	1	1	2	No.
19		Artery Forceps (Straight)	14–16 cm	2	2	4	No.
20		Artery Forceps (Curved)	14–16 cm	2	2	4	No.
21		Kocher Forceps	14–16 cm	2	2	4	No.
22		Allis Tissue Forceps	15–18 cm	2	2	4	No.
23		Needle Holder (Mayo-Hegar)	18–20 cm	1	1	2	No.
24		Mayo Scissors (Straight)	14–16 cm	1	1	2	No.
25		Mayo Scissors (Curved)	14–16 cm	1	1	2	No.
26		Metzenbaum Scissors	14–18 cm	1	1	2	No.
27		Uterine Manipulator	Standard	2	2	4	No.
28		Speculum Lamp / Light Guide	Standard	2	2	4	No.
29		Kidney Tray	Standard	1	1	2	No.
30		Instrument Tray (SS)	Medium	1	1	2	No.
	Orthopedic Surgical Instrument Set		Aesculap / Jalal Surgical	1	1	2	No.
1		Bone Holding Forceps (Lane)	Medium	2	2	4	No.
2		Bone Holding Forceps (Verbrugge)	Medium	2	2	4	No.

3		Reduction Forceps	Medium / Large	2	2	4	No.
4		Bone Cutting Forceps	Medium	1	1	2	No.
5		Bone Rongeur (Single Action)	15–18 cm	1	1	2	No.
6		Bone Rongeur (Double Action)	15–18 cm	2	2	4	No.
7		Bone Nibbler	Standard	2	2	4	No.
8		Bone Curette Set	Assorted sizes	1	1	2	No.
9		Bone Elevator (Lambotte)	Medium	2	2	4	No.
10		Periosteal Elevator (Howarth)	18–20 cm	2	2	4	No.
11		Periosteal Elevator (Key)	18–20 cm	2	2	4	No.
12		Bone Lever	Medium / Large	2	2	4	No.
13		Bone Chisel	10–20 mm	3	3	6	No.
14		Osteotome	10–20 mm	2	2	4	No.
15		Mallet (Orthopedic Hammer)	Medium	1	1	2	No.
16		Gigli Saw with Handles	Standard	2	2	4	set
17		Bone Saw (Hand)	Standard	1	1	2	No.
18		Drill Machine (Manual)	Standard	1	1	2	No.
19		Drill Bits Set	2.0–4.5 mm	2	2	4	set
20		Bone Awl	Standard	2	2	4	No.
21		Depth Gauge	Standard	1	1	2	No.
22		Screwdriver (Orthopedic)	3.5 / 4.5 mm	1	1	2	No.
23		Plate Bender	Standard	2	2	4	No.
24		Plate Holding Forceps	Standard	2	2	4	No.
25		K-Wire Inserter	Standard	2	2	4	No.
26		K-Wires	1.5–3.0 mm	10	10	20	No.
27		T-Handle Chuck	Standard	1	1	2	No.
28		Suction Tip (Orthopedic)	Standard	1	1	2	No.
29		Tissue Forceps (Toothed)	15–18 cm	2	2	4	No.
30		Needle Holder (Heavy)	18–20 cm	2	2	4	No.
31		Mayo Scissors (Heavy)	16–18 cm	1	1	2	No.
32		Langenbeck Retractor	Large	2	2	4	No.
33		Hohmann Retractor	small	2	2	4	No.
34		Hohmann Retractor	medium	2	2	4	No.
35		Hohmann Retractor	large	2	2	4	No.
36		Self-Retaining Retractor (Weitlaner)	Medium	2	2	4	No.
37		Self-Retaining Retractor (Gelpi)	Medium	2	2	4	No.
38		Instrument Tray (SS)	Large	2	2	4	No.
39		Kidney Tray	Standard	1	1	2	No.
		Aesculap / Jalal Surgical	Standard	1	1	2	No.
	Urology Surgical Instruments Set						
1		Cystoscope (Rigid)	17–22 Fr	2	2	4	No.
2		Cystoscope Sheath with Obturator	17–22 Fr	2	2	4	No.
3		Cystoscope Telescope	0° / 30°	2	2	4	No.
4		Light Source & Fiber Cable	Standard	1	1	2	No.
5		Ureteroscope (Rigid)	6–9.5 Fr	1	1	2	No.
6		Nephroscope	20–26 Fr	1	1	2	No.
7		Resectoscope (TUR Set)	24–27 Fr	1	1	2	No.
8		Working Element (TUR)	Standard	1	1	2	No.
9		Cutting Loop Electrodes	Standard	5	5	10	No.
10		Roller Ball Electrode	Standard	2	2	4	No.
11		Grasping Forceps (Endoscopic)	Standard	3	3	6	No.
12		Stone Punch / Lithotrite	Standard	1	1	2	No.

