TENDER DOCUMENT FOR LAB EQUIPMENT AND FURNITURE & FIXTURE

Issued to: _____

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1. INVITATION TO THE BID

1.1. Bids/Tenders are invited, for Tender Document for **LAB EQUIPMENT AND FURNITURE & FIXTURE** from FBR (Sales 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 or bids without Bid Security in shape of CDR or CDR less than required amount or Bid Security in shape of Cheque/ Cross Cheque/pay order/ Demand Draft /Banker's Cheque shall be summarily rejected.

2.5. Vendors must quote their rates on the company letter pad / tender form according to the specifications. Handwritten quoted rates will not be accepted.

2.6. **Mode of Advertisement**:

As per Rule 12 the advertisement is being placed on the website of PPRA Punjab (www.ppra.punjab.gov.pk) and GCWUS web site (www.gcwus.edu.pk)

2.7. **Type of Open Competitive Bidding**

As per Rule No. 38(2) a, Single stage two envelope procedures 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 Purchaser 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 un-opened to the respective bidders.

2.8. BID DATA SHEET (Information for the Bidders)

1	Procuring Agency	Government College Women University Sialkot, Katchery Road Sialkot
2	Tender Number	GCWU/SKT/PD/609
3	Name of Tender	**LAB EQUIPMENT AND FURNITURE & FIXTURE**
4	Tender Document available place	Office of the Project Director (PIU), Admin Block, Government College Women University Sialkot, Katchery Road Sialkot.
5	Cost of Tender Document	**Rs.1000/-** payable in A/C # 6580208768600042 at BOP Paris Road Branch Sialkot through Challan Form (Non Refundable) or online fee deposit and deposit slip attached with the technical bid. **(Challan form can be get from Office of the Project Director, PIU, GCWUS)**
6	Bid Security	**LAB EQUIPMENT** LOT # 01. Rs. 703,500/- for BOTANY LAB EQUIPMENT LOT # 02. Rs. 1,152,000/- for CHEMISTRY LAB EQUIPMENT LOT # 03. Rs. 105,000/- for ZOOLOGY LAB EQUIPMENT LOT # 04. Rs. 757,000/- for PHYSICS LAB EQUIPMENT LOT # 05. Rs. 291,000/- for FINE ARTS EQUIPMENT LOT # 06. Rs. 259,000/- for Equipment of Nanotechnology **FURNITURE AND FIXTURE** LOT # 07. Rs. 200,000/- for FURNITURE & FIXTURES FOR CLASS ROOMS LOT # 08. Rs. 155,000/- for FURNITURE & FIXTURES FOR LIBRARY **In shape of CDR in favor of "Treasurer, Government College Women University Sialkot"**
	Performance Guaranty	The successful bidder will provide 10% Performance Guaranty from any scheduled bank of Pakistan before issuance of supply order and it will be released after payment of bill.
8	Security	10% security will be retained from supplier's bill which will be returned after warranty period.
9	Tender Addressed to	Vice Chancellor Office, Government College Women University Sialkot, Katchery Road Sialkot
6	Contact Number	Ph. 052-9250620
10	Due Date, Time and place of submission of Tender Document	14-03-2023 till 02:00 P.M Vice Chancellor Office, Government College Women University Sialkot, Katchery Road Sialkot.

11	Date, Time and Place of Technical Bid Opening	14-03-2023 till 02:30 P.M at Meeting Room of Government College Women University Sialkot, Katchery Road Sialkot.
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 Sialkot, Katchery Road Sialkot

3.2. "GCWUS" means Government College Women University, Sialkot

3.3. "Bidder/Tenderer" means the Firm/Company/Supplier/Distributer 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. "Contract Value" means that portion of the Contract Price adjusted to give effect to such additions or deductions as are provided for in the Contract which is properly apportion-able to the Goods or Services in question.

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.

4. TENDER ELIGIBILITY

Eligible Bidder/Tenderer is one who:

4.1.1 has valid registration certificates from FBR for Income and Sales Tax.
4.1.2 is an active Income Tax Payer.
4.1.3 has got the Technical Staff to execution/ installation of the Equipment.
4.1.4 conforms to the clause of "Responsiveness of Bid" given in this tender document.
4.1.5 has not been blacklisted.
4.1.6 The vendor should provide their relevant experience profile with Public/ Private Institutes (Supply order, services etc).
4.1.7 The vendor should provide the original Warranty by the company.

5. EXAMINATION OF THE TENDER DOCUMENT

The bidder/Tenderer is expected to examine the Tender Document, including all terms and conditions.

6. CLARIFICATION OF THE TENDER DOCUMENT BEFORE DEADLINE OF SUBMISSION

6.1. The Project Procurement Committee of Government College Women University, Sialkot**,** 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).

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

6.3. 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.

7. BID CURRENCY

Bidder should quote price in Pak Rupees for as tender notice.

8. VALIDITY PERIOD OF THE BID

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

8.2. In exceptional circumstances, the Project Procurement Committee of Government College Women University, Sialkot 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.

9. BID SECURITY

9.1. Bidder will submit Bid Security drawn in the name of Treasurer Government College Women University, Sialkot against each lot with details given below:

(The required amount of Bid Security, for each lot, does not exceed 2% of estimated cost of the lot)

LOT #	LOT NAME	Amount of Bid Security Rs)
LAB EQUIPMENT		
1	**BOTANY LAB EQUIPMENT**	Rs. 703,500/-
2	**CHEMISTRY LAB EQUIPMENT**	Rs. 1,152,000/-
3	**ZOOLOGY LAB EQUIPMENT**	Rs. 105,000/-
4	**PHYSICS LAB EQUIPMENT**	Rs. 757,000/-
5	**FINE ARTS EQUIPMENT**	Rs. 291,000/-
6	**Equipment of Nanotechnology**	Rs. 259,000/-
FURNITURE AND FIXTURE		
7	**Furniture & Fixtures for Class Rooms**	Rs. 200,000/-
8	**Furniture & Fixtures for Library**	Rs. 155,000/-

9.2. The Bid Security will be in form of CDR in favor of the Treasurer, Government College

Women University, Sialkot.

9.3. Cheque/ Cross Cheque/pay order/ Demand Draft /Banker's Cheque shall be summarily rejected.

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

9.5. The Bid Security of Successful Bidder(s) may be return after provision of supply along with invoice/bill.

9.6. 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.

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

a) Refuses to accept supply order/ work order

b) Fails to furnish complete/partial supply of items**.**

10. BID PREPARATION AND SUBMISSION

10.1. The Tender 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.

10.2. 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.

10.3. **TECHNICAL PROPOSAL**

The Technical Proposal will enable the Project Procurement 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 and will be returned to the bidder.

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

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

10.6. The Bidder may quote brand/model/make of each item.

10.7. **Detail and Order of Documents to be furnished with the Technical proposal (Envelope A)**:

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:

10.7.1. Covering letter ***(Annexure-A)*** having reference number & date duly signed and stamped by authorized representative.

10.7.2. Copy of Income Tax Registration Certificate

10.7.3. Copy of Sales Tax Registration Certificate.

10.7.4. Detailed specification of items on letter pad.

10.7.5. Bid Security of amount (total amount of the relevant lot) mentioned in Clause No. 9

of the Tender Document in shape of CDR.

10.7.6 Affidavit/Undertaking Covering Letter on Stamp Paper ***(Annexure-D).***

FINANCIAL PROPOSAL

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

1.2. 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.

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

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

1.5. Vendors must quote their rates on the company letter pad / tender form according to the specifications. Handwritten quoted rates will not be accepted.

1.6. **Details to be furnished with financial proposal *(Envelope B*)**

1.6.1. Financial Proposal Covering Letter **(Annexure E)**.

1.6.2. Financial Proposal Form duly filled, signed and stamped by the Bidder **(AnnexureF).**

1.7. **Sealing the Bid**

1.7.1. The Technical Proposals shall be placed in a separate cover **(Envelope-A)** and sealed appropriately. The Technical Proposals cover shall be marked as **"Technical Proposal for:**
"LOT # 01. BOTANY LAB EQUIPMENT"
"LOT # 02. CHEMISTRY LAB EQUIPMENT"
"LOT # 03. ZOOLOGY LAB EQUIPMENT"
"LOT # 04. PHYSICS LAB EQUIPMENT"
"LOT # 05. FINE ARTS EQUIPMENT"
"LOT # 06. EQUIPMENT OF NANOTECHNOLOGY"
"LOT # 07. FURNITURE & FIXTURES FOR CLASS ROOMS"
"LOT # 08. FURNITURE & FIXTURES FOR LIBRARY"
bid Ref.: GCWU/SKT/PD/609 due on the "FROM" address and "TO" address shall be written without fail.

1.7.2. The Financial Proposals **(Envelope-B)** shall contain rates of item quoted by the bidder. The Financial Proposals cover shall be marked as **"Financial Proposal for:**
"LOT # 01. BOTANY LAB EQUIPMENT"
"LOT # 02. CHEMISTRY LAB EQUIPMENT"
"LOT # 03. ZOOLOGY LAB EQUIPMENT"
"LOT # 04. PHYSICS LAB EQUIPMENT"
"LOT # 05. FINE ARTS EQUIPMENT"
"LOT # 06. EQUIPMENT OF NANOTECHNOLOGY"
"LOT # 07. FURNITURE & FIXTURES FOR CLASS ROOMS"
"LOT # 08. FURNITURE & FIXTURES FOR LIBRARY"
Bid Ref.: GCWU/SKT/PD/609 due on: The "FROM" address and "TO" address shall be written without fail.

1.7.3. **Out Cover**: The Technical Proposal cover (Envelope-A) and Financial Proposals

cover (Envelope B) shall then be put in a single outer envelope and sealed. The outer cover shall be marked as **"Bid for:**
"LOT # 01. BOTANY LAB EQUIPMENT"
"LOT # 02. CHEMISTRY LAB EQUIPMENT"
"LOT # 03. ZOOLOGY LAB EQUIPMENT"
"LOT # 04. PHYSICS LAB EQUIPMENT"
"LOT # 05. FINE ARTS EQUIPMENT"
"LOT # 06. EQUIPMENT OF NANOTECHNOLOGY"
"LOT # 07. FURNITURE & FIXTURES FOR CLASS ROOMS"
"LOT # 08. FURNITURE & FIXTURES FOR LIBRARY"
Bid Ref.: GCWU/SKT/PD/609 due on ____. The "FROM" address and "TO" address shall be written without fail.

1.8. Mode of Submission of Bids

1.8.1. The Bid should be addressed to "Vice Chancellor Office, Government College Women University Sialkot, Katchery Road Sialkot" and shall reach Vice Chancellor Office of Government College Women University, Sialkot, within given time period in tender notice, through valid Courier/Post.

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

11. MODIFICATION/WITHDRAWAL OF THE TENDER

11.1. 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.

11.2. 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.

12. BID OPENING

12.1. Technical Proposal Opening

The bid's outer cover and Technical Proposal cover will be opened by the Project Procurement Committee of Government College Women University, Sialkot on the date and time as specified in the Tender Notice /Bid Data Sheet. The bids will be opened in the presence of the bidders who choose to be present. Only one representative for each bidder would be allowed to attend the Bid Opening.

12.2. Suppression of facts and misleading information

12.2.1. During the bid evaluation, if any suppression or misrepresentation of information is brought to the notice of the Project Procurement Committee, the Committee shall have the right to reject the Bid and if it happens so after selection of the Bidder, the Project Procurement 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.

12.2.2. 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 Project Procurement Committee failing which the Bid may be rejected.

