

Tender No. 02/2023

UNIVERSITY OF CHAKWAL, CHAKWAL



TENDER DOCUMENT

For

**PURCHASE OF LABORATORY ITEMS FOR CHEMISTRY,
PHYSICS, BOTANY AND ZOOLOGY LABS.**

Issued To: _____

**Deputy Director P&S
Ph. No.: 0543-552511**

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THE UNIVERSITY OF CHAKWAL
Procurement Cell
Main Campus, Talagang Road, Chakwal.
Tel:0543-552511

Tender Notice

Sealed tenders/ bids are invited from the firms registered with Sales Tax and Income Tax Departments for following Tender on the basis of **Single Stage (Two Envelope Procedure)** in terms of Rule No. **38 2(a)** of the Punjab Procurement Rules 2014 (PPRA Rules 2014).

Tender No.	Tender Name	Budgetary Amount	QTY	Closing Time and Date	Opening Time and Date
02/2023	Purchase of Laboratory Items for Chemistry, Physics, Botany & Zoology Labs.	31.6 Million	Detail in Tender Document	27-02-2023 till 11:00 AM	27-02-2023 at 11:30 AM

- Tender Document will be immediately available after publishing of this Tender Notice under Rule No. 25(1).
- Tender / Bid Document can be obtained from the Office of Deputy Director (P&S), University of Chakwal between 08:00 am to 4:00 pm from Monday to Friday by depositing the **Tender Fee of Rs.2,000/-** through Deposit Slip of BOP in **A/C No. 6010211599100019, Main Recurring Account of UOC** in the Bank of Punjab. In case the Tender / Bid Documents are downloaded from www.uoc.edu.pk or www.ppra.punjab.gov.pk , **Original Deposit Slip of BOP** must be attached with the **Technical Bid**.
- The Bid Security, of Rs.632,000/- which is equal to 2% of estimated price, in the form of “CDR, Bank Draft, Pay Order.” in favor of Treasurer, University of Chakwal required to be submitted with the Financial Bid (Original), without which the offer shall be rejected being non-responsive.
- 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.
- No supporting document will be accepted, at all, after opening of the Technical Bids. Bids received after due date and time or bids without Bid Security in shape of CDR, Bank Draft, Pay Order or less than required amount or Bid Security in shape of Cheque/ Cross Cheque shall be summarily rejected.
- The University reserve the right to modify/withdraw/cancel the bids/tender 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.
- For obtaining any further information or clarifications, please contact the officer named below:

SULTAN MAHMOOD
Deputy Director (P&S)

1. Invitation to the Bid

- 1.1. Bids/Tenders are invited for **Purchase of Laboratory Items for Chemistry, Physics, Botany and Zoology Labs** from Sales Tax and Income Tax Registered firms.

2. Instructions to the Bidders

- 2.1. Procurement will be made under Punjab Procurement Rules (PPRA), 2014.
- 2.2. Procuring agency will ensure the **Rule 2 (ae)** of PPRA rules 2014.
- 2.3. It will be clearly understood that the Terms and Conditions mentioned in this document are intended to be strictly enforced.
- 2.4. Bidders must ensure that they submit all the required documents indicated in the Tender / Bidding 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.
- 2.5. 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 date and time, and bids without Bid Security in shape of Demand Draft, Pay Order, CDR or less than required amount or Bid Security in shape of Cheque or Cross Cheque shall be rejected.
- 2.6. No supporting document will be accepted, at all, after opening of the Technical Bids.
- 2.7. The bidder must quote rates of each item in a lot/package, partial bidding in a lot is allowed.
- 2.8. **Mode of Advertisement:**

As per Rule 12(1) the advertisement is being placed on www.uoc.edu.pk and on the website of PPRA Punjab www.ppra.punjab.gov.pk

2.9. **Type of Open Competitive Bidding**

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

- 2.9.1. The bid shall comprise of a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal;
- 2.9.2. The envelopes shall be marked as “FINANCIAL PROPOSAL” and “TECHNICAL PROPOSAL” in bold and legible letters to avoid confusion;
- 2.9.3. 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;
- 2.9.4. 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;
- 2.9.5. The financial proposals of technically qualified bidders shall be opened publicly at a time, and venue announced and communicated to the bidders in advance;
- 2.9.6. 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.