13		Stone Retrieval Basket	Standard	3	3	6	No.
14		Double J (DJ) Stent Pusher	Standard	2	2	4	No.
15		Ureteric Catheter	4–7 Fr	4	4	8	No.
16		Foley Catheter	14–22 Fr	10	10	20	No.
17		Three-way Foley Catheter	20–24 Fr	10	10	20	No.
18		Suprapubic Catheter Set	Standard	5	5	10	No.
19		Metal Sound (Male)	18–30 Fr	5	5	10	No.
20		Metal Sound (Female)	16–26 Fr	5	5	10	No.
21		Urethral Dilators (Van Buren)	16–30 Fr (Set)	1	1	2	Set
22		Bougie Dilators	Assorted sizes	1	1	2	Set
23		Bladder Retractor	Medium	2	2	4	No.
24		Prostate Retractor	Medium	2	2	4	No.
25		Prostate Forceps	Medium	1	1	2	No.
26		Sponge Holding Forceps	18–24 cm	1	1	2	No.
27		Needle Holder (Heavy)	18–20 cm	1	1	2	No.
28		Mayo Scissors (Straight)	14–16 cm	1	1	2	No.
29		Mayo Scissors (Curved)	14–16 cm	1	1	2	No.
30		Metzenbaum Scissors	18–20 cm	1	1	2	No.
31		Kidney Dish	Standard	1	1	2	No.
32		Instrument Tray (SS)	Large	1	1	2	No.
	ENT Surgical Instruments Set		Aesculap / Jalal Surgical	1	1	2	No.
1		Head Mirror	Standard	1	1	2	No.
2		Head Light (LED)	Standard	1	1	2	No.
3		Aural Speculum (Set)	Assorted sizes	1	1	2	No.
4		Otoscope	Standard	1	1	2	No.
5		Nasal Speculum (Thudicum)	Adult / Pediatric	2	2	4	No.
6		Nasal Speculum (Killian)	Medium	2	2	4	No.
7		Tuning Fork Set	256, 512, 1024 Hz	1	1	2	No.
8		Ear Forceps (Hartmann)	14–16 cm	2	2	4	No.
9		Ear Dressing Forceps	14–16 cm	2	2	4	No.
10		Aural Syringe	50–100 ml	2	2	4	No.
11		Jobson Horne Probe	Standard	2	2	4	No.
12		Ear Curette all size	Assorted sizes	1	1	2	No.
13		Suction Cannula (Frazier)	6–10 Fr	1	1	2	No.
14		Tonsil Holding Forceps	18–20 cm	2	2	4	No.
15		Tonsil Dissector & Pillar Retractor	Standard	2	2	4	No.
16		Tonsil Snare (Eve)	Standard	2	2	4	No.
17		Mouth Gag (Boyle-Davis)	Adult / Pediatric	1	1	2	No.
18		Tongue Depressor (Reusable)	Standard	2	2	4	No.
19		Laryngeal Mirror (Set)	Assorted sizes	1	1	2	No.
20		Laryngeal Forceps	20–25 cm	1	1	2	No.
21		Tracheal Dilator (Trousseau)	Standard	1	1	2	No.
22		Tracheostomy Tube (Metal)	Assorted sizes	2	2	4	No.
23		Nasal Dressing Forceps	18–20 cm	1	1	2	No.
24		Nasal Packing Forceps	18–20 cm	1	1	2	No.
25		Septum Elevator	Standard	1	1	2	No.
26		Nasal Speculum (Vienna)	Medium	1	1	2	No.
27		Needle Holder	16–18 cm	1	1	2	No.
28		Mayo Scissors	14–16 cm	1	1	2	No.
29		Metzenbaum Scissors	14–18 cm	1	1	2	No.
	Maxillofacial Surgical Instruments Set		Aesculap / Jalal Surgical	1	1	2	No.
1		Mouth Gag (Jennings / Boyle-	Adult / Pediatric	1	1	2	No.

		Davis)					
2		Cheek Retractor (Langenbeck / Minnesota)	Medium	2	2	4	No.
3		Tongue Depressor (Reusable)	Standard	2	2	4	No.
4		Lip Retractor	Standard	2	2	4	No.
5		Periosteal Elevator (Molt No. 9)	Standard	2	2	4	No.
6		Periosteal Elevator (Freer)	Standard	1	1	2	No.
7		Dental Extraction Forceps (Upper)	Assorted	1	1	2	No.
8		Dental Extraction Forceps (Lower)	Assorted	1	1	2	No.
9		Dental Elevator (Straight)	Standard	1	1	2	No.
10		Dental Elevator (Cryers)	Left & Right	1	1	2	Pair
11		Root Tip Pick	Standard	1	1	2	No.
12		Bone Rongeur	15–18 cm	1	1	2	No.
13		Bone File	Medium	2	2	4	No.
14		Bone Curette	Assorted sizes	1	1	2	set
15		Bone Chisel	10–20 mm	2	2	4	No.
16		Osteotome	10–20 mm	2	2	4	No.
17		Mallet (Surgical Hammer)	Medium	1	1	2	No.
18		Gigli Saw with Handles	Standard	2	2	4	set
19		Wire Twister	Standard	1	1	2	No.
20		Wire Cutter	Standard	1	1	2	No.
21		Arch Bar Set (Erich)	Standard	2	2	4	set
22		Intermaxillary Fixation (IMF) Screws	Assorted sizes	10	10	20	No.
23		Plate Bender (Mini/Micro)	Standard	2	2	4	No.
24		Plate Holding Forceps	Standard	2	2	4	No.
25		Screwdriver (Maxillofacial)	1.5–2.0 mm	2	2	4	No.
26		Drill (Manual / Battery)	Standard	1	1	2	No.
27		Drill Bits	1.2–2.0 mm	2	2	4	set
28		Reduction Forceps (Bone)	Medium	2	2	4	No.
29		Tissue Forceps (Toothed)	15–18 cm	1	1	2	No.
30		Artery Forceps	14–16 cm	2	2	4	No.
31		Needle Holder	16–18 cm	1	1	2	No.
32		Mayo Scissors	14–16 cm	1	1	2	No.
33		Metzenbaum Scissors	14–18 cm	1	1	2	No.
34		Suction Cannula (Frazier)	6–10 Fr	1	1	2	No.
	Plastic Surgery Instruments		Aesculap / Jalal Surgical	1	1	2	No.
1		Scalpel Handle No. 3	Standard	1	1	2	No.
2		Scalpel Handle No. 4	Standard	1	1	2	No.
3		Fine Tissue Forceps (Adson – Plain)	12–15 cm	1	1	2	No.
4		Fine Tissue Forceps (Adson – Toothed)	12–15 cm	1	1	2	No.
5		Tissue Forceps (DeBakey)	18–20 cm	2	2	4	No.
6		Needle Holder (Mayo-Hegar)	14–16 cm	1	1	2	No.
7		Needle Holder (Olsen-Hegar)	14–16 cm	1	1	2	No.
8		Fine Needle Holder (Castroviejo)	12–14 cm	1	1	2	No.
9		Metzenbaum Scissors (Straight)	14–18 cm	1	1	2	No.
10		Metzenbaum Scissors (Curved)	14–18 cm	1	1	2	No.
11		Iris Scissors (Straight)	11–12 cm	2	2	4	No.
12		Iris Scissors (Curved)	11–12 cm	2	2	4	No.