13. PRELIMINARY EXAMINATION

13.1. The Procuring Agency shall examine the bids to determine whether they are complete, whether any computational errors have been made, whether the required documents have

been furnished and properly signed, and whether the bids are generally in order.

13.2. In the 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, their bid shall be rejected. If there is a discrepancy between words and figures, the amount in words shall prevail.

14. DETERMINATION OF RESPONSIVENESS OF THE BID

14.1. 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:

14.1.1. meets a eligibility criteria for the Bidder / the Goods / the Services;

14.1.2. Meets all the mandatory requirements of the evaluation criteria.

14.1.3. meets the Technical Specifications for the Goods / the Services.

14.1.4. meets the delivery period / point for the Goods / the Services.

14.1.5. is accompanied by the required Bid Security.

14.1.6. is otherwise complete and generally in order;

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

14.1.8. which offers Brand/Model/Make for each item (where applicable)

14.2. A material deviation or reservation is one which affects the scope, quality or performance of the Goods or limits the Purchaser's rights or the Bidder's obligations under the Contract.

14.3. 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.

15. 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:

Evaluation Criteria	Requirement
Sales Tax Registration	Mandatory
Income Tax Registration	Mandatory
Conformance to the required specification of items given in Schedule of Requirement	Mandatory
Bid Security in Shape of CDR original	Mandatory
Affidavit /Bidder's Undertaking on stamp paper	Mandatory

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

16. FINANCIAL PROPOSAL EVALUATION

16.1. 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 Purchaser accordingly. The technically Eligible/Successful Bidder(s)/Tenderer(s) or their authorized representatives against each Lot shall be allowed to take part in the Financial Proposal(s) opening against their relevant Lot(s).

16.2. Financial Proposal evaluation will be conducted under the Punjab Procurement Rules, 2014. The Price evaluation will include all duties, taxes and expenses etc. In case of any exemption of duties and taxes made by the Government in favor of the Purchaser, the contractor shall be bound to adjust the same in the Financial Proposal.

17. REJECTION AND ACCEPTANCE OF THE TENDER/BID

17.1. 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, accept a Tender reject any or all tender(s), cancel / annul the Tendering process at any time prior to award of Contract, without assigning any reason or any obligation to inform the Tenderer of the grounds for the Purchaser's action, and without thereby incurring any liability to the Tenderer and the decision of the Purchaser shall be final.

17.2. The Tender / bid shall be rejected if:

17.2.1. It is substantially non-responsive; or

17.2.2. The bidder does not meet any of the mandatory criteria mentioned in Clause No. 15; or

17.2.3. It does not contain the documentary proof against any of the mandatory criteria mentioned in Clause No. 15; or

17.2.4. The bid is incomplete, conditional, alternative, late; or

17.2.5. The bid fee in said form is not provided.

17.2.6. the bidder does not attach Bid Security in Shape of CDR; or

17.2.7. the bid security is not attached, or it is less than the required amount; or

17.2.8. the Bidder submits more than one Bids against one Tender: or

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

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

17.2.11. 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

17.2.12. The Bidder submits any financial conditions as part of its bid which are not in conformity with tender document.

18. CONTACTING THE PROCURING AGENCY

18.1. No Bidder shall contact the Project Procurement Committee of Government College Women University, Sialkot on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.

18.2. 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.

19. 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.

20. AWARD OF CONTRACT

20.1. The Tender will be awarded to the Lowest Evaluated Bidder who has been declared Technically Qualified.

21. REFUND OF BID SECURITY (BS)

The BS of the unsuccessful Bidder will be refunded on the written request of the Bidder. The Bid Security of the successful bidder shall be released after successfully completion of delivery.

22. ISSUANCE OF SUPPLY ORDER OR SIGNING THE CONTRACT

22.1. The Project Procurement Committee shall issue Supply Order or sign a Contract with the Successful bidder who has submitted the Performance Guarantee.

22.2. The Successful Bidder will provide the stamp paper of 0.25% of total order value for issuance of Supply Order or Signing the Contract.

23. REDRESSAL OF GRIEVANCES BY THE PROCURING AGENCY

23.1. Any bidder feeling aggrieved by any act of the procuring agency after the submission of his bid may lodge a written complaint along with copy of CNIC concerning his grievances not later than 10 days after the announcement of the bid evaluation report.

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

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

23.4. Any bidder not satisfied with the decision of the committee of the procuring agency may lodge an appeal in the relevant court of jurisdiction.

GENERAL CONDITIONS OF CONTRACT / SUPPLY ORDER

24. DELIVERY OF ITEMS

24.1. Delivery Period will be counted after issuance of Letter of Acceptance with details given below:

LOT #	LOT NAME	No. of days
LAB EQUIPMENT		
1	**BOTANY LAB EQUIPMENT**	30
2	**CHEMISTRY LAB EQUIPMENT**	30
3	**ZOOLOGY LAB EQUIPMENT**	30
4	**PHYSICS LAB EQUIPMENT**	30
5	**FINE ARTS EQUIPMENT**	30
6	**Equipment of Nanotechnology**	30

FURNITURE AND FIXTURE		
7	**Furniture & Fixtures for Class Rooms**	30
8	**Furniture & Fixtures for Library**	30

24.2. The Supplier will be responsible for **delivery and installation** of Items where required at GCWU Sialkot as mentioned.

24.3. 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.

25. LIQUIDATED DAMAGES

25.1. When the supplier fails to deliver or install the goods or both within the time period specified in the contract, the Project Procurement 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 0.1% of the price of the delayed goods per day of delay, maximum up to 10% of the price of total value of the contract.

25.2. The Successful Bidder will be responsible to provide the delivery, delivery Challan and Bill with Sales Tax Invoice within the delivery period in order to avoid Late Delivery Charges.

26. INSPECTION AND TESTS

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

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

26.3. After the inspection or test if the Project Procurement Committee is of the opinion that items do not conform to the specification and the criteria mentioned above, the Inspection 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 GCWUS.

27. RELEASE OF PERFORMANCE SECURITY

The performance Guaranty 10% will be refunded to the supplier's after payment of bill.

28. CONTRACT AMENDMENT

28.1. The Purchaser may, at any time, by written notice served on the Contractor, alter, amend, omit, increase, decrease or otherwise change the nature, quality, quantity and scope, of all / any of the Goods / the Services / the Works, in whole or in part.

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

29. TERMINATION FOR DEFAULT

The Project Procurement Committee of Government College Women University, Sialkot 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:

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

29.2. the successful bidder fails to deliver goods and services as per its technical specifications offered in the bid

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

29.4. The bidder, in the judgment of the Project Procurement Committee has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

30. 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 Purchaser 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.

31. 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 misplanning, 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, quadrant in 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 Redressal of grievances, shall examine the pros and consof 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.

32. TERMINATION FOR INSOLVENCY

The Procuring Agency may at any time terminate the Contract by giving written notice of 30 days' time to the Supplier if the Supplier becomes bankrupt or otherwise in solvent. In this event, termination shall be without compensation to the Supplier, provided that such termination shall not prejudice or affect any right of action or remedy which has accrued or shall accrue thereafter to the Parties.

33. FORFEITURE OF PERFORMANCE SECURITY

33.1. If the Contractor fails / delays in performance of any of the obligations, under the Contract / violates any of the provisions of the Contract / commits breach of any of the terms and conditions of the Contract the Purchaser may, without prejudice to any other right of action / remedy it may have, forfeit Performance Security of the Contractor.

33.2. Failure to supply required items/services within the specified time period will invoke penalty as specified in this document. In addition to that, Performance Security amount will be forfeited, and the company will not be allowed to participate in future tenders as well.

34. PAYMENT

34.1. Payment will be made by Government College Women University, Sialkot to the Successful Bidder after delivery and installation of goods and on receipt of the following documents:

i. Bill

ii. Delivery Challan

iii. General Sales Tax Invoice

iv. Inspection/Completion report

v. Bill of Entry of imported items

34.2. 10% security will be deducted from the bill and refund after completion of warranty period.

35. Warranty

35.1. Warranty of items shall be as per required in the Schedule of Warranty.

35.2. The 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.

35.3. During the warranty period the Successful Bidder will provide comprehensive warranty of the items. The Project Procurement 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 **ten days**, 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.

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36. SPECIFICATIONS AND SCHEDULE OF REQUIREMENT

Sr. #	NAME OF ITEMS /SPECIFICATION	QTY	UNIT PRICE WITH TAX
LOT# 01. BOTANY LAB EQUIPMENT			
1	Analytical balance top loaded, (micro gram) 1 to 3000 gm	3	
2	Ammonia High Range Photometer with 470 nm LED, Specifications: Range:0.0 to 50.0 mg/L, Resolution: 0.1 mg/L, Accuracy: ±0.5 mg/L ±5% of reading, Light Source: LED 470 nm, Light Life: Life of the instrument, Light Detection: Silicon Photocell Battery Type / Life1 x 9V / approx. 40 hours of continuous use; auto-off after 10 minutes of non-use	2	
3	Kjeldahl Distilling Equipment Overall Size 900x300/200x1000 mm Plate Size 120x120x60, 6ea mm Controller: Analog setting typex6sets Power Source: AC 230V 50/60Hz 1 phase	1	
4	Benchtop ph meter , Range pH -2.00 to 16.00 pH mV ±399.9 mV; ±2000 mV, Temperature -20 to 120.0°C, Resolution pH 0.01 pH mV 0.1 mV; 1 mV, Temperature 0.1 °C, Accuracy pH ±0.01 pH, mV ±0.2 mV (±399.9 mV); ±1 mV (±2000 mV), Temperature ±0.4 °C (excluding probe error) pH Calibration automatic, 1 or 2 point with 5 memorized buffer values (pH 4.01, 6.86, 7.01, 9.18, 10.01)	2	
5	Refrigerated centrifuge. Centrifuge 1 Liter capacity15000 Rpm max 22000GSwing out rotor & Fixed angle rotors	1	
6	Blender (Juicer Machine)	1	
7	Clinical centrifuge, Supplied complete with a 6x15mL fixed-angle rotor, this basic unit features variable speed to 4000rpm/1900g, The rotor accepts 15mL (16x130mm) and 10mL (16x100mm) tubes directly.	1	

8	Chlorophyll meter with 4 batteries, Field Scout CM 1000 Chlorophyll Meter. Reflectance of 700 nm and 840 nm, light: Light Requirements, Natural sun light, Artificial light: 60 Hz AC tungsten or, halogen powered by DC current, Contact Spectrum for use with 50 Hz, AC (Europe)Measurement Area, Conical field-of-view between 28.4 and 183 cm Index of relative chlorophyll content; 0 to 999. Logger Capacity 3250 readings without GPS/DGPS	1	
9	Digital autoclave vertical Fully automated sterilization process by digital PID auto-tuning controller. Dual safety pressure valve systems ensures user safety. Overall size (WxDxH) mm	1	
10	Digital microscope, Optima Microscope. Head: Digital, Binocular, 360° rotating, 30° inclined, Eyepiece: WF10X/20mm, Nosepiece: Quadruple, reversed, Objectives: Achromatic 4x, 10x, 40x, 100x (oil immersion).Working Stage: Double layer with mechanical sliding stage, 160x142mm, mov. range 76x52mm, Condenser: 1.25 N.A. Abbe type, with centering system, Focusing System: Coarse and fine with different axis, with focusing stop mechanism, Illumination: White LED, non-rechargeable, with brightness control, Digital Camera Resolution: 1600x1200pixels, 2.0M, Output: USB 2.0 port, Software:Opmias (Optika Micro Image Analysis Software)	1	
11	Energy Saver Refrigerator Capacity 175 L / 6.2 cu. Ft. No frost No (Direct Cool) Dimension 490 x 1231 x 525 mm. Specification, Capacity 175 L / 6.2 cu. ft., No Frost, No (Direct Cool), Dimension 490 x 1231 x 525 mm, Colors Crystal Grey / Stone Grey	1	