2.10. Bid Data Sheet (Information for the Bidders)

1	Procuring Agency	University of Chakwal
2	Tender Number	02/2023
3	Name of Tender	Purchase of Laboratory Items for Chemistry, Physics, Botany & Zoology Labs
4	Tender Document available place	Office of the Deputy Director (P&S), University of Chakwal (Main Campus), Main Talagang Road, Chakwal.
5	Cost of Tender Document	Rs.2000/- payable at BOP through Deposit Slip in A/C No. 6010211599100019, Main Recurring Account of University of Chakwal.
6	Bid Security	Amount mentioned in Clause No. 9 of the Tender Document in shape of Bank Guarantee, CDR, Pay Order, Bank Draft etc., in favor of “Treasurer, University of Chakwal, Chakwal”
7	Performance Guarantee	10% of Contract Value after issuance of Letter of Acceptance. Performance guarantee will be accepted in the form of Bank guarantee.
8	Tender Addressed to	Convener, Central Purchase Committee, University of Chakwal.
9	Contact Number	Ph. 0543-552511
10	Due date, time and place of submission of Tender Document	27-02-2023 till 11:00 AM Office of the Deputy Director (P&S), University of Chakwal (Main Campus), Main Talagang Road, Chakwal.
11	Date, time and place of Technical Bid Opening	27-02-2023 at 11:30 AM at Seminar Hall , Ground Floor, Engineering Building, University of Chakwal (Main Campus), Main Talagang Road, Chakwal.
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 the procuring agency i.e. University of Chakwal.
- 3.2. "UOC" means University of Chakwal.
- 3.3. "Bidder/Tenderer" means the Firm/Company/Supplier/Distributor that may provide or provides the Goods and related services to any of the public sector organization under the contract and have registered for the relevant business thereof.
- 3.4. "Contract" means the agreement entered into between the Purchaser and the Contractor, in form of Supply Order or as recorded in the Contract Form signed by the parties, including all Schedules and Attachments thereto and all documents incorporated by reference therein.
- 3.5. "Contractor/The Successful Bidder" means the person whose Tender has been accepted and awarded letter of Acceptance followed by the Supply Order or Contract by the Purchaser.
- 3.6. "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. has valid registration certificates for Income Tax and Sales Tax;
- 4.2. is an active Income Tax Payer;
- 4.3. has got the experience in supply of relevant items;
- 4.4. conforms to the clause of "Responsiveness of Bid" given in this tender document;
- 4.5. Has not been blacklisted.

5. Examination of the Tender Document

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

6. Amendment of the Tender Document

- 6.1. The Purchase Committee of University of Chakwal at any stage 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 only** and payments shall also be made in Pakistan Rupees only.

8. Validity Period of the Bid

- 8.1. Validity period of the bids shall be **180 days**.
- 8.2. In exceptional circumstances, the Purchase Committee of University of Chakwal 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, University of Chakwal** detail given below:

Item Name	Budgetary Amount	Amount of Bid Security
Purchase of Laboratory Items for Chemistry, Physics, Botany & Zoology Labs.	Rs.31,600,000/-	Rs.632,000/-

- 9.2. Cheque or Cross Cheque shall not be accepted at all.
- 9.3. The amount submitted as Bid Security shall be refunded to the unsuccessful bidders after the decision for the award of the said tender.
- 9.4. The Bid Security of Successful Bidder(s) may be converted as part of the Performance Guarantee for successful execution of the work.
- 9.5. Subject to the award of contract, the Bid Security in form of CDR, Demand Draft, Pay Order shall be returned to successful bidder against submission of Performance Guarantee
- 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 Letter of Acceptance of the Bid; or
 - b) Fails to furnish Performance Security.