13		Tenotomy Scissors	11–13 cm	2	2	4	No.
14		Skin Hooks (Single Prong)	Small	4	4	8	No.
15		Skin Hooks (Double Prong)	Small	4	4	8	No.
16		Towel Clips (Backhaus)	9–11 cm	6	6	12	No.
17		Mosquito Artery Forceps (Straight)	12–13 cm	2	2	4	No.
18		Mosquito Artery Forceps (Curved)	12–13 cm	2	2	4	No.
19		Fine Hemostatic Forceps (Halsted)	12–14 cm	2	2	4	No.
20		Allis Tissue Forceps	15–18 cm	2	2	4	No.
21		Brown-Adson Forceps	12–15 cm	2	2	4	No.
22		Senn Retractor	Standard	2	2	4	No.
23		Langenbeck Retractor	Small / Medium	2	2	4	No.
24		Self-Retaining Retractor (Weitlaner)	Small	2	2	4	No.
25		Freer Elevator	Standard	2	2	4	No.
26		Periosteal Elevator (Molt No. 9)	Standard	2	2	4	No.
27		Dermal Curette	Assorted sizes	2	2	4	No.
28		Skin Graft Knife (Humby / Watson)	Standard	1	1	2	No.
29		Skin Graft Mesher	Standard	1	1	2	No.
30		Suction Cannula (Frazier)	6–10 Fr	1	1	2	No.
31		Measuring Scale (Sterile)	Standard	1	1	2	No.
32		Instrument Tray (SS)	Medium	1	1	2	No.
	Thoracic Surgery		Aesculap / Jalal Surgical	1	1	2	No.
1		Scalpel Handle No. 4	Standard	1	1	2	No.
2		Rib Shears	Adult	2	2	4	No.
3		Rib Spreader (Finochietto)	Adult	2	2	4	No.
4		Rib Cutter	Adult	2	2	4	No.
5		Periosteal Elevator (Cobb)	20–25 cm	2	2	4	No.
6		Periosteal Elevator (Doyen)	20–25 cm	2	2	4	No.
7		Bone Rongeur	18–20 cm	1	1	2	No.
8		Bone Nibbler	Standard	1	1	2	No.
9		Bone Curette	Assorted sizes	1	1	2	set
10		Mayo Scissors (Heavy)	18–20 cm	1	1	2	No.
11		Metzenbaum Scissors	18–20 cm	1	1	2	No.
12		Needle Holder (Heavy)	20–22 cm	1	1	2	No.
13		Artery Forceps (Long, Straight)	18–20 cm	2	2	4	No.
14		Artery Forceps (Long, Curved)	18–20 cm	2	2	4	No.
15		Sponge Holding Forceps	24–26 cm	1	1	2	No.
16		Lung Forceps (Duval)	20–25 cm	2	2	4	No.
17		Lung Holding Forceps	20–25 cm	2	2	4	No.
18		Atraumatic Bowel Clamp	20–25 cm	2	2	4	No.
19		DeBakey Tissue Forceps	20–22 cm	2	2	4	No.
20		Allis Tissue Forceps	18–20 cm	2	2	4	No.
21		Kocher Forceps	18–20 cm	2	2	4	No.
22		Satinsky Vascular Clamp	Medium	2	2	4	No.
23		Bulldog Vascular Clamp	Small	4	4	8	No.
24		Trocar with Cannula	Standard	2	2	4	No.
25		Suction Cannula (Thoracic)	Large bore	1	1	2	No.
26		Rib Elevator	Standard	2	2	4	No.
27		Instrument Tray (SS)	Large	1	1	2	No.
	Cardiovascular Surgery Instruments Set		Aesculap / Jalal	0	0	0	No.

			Surgical				
1		Scalpel Handle No. 4	Standard	1	1	2	No.
2		Sternum Saw (Manual / Oscillating)	Standard	1	1	2	No.
3		Sternal Retractor	Adult	2	2	4	No.
4		Rib Spreader (Finochietto)	Adult	2	2	4	No.
5		Sternal Wire Twister	Standard	2	2	4	No.
6		Sternal Wire Cutter	Standard	1	1	2	No.
7		Vascular Forceps (DeBakey)	20–25 cm	2	2	4	No.
8		Needle Holder (Cardiac)	20–25 cm	1	1	2	No.
9		Fine Needle Holder (Castroviejo)	12–14 cm	1	1	2	No.
10		Metzenbaum Scissors	18–20 cm	1	1	2	No.
11		Mayo Scissors (Heavy)	18–20 cm	1	1	2	No.
12		Artery Forceps (Long, Straight)	18–20 cm	2	2	4	No.
13		Artery Forceps (Long, Curved)	18–20 cm	2	2	4	No.
14		Bulldog Vascular Clamps	Small / Medium	2	2	4	No.
15		Satinsky Vascular Clamp	Medium / Large	2	2	4	No.
16		Aortic Cross Clamp	Adult	2	2	4	No.
17		Partial Occlusion Clamp	Medium	2	2	4	No.
18		Vascular Dilators	Assorted sizes	1	1	2	set
19		Vessel Loops	Small / Medium	4	4	8	No.
20		Vascular Scissors	15–18 cm	2	2	4	No.
21		Tissue Forceps (Fine, Atraumatic)	15–18 cm	2	2	4	No.
22		Suction Cannula (Cardiac)	Large bore	1	1	2	No.
23		Coronary Artery Probe	Assorted sizes	1	1	2	set
24		Sternal Elevator	Standard	1	1	2	No.
25		Trocar with Cannula	Standard	3	3	6	No.
26		Instrument Tray (SS)	Large	1	1	2	No.
	Neuro surgery Instruments Set		Aesculap / Jalal Surgical	1	1	2	No.
1		Scalpel Handle No. 3	Standard	1	1	2	No.
2		Scalpel Handle No. 4	Standard	1	1	2	No.
3		Periosteal Elevator (Penfield No. 1–4)	Assorted	1	1	2	set
4		Periosteal Elevator (Freer)	Standard	2	2	4	No.
5		Dural Elevator	Standard	2	2	4	No.
6		Dural Hook	Small	3	3	6	No.
7		Dural Scissors (Straight)	11–13 cm	1	1	2	No.
8		Dural Scissors (Curved)	11–13 cm	1	1	2	No.
9		Fine Tissue Forceps (Adson – Plain)	12–15 cm	1	1	2	No.
10		Fine Tissue Forceps (Adson – Toothed)	12–15 cm	1	1	2	No.
11		DeBakey Tissue Forceps	18–20 cm	1	1	2	No.
12		Bayonet Forceps	18–22 cm	2	2	4	No.
13		Bayonet Scissors	18–22 cm	2	2	4	No.
14		Needle Holder (Mayo-Hegar)	14–16 cm	1	1	2	No.
15		Fine Needle Holder (Castroviejo)	12–14 cm	1	1	2	No.
16		Kerrison Rongeur	1–5 mm	2	2	4	No.
17		Bone Rongeur	18–20 cm	1	1	2	No.
18		Bone Curette	Assorted sizes	1	1	2	set
19		Hudson Brace with Burrs	Standard	1	1	2	set
20		Gigli Saw with Handles	Standard	1	1	2	set