12	Digital camera Auto Focus s66494af. Angle 60° Diagonal, 50° horizontalAxis Type AutoCertifications/Compliance CE, FCC, RoHS, ISO9001-2008Product Type Auto focus digital camera, For Use With (Equipment) Auto focus digital cameraColor Black Compatibility (Operating System) Windows™, Mac™, Linux™, Display Type LEDField of View 18.5 in. max. 17 x 14 in, Length (English) 2.7 in. to infinityIncludes Applied Vision™ 4 Software for Windows™, Mac™ and Linux™ operating systems, EduCam mobile app for iPad, iPhone and Android	1	
13	Dispenser, Voltage: 220-240V - 50/60Hz, Refrigerant: R134a/42g, Input Power: 540W, Heating Power: 420W, Cooling Power: 120W, Hot Water: 85'C - 4L/h, Cold Water: 10'C - 2L/h, Environmental Temp: 10 - 38'C, Relative Humidity: 70%, Protection of Anti-Electrical - Shock	1	
14	Digital water bath, Digital water bath, microprocessor controlled. Digital indicator for Temperature, with over temperature cutoff sensor., Temperature Range: Ambient 5°C ~ 99°C Temp Accuracy: ± 0.1°C, Temp Uniformity: ±0.5°C, Capacity: 23litters, Dimensions: 590 x 350 x 230mm Material Internal: Stainless steel, External: Steel, Powder coating, Power Consumption; 1500Watts	1	
15	Del documentation system, Specifications: Camera Pentax® MX-1 or equivalent digital camera with a 1/1,7" backlit CMOS Sensor, 12 Megapixel and 3" LCD Monitor. Lens Zoom range 28-112 mm, (Full frame), Aperture f/1.8-f/2.5Size 50 x 26 x 34 cm, Weight 6.3 kg, Illuminator Fast Gene® Blue/Green Trans illuminator ,Optical Filter Amber Filter Power Supply , Blue/Green Trans illuminator , Input:100-240V, 50-60Hz (24V, 1A)Pentax Battery Charger, Input: 110-240V, 50-60Hz	1	

16	Deep Freezer with Stabilizer, 12 Cu Feet, Single door	1	
17	Environmental temperature humidity cycling walk-in climatic chamber. Temperature range for single stage refrigeration: -13°F/-25°C to 185°F/85°C Temperature range for cascade refrigeration: -100°F/-73°C to 185°F/85°C. Humidity Range: 10% to 95 RH within the bounds of a 158°F/70°C max. dry bulb and a 40°F/4°C min. dewpoint.	1	
18	Elisa plate reader Technical Specifications Light source: monochromatic LED min. life time: 100.000 hours, Wave lengths: 405, 450, 492 and 630 nm standard 2 optional wave lengths, Photometric range: 0.0000 - 2.5000 abs, Resolution: 0.0001 abs, Linearity: $r \geq 0.995$, Repeatability: cv < 1%, Mixing: 3 speed levels, programmable timing, Reading time: less than 6 seconds per plate, Test modes: single or double wave length, abs., cut-off, single point, point-to-point, linear, index, log. or exp. regression,	1	
19	Ec meter, Supplied with probe And 40ml calibration solution Model # HI9813-5	1	
20	Epi-fluorescence microscope, Technical specifications Optical system Mechanical tube length: IOS - Infinity Optical System; parfocal distance 45mm Head Trinocular, 30° inclined, 360° rotating. Diopter adjustment; interpapillary distance adjustment 55-75 mm.Eyepieces Wide Field WF20x/18 mm.Nosepiece 5-position reversed revolving nosepiece. Ball bearing linear guides. Objectives IOS Planachromatic FLUO 4x/0.1, 10x/0.25, 20x/0.40, 40x/0.65, 100x/1.25 (oil). Specimen stage Double layer with mechanical sliding stage 160x142mm moving range 76x52mm Focusing system Rack and pinion mechanism, with coaxial coarse and fine control knobs. Fine adjustment graduation 0.002 mm. Vertical movement range: 20 mm. Tension control on right side; upper stage drive stop on left side. Condenser Centrable Abbe condenser with double lens. N.A. 1.25. Fitted with iris diaphgram, blue filter and filter holder. Height adjustment by a rack and pinion mechanism Illumination X-LEDTM unit for transmitted light. HBO 100W high pressure mercury bulb for epi-fluorescence	1	

21	Fermentor FJG A sophisticated fermentor contains ph regulator, oxygen level regulator, anti-foam device, temperature controller, Standard:GMP. Production Capacity:30sets/Month	1	
22	Flame photo meter, Specifications Acceptable Components: Silicon Photocell, Spectroscopical Method: Interference Filter, Display Method: Dual-channel LED digital display 4digits of each channels, Readings Range: K: 0.0-999.9 Na: 0.0-999.9, Stability: Within15s the Max. Relative Deviation Value ≤ 3%, Repeatability: ≤ 3%, Linearity Error:, (0.00-0.2)mmol/L, linearity error ≤ 0.005mmol/L, Na: (0.0-1.0)mmol/L, linearity error ≤ 0.03mmol/L, Detection Limit: K≤ 0.004mmol/L, Na≤ 0.008mmol/L, Response Time: < 8s, Solution Wastage: 4-6ml/min	1	
23	Gas chromatograph, Capillary FID GC System (VOLTAGE: for 230VAC, order 8610-5400-2) FID Detector "whisper quiet" air compressor, 8610C chassis. FID Detector 30 meter capillary column built-in, "whisper quiet" air compressor , 1 Channel PeakSimple data system on the compact.	1	
24	Gradient PCR thermal cycler, Extra Gene. Specifications, Capacity : 96x02,54x0.5,384, Temperature range: 0°C to 99°C (RT <30°C), Stored program no: 100max No fo cycle : 99, Weight 7.2 Kg	1	
25	Infra Red Gas Analyzer with leaf chamber, (LI-6400)	1	
26	Laminar Flow Hood: 3 Feet Vertical, AL-VC-1000, External Size (mm)W1000×D700×H1800, Internal Size (mm) W900×D650×H600, Table Height(mm)750, Clean Class Level100Class 0.3μm(ISO14644-1 International Standard), Rated Air Flow 900m3/h, Air Velocity 0.3-0.6m/sHEPA Efficiency 99.99% 0.3μm above (H13-H14), Vibration Half Peak damping separate countertops (optional),Noise ≤50dB, Material Cabinet: epoxy powder coated steel or stainless steel, Table-board: stainless steel, Illumination ≥300lux ,Noise ≤50dB, Power Supply 220V/50Hz	1	

27	Inverted microscope and fluorescent microscope, Optical System: CFI60 infinity system, parfocal distance 60mm, Main body: Low profile, sturdy main body stand with stage supported on both ends Focusing: Vertical objective movement; Coarse stroke: 37.7mm per rotation, Fine stroke: 0.2mm per rotation Eyepiece Tube: For TS100: Sidentopf-type binocular tube; For TS100F: Sidentopf type trinocular tube (light distribution, bino/photo: 100/0, 0/100) Interpupillary distance: 50-75mm, Eyepoint height: 400mm from table, Inclination: 45° from horizon, Nosepiece: Quintuple nosepiece, backward-facing type	1	
28	Lci-SD photosynthesis measurement system Measurement range and Chamber temperature:Direct leaf temperature: Flow rate to leaf chamber:Gas connections,Plant leaf chamber: 0-2000ppm, 1ppm resolution, Infrared gas analysis, differential open system, auto zero, automatic atmospheric pressure and temperaturecompensation 0-75mbar, 0.1mbar resolution,Two laser trimmed, fast response, water vapour sensors 0-3000µmols m-2 sec-1, Silicon photocell -5oC to 50oC, Precision thermistor +/- 0.2oC, accuracy -5oC to 50oC Self positioning microchip thermistor/Energy, balance/manually positioned thermistor 100 to 500ml min-13mm barbed, 5 minutes @ 20oC, 240 x 64 dot matrix super twist, graphic LCD, Removable SD cards typically store.	1	
29	Leaf area meter LI-3100C single lens provides adjustable resolution of 0.1 or 1mm2 High accuracy and repeatability, and fast, continuous operation for large quantities of samples with individual or cumulative area recorded Large (25 cm wide, 2.5 cm thick with 1 mm2 resolution) or small (<1 cm2 area when using 0.1 mm2 resolution) leaves or other objects, including needles Quiet belt system with adjustable press roller to flatten curled leaves	1	
30	Magnetic Stirrer with Hot Plate, Temperature range up to 370°C, Variable Speed Control upto 1200rpm,Heating Plate Ø: 155mm,Stirring capacity: 15 liter, Power: 630 Watt, with PTFE follower,operated on 220 volts,	5	

31	Microliter plate reader alpha equipment Varioskan™ LUX multimode microplate reader or equivalent	1	
32	Mini centrifuge, Extra Gene Inc. Supplied with rotors for 6 x 1.5/ 2.0 ml tubes 8 x 2 strips for 0.2ml PCR strips , Fixed 6000 rpm / 2000 x g	5	
33	Micro Centrifuge Machine, 200 to 14800 rpm, Sigma Table Top high speed range From 200 to 14800 rpm, maximum RCF 16163, with brushless Motor Drive, Microprocessor controlled Digital Bright Display of Speed or RCF, Pre selection speed or G force,Timer range 10 Sec to 99 minute with short run or continuous run Last run memory 2 acceleration & deceleration curves soft or fast, Motorized Lid Lock, Auto Lid Open,emergency lid lock release,Minimal temperature increase during run, complete with Angle Rotor capacity 24 x 1.5 ml, complete unit operated on 220 Volts	1	
34	Micropipettes single-channel (Rs 90,000/-Each)0.5-10 ul (P10) 2-200 ul (P200)100-1000 ul (P1000) (Gilsons)/ Eppendorf, Gilson Pipetman P Series Single Channel Pipettes , Product Family: P10, P100, P1000,	2	
35	Portable ph meter	5	
36	Pipettes/ Dispensors (all ranges),	1	
37	Pipette 5-50 ml. Filler Fisher	25	
38	Power supply (basic) (for DNA and RNA gel electrophoresis), Power Supply Consort EV200 Series T or equivalent EV222: 200 Volt, 200 mAmp, 20 W for 230Vac mains supply	1	
39	Pressure probe CAsCad Micro tech	1	
40	Rotary shaker 20-50 flasks, Talboys Standard Analog 1000 Orbital Shaker, 120 V.	1	