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 Purchase/Technical 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.

- 10.4. The Technical Proposal form as given in the Bid/Tender Document shall be filled, signed and stamped in all pages. The Purchase Committee will not be responsible for the errors committed in the bids by the bidders.
- 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 should quote only one 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*) duly signed and stamped by authorized representative.
- 10.7.2. Copy of Income Tax Registration Certificate (*Annexure-B*).
- 10.7.3. Copy of Sales Tax Registration Certificate (*Annexure-C*).
- 10.7.4. Detailed specification of items (*Annexure-D*).
- 10.7.5. At least two relevant Supply Orders/Contracts received in the last three years (*Annexure-E*).
- 10.7.6. Affidavit/Undertaking on Stamp Paper (*Annexure-F*).

11. Financial Proposal

- 11.1. 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.
- 11.2. 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.
- 11.3. The quoted price will be inclusive of all taxes, duties, levies, insurance, freight (transportation charges), etc.
- 11.4. The Bid is liable for rejection if Financial Proposal contains conditional offer.
- 11.5. **Details to be furnished with Financial proposal (Envelope B)**
 - 11.5.1. Financial Proposal Covering Letter (**Annexure G**).
 - 11.5.2. Financial Proposal Form duly filled, signed and stamped by the Bidder (**Annexure H**).
 - 11.5.3. Bid Security of **RS. 632,000/-**

11.6. Sealing the Bid

- 11.6.1. The Technical Proposal shall be placed in a separate cover (**Envelope-A**) and sealed appropriately. The Technical Proposal cover shall be marked as “**Technical Proposal for Purchase of Laboratory Items for Chemistry, Physics, Botany & Zoology Labs**” – Bid Ref.: due on: _The “FROM” address and “TO” address shall be written without fail.
- 11.6.2. The Financial Proposal (**Envelope-B**) shall contain rates of item quoted by the bidder. The Financial Proposal cover shall be marked as “**Financial Proposal for Purchase of Laboratory Items for Chemistry, Physics, Botany & Zoology Labs**” – Bid Ref.: due on: ____The “FROM” address and “TO” address shall be written without fail.
- 11.6.3. **Out Cover:** The Technical Proposal cover (Envelope-A) and Financial Proposal

cover (Envelope B) shall then be put in a single outer envelope and sealed. The outer cover shall be marked as “**Bid for Purchase of Laboratory Items for Chemistry, Physics, Botany & Zoology Labs**” –Bid Ref.: due on _____. The “FROM” address and “TO” address shall be written without fail.

11.7. Mode of Submission of Bids

- 11.7.1.** The Bid should be addressed to “Convener, Central Purchase Committee, University of Chakwal”.
- 11.7.2.** The Bids received after Due Date and Time or Unsealed or incomplete or submitted by Fax or Email will be summarily rejected.

12. Modification/Withdrawal of the Tender

- 12.1.** 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.
- 12.2.** 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 Bid Security.

13. Bid Opening

13.1. Technical Proposal Opening

The bid’s outer cover and Technical Proposal cover will be opened by the Central Purchase Committee of University of Chakwal 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. A maximum of two representatives for each bidder would be allowed to attend the Bid Opening.

13.2. Suppression of facts and misleading information

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

14. Preliminary Examination

- 14.1.** 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.
- 14.2.** 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, its bid shall be rejected. If there is a discrepancy between words and figures, the amount in words shall prevail.