21		Craniotome (Manual / Electric)	Standard	1	1	2	No.
22		Bone Flap Elevator	Standard	2	2	4	No.
23		Brain Spatula	Small / Medium	2	2	4	No.
24		Self-Retaining Retractor	Small	2	2	4	No.
25		Suction Cannula (Frazier)	6–10 Fr	1	1	2	No.
26		Hemostatic Clip Applicator	Small	2	2	4	No.
27		Hemostatic Clips	Standard	1	1	2	Box
28		Sponge Holding Forceps	24–26 cm	1	1	2	No.
29		Instrument Tray (SS)	Medium / Large	1	1	2	No.
	Ophthalmic Surgery Instruments Set		Aesculap / Jalal Surgical	0	0	0	No.
1		Scalpel Handle No. 3	Standard	1	1	2	No.
2		Castroviejo Needle Holder	12–14 cm	1	1	2	No.
3		Barraquer Needle Holder	Standard	2	2	4	No.
4		Iris Forceps (Plain)	10–12 cm	2	2	4	No.
5		Iris Forceps (Toothed)	10–12 cm	2	2	4	No.
6		Colibri Forceps	Standard	2	2	4	No.
7		Fine Tissue Forceps	10–12 cm	2	2	4	No.
8		Vannas Scissors	8–10 cm	2	2	4	No.
9		Westcott Scissors	10–12 cm	2	2	4	No.
10		Iris Scissors (Straight)	11–12 cm	1	1	2	No.
11		Iris Scissors (Curved)	11–12 cm	1	1	2	No.
12		Corneal Scissors	Standard	2	2	4	No.
13		Lid Speculum (Barraquer)	Adult	2	2	4	No.
14		Eye Speculum (Wire)	Adult	2	2	4	No.
15		Desmarres Lid Retractor	Small / Medium	2	2	4	No.
16		Chalazion Clamp	Standard	2	2	4	No.
17		Fixation Forceps	Standard	2	2	4	No.
18		Lens Holding Forceps	Standard	2	2	4	No.
19		Capsulorhexis Forceps	Standard	2	2	4	No.
20		Sinsky Hook	Standard	2	2	4	No.
21		Iris Repositor	Standard	2	2	4	No.
22		Lacrimal Probe	Assorted sizes	1	1	2	set
23		Lacrimal Dilator	Standard	2	2	4	No.
24		Bowman's Probe	Assorted sizes	1	1	2	Set
25		Simcoe Irrigation–Aspiration Cannula	Standard	1	1	2	No.
26		Irrigating Cannula	23–27 G	1	1	2	No.
27		Needle Holder (Fine)	12–14 cm	1	1	2	No.
28		Sponge Holding Forceps	20–22 cm	1	1	2	No.
29		Instrument Tray (SS)	Medium		1	1	No.

LIST OF THE DISPOSABLE ITEMS

	Item Name	Detailed Technical Specifications	Typical Brand/Model	Qty			
1	Surgical Gloves (Sterile)	Latex, powder-free, sizes 7	Ansell / Surgiglove / Top Glove	25 pairs	25 pairs	50	Pair
2	Surgical Gloves (Sterile)	Latex, powder-free, sizes 7.5	Ansell / Surgiglove / Top Glove	25 pairs	25 pairs	50	Pair
3	Surgical Gloves (Examination)	Nitrile/Latex, non-sterile	Top Glove / Medispore	1 Box (100pcs)	1 Box (100pcs)	2	Box
4	Surgical Face Masks	3-ply, disposable	3M / SafeMask / Local	1 box (50 pcs)	1 box (50 pcs)	2	Box
5	N95 Respirator	Disposable, certified	3M / Venus	10	10	20	No.