41	Rotary Evaporator RV 10 digital V 230V IKA 8024100 Clarkson 8024100, Rotary Evaporator RV 10 digital V 230V IKA 8024100. RV 10 digital V,RV 10 digital V–C, RV 10 digital FLEX, 1500 cm2. Dimensions (W x D x H)530x410x430mm, Weight of the drive incl. heating bath: 20kg, without glass parts, Permissible ambient temperature: 5-40C, Permissible relative moisture: 80%, Protection class according to DIN EN 60529:IP20, Voltage / Frequency:220 – 240 V / 50/60 Hz	2	
42	Root Growth Scanner attached with imaging machine (Lab top, Toshiba p4) and colored printer (HP-cp1215) Augur-steel, Glass scanning tubes. Temperature range: 125°C Accuracy: ±5°C, Pressure: 1.2kg / cm2, Timer: 99minutes or infinity Baskets: 2 wire mesh type baskets, Pt 100 sensor, Capacity: 60 Litters Internal material: Powder coated steel, Power: 2300 watts	1	
43	Rotary Evaporator with Chiller	1	
44	Shaking Water Bath,ature range min. 5 °C above ambient up to +95 °C withadditional boiling mode (+100 °C), Capacity 14 Lit., interior dimension 350x290x140mm, shaking speed 10-150 stroke/minute, capacity to holds 6 Flasks of 250mlComplete set	1	
45	Spatula rubber made commercial	6	
46	Spatula Stainless Steel, (150mm Long)	6	
47	Single-plate mini-gel electrophoresis unit, (SCIE-PLAS) U.K. or equivalent Complete System with following accessories Single-plate mini-gel unit with GRM and integral lower buffer chamber, lid, 2 x (10 x 10cm; W x H) plain glass plates 2 x 1mm spacers, 2 x spacer aligners, 2 x (10 x 10cm) notched glass plates and 1 x 1mm thick 12-sample comb Recommended Power Supply (Consort) (Not included) EV243: 400 Volt, 300 mAmps, 50 Watt for 230Vac mains supply	1	

48	Test tube shaker, Item Weight 1.21 pounds Outside Diameter 4.5 mm UNSPSC Code 41103811	1	
49	Tube Mixer (trio) As One Fisher, Fisher Scientific Variable speed 4 to 80rpm ,[ROTATOR VAR SPD 4-80RPM 120V]	1	
50	Ultracentrifuge 30000 rpm	1	
51	Vortex mixer, Vortex mixer Technical Data Motion Orbital. Speed Range (RPM) 0 - 3,000 200 - 3,000. Control Scale. Orbit (mm / inch, Ø) 4 / 0.16. Operating Mode Touch, Continuous, High-continuous Touch, ContinuousMotor Rating Input / Output (W) 12W / 6WMotor BLDC motor. Max. Load (kg / lbs) - incl. attachment 0.5 / 1.1. General Data Material Body Polypropylene. Platform Silicone rubberDimension (mm / inch, W×D×H)* 154×210×83 / 6.1×8.3×3.3 148×159×77 / 5.8×7.4×3Net Weight (kg / lbs) 3.1 / 6.8 2.6 / 5.7Electrical Requirements AC 100V ~ 240V, 50 / 60HzSafety Device Self-resetting / Current limit protection Current limit protectionProtection Class (DIN EN 60529) IP	1	
52	Vacutainer lab ware, BD 367844 Fisher Scientific, Needle length: 127mm (5 in., Needle gauge: 17 G, Self-life: 1825 days	1	
53	Water purification system, Integral Water Purification System. Certifications/Compliance ISO 9001 v.2000, ISO 14001 Contaminant Rejection (Microbiological) <1cfu/mL (with Millipak or Biopak point-of-use filters), Contaminant Rejection (Organic) <5ppb Contaminant Rejection (Particulate) <1 (particulates >0.22µm with Millipak or Biopak point-of-use filters), Endotoxin Concentration Less than0.001EU/mL (pyrogen-free)	1	
54	Water distillation Capacity; 4 Liter per hour	1	
55	Sliding microtome mx, HM 450 Sliding Microtome.	1	

56	Quartz cuvettes (Pair)	2	
57	Water deionization plant 200lph Small water treatment plant deionized water treatment machines sea water desalination plant Shimadzu	1	
	TOTAL AMOUNT:		

LOT # 02. CHEMISTRY LAB EQUIPMENT			
1	Electronic Analytical Balance Digital Microprocessor Controlled with Latest UniBlock Technology, UniBlock designs replaces 70 parts of Electromagnetic balances and ensures stable results. **Technical Specification**: Weighting Capacity: 220gm Minimum display: 0.1mg Pan size (mm): Ø91 approx. Extra Feature: Overload Protection & Internal Calibration	10	
2	Sonicator SWB12D or equivalent	4	
3	Autoclave Digital Microprocessor Controlled Vertical Unit Temperature Range 105 to 135º C Interior Chamber Stainless steel, capacity 50 Lit interior chamber dimension 300x710 D mm, with Built in Timer 1 to 250 Minutes and Pressure Gauge 0 to 0.4 mpa, Selected Modes for Liquid and Solids and Agar Process, Complete with stainless Steel Baskets operated on 220 Volts with following **Features: -** Electromechanical Lock System. Dual Sensing Interlock mechanism. Pulse Sensing System for Air Exhaust. Programmable Autostart e. Process Status Display, Over Pressure Cutoff. Over Temperature Cutoff. Pressure Safety valve.	1	
4	Biological Safety Cabinet Class II Type A2 or equivalent	1	

	Technical Specifications: Nominal Size 4 FeetUsable Work area 0.762 m2Internal Dimensions (W x D x H) 1270*600*620 mmExternal Dimensions (W x D x H) 1500*790*2050 mmAirflowType: Top ExhaustAverage Inflow Velocity 0.55m/sAverage Downflow Velocity 0.35m/sCabinet ConstructionWork Zone Stainless Steel SUS304Main Body Electro-galvanized steel withwhite oven-baked powder-coated finishSash Glass Thickness 5mmSash Glass Type Tempered Glass, Ultraviolet-proofSash working opening 200mm / 8 inchSash window max opening 460mm / 18 inch		
5	**Pharmaceutical Refrigerators/Freezers Energy-saving storage solutions for uniformity and reliability with dual temperature zones.Refrigerator Specifications** Internal dimensions: (WxDxH) 720 x 495 x 1425mmEffective capacity: 340 Lit.Temp. Range: +2°C to +14°C.External Material : Galvanised steel with baked on finishInternal material : Stainless steelInsulation : Rigid polyurethane foamed in placeCooling method : Fan-forced air circulationAlarm & safety : High/low temperature alarm, Door ajar alarm,Memory back-up during power failure,Self-diagnostics, Shelves : Large: 2, Small: 3**Freezer Specifications**Internal dimensions : (WxDxH) 317 x 440 x 586mmVolume interior : 82 Lit.Temp. range : -20°C to -30°CInternal material : Colored aluminum plateCooling method : Direct coolingShelves : 1	1	
6	**Magnetic Stirrer with Hot Plate** Temperature range: up to 370°C, Variable Speed Control: upto 1500rpm, Heating Plate Ø: 155mm, Stirring capacity: 15 liter Power: 630 Watt, with PTFE follower, operated on 220 volts	10	
7	Microwave oven	2	

8	Double Beam Spectrophotometer `	1	
9	**UV Lamp** with Shock Resistant Housing Two Wavelengths, High intensity 8 watt lamps 254/366nm wavelength, The Lamp is equipped with a timer that automatically turns off after 10 minutes reduces the risk of exposure to radiation, It shields off extraneous light on three sides. operated on 220 Volts,	5	
10	**Melting Point Apparatus** **Technical Specification:** Number of samples 2Temperature range Ambient to 300°CTemperature accuracy ± 1.0°C at 20°C± 2.5°C at 300°CDisplay Three digit LEDTemperature resolution 1°CSensor Platinum resistance PT100Ramp rates 20°C per minute to plateau20°C per minute to meltDimensions (w x d x h) 160 x 220 x 170 mmNet weight 1.8 kgElectrical supply 230V, 50Hz, 75WComplete unit with pack of 100 melting point tubes, closed at both ends	1	
11	**Vortex Mixer** **V**ibrating motion continuously analog dial speed control Electronic speed regulation 0 – 3000 rpm Vibration orbit 4.5 mm, operating mode: touch, continuous , high stability, Operated on 220 Volts,	2	
12	**Distillation Apparatus** all glass Borosilicate Glass fitted with metal element 3 KW capacity 4 Liter per hour, conductivity 4 µs/cm, PH 5.5 to 6.5	3	

13	**Graphite Furnace ELF11/14B, GFA-7000 230V or equivalent with Instruction Manual**T he XSB box furnaces have a hinged vertical lift door that keeps the hot door insulation always facing away from the operator. A door safety switch interrupts power to the heating elements when the door is opened. **Technical Data:Max Temp (°C) 1200Heat Zones: 1Chamber Volume: 5Internal Dimensions HxWxD: 6 x6x9 in. (152x152x228) mmExternal Dimensions HxWxD: 22x18x26 in. (558x457x660) mmMax Power 2700 wattsThermo Couple Type K**	1	
14	**Conductivity Meter Bench Top** Digital Bench Top Microprocessor Controlled with parallel temperature indication, Conductivity Range 0.0 us/cm to 1000 ms/cm, Accuracy 0.5%, Temperature Range -5.0 to +105.0°C, Salinity 0.0-70.0, TDS 0-1999 mg/l, Reference Temperature 20 or 25°C Selectable with following accessories. a) Conductivity Electrode with built in Temperature Sensor b) Electrode Stand with Basec) Standard solution 50 ml	1	
15	**Digital Polarimeter** **Specifications** Angular (°A) ISS (°Z)Range -355 to +355 –225 to +225Resolution 0.01/0.001 (selectable)Accuracy ± 0.010 ± 0.030 User Scales & Methods Library PHR-MEAN statistical, Specific Rotation, Concentration, Inversion (A-B), Invert Sugar and User DefinedReading Time: Continuous measurement and display or single shotL (selectable)Tube Length: 10 to 200mmBeam Diameter: 4mm Optical Density: 0.0 to 3.0 ODMeasuring Range: 5-40 °CSensor Accuracy: ± 0.1 °CCompensation: None, ICUMSA, Quartz or User DefinedInstrument Housing: Polyurethane foam with aluminum base Interfaces: 1 x USB (A), 1 x USB (B), 1 x EthernetOperated on 220Volts Complete 200mm Tube,	1	
16	**Magnetic Stirrer with Hot Plate** Temperature range: up to 370°C, Variable Speed Control: upto 1500rpm Heating Plate Ø: 155mm, Stirring capacity: 15 liter Power: 630 Watt, with PTFE follower,	10	

17	**Fume Hood with built in Gas & Water Valves** **s**pecifications: External Dimension (L x H x D mm): 1200 x 873 x 1500Working Zone (L x H x D mm): 1120 x 682 x 1435Max. Sash Opening: 580mmExhaust volume / Static pressure required face velocity of 0.5 m/s or 100 fpm at full-open 1210cmh / 712 cfm Exhaust Outlet Diameter: 250 mmLight Intensity at Work Surface: 780 Lux / 72 foot candle Construction: Main body: Phenolic resin laminates Support frame: Aluminum extrusions with an oven-baked epoxy powder coated finish. Interior baffle system: Phenolic resin laminates Airfoil: Stainless steel grade 304Electric Outlets: 2 (Total 5 Amp) with splash proof coverswith base storage cabinet which should have adjustable shelve and door lock Standards: ANSI/ASHRAE 110-1995 BS 2874 / DIN Standard 12920 / DIN12898Complete unit with Base storage cabinet	5	
18	Sieve Shaker (Digital Display) **Specifications:**W x H x D: 418 x 232 x 435 mmRange: 60 µm to 300umDrive / sieving motion: Electromagnetic 3DMax. Batch / feed capacity: 3 kgMax. Number of sieves: 8 full height / 16 half height (200 mm sieves)Amplitude: 0 - 3 mm digital setting in 10 stepsSpeed: 3,000 min-1 at 50 HzTime display: Digital, 0:10-99:59 minInterval operation: Yes (one mode)Suitable for dry sieving: YesSuitable for wet sieving: YesSieve diameter: 200 mm 8"Max. height of sieve stack: up to 450 mmClamping device: Quick-release clamping system (included)	10	