15. Determination of Responsiveness of the Bid

- 15.1.** 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:
- 15.1.1.** meets eligibility criteria for the Bidder / the Goods / the Services;
 - 15.1.2.** meets all the mandatory requirements of the evaluation criteria;
 - 15.1.3.** meets the Technical Specifications for the Goods / the Services;
 - 15.1.4.** meets the delivery period / point for the Goods / the Services;
 - 15.1.5.** is accompanied by the required Bid Security;
 - 15.1.6.** is otherwise complete and generally in order;
 - 15.1.7.** Conforms to all terms and conditions of the Tender Document, without material deviation or reservation;
 - 15.1.8.** which offers one Brand/Model/Make for each item (which does not contain any option);
- 15.2.** 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.
- 15.3.** 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.

16. 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
At least two relevant Supply Orders/Contracts received in the last three years			Mandatory
Affidavit /Bidder's Undertaking on stamp paper			Mandatory
S. No.	Item Name and Description	Marks	Maximum Marks
1	Past Performance/ Experience of the Bidder (Reg with GST/NTN)	--	10
1.1	1 - 3 year experience	2	--
1.2	4 - 8 year experience	4	--
1.3	9 - 15 year experience	6	--
1.4	Above 15	10	--
2	Relevant Experience	--	10
2.1	1 - 5 year experience	3	--
2.2	6 - 10 year experience	6	--
2.3	11 & above year experience	10	--
3	Financial Position / Status	--	10
3.1	Last sales tax paid Form	4	--
3.2	Bank Certificate (satisfactory)	2	--
3.3	Statement Worth (Min 2 m)	4	--
4	Technical Evaluation of quoted items	--	70
4.1	Specifications as per Schedule Requirement	50	
4.2	Workshop for Equipment or Repairing workshop	10	
4.3	Delivery schedule as per need	2.5	
4.4	List of clients / where such items delivered	2.5	
4.5	Guarantee / Warranty (as the case may be)	5	
TOTAL MARKS		--	100

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

Demonstration (If necessary) of Multimedia Projector will be held for confirmation of specifications of the quoted model.

Conformance to the required specification of items given in Schedule of Requirement will be evaluated by the Technical Evaluation Committee and qualifying marks are sixty five (65).

The Purchase Committee and Technical Evaluation Committee may ask for physical Demonstration of any item given in the Tender Document for confirmation of specifications.

17. Financial Proposal Evaluation

- 17.1. 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 or item shall be allowed to take part in the Financial Proposal(s) opening against their relevant Lot(s) or items.
- 17.2. 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.

18. Rejection and Acceptance of the Tender/Bid

- 18.1. 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.
- 18.2. **The Tender / bid shall be rejected if:**
 - 18.2.1. It is substantially non-responsive; or
 - 18.2.2. The bidder does not meet any of the mandatory criteria mentioned in Clause No. 15; or
 - 18.2.3. It does not contain the documentary proof against any of the mandatory criteria mentioned in Clause No. 15; or
 - 18.2.4. **The bid is incomplete, conditional, alternative, late; or**
 - 18.2.5. the bidder does not attach Bid Security in Shape of Demand Draft, Pay Order, CDR; or
 - 18.2.6. the bid security is not attached or it is less than the required amount; or
 - 18.2.7. the Bidder submits more than one Bids against one Tender; or
 - 18.2.8. the Bidder tries to influence the Purchase Committee / Contract award; or
 - 18.2.9. the Bidder engages in corrupt or fraudulent practices in competing for the Contract award; or
 - 18.2.10. 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
 - 18.2.11. the Bidder submits any financial conditions as part of its bid which are not in conformity with tender document.

19. Contacting the Procuring Agency

- 19.1. No Bidder shall contact the Central Purchase Committee of UOC on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.
- 19.2. 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.

20. Announcement of Evaluation Report

- 19.1 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.

21. Award of Contract

- 21.1. The Tender will be awarded to the Lowest Evaluated Bidder(s) (item wise or Lot wise) who have been declared Technically Qualified.