	Masks						
6	Surgical Caps	Non-woven, disposable	Local OT Supply	1 Box (100pcs)	1 Box (100pcs)	2	Box
7	Shoe Covers	Non-woven, elastic	Local Brand	1 Box (100pcs)	1 Box (100pcs)	2	Box
8	Disposable Surgical Pack / kit	Universal (1 Mayo stand cover, 4 hand towels, 1 reinforced gown, 4 side drapes, 1 instrument table cover.)	3M Pakistan / BMS Enterprises	4	4	8	No.
9	Disposable Gowns	Sterile, non-woven (65 GSM)	Medline / Local Supplier	20	20	40	No.
10	Disposable Aprons	Plastic, fluid-resistant	Local Brand	20	20	40	No.
11	Gauze Swabs	10×10 cm, 8-ply, sterile	Surgitex / Cotton Craft	1 Box (100pcs)	1 Box (100pcs)	2	Box
12	Gauze Swabs (Non-Sterile)	10×10 cm	Surgitex / Local	1 Box (100pcs)	1 Box (100pcs)	2	Box
13	Laparotomy Sponges	With X-ray thread	Surgitex	50 pcs/box	50 pcs/box	100	No.
14	Abdominal (ABD) Sponges	Highly absorbent	Sultan Cotton / Surgitex	20	20	40	No.
15	Eye Pads	Sterile	Surgitex / Local	1 box (50 pcs)	1 box (50 pcs)	100	No.
16	Cotton Balls	Absorbent, sterile	Local Supplier	1 Box (100pcs)	1 Box (100pcs)	200	No.
17	Cotton Rolls	Medical grade	Local Supplier	20	20	40	No.
18	POP Bandage	Plaster of Paris rolls (3–6 in)	Gypsona / Orthoplast / POPBAND	10	10	20	No.
19	Elastic Crepe Bandage	4–6 inch	Johnson & Johnson / Local	10	10	20	No.
20	Adhesive Tape	Micropore, 1–2 inch	3M	12	12	24	No.
21	IV Cannula	16G, 18G,20G, 22 G, 24 G	Terumo / BD	20 each	20 each	40	No.
22	IV Administration Set	Sterile, disposable	B. Braun / Local	50 pcs/box	50 pcs/box	100	No.
23	Syringes	3mL, Sterile	B. Braun / Local	1 Box (100pcs)	1 Box (100pcs)	200	No.
24	Syringes	5 mL, sterile	BD / Nipro	1 Box (100pcs)	1 Box (100pcs)	200	No.
25	Syringes	10 mL, sterile	BD / Nipro	1 Box (100pcs)	1 Box (100pcs)	200	No.
26	Syringes	20 mL, sterile	BD / Nipro	1 Box (100pcs)	1 Box (100pcs)	200	No.
27	Syringes	50 mL, sterile	BD / Nipro	10	10	20	No.
28	Safety Syringes	Auto-disable	BD	1 Box (100pcs)	1 Box (100pcs)	200	No.
29	Foley Catheter	16 & 18 Fr, sterile	Bard / Romsons	10 each	10 each	20	No.
30	Urine Bags	Disposable, 2 L	Romsons / Local	2 box (25 pc per box)	2 box (25 pc per box)	50	No.
31	Suction Catheter	8, 10, 12 Fr	Romsons / Local	5 each	5 each	10	No.
32	Yankauer Suction Tip with suction tubing	Sterile	Medline / Local	5	5	10	No.

33	Nasogastric Tube	12 & 14 Fr	Romsons	5 each	5 each	10	No.
34	Oxygen Mask	Adult & pediatric	Romsons	4 each	4 each	8	No.
35	Oxygen Nasal Cannula	Disposable	Romsons	5	5	10	No.
36	Endotracheal Tube	Sizes 6.0–8.5	Portex / Romsons	3 each	3 each	6	No.
37	Laryngeal Mask Airway	Disposable	Ambu / Romsons	5	5	10	No.
38	Scalpel Blades	No. 10, 11, 15	Swann-Morton	1 Box (100pcs) Each	1 Box (100pcs) Each	200	No.
39	Sutures	Silk USP 3.0	Ethicon / Local	1 box (12 pcs)	1 box (12 pcs)	24	No.
40	Sutures	Vicryl 4.0	Ethicon / Local	1 box (12 pcs)	1 box (12 pcs)	24	No.
41	Sutures	Prolene 3.0	Ethicon / Local	1 box (12 pcs)	1 box (12 pcs)	24	No.
42	Biohazard Waste Bags	Color-coded	Local Supplier	100 pcs/roll	100 pcs/roll	200	No.
43	Sharps Container	Disposable, puncture-proof	BD / Local	5 pcs	5 pcs	10	No.
44	Alcohol Swabs	70% IPA	BD / Local	200 pcs/box	200 pcs/box	400	No.
45	Sterile Dressing Set	Single-use	Local Brand	20 sets/box	20 sets/box	40	set

LOT # 2 List of required equipment for DPT Labs

<u>Kinesiology Laboratory Equipment</u>					
Sr#	Item	Specifications or equivalent	Qty for Chiniot	Qty for main campus	Total
1	Foam Roller	18 inch long width 5.5 inch - Local - Good Quality	10	10	20
2	Theraband set of 3	Three different resistance with different colors - China	10	10	20
3	Resistance Tubing Set Of 5	Set of 5 tube band with 5 different resistance levels	5	5	10
4	Theraputty Orange	100 Gram - Made in China	5	5	10
5	Theraputty Green	100 Gram - Made in China	5	5	10
6	Theraputty Blue	100 Gram - Made in China	5	5	10
7	Gym Ball 65cm	China	5	5	10

8	Foam Wedges set of 3	Set of three faom wedges. Size small, medium and Large - Local	5	5	10
9	Mobilization belt	8 Feet long with imported buckle - length Adjustable Model: MB02 Box Packing	10	10	20
10	Goniometer set of 5	Set of 5 Goniometer of different sizes to meanusre Rom of all joints of body - Local	15	15	30
11	Tilt Table	6 Feet long - Tilt angle 180 to 90 degree - Movable model with locked tyres - Iron made with covered with imported raxin - Weight capacity 80 KG	2	2	4
12	Tilt table Electric	Remote controlled tilt table - adjustable ankle from 180 to 90 degree- Weight capacity 150 KG (Guage Frame 14)	2	2	4
13	wobble board wooden	Large size 2 x 2 feet	2	2	4
14	Rocker board wooden	Large size 2 x 2 feet	2	2	4
15	Wall bars iron	Iron made 8 feet tall - Powder Coating	2	2	4
16	Shoulder wheel	iron made with powerder Coating - including resistance knob to adjust the resistance level	2	2	4