19	**Heating Mantle** • Bi-directional stirring speeds up to 520rpm • Stir bar ―auto-recapture‖ function • Cool-to-the-touch design • Element temperature 450ºC • Built-in energy regulator • Replaceable insulated heater cartridge • Indicator lamps for power and heater operation • A chemically resistant plastic outer casing • A grounded earth screen and double fuses for added safety	10	
20	**Hot plates 1000 W** Ceramic Top plate, extremely resistant to corrosion dimension (mm) 155mm, ceramic coated, Temperature range up to 370°C, Stirring volume up to 20 Lit Electronic speed regulation up to 1500 rpm Control knob for stirrer and digital temperature, operated on 220 Volts, 800W,	2	
21	Elemental Analyzer vario MICRO cube for simultaneous CHNS Analysis with options for O and Cl analysis	1	
22	Electronic balance digital top loading with Uni-block technology, One single block non-breakable, this brings various advantages fast Response, high stability, long life operation, Readability: 0.001gm Capacity: 320gm Glass case with sliding door wind break RS 232C Data interface, overload protection, windows direct function, No software required, pan 110mm, operated on 220 volts	10	
TOTAL AMOUNT:			

LOT # 03. ZOOLOGY LAB EQUIPMENT			
1	Hot plates 1000 W Digital Display, Power Supply :AC 220V/110V 50Hz/60Hz, Temperature Control Range, Working Area and size: L20 W30cmH12cm, Heating Power: 1000W	1	
2	**Blood pressure instrument** Automatic Digital Blood Pressure Monitor with Intelligence Technology for accurate measurement, Arm Circumference (22-32Cm)	3	
3	**Balance for weighing organs** Electric power source, 4 digit Digital Display, Voltage 220V.	10	

	Covered with glass slides		
4	**pH Meter** Bench top, Measuring Range :(0.00-14.00) pH, (0 to 1999)mV, Resolution: 0.01pH. 1mV, Measuring Accuracy ±0.05pH1%F-S, Temperature Compensation: 0-60°C, Stability ± 0.01pH/12h, Ambient Temperature: 5-45°C	2	
5	Animals preserved for long time period in Glass heavy jars with compact lid. Most common Specimens of All phylums of animals.	200	
6	Compactly made flexible plastic skeletons. Medium in size, Preferably labeled. Skeleton of specimens of different groups , Amphibians(Frog and Toad), Reptiles (lizards and Snake), Birds(Pigeon and Hen), Mammals(Human skeleton)	9	
TOTAL AMOUNT:			

LOT # 04. PHYSICS LAB EQUIPMENT			
	Modern Physics		
1	Determining Planck's constant - Selection of wavelengths using interference filters on the optical bench	1	
2	Photocell for determining h	1	
3	Holder for photocell	1	
4	Optical bench, standard cross section 0.5 m	1	
5	Optics rider 90/50	2	
6	Optics rider 120/50	3	
7	Filter wheel with iris diaphragm	1	
8	Interference filter, 578 nm	1	
9	Interference filter, 546 nm	1	
10	Interference filter, 436 nm	1	
11	Interference filter, 405 nm	1	
12	Lens in frame, f = +100 mm	1	
13	Iris diaphragm	1	
14	High pressure mercury lamp	1	

15	Power Supply unit for Mercury Lamp	1	
16	Electrometer amplifier	1	
17	Plug-in power supply 12 V AC	1	
18	Capacitor 100 pF, STE 2/19	1	
19	Key switch (NO), STE 2/19	1	
20	Clamping plug	2	
21	Analog Multimeter	1	
22	BNC straight	1	
23	Adapter BNC/4 mm, single pole	1	
24	Coupling plug, 4 mm, set of 5	1	
25	Distribution box	1	
26	Connecting lead 19 A, 50 cm, red/blue, pair	1	
27	Connecting lead 19 A, 100 cm, yellow/green	2	
28	Franck-Hertz experiment with mercury - Recording and evaluation with Computer Interface (Set)	1	
29	Hg Franck-Hertz tube	1	
30	Socket for Hg Franck-Hertz tube, with DIN connector	1	
31	Electric oven for 230 V	1	
32	Franck-Hertz operating device	1	
33	Temperature probe NiCr-Ni, 1.5 mm	1	
34	Computer Interface Sensor	1	
35	Connecting lead 19 A, 100 cm, red/blue, pair	2	
36	Determining Planck’s constant - Measuring in a compact assembly (Set)	1	
37	Photocell for determining h	1	
38	Compact arrangement for determining Planck's constant	1	

39	High pressure mercury lamp	1	
40	Power Supply unit for Mercury Lamp	1	
41	Electrometer amplifier	1	
42	Plug-in power supply 12 V AC	1	
43	Capacitor 100 pF, STE 2/19	1	
44	Key switch (NO), STE 2/19	1	
45	Clamping plug	2	
46	Analog Multimeter	1	
47	Screened cable BNC/4 mm plug	1	
48	Distribution box	1	
49	Connecting lead 19 A, 25 cm, black	1	
50	Connecting lead 19 A, 50 cm, red/blue, pair	1	
51	Connecting lead 19 A, 100 cm, black, pair	1	
52	Connecting lead 19 A, 100 cm, yellow/green	1	
53	Millikan experiment (Set)	1	
54	Determining the electric unit charge after Millikan and verifying the charge quantification - Measuring the suspension voltage and the falling speed	1	
55	Determining the electric unit charge after Millikan and verifying the charge quantification - Measuring the rising and falling speed	1	
56	Millikan apparatus	1	
57	Millikan supply unit	1	
58	Electronic time clock	2	
59	Connecting lead 19 A, 100 cm, red/blue, pair	4	
60	Recording the characteristic of a Geiger-Müller (end-window) counter tube (Set)	1	
61	End-window counter with cable for alpha, beta, gamma and X-rays	1	

62	Ra 226 preparation, 5 kBq	1	
63	Digital counter	1	
64	Insulated stand rod, 25 cm	1	
65	Large clip plug	1	
66	Connecting rod	1	
67	Saddle Base	2	
68	Determining the half-life of Cs-137 - Recording and evaluating the decay curve with Computer Interface (Set)	1	
69	Cs/Ba 137 m isotope generator	1	
70	Computer Interface Sensor	1	
71	Geiger-Müller counter tube S	1	
72	Stand base V-shape, small	1	
73	Stand rod 47 cm, 12 mm Ø	1	
74	Multiclamp	2	
75	Universal clamp 0...80 mm	2	
76	Set of 10 test tubes, 160 x 16 mm Ø	1	
77	Beaker DURAN, 250 ml, squat	1	
78	Detremination of charge to mass ratio of electron by fine beam tube method	5	
79	Study of Hall effect in a Semiconductor Wafer with built in Tesla meter	5	
	Electronics		
1	Digital Logic Trainer K & H Taiwan	12	

2	Digital Logic Trainier should a comprehensive and self-contained system, should suitable for anyone engaged in digital logic experiments. All the necessary equipment for digital logic experiments such as power supply, signal generator, switches and displays should install on the main unit. The modules should cover large variety of essential topics for digital logic	1	
3	Basic Logic Gates Experiments	1	
4	- Logic Gates Circuits	1	
5	a. Diode Logic (CL) Circuit	1	
6	b. Resistor-Transistor Logic (RTL) Circuit	1	
7	c. Diode-Transistor Logic (DTL) Circuit	1	
8	d. Transistor-Transistor Logic (TTL) Circuit	1	
9	e. COMS Logic Circuit	1	
10	- Threshold Voltage Measurement	1	
11	a. TTL Threshold Voltage Measurement	1	
12	b. CMOS Threshold Voltage Measurement	1	
13	- Voltage/Circuit Measurement	1	
14	a. TTL/IO Voltage/Current Measurement	1	
15	b. CMOS Voltage/Current Measurement	1	
16	- Basic Logic Gate Delay Transmission Delay Measurement	1	
17	a. AND Gate Characteristics Measurement	1	
18	b. OR Gate Characteristics Measurement	1	
19	- Measurement of Basic Logic Gates Characteristics	1	
20	a. AND Gate Characteristics Measurement	1	
21	b. OR Gate Characteristics Measurement	1	
22	c. INVERTER Gate Characteristics Measurement	1	
23	d. NAND Gate Characteristics Measurement	1	

24	e. NOR Gate Characteristics Measurement	1	
25	f. XOR Gate Characteristics	1	
26	- Measurement Interface Between Logic Gates	1	
27	a. TTL to COMS interface	1	
28	b. CMOS TTL interface	1	
29	Combinational Logic Circuit Experiments	1	
30	- NOR Gate Circuit	1	
31	- NAND Gate Circuit	1	
32	- XOR Gate Circuit	1	
33	a. Constructing XOR Gate with NAND Gate	1	
34	b. Constructing XOR Gate with Basic Gate	1	
35	AND-OR-INVERT (AOI) Gate Circuit	1	
36	- Comparator Circuit	1	
37	a. Comparator Constructed with Basic Logic Gates	1	
38	b. Comparator Constructed with TTL IC Schmitt Gate Circuit	1	
39	- Open-Collector Gate Circuits	1	
40	a. High Voltage/ CIRCUITS	1	
41	b. Constructing an AND Gate with Open-Collector Gate	1	
42	- Tristate Gate Circuits	1	
43	a. Truth Table Measurement	1	
44	b. Constructing an AND Gate with Open-Collector Gate	1	
45	c. Bidirectional Transmission Circuit	1	
46	- Half-Adder and Full-Adder Circuits	1	
47	a. Constructing HA with Basic Logic Gates	1	
48	b. Full Adder Circuit	1	
49	c. High-Speed Adder Carry Generator Circuit	1	

50	d. BCD Code Adder Circuit	1	
51	- Half-Subtractor and Full-Subtractor Circuit	1	
52	a. Subtractor Circuit Constructed with Basic Logic Gates	1	
53	b. Full Adder and Inverter Circuit	1	
54	- Airthmetic Logic Unit (ALU) Circuit	1	
55	- Bit Parity Generator Circuit	1	
56	a. Bit Parity Generator Constructed with XOR Gates	1	
57	b. Bit Parity Generator IC	1	
58	- Encoder Circuit	1	
59	a. Constructing a 4-to-2 Encoder with Basic Gates	1	
60	b. Constructing a 10-to-4 Encoder with TTL IC	1	
61	- Decoder Circuit	1	
62	a. Constructing a 2-to-4 Decoder with Basic Gates	1	
63	b. Constructing a 4-to-10 Decoder with TTL IC	1	
64	- Multiplexer Circuit	1	
65	a. Constructing a 2-to-1 Multiplexer	1	
66	b. Using Multiplexers to Create Functions	1	
67	c. Constructing a 8-to-1 Multiplexer with TTL IC	1	
68	- Demultiplexer Circuit	1	
69	a. Constructing a 2-output Demultiplexer	1	
70	b. Constructing a 8-output Demultiplexer	1	
71	- Digitally Controlled Analog Multiplexer/Demultiplexer Circuit	1	
72	a. analog Switch Characteristics	1	
73	b. Bidirectional Transmission with CMOS IC Analog Switches	1	
74	Clock Generator Circuit Experiments	1	
75	- Constructing Oscillator Circuit with Basic Logic Gates	1	