22. Letter of Acceptance (LOA)

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

23. Payment of Performance Guarantee (PG)

- 23.1. The Successful Bidder(s) will be required to remit the Performance Guarantee equivalent to 10% of the value of the contract price. The PG should be paid by way of Cash Deposit Receipt (CDR), Pay Order, Demand Draft drawn in favor of "Treasurer University of Chakwal, Chakwal" as unconditional Guarantee. The Performance Guarantee will be verified from your relevant Bank. No copy or color copy of CDR / Bank Draft / Pay Order will be accepted and only original CDRs / Pay Orders / Bank Drafts will be accepted.
- 23.2. The Performance Guarantee will be forfeited if the Successful Bidder withdraws the Bid during the period of Bid validity specified in the Bid Documents or if the Bidder(s) fails to sign the contract.

24. Refund of Bid Security (BS)

The Bid Security (BS) of the Successful Bidder may be adjusted towards Performance Guarantee payable by the firm. If the successful Bidder(s) submits Performance Guarantee for the stipulated value in full by way of Cash Deposit Receipt (CDR), Bank Draft or Pay Order the BS will be refunded. 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 upon his request provided the bidder submits the Performance Guarantee in the shape of Cash Deposit Receipt (CDR), Bank Draft or Pay Order.

25. Issuance of Supply Order or Signing the Contract

- 25.1. The Purchase Committee shall issue Supply Order or sign a Contract with the Successful bidder who has submitted the Performance Guarantee.

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

26. Redressal of grievances by the procuring agency

- 26.1. Any bidder feeling aggrieved by any act of the procuring agency after the submission of his bid may lodge a written complaint concerning his grievances not later than 10 days after the announcement of the bid evaluation report.
- 26.2. The committee shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint.
- 26.3. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.
- 26.4. 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

27. Delivery of Items

- 27.1. The Supplier will be responsible for **delivery of Items** of Purchase of Laboratory Items for Chemistry, Physics, Botany & Zoology Labs and in case of items which requires installation; the Bidder will be responsible for installation of items at UOC, Main Campus, Talagang Road, Chakwal.
- 27.2. Delivery Period will be **Sixty (60) days** counted *after issuance of Letter of Acceptance*. *The bidder will ensure the delivery of items within sixty (60) days. It is extendable under the special circumstances subject to approval of the competent authority but it is discretion of the competent authority.*
- 27.3. After delivery of items, the Bidder must get the items inspected at UOC, Main Campus, Talagang Road, Chakwal.
- 27.4. The supplier will bear all costs associated with the preparation, delivery and installation of the Items and the Purchaser will in no case be responsible or liable for those costs. The supplier will make such arrangements to ensure safe delivery of goods. Any damage sustained during transportation / delivery will be rectified by the supplier at his cost.

28. Liquidated Damages

- 28.1. When the supplier fails to deliver or install the goods or both within the time period specified in the contract, the Purchase Committee may, without prejudice to any other remedy it may have under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.25% of the price of the delayed goods per day of delay, maximum up to 10% of the price of total value of the contract.
- 28.2. The Successful Bidder will be responsible to provide the delivery, Delivery Challan and Bill within the delivery period in order to avoid Late Delivery Charges.

29. Inspection and Tests

- 29.1. The Inspection Committee of UOC shall inspect and test the Goods supplied, the Services provided, under the Contract/Supply Order, to verify their conformity to the Technical Specifications.
- 29.2. Inspection will be done at University of Chakwal.
- 29.3. Inspection Committee may verify the authenticity of items.

- 29.4. After the inspection or test if the Inspection 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 University of Chakwal.

30. Release of Performance Guarantee (PG)

The Performance Guarantee will be refunded to the Successful Bidder(s) after one year of completion of delivery and installation of Goods (Inspection) or completion of all procurement along with warranty/guaranty subject to PAPRA Rules 2014.

31. Contract Amendment

- 31.1. 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.
- 31.2. No variation in or modification in the Contract shall be made, except by written amendment signed by both the Purchaser and the Contractor.