17	Shoulder pulley	iron made with powder Coating - Rope length is adjustable according to patient height	2	2	4
18	Posture mirror	6 x 2 feet - Movable Model	1	1	2
19	Quadriceps chair	iron made with powder Coating - Double arm with adjustable weight plates	1	1	2
20	Staircase unit	wooden and iron made - Two dimension model with one side with small heighted, steps and other side with large steps	1	1	2
21	CP walker	height adjustable walker with imported tyres	1	1	2
22	Cycle Ergometer mini	Foldable mini bike with meter - china	1	1	2
23	Abduction ladder colourful wooden	Iron with abduction angle - Local - size 3 feet long	1	1	2
24	Twister disc	made in china	1	1	2
25	axillary crutches	Medicare - china	1	1	2
26	Elbow crutches	medicare - china	1	1	2
27	Treatment couch	Model: TC01 size 6 x 2 feet with head size adjustable	12	12	24
28	Clinical hammer steel	buck reflex hammer - china	12	12	24
29	Inclinometer	China	4	4	8
30	Hand Dynamometer Analog	china	4	4	8
31	parallel bars 10ft M	iron made with height adjustable - Length 10 feet long	1	1	2
32	Traction bed electric with refurbished unit	Electric remote controlled bed - height adjustable - weight capacity 150 KG with Refurbished unit	1	1	2

<u>Electrotherapy Laboratory Equipment</u>					
1	Tens / Ems	carevision tens - china	6	6	12
2	Interferensial current therapy	4 in 1 portable unit - china	2	2	4
3	Ultrasound	Oceanus Ultrasound touch screen 1 and 3 mhz - Model OCE-ETUS-001. china	3	3	6
4	IRR with bulb 100w	local height adjustable	4	4	8
5	Hot pack (Moist) with Hydrocollator	Hydrocollator large with 10 moist hot pack capacity	6	6	12
6	Hot Pack Units	Hot pack unit (Stainless Steel) with set of 3 hot pack, Mosit hot pack sizes 10 x 12 inch, 5 x 24 inch, 10 x 24 inch	6	6	12
7	Equipment trolley	local - two section - Material Iron with tyres	6	6	12
8	Cold pack	size 6 x 4 inch - China	6	6	12
9	Shortwave diathermy	Shortwave Diathermy Enraf Nonius Curapulse-970	2	2	4
10	Wax Bath (Paraffin)	5 liter capacity	1	1	2
11	Electrical hot pad	Electric heating pad besmed taiwan	6	6	12
12	Electrical hot pad	Atom heating pad	6	6	12
13	Microwave therapy	- M3 Japan	2	2	4
<u>List of Anatomy Models</u>					
1	Male Adult pelvis Model	ATL 80	2	2	4
2	84cm Human Skeleton Model	84 cm	2	2	4
3	42cm Human Skeleton Model	42 cm	2	2	4
4	Full Size Human Skeleton Model	ATL-01 - 180 cm	2	2	4
5	Skull Model	ATL 211	4	4	8
6	Human Spine Life Size	China	4	4	8
7	Bones set of full body	All bones in 1 set	2	2	4

8	Hip joint Model	China	2	2	4
9	Stomach Anatomy Model	ATL-154	2	2	4
10	Lung model	ATL-197 2 PARTS	2	2	4
11	big heart Anatomy Model	ATL-157	2	2	4
12	Laryngeal Anatomic Model	ATL-195	2	2	4
13	Model of eye	ATL-188	2	2	4
14	Ear anatomy model	ATL-190	2	2	4
15	Model of Kidney	ATL-205	2	2	4
16	Female sagittal anatomy	China	2	2	4
17	Upper limb Muscle body	ATL123	2	2	4
18	First aid box	China	2	2	4
19	Human heart anatomy model	China	4	4	8
20	Vertibral Column life size	China	2	2	4
21	Sternum with costal cartilage	ATL-196	2	2	4
22	Liver model	ATL 200	2	2	4
23	Model of duodenum pancreas and splen	ATL-201	2	2	4
<u>Physiology Lab Equipment</u>					
1	Stethoscope	Lifecare china - LC931	4	4	8
2	Sphygmomanometer (BP Apparatus)	micorlife	4	4	8
3	Histological Slides Box	China	1	1	2
4	ECG Machine3 channel	Ecg Machine With Touch Screen Pulsemeter N3	1	1	2
5	Pulse Oximeter	China	6	6	12
6	Hammer	Taylor hammer - china	5	5	10

LOT # 3 List of required goods for Allied Health Labs

Sr#	Item	Specifications	Chiniot Campus	Main Campus	Total Qty
1	Centrifuge Machine	<p>Centrifuge Set and displayed by RPM or G-force Easy-to-read LCD display and sound alert, Automatic lid-lock release after running, Maintenance-free brushless DC motor Speed Range 300-5000rpm, increment:10rpm or better Max. RCF 2600 x g, increment: 10×g Speed accuracy ±20rpm or better Rotor type 6x15mL or more Run Time 30sec-99min, HD (continuous running) Display LCD Safety Devices Door interlock, Overspeed detector, Automatic internal diagnosis Certification CE Advanced features Speed/RCF switch; sound-alert function Made in Germany, Japan, China, USA, UK</p>	2	2	4
2	Water Bath	<p>Water Bath Basic class for standard temperature control tasks Temperature range min. 5 °C above ambient up to +95 °C with additional boiling mode (+100 °C) State-of-the-art control technology of the Basic and models Microprocessor PID-temperature controller with integrated auto diagnostic system with fault indicator integrated digital timer from 1 min. to 99,59 hours Over temperature Protection (double) Interior Stainless-Steel Tank & Textured Stainless-Steel Casing Fitted With Gabled Cover, Operated on 220volts, Capacity 7 Lit., interior dimension 240x210x140mm Made in Germany, Japan, UK, USA or equivalent,</p>	2	2	4
3	Digital Balance	<p>Digital Balance Electronic Balance digital Top Loading High Resolution type Metal base structure, over load protection, fast response time, Various unit conversions and various functions available as standard Capacity 300gm, Readability 0.01gm, Pan Size 110mm, Linearity Taring range ± 0.02 g Ambient temperature 5–40°C, Taring range 0 g to 300 or more battery operated as well as operated on 220 volts, Power house 6 AA batteries, or AC Made in Germany, Japan, UK, USA or equivalent,</p>	2	2	4