76	- Constructing Oscillator Circuit with Schmitt Gate	1	
77	- Voltage Controlled Oscillator (VCO) Circuit	1	
78	- 555 IC Oscillator Circuit	1	
79	a. 555 Oscillator Circuit	1	
80	b. VCO Circuit	1	
81	- Monstable Multivibrator Circuits	1	
82	a. Low-Speed Monostable Multivibrator Circuits	1	
83	b. High-Speed Monostable Multivibrator Circuits	1	
84	c. Constructing Monostable Multivibrator Circuits	1	
85	d. Constructing Non-Retriggerable Circuit with TTL-IC	1	
86	e. Constructing Retriggerable Circuit with TTL-IC	1	
87	f. Donstructing a Variable Duty Cycle Oscillator Circuit with	1	
88	Sequential Logic Circuit Experiments	1	
89	- Flip-Flop Circuits	1	
90	a. Constructing a R-S Flip-Flop with a Basic Logic Gates	1	
91	b. Constructing a D Flip-Flop with a R-S Flip-Flop	1	
92	c. Constructing a T Flip-Flop with a D Flip-Flop	1	
93	d. Constructing a J-K Flip-Flop with a R-S Flip-Flop	1	
94	e. Constructing a Shift Register with a d Flip-Flop	1	
95	f. Preset Left/Right Shift Register	1	
96	g. Constructing a Noise Elimination Circuit with R-S Flip-Flop J-K Flip-Flop Circuits	1	
97	a. Asynchronous Binary Up-Counter	1	
98	b. Asynchronous Decade Up-Counter	1	
99	c. Asynchronous divide-by-N Up-Counter	1	
100	d. Asynchronous Binary Down-Counter	1	

101	e. Synchronous Binary Up-Counter	1	
102	f. Synchronous Binary Up/Down Counter	1	
103	g. Presetable Synchronous Decimal Up/Down Counter	1	
104	h. Presetable Synchronous Decimal Up/Down Counter	1	
105	i. Ring Counter	1	
106	j. Johnson's Counter	1	
107	Memory Circuit Experiments	1	
108	- Constructing READ ONLY MEMORY (ROM) with Diodes	1	
109	- Constructing RANDOM ACCESS MEMORY (RAM) with D Flip-Flop	1	
110	- 64-bit RAM Circuit	1	
111	- ERASABLE PROGRAMMABLE READ ONLY MEMORY (EPROM) CIRUIT	1	
112	- Electronic EPROM (EEPROM) Circuit	1	
113	- Constructing Dynamic Scanning Counter with Single-chip Microprocessor	1	
114	Converter Circuit Experiment	1	
115	- Digital/Analog Converter (DAC) Circuit	1	
116	a. Unipolar DAC Circuit	1	
117	b. Bipolar DAC Circuit	1	
118	- Analog/Digital Converter Circuit (ADC) Circuit	1	
119	a. 8-bit Converter Circuit	1	
120	b. 3 ½-digit Converter Circuit	1	
121	Electronics Components, Microcontrollers, Programable Ics etc	1	
122	Pulse Generator (Generating Pulses of Variable duty cycle) Escort Taiwan or equilent	4	
123	Two Channel Osciloscope Digital Storage type 20 MHz	10	

124	Four Channel Osciloscope	4	
125	Sine Square Wave Signal Generator with Digitan Frequency Readout/Frequency Display	10	
126	Analog Multimeter MF 47	20	
127	Soldering Station	8	
128	Digital Multimeter Uni-T (33)	20	
129	Power Supplies Study Module	20	
130	Function Generator (1Hz to 2MHz Sine Square triangular wave)	6	
131	Optics and Spectroscopy	1	
132	Determination of Cauchy's Constant by spectrometer and diffraction grating	2	
133	Michelson interferometer (with laser) (Set	1	
134	Setting up a Michelson interferometer on the laser optics base plate	1	
135	Determining the wavelength of the light of an He-Ne laser using a Michelson interferometer	1	
136	Base plate for laser optics	1	
137	He-Ne-Laser, linear polarized	1	
138	Laser mount	1	
139	Optics base	5	
140	Beam divider 50 %	1	
141	Holder for beam divider	1	
142	Planar mirror with fine adjustment	2	
143	Spherical lens f = 2.7 mm	1	
144	Fine adjustment drive	1	
145	Screen, translucent	1	
146	Saddle Base	1	

147	Metal rule, l = 1 m	1	
148	Detrmination of velocity of light in air by pulsed laser method (Set)	2	
149	Diffraction at a single slit - Recording and evaluating with Video Camera (Set).	1	
150	Diffraction at a double slit and multiple slits - Recording and evaluating with Video Camera	1	
151	Diffraction at a half-plane - Recording and evaluating with Video Camera	1	
152	Adjustable slit	1	
153	Diaphragm with 3 double slits	1	
154	Diaphragm with 4 double slits	1	
155	Diaphragm with 5 multiple slits	1	
156	Holder with spring clips	1	
157	He-Ne-Laser, linear polarized	1	
158	Polarization filter	1	
159	High Resolution CCD Camera USB	1	
160	Lens in frame f = +5 mm	1	
161	Lens in frame f = +50 mm	1	
162	Lens in frame f = +500 mm	1	
163	Optical bench, standard cross section 1 m (Vertical + Horizontal Position)	1	
164	Optics rider 60/50	7	
165	Software	1	
166	To verify malu's Law of polarisation (Set)	4	
167	Determination of wavelength of light by Newton's rings method (Set)	4	
168	To determin the distance between two points by using a sextant (Set)	4	
169	To determine the charge (e/m) of electron by fine beam tube method	4	

170	Plank's Constant By Photoelectric Method	4	
171	To determine the specific rotation of dextrose by half shade polari meter	4	
172	HEAT, WAVE, OSCILLATION & SOUND	1	
173	Thermal conductivity by searle's method (Set)	5	
174	Solar collector (Set)	5	
175	Determining the efficiency of a solar flat plate collector use as continuous flow calorie meter (Set)	1	
176	Thermal conductivity of bad conductors by lee's methods (Set)	5	
177	Gas laws (Set)	5	
178	Pressure-dependency of the volume of a gas at a constant temperature (Boyle-Mariotte's law)	1	
179	Temperature-dependency of the volume of a gas at a constant pressure (Gay-Lussac's law)	1	
180	Temperature-dependency of the pressure of a gas at a constant volume (Amontons' law)	1	
181	Determine Cp/Cv by Clement and de Sorme's Method (Set)	5	
182	Determine the velocity of sound by Kundt's tube method (Set)	1	
183	Specific Latent heat of vaporization of water by electrical method (Set)	5	
184	Determining the specific latent heat of ice (Set)	5	
185	Study the veriation of electrical resistance of a conductor with temperature (Set)	5	
186	Determining the volumetric expansion coefficient of liquids (Set)	20	
187	Determining the specific heat of solids by block calorie meter method (Set)	5	
188	Determining the oscillation frequency of a string as a function of the string length and tension (5MHz) verify laws of vibration of string by electrical method (Set)	5	
189	Verification of Stefan's Law (Set)	5	

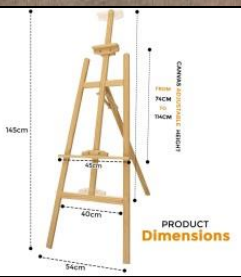
190	Study the variation thermo emf with temperature (Set)	5	
Electricity and Magnetism			
1	Measuring current and voltage at resistors connected in parallel and in series (Set)	4	
2	Determining the capacitance of a plate capacitor - Measuring the charge with the I-measuring amplifier D (Set)	4	
3	Determining resistances using a Wheatstone bridge (Set)	4	
4	Measuring the force acting on current-carrying conductors in the field of a horseshoe magnet (Set)	4	
5	Basic measurements for the electrodynamic definition of the ampere	1	
6	Recording the initial magnetization curve and the hysteresis curve of a ferromagnet (Set)	4	
7	Gas discharge at reduced pressure (Set)	4	
8	Investigating spontaneous gas discharge in air as a function of pressure	1	
9	MECHANICS & FLUIDS Lab	1	
10	Simple and compound pendulum (Set)	5	
11	Determining the gravitational acceleration with a simple pendulum	1	
12	Determining the acceleration of gravity with a reversible pendulum	1	
13	Ball with pendulum suspension	5	
14	Reversible pendulum	5	
15	Stopclock	5	
16	Steel tape measure, l = 2 m/78"	5	
17	Harmonic oscillations (Set)	5	

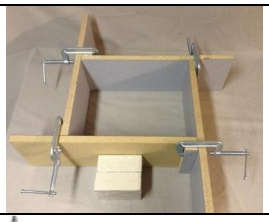
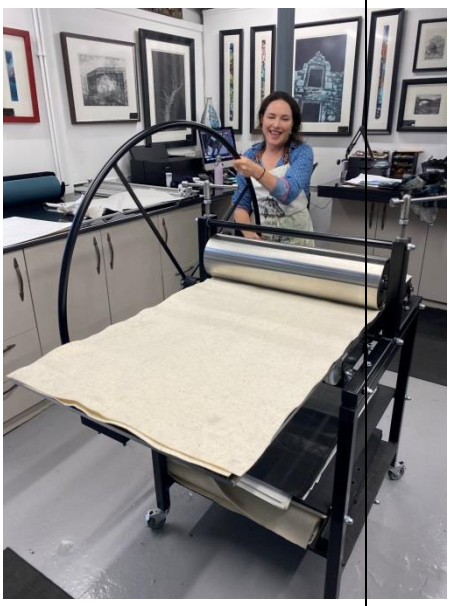
18	Oscillations of a spring pendulum - Recording the path, velocity and acceleration	1	
19	Determining the oscillation period of a spring pendulum as a function of the oscillating mass	1	
20	Helical spring 3 N/m	5	
21	Weights, each 50 g, set of 12	5	
22	Holding magnet with clamp	5	
23	Combination light barrier	5	
24	Combination spoked wheel	5	
25	Timer	5	
26	Stand base V-shape, large	5	
27	Stand rod 25 cm, 12 mm Ø	5	
28	Stand rod 150 cm, 12 mm Ø	5	
29	Multiclamp	10	
30	Clamp with hook	5	
31	Fishing line, 10 m, set of 2	5	
32	Definition of pressure (Set)	5	
33	Gas syringes with holder, set of 2	5	
34	Slotted weight 100 g	30	
35	Stand base V-shape, small	5	
36	Stand rod 47 cm, 12 mm Ø	5	
37	Hydrostatic pressure as a non-directional quantity (Set)	5	
38	Steel tape measure, l = 2 m/78"	5	
39	Liquid pressure gauge with U-tube manometer	5	
40	Glass vessel for liquid pressure gauge	5	
41	Measuring the surface tension using the "break-away" method (Set)	5	

42	Surface tension, determination device	5	
43	Crystallization dish, 95 mm Ø	5	
44	Precision dynamometer, 0.1 N	5	
45	Vernier callipers	5	
46	Laboratory stand II, 16 x 13 cm	5	
47	Stand base V-shape, small	5	
48	Stand rod 75 cm, 12 mm Ø	5	
49	Clamp with hook	5	
50	Ethanol, denaturated, 250 ml	5	
51	Water, pure, 1 l	5	
52	Falling-ball viscosimeter: measuring the viscosity of sugar solutions as a function of the concentration (Set)	5	
53	Falling-ball viscosimeter: measuring the viscosity of Newtonian liquids as a function of the termperature	1	
54	Falling ball viscosimeter	5	
55	Stopclock	5	
56	Circulation thermostat	5	
57	Silicone tubing, 7 mm Ø	10	
58	Water, pure, 5 l	10	
59	Bouyancy (Set)	5	
60	Confirming Archimedes’ principle	1	
61	Measuring the buoyancy as a function of the immersion depth	1	
62	Archimedes' cylinder	5	
63	Hydrostatic precision balance	5	
64	Precision dynamometer, 1.0 N	5	
65	Set of weights 10 mg to 200 g	5	

66	Beaker DURAN, 100 ml, tall	5	
67	Beaker DURAN, 250 ml, tall	5	
68	Steel tape measure, l = 2 m/78"	5	
69	Glycerine, 99%, 250 ml	5	
70	Ethanol, denaturated, 1 l	5	
71	Introductory experiments on aerodynamics (Set)	5	
72	Static pressure in a reduced cross-section - Measuring the pressure with the precision manometer	1	
73	Determining the volume flow with a Venturi tube - Measuring the pressure with the precision manometer	1	
74	Determining the wind speed with a pressure head sensor - Measuring the pressure with the precision manometer	1	
75	Static pressure in a reduced cross-section - Measuring the pressure with a pressure sensor and Mobile-interface	1	
76	Determining the volume flow with a Venturi tube - Measuring the pressure with a pressure sensor and Mobile-interface	1	
77	Determining the wind speed with a pressure head sensor - Measuring the pressure with a pressure sensor and Mobile-interface	1	
78	Suction and pressure fan	5	
79	Venturi tube with Multimanoscope	5	
80	Pressure head after Prandtl	5	
81	Precision manometer	5	
82	Pressure sensor S, ± 70 hPa	5	
83	Stand base V-shape, small	10	
84	Stand rod 25 cm, 12 mm Ø	10	
85	Stand rod 47 cm, 12 mm Ø	5	
86	Multiclamp	10	
87	Measuring air resistance (Set)	5	

88	Measuring the air resistance as a function of the wind speed - Measuring the pressure with the precision manometer	1	
89	Drag coefficient cW: relationship between air resistance and body shape - Measuring the pressure with the precision manometer	1	
90	Pressure curve on an airfoil profile - Measuring the pressure with the precision manometer	1	
91	Measuring the air resistance as a function of the wind speed - Measuring the pressure with a pressure sensor and Mobile-interface	1	
92	Drag coefficient cW: relationship between air resistance and body shape - Measuring the pressure with a pressure sensor and Mobile-Interface	1	
93	Pressure curve on an airfoil profile - Measuring the pressure with a pressure sensor and Mobile-Interface	1	
94	Suction and pressure fan	5	
95	Aerodynamics working section	5	
96	Aerodynamics accessories	5	
97	Measurement trolley for wind tunnel	5	
98	Sector dynamometer 0.65 N	5	
99	Pressure head after Prandtl	5	
100	Aerofoil with lateral sheets	5	
101	Precision manometer	5	
102	Pressure sensor S, ± 70 hPa	5	
103	Stand base V-shape, small	10	
104	Saddle Base	10	
105	Stand rod 47 cm, 12 mm Ø	5	
106	Multiclamp	5	
	TOTAL AMOUNT:		

LOT # 05. FINE ARTS EQUIPMENT				
Sr. #	**NAME OF ITEMS /SPECIFICATION**	**QTY**	**Sample Picture**	**UNIT PRICE WITH TAX**
1	Students tables Drawing Table with sloped top and half shelf 24'' X 26'' x 31''(at front) 36''(back)	50		
2	Easels Size : 57'' Height 22''Width Material: Cedar Wood	50		
3	Donkey easel Size: Base Width 29″ (74 cm), Base Depth 13.5” (34 cm), Bench Height 17.25” (44 cm) Materials: oak wood	50		
4	Students locker Size: 48'' (Height) 72'' (width) 24'' (Depth) Material: Steel, metal With single shelf (one partition) in each panel of locker.	20		
5	Armature Head and Bust Armature Life size – 24'' Wooden frame with wire	20		
6	Tubs Material: Thick Plastic Capacity: 45 liters.	4		
7	Sieves Size 24'' X 24''	20		

8	Water sink and water pipe 2Water sink & water pipe (20meters) Big double stainless steel sink kitchen washing basin	4		
9	Wooden molds for relief work 5sets of Wooden mold for relief work 4 wooden panel with angle bracket on end panel size 20” feet length and 7” inch width	10		
10	Tool kit for clay sculpture set of tools	20		
11	Tool kit for wood work Tool kit for wood work Hand chisel Wood working set of 8-12 pieces Chisel Knifes Assorted steel blades with wooden handles	20		
12	Printing press machine Bench Top Press (stand info below) with Star Wheel 1 x 80% unwoven wool Blanket and a set of 2 x 4mm thick Runners included so you are ready to print. Stand Option Stand with lockable wheels & shelf Extra shelf on either stand. Upgrade to –Aluminum Bed 10mm thick Aluminum Bed Optional Extra – Registration Bed 2mm Thick Registration Plate Optional Extra – Round Wheel Small Round Wheel 36 inches / 91.5cm Diameter Large Round Wheel 48 inches / 123cm Diameter Optional Extra – Blanket Options x 1 Printing Blanket (included) 80% Unwoven wool Pressed Felt A set of 2 x 2mm thick Unwoven wool Printing Blankets A set of 2 Swanskin Printing Blankets 1.5mm thick	1		

13	Printing tool kit Tool sets of intaglio, linocut, woodcut	10		
14	Rugs and cushions rugs 6 by 8 feet 12 cushions(floor cushions and gaaoo takiya)	50		
15	I-MAC Apple Silicon iMac Measurements of the 24-inch iMac: • Weight: 9.83 pounds • Width: 21.5-inches • Height: 18.1-inches • 11.5mm thin	10		
16	Color Printer (Heavy Duty) Model: HP Color LaserJet Pro MFP M283cdw HP Color LaserJet Pro MFP M283cdw; HP LaserJet Black Introductory toner cartridge (~800 page yield); HP LaserJet Cyan Introductory toner cartridge; HP LaserJet Magenta Introductory toner cartridge; HP LaserJet Yellow Introductory toner cartridge (~700 color composite C/Y/M page yield); Installation guide; Power cord; USB cable; Phone Cord; 30-sheets HP LaserJet Brochure Paper	2		
17	Multimedia with display screen 18*24	1		
18	Cupboards (steel)	15		
19	Washing line (20METERS)	100		
20	Pegs (Packets)	10		
21	Felt cloth	5		
22	Stove Simple electric gas stove with double burner on it. Key Features,Double burner, Steel body,Auto ignition • Cast iron burner, Durable • Stylish Yet Trustable.	5		

23	Marble slab Size 2.5/5 feet	10		
24	Hammer and nails	20		
25	Folding screen RHF 6 ft. Tall-Extra Wide-Diamond Weave Fiber Room Divider,Double Hinged,6 Panel Room Divider/Screen, Product Code : S01RLBE10L.Product weight : 19.95 Pounds • Category : Furniture	20		
26	Potters wheel Wheel head size:275 mm Cast Aluminum Motor: ¼ HP, 200W, Sigle-Phase RPM Range: 0 – 200 rpm Voltage: AC 110/220 V Ampere: 3A Weight: 17 kg Centering Capacity: 40kg Speed Control: Fixed pedal and hand liver control Direction of wheel head: Clock Wise and Counter Clock Wise Overall dimensions: 450 * 540 * 420 mm Warranty: 3 years Body Style: FRP Construction , Removable 2 piece splash pan	10		
27	Kiln/Furnace 1200C Size 5/8feet	3		
28	Sculpture stand 1.5/4feet	20		

29	Spot lights small with fitting	1		
30	Wire work tool kit Tool kit for wire sculpture Set of 5 wire tools pliers and long nose pliers with pointed nose 5 inch and 1 pair of internal pliers 1 wire cutter NEWACALOX Multi Electric Hand Tool Terminal Crimping Plier Wire Stripper Side Cable Cutter Cutting Combination Electrician Knife	10		
31	Spot lights big Focusable Spot 2400watt lights Continuous Set Barn Door: 6" x 7" (W x H) Power Output Wattage: 800W Cryspy Brilliant Bright, Excellent Beam Control 120V 800W Material: Premium Heavy Duty Aluminum Alloy Construction Solid Safety 3 Legs Stages With Umbrella fittings	15		
32	Sculpture head	5		
33	Parts of body in plaster	2	 	

34	Foot	5		
35	Professional Camera with full accessories and Mic D7500 DSLR camera with 18-140mm lens • Effective Pixels (Megapixels) 20.9 million. • Sensor Size. 23.5 mm. x 15.6 mm. • Image Sensor Format. DX. • Storage Media. SD. SDHC. SDXC. • ISO Sensitivity. ISO 100 - 51,200. • Movie. 4K UHD 3,840x2,160 / 30 fps. 4K UHD 3,840x2,160 / 25 fps. ... • Monitor Size. 3.2 in. diagonal. • Monitor Type. (VGA) tilting TFT touch-sensitive LCD.	1		
36	Tripod Material: aluminum, adjustable	10		
37	Pedestal fan	5		
38	Studio Lights	10		
TOTAL AMOUNT:				

LOT # 06. Equipment of Nanotechnology			
1	Particle characterization from the nano- to the micrometer range (0.3 nm to 10 µm), Accuracy better than +/-2 % on NIST traceable standards, Repeatability better than +/-2 % on NIST traceable standards, Determination of zeta potential, light source: semiconductor laser diode	1	
2	pH Meter, Large multifunctional LCD display, Upto five point calibration system, Power with universal AC adapter or AA batteries Technical Specification: - Parameter: pH, mV, Temperature Temperature compensation: Automatic / manual; pH -2.0- 20.0, pH resolution: 0.1, 0.01, pH accuracy: ±0.1 pH, ±0.01; mV range: +/- 2000mV; mV resolution: 0.1 mV; mV accuracy: +/- 0.2 mV Temperature range -5 to +105°C, ± 0.1 °C Complete with pH electrode and electrode stand, Plastic Beaker 50ml, 3 or 3.5 M KCL solution (30-50ml), Calibration standard solutions pH 4, 7 & 10 (30-50ml each).	1	
3	Electronic balance digital top loading with Uni-block technology, One single block non-breakable, high stability, long life operation, Readability: 0.001gm Capacity: 420gm Built in under weighing hook, piece counting function built in, overload protection, windows direct function, operated on 220 volts,	1	
4	Power Supply (10KW) DC-Pulse. SVC series single phase (10 KW)	1	
5	Power Supply (60V)/ SP-6005. output voltage& current: 60 V/5A, resolution accuracy: 100 mV/ 10 mA	1	
6	Ultrasonic Cleaning System/ MHS-L manual control. Timer: 0-30 min, Heating max: 80◦c	1	
7	vaccume Furnace Tube/ CD- 1200 G / CD- 1200kG. size of furnace tube: Φ 40 * 1000mm; Max temp1200◦c, Temp accuracy: +/-1 ◦c, Working voltage : AC 220V 50/60 HZ	1	
TOTAL AMOUNT:			

Sr. #	NAME OF ITEMS /SPECIFICATION	QTY	Sample Picture	UNIT PRICE WITH TAX
LOT# 07. FURNITURE & FIXTURES FOR CLASS ROOMS				
1	**Classroom Chairs** Height 32", Seat 18.50" x 18.50" consisting frame MS square pipe 1"x 1" (16 SWG), Wooden strip (Sheesham) 16.50'' x 1.75" x 1" (8 NOs for seat, 3 Nos at bottom & 3 Nos for back) , Wooden strip (Sheesham) 1" thick on right side arm over MS pipe as per sample picture & 04 Nos rubber pads for legs.	1000		
2	**Rostrum** 48"*24"*16" Complete sheesham vin board one shelve all edge liping with gola of sheesham wood lacquer finish with high quality	7	 	
3	**Lab Stools** Top seat 12" dia (steel made) movable, Height 22", footing GI pipe 4 Nos, 1" dia 18" length, Main vertical GI pipe 1.5" dia & 12" long, tie horizontal GI pipes 4 Nos 0.5" dia & 10" long. (all GI pipes medium quality)	240		
	TOTAL AMOUNT:			