4	Semiautomated Chemistry Analyzer	<p>Semiautomated Chemistry Analyzer Semi-automatic chemistry analyzer</p> <ul style="list-style-type: none"> • Light Source: Quartz-halogen lamp 12V-20W. • Wavelength Range, Automatic by 12-position filter wheel, 6 standard interference filters: 340, 405, 505, 546, 578 and 620 nm; 6 positions for optional filters. • Photometric Range -0.1 to 2.3 Absorbance • Detector Photo diode (320-1000 nm) • Blanking Automatic zero setting. • Flowcell Metal, with quartz windows, measuring volume 30 µl. • Temperature Control, By means of Peltier elements; Fixed temperature at 37°C. • Aspirator System, Internal pump of bellows type, driven by stepper motor. Back panel connection for waste; Aspiration volume programmable. • Printer, Internal matrix printer; Normal paper; External printer port • Operator Interface. Membrane keyboard, for direct function and alpha-numeric entry; Optional external keyboard; High contrast graphical LCD display; Real time clock, 24 hours system. • Measurement Procedures Kinetic, with linearity check: Kinetic, with linearity check and sample slope blank; Two point kinetic, with or without reagent blank; End point, with or without reagent blank; Bichromatic end point, with or without reagent blank; End point, with sample blank and with or without reagent blank. 	1	0	1
5	Refrigerator	Refrigerator 16 CFT or above, PEL Haier, dawrance or equivalent	2	1	3
6	Hygrometer	<ul style="list-style-type: none"> • Digital hygrometer with temperature display • Relative humidity measuring range 20–95% RH • Accuracy ±5% RH • Wall or table mounted 	4	4	8

7	PH Meter	<p>pH meter Equipped with Combination pH Electrode, Auto Temp. Compensation, measuring pH and temperature simultaneously. Auto. Calibration Mode with Calibration Guide and Self-Diagnosis Advanced digital processing technology helps generate quick and stable pH readings, durable and reliable Comes with easy-to-install electrode holder & pre-mixed calibration solutions 50 Groups of Data Storage pH Measuring Range (0 to 14.00) pH or more, Resolution 0.1/0.01 pH Accuracy ± 0.01 pH ± 1 digit or better, Stability ± 0.01 pH/3h ± 1 digit or better Temperature Compensation 0 to 100°C (32 to 212°F) Auto or Manual Calibration 1 to 3 points auto calibration mV Measuring Range ± 1999 mV, Resolution 1 mV, Accuracy $\pm 0.1\%$ F.S ± 1 digit Temperature Measuring Range 0 to 80°C (32 to 176°F), Resolution 0.1°C; 0.1/1°F Accuracy $\pm 0.5^\circ\text{C}$ ± 1 digit, Data Storage 50 groups Storage Content Numbering, measurements, unit, temperature, and status of temperature compensation, Power Supply Input: 120V AC 60Hz; Output: DC9V/300mA, 2.7VA IP Rating IP54 splash-proof and dust-proof With pH Electrode & Calibration Solutions (pH 4, 7 & 10) (50ml each) (Manufacture elsewhere) Brand Germany, Japan, USA, UK or Equivalent,</p>	2	2	4
8	Microscopes	<p>Microscope Outstanding Infinity color corrected optical system, Rotatable viewing tube Super large ceramic rackless stage, Super endurance function With ECO energy-saving working mode, Brightness memory function User-friendly design increases comfort and safety, Bright field observation Optical system Infinity color corrected optical system Viewing head 30° gemel binocular, 360° rotatable, adjustable eye-point height can adapt to operators of different heights. Eyepiece Wide field plan eyepiece PL10X/22mm, with reticle, diopter adjustable. Objective Infinity plan achromatic objective (4X, 10X, 40X, 100X) Nosepiece Quintuple nosepiece Stage Double layers mechanical ceramic paint stage, precision: 0.1mm [X-axis rackless]; Clips for double sliders, moving range 78mm x 51mm. Condenser N.A.1.25 Abbe condenser (with socket for phase contrast and dark field accessories) with aperture diaphragm. Illumination System 3W LED with continuous</p>	15	5	20

		intensity control. Made in Germany, Japan, China, Korea or Equivalent,			
9	Laminar Air Flow Cabinet	Laminar Flow Cabinet Horizontal 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 Technical Specifications: Exterior Dimensions 1220*650*920 (W x D x H (mm) or more Work Zone Dimensions 1120*490*575 (W x D x H (mm) or more Work Zone Height 40 (cm) or more, Controller Switch, BAT Blower Main Power Switch Yes, Foot-pad Yes, Noise dB(A) <65 or less HEPA Filter H13, ≥99.99% (@≥0.3μm), Operated on 220 Volts, (Manufacture elsewhere) Brand Germany, Japan, USA, UK or Equivalent, Malasia,	1	1	2
10	Incubator	Adaptive multifunctional Digital PID-Microprocessor controller with High-Definition TFT-Color Display Temperature range 10°C above ambient up to +80°C Resolution of display for set point values 0.1°C Double doors (interior glass, exterior stainless steel) Adjustment of pre-heated fresh air admixture by air flap control in 10% steps, Digital timer adjustable from 1 minute to 99 days, 23 hours Adjustable electronic overtemperature monitor and mechanical temperature limiter, protection class 1, Double Over Temperature Protection, Interior & Housing made of Stainless Steel Set point WAIT function - the process time does not start until the set temperature is reached, Textured Stainless steel, Programmed Stored in Case of Power Failure, Operated on 220volts, Capacity 32 Lit or more , Interior dimension: 400 x 320 x 250mm with single stainless steel tray, Made in Germany, Japan, USA, Swiss	1	1	2