Sr. #	NAME OF ITEMS /SPECIFICATION	QTY	Sample Picture	UNIT PRICE WITH TAX
LOT# 08. FURNITURE & FIXTURES FOR LIBRARY				
1	Study Chair Size: H= 35”, W = 18”, D= 18” Frame made of sheesham solid seasoned wood of section 2-1/4”x1-1/4” thick. Seat and back upholstered with approved color fabric. Seat and back upholstered with best quality 2” thick foam. Wood texture finish with natural sealer and lacquer polish. As per sample Picture	100		
2	Study Tables Study Table Size= 8 X 4 X 2 ½ feet Frame structure made of MS Pipe 1-1/2”x1-1/2” of 18 SWG. 2 side supports and 1 in center (Longitudinal) support must be provided in MS Frame, UV sheets of approved color on Top with proper finished edges/ PVC edges as approved by committee. Frame structure be finished with powder coating of approved color by the committee.	15		
3	Table Size= 6 X 4 X 2 ½ feet Study Table of structure made of MS square pipe (1-1/2”x1-1/2”) of 18 SWG and finished with powder coating of approved colour. 2 side supports and 1 in centre (Longitudinal) support must be provided in MS Frame. UV Sheets (3/4”) Thick of approved colour on top be fixed with Proper edging as approved by the committee.	5		

4	Table & Chair (cabin type) Study Carrels Size = 3 x 2 x 4 feet Structure (Single side) must be of approved color lamination as shown in picture. Edges must be covered with match color PVC edging OR rounded. Design as approved by committee. Study Chair Size: H= 35", W = 18", D= 18" Frame made of sheesham solid seasoned wood of section 2-1/4"x1-1/4" thick. Seat and back upholstered with approved color fabric. Seat and back upholstered with best quality 2" thick foam. Wood texture finish with natural sealer and lacquer polish.	30		
5	Book Shelves (Double Faced) Size= 4' x 2' x 6'-4" Double Sided Shelve height of 6 feet and 4 inches foot rest separate. Length 4 ft and width 2 ft. Book shelves comprises MS frame of square pipe (1-1/2"x1-1/2") 18 SWG with five partitions of equal size of (1"x1") 16 SWG MS Pipe. Frame will be covered with Lamination sheet of (3/4") thick of approved color. Foot rest of 4 inches be powder coated. Plastic heels are to be installed under the foot rest to elevate the iron parts from the ground.	70	 	

6	Almirah for Record Size: 42''x 16''x 78" Structure made with approved color lamination (Partex). Edges should be covered with PVC OR wooden edging match color with lamination 5 mm Clear Glass inserted in fronts. Solid Bakain wood skirting 2" should be inserted at the bottom of the cabinet. Shutters should be locked. Color as approved by committee.	30		
7	Almirah for Books Size= 2' X 2' X 6' feet Four Sided Shelve height of 6 feet with 5 equal partitions and supported with tyres including frame. Length of each side is 2 ft. UV sheet of (3/4") thick of approved colour. Structure must be as per referred picture. Tyres of good quality be installed for easy rotation.	20		
8	File Cabinets/Cataloguer Sheesham Wooden 4 drawers (two with lock and remaining two without lock) complete with all aspects. A class handle of drawers. Size: 470w x510D x1320H. Color as approved by committee.	10		

9	**Office Table with Glass 12 mm and side table** Office Table Size= 5 X 3 X 2 ½ feet Material Sheesham wood top pressed on ¾ chipboard top edges lipping with 1 ½ molding gola. Drawer's one side three drawers and tray upper drawer fixed with lock. All drawers fitted with double channel imported railing. Lacquer finish Side Table Size= 3x2x2 ½ feet	5		
10	Executive Table **Executive Table and Side Rack with Glass 12 mm** Executive Table Size= 7 X 3 X 2 ½ feet Material Sheesham wood pillar. Top lacquer right top edges lipping with 1 1/2 '' molding Gola with 3'' border of sheesham wood. 3 Partition of Leather of approved colour. One side three drawer and tray, other side one drawer and cabinet, upper both cabinet fixed with good quality lock. All drawers fitted on double channel imported railing. Lacquer Finish Side Table Size= 4x2x 2½ feet with Leather on Top.	1		
11	Executive Chair Imported High gas Lift Cylinder Height-adjustable padded seat with adjustable seat angle, tilt control and padded armrests KD metal base with durable caster wheels for smooth-rolling mobility. Chair dimensions: 23.75 x 26 x 38.25-42 inches (WxDxH); seat width: 19.5 inches; seat depth: 17.75 inches; arm height: 26.25~30 inches. (Chair be provided as shown in picture)	1		

12	Office Chair Imported High gas Lift Cylinder Pneumatic seat-height adjustment provides customizable positioning 360-degree swivel lets you rotate completely for added convenience Dual-wheel casters on 5-star nylon base for easy mobility (Chair be provided as shown in picture)	5		
13	Computer Tables Size: (L x W x H) = (4 x 2 x 2.5) ft with key board tray As Per Sample. Power plug provision be also kept for each computer supply. Structure made of MS Pipe (1"x1") 18 SWG laminated with ¾" ply of approved colour. MS Pipe must be powder coated of approved colour. Plastic heels are to be installed under the foot rest to elevate the iron parts from the ground.	30		
14	Computer Chairs Imported High gas Lift Cylinder Pneumatic seat-height adjustment provides customizable positioning 360-degree swivel lets you rotate completely for added convenience Dual-wheel casters on 5-star nylon base for easy mobility (Chair be provided as shown in picture)	30		
Total Amount:				

Annexure- A Technical Proposal Covering Letter

To

Convener, Project Procurement Committee

Government College Women University,

Sialkot

Dear Sir,

We are hereby submitting our Proposal, which includes the Technical Proposal and the Financial Proposal sealed in two separate envelopes. We have attached the **Technical Bid Form**, **Check List, Detailed Specifications** and the required **supporting documents** and Bid Security of amount Rs. *(insert amount in words and figures)* having C No. along with our Technical Bid.

Yours sincerely,

Authorized Signature

(In full and initials)

Name and Designation of Signatory Name of Firm Address

Annexure- B Check List

The bidder must attach this list along with the Bid

1.1. Packing of the Bid

S#	Description		YES/NO
1	Whether the Bid is submitted in **Two Envelopes**		
2	**Technical Proposal**	***Envelope A***	
3	**Financial Proposal**	***Envelope B***	
4	Whether both Technical and Financial Proposals are put into another **Outer Envelope.**		

1.2. SUBMISSION AND ARRANGEMENT OF SUPPORTING DOCUMENTS

The Bidder must provide all the Supporting Documents, number all the pages of supporting documents, provide the page information and arrange the documents in the following order:

Envelope A: Enclosures of Technical Proposal		**Attached YES/NO**	**Page#**
1	**Check List**		
2	**Covering Letters of both proposals (Technical & Financial) must have reference number of vendor with date.**		
3	Technical Bid Form duly signed and Stamped by the Bidder		
4	Specifications of quoted items on the Letter Head of the bidder		
5	Copy of **Income Tax Registration Certificate**		
6	Copy of **Sales Tax Registration Certificate**		
7	**Affidavit/Undertaking** on the Stamp Paper		
8	Bid Security in shape of CDR		
9	Tender Fee in prescribed forms		
10	Proof of Sales of the Company		
11	List of Staff		
12	The specified **catalogues / brochures / Samples** of items quoted by the bidder		
Note: All the above documents and any other supporting document must be numbered and page number must be mentioned in the column specified for the purpose.			
Total Number of pages attached with the Technical Bid		**_____ Pages**	
14	**Tender Document** duly signed and stamped each page by the bidder must be attached at the end of the Technical Bid but numbering is not required for this document.		

Envelope B : Enclosures of Financial Proposal		**Attached YES/No**	**Page #**
1	Financial Proposal Covering Letter		
2	Price Schedule Form duly filled, signed and stamped by the bidder		

Annexure- C BID FORM

Technical Bid Form

S #	Particulars	Bidder's Response
A	**Information about the Bidder**	
	Name of the Company	
	Year of Incorporation/Registration	
	NTN Registration Number	
	GST Registration Number	
	Address	
	Office Telephone Number	
	Email Address of the Company	
	Name of Contact Person	
	Mobile No. of Contact Person	
	Email Address of Contact Person	

B- **Past Performance (Detail of Top** Supply Orders for supply of relevant items received in the past**)**						
S#	**Name of Project**	**PO/LOA/ Contract No & Date**	**Value of Project in PKR**	**Item Detail**	**Customer (Name of Institution)**	**Customer Contact Person Name and Phone No.**
1						
2						
Total Value of relevant Projects (Rs)						

Annexure- D AFFIDAVIT/BIDDER'S UNDERTAKING ON THE STAMP PAPER

Ref: **Tender No. GCWU/SKT/PD/609 published on PPRA & on GCWUS website.**

1. We have examined the Tender/Bid Document and we undertake to meet the requirements regarding supply of Items, warranty and services as required and are prescribed in the Tender Document.
2. It is certified that the information furnished here in and as per the document submitted is true and correct and nothing has been concealed or tampered with.
3. We have read the provisions of Tender/Bid Document and confirm that these are acceptable to us. We further declare that additional conditions, variations, deviations, if any, found in our response shall not be given effect to.
4. We agree to unconditionally accept all the terms and conditions set out in the Tender/Bid Document
5. We undertake, if our Bid is accepted, to supply the items within the delivery period mentioned in the Tender Document.
6. We understand that no document regarding evaluation criteria will be accepted after opening of the Technical Bids and we are bound to provide all the documentary proofs regarding evaluation criteria or any other supporting document at the time of opening of Technical Bids.
7. We agree that the Project Procurement Committee of Government College Women University is not bound to accept the lowest or any of the bids received. We also agree that the Project Procurement Committee reserves the right in absolute sense to reject all the products/ services specified in the Bid Response without assigning any reason whatsoever under PPRA Rules 2014.
8. We also declare that our Company/Organization is not blacklisted by any of the Federal or Provincial Government in Pakistan.

[Name and Signatures of authorized Person along with stamp]

Annexure- E Financial Proposal Covering Letter to be attached with Financial Proposal)

To

Convener, Project Procurement Committee

Government College Women University,

Sialkot

Dear Sir,

With Reference to your Tender No. GCWU/SKT/PD/609. for **(LAB EQUIPMENT AND FURNITURE & FIXTURE).**

Please find attached our Financial Proposal for the sum of Rs. (*insert amount in words and figures*)_. This amount is inclusive of all taxes.

Yours sincerely,

Authorized Signature

Annexure-F Contract Agreement Form

THIS AGREEMENT made the *[day]* day of *[month] [year]* between *[Government College Women University]* (hereinafter called "the University") of the one part and *[name and address of Supplier]* (hereinafter called "the Supplier") of the other part:

WHEREAS the University invited Tenders for certain goods and related services, viz, *[brief description of goods and related services]* and has accepted a Tender by the Supplier for the supply of those goods and related services in the sum of Rs.*[Contract Price in figures and in words]* (hereinafter called "the Contract Price").

NOW THEREFORE the parties hereby agree as follow:

1- The following documents attached shall be deemed to form and integral part of this Contract:
   - i- Tender/Bid Document
   - ii- Letter of Acceptance
2- The Terms and Conditions of Supply Order/Contract given in the Tender/Bid Document will be applicable.
3- The mutual rights and obligations of the University and the Supplier will be preserved in the light of Terms and Conditions mentioned in the Tender /Bid Document.

IN WITNESS whereof the parties have caused this Contract to be executed in accordance with the laws of Pakistan on the day, month and year written above.

For Government College Women University Sialkot: **For the Supplier:**

Signature

Print Name

Title