Microbiology Lab Equipment

11	Autoclave	<p>Autoclave</p> <p>Time for sterilization can be easily adjusted by user-friendly control system.</p> <p>When setting time for sterilization ends up, buzzer sound comes together with automatic exhaust of steam inside the equipment.</p> <p>The advanced dual safety system makes optimized protection against any kind of dangerous factors which may be caused by excessive upturn of temperature & pressure. High-efficiency Over-Temperature Limit function fulfill reliable protection against overheating above a set temperature.</p> <p>User-friendly control panel enables end-users to take a look at both setting & present temperature. When it comes up to a end-user's setting temperature for sterilization, the timer is automatically activated and both operating temperature & progress time of sterilization temperature are shown on the display for easy monitoring.</p> <p>The safety devices present effective protection functions against overheating and overcurrent. Easy & quick operation with the completely-isolated structure from the outside of the equipment.</p> <p>Technical Specifications: - Temperature: Range: Amb. +10°C to 125°C or more Controller: Digital PID controller (Program type: 5 pattern 18 segment) Capacity: 50 ℓ or more Dimensions (in) ø300 x 550mm Display: PV & SV Dual Digital display Timer: 99hr 59min 59sec Pressure Gauge: 0 ~ 3 kg/cm² Operating Pressure: 1.2 kg/cm² at 121°C (Degrees of Celcius) Door packing: One Touch pressure Handle type Safety Device: Over Temperature, Over pressure & Over Current protector Basket: Standard wire Basket</p> <p>Operated on 220V, Made in Korea, Germany, Japan, USA, UK or Equivalent.</p>	1	1	2
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Histopathology Lab Equipment

12	Hot Plate	<p>Hot Plate</p> <p>Technical Specifications:</p> <p>Housing Material: Epoxy painted aluminum structure</p> <p>Plate Material Aluminum Alloy</p> <p>Plate Diameter: 135mm</p> <p>Stirring Volume (H₂O): 15L or more</p> <p>Stirring Speed Range: 100 – 1500 rpm or more</p> <p>Temperature Range: Room temp. - 310 °C</p> <p>Power Input 630 W or less</p> <p>Made in Germany, Japan, USA, UK,</p>	1	1	2
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Molecular Biology Lab Equipment

13	Water Bath	<p>Water Bath Memmert</p> <p>Basic class for standard temperature control tasks</p> <ul style="list-style-type: none"> • Temperature range min. 5 °C above ambient up to +95 °C with additional boiling mode (+100 °C) • State-of-the-art control technology of the Basic and models • Microprocessor PID-temperature controller with integrated auto diagnostic system with fault indicator • integrated digital timer from 1 min. to 99,59 hours • Over temperature Protection (double) • Interior Stainless Steel Tank & Textured Stainless Steel Casing • Fitted With Gabled Cover <p>Operated on 220volts, WNB Series. Capacity 7 Lit., interior dimension 240x210x140mm Model WNB7, Memmert Made in Germany.</p>	1	1	2
14	Pipettes	<p>pipette with tips</p> <p>Micropette plus is fully Autoclavable, being able to withstand temperatures of 121°C and does not need to be pre-treated prior.</p> <ul style="list-style-type: none"> • Easy calibration and maintenance • Individual piston and tip cone assembly • Dispensing head rotates for effortless pipetting convenience • Spring loaded tip cones for easy cleaning and maintenance • Compound material-made tip cone secures high sealing performance <p>Ranges are as: one set each with tips</p> <p>(I). Measuring Range 0.1 to 2.5µl, Increment 0.05µl,</p> <p>(II). Measuring Range 2 to 20µl, Increment 0.5µl,</p> <p>(III). Measuring Range 20 to 200µl, Increment</p>	1	1	2

		1µl, (IV). Measuring Range 100 to 1000µl, Increment 5µl,			
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LOT # 4 Lab Furniture items for Chiniot Campus

Item	Specs	Qty
Lab table with one shelf 5x2.5 with marble on top double sided used	Structure made of 18mm 1.5 x 1.5, 18 guage square pipe, with sheet 20 guage covered top and side, three draws on side of same sheet with proper sliding, single shelf 1.5 ft high with same sheet for chemicals & other items One draw large on other side, selected color scheme	5
Lab table with two shelf 5x3 with marble on top double sided used	Structure made of 18mm 1.5 x 1.5, 18 guage square pipe, with sheet 20 guage covered top and side, three draws on side of same sheet with proper sliding, double shelf 1ft and 2ft with same sheet for chemicals & other items One draw large on other side, selected color scheme	5
Single wall lab table 5 x 2.5	Structure made of 18mm 1.5 x 1.5, 18 guage square pipe, with sheet 20 guage covered top and side, three draws on side of same sheet with proper sliding, One draw large on other side, selected color scheme	8
Almirah with 12 lockers 6x4	Structure made of 22 guage iron sheet, galvanized paint of selected color, proper locker with keys,	5
Almirah 5 shelf 5x3 double door with glass	Structure made of 22 guage iron sheet, galvanized paint of selected color, proper locker with keys, heavy duty Wheel base stand	5
Iron stool square top	24 inch hieght, 16 inch base, 12 inch top, square, 18mm 1inch square pipe, top coverd with 3inch thick faom and leather sheet sticthed in all respect	200