32. Termination for Default

The Purchase Committee of UOC 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:

- 32.1. the bidder fails to provide services within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring entity.
- 32.2. the successful bidder fails to deliver goods and services as per its technical specifications offered in the bid
- 32.3. the successful bidder fails to perform any other obligation(s) under the Contract.
- 32.4. the bidder, in the judgment of the Purchase Committee has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

33. 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.

34. Force Majeure

Majeure means an act of nature or an event beyond the control of the Supplier and not involving the Supplier's fault or negligence directly or indirectly purporting to mis-planning, mismanagement and /or lack of ore sight to handle the situation. Such events may include but are not restricted to acts of the Procuring Agency in its sovereign capacity, wars or evolutions, fires, floods, earthquakes, strikes, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Suppliers hall promptly notify the Procuring Agency in writing with sufficient and valid evidence of such condition and the cause there of the Committee constituted for Redressal of grievances, shall examine the pros and cons of the case and all reasonable alternative means for completion of purchase

order under the Contract and shall submit its recommendations to the competent authority. However, unless otherwise directed by the Procuring Agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek reasonable alternative means for performance not prevented by the Force Majeure event.

35. 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 insolvent. 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.

36. Forfeiture of Performance Security

- 36.1. 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 / Letter of Acceptance, the Purchaser may, without prejudice to any other right of action / remedy it may have, forfeit Performance Security of the Contractor.
- 36.2. Failure to supply required items/services within the specified time period will invoke penalty as specified in this document.

37. Payment

- 37.1. 100% payment will be made after withholding applicable taxes by UOC or any other taxes/levies as per rules to the Successful Bidder(s) after delivery and installation of goods and on receipt of the following documents:
 - i. Triplicate Original Delivery Challan.
 - ii. Triplicate Original Bill/Invoice.
 - iii. Triplicate General Sales Tax Invoice
 - iv. Inspection/Completion report

38. Warranty

- 38.1. Warranty of Equipment, Apparatus and instrument shall be one year.
- 38.2. 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.
- 38.3. The Purchase 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 **15 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.

39. SPECIFICATIONS and Schedule of Requirement

CHEMISTRY DEPARTMENT

Sr.#	Name of Items	Specifications	Qty.
1	Digital Analytical weighing balance	Range: 0.0001g to 250g; Measurement: upto 4 decimal places; Glass sliding door, Touch screen Made: USA/UK/China or Equivalent	2
2	Digital Heating Vacuum oven	Digital PID control, temperature range ambient $\pm 5^{\circ}\text{C}$ to 220°C with built in digital timer range 99 hr. 59 minutes, with built in double over temperature protection, interior and outer all stainless steel, Natural air convection, Capacity 50-60 Liters, operated on 220 Volts. Made: USA/UK/China or Equivalent	2
3	TLC tank	20 x 20 cm Made: USA/UK/China or Equivalent	2
4	TLC plates	20x20 cm Silica gel coated Made: USA/UK/China or Equivalent	3 packs
5	Tank for Paper Chromatography	Rectangular Chromatography Tank standard size (20-40 x 10-20 cm) with lid Made: USA/UK/China or Equivalent	2
6	Digital Thermostat Shaker	Timer: 0.01 – 99.59 h; Power supply 230 V, 50 Hz; Dimensions (W x D x H) 134.9 x 84.3 x 66 cm / 53.1 x 33.2 x 26 in; Temperature range Ambient $+5^{\circ}\text{C}$ to $80^{\circ}\text{C} \pm 0.25^{\circ}\text{C}$ at 37°C ; Speed Ranges 25 – 400 rpm with 2.5 cm orbit; 25 – 300 rpm with 5.1 cm orbit or 2 stacked units; 25 – 250 rpm with 3 stacked units; capacity to 20 liters Made: USA/UK/China or Equivalent	1
7	UV/Visible Spectrophotometer (Dual beam)	High resolution (Band pass: 1.5nm) Validation function as standard enables user to check performance Technical Specification Optical system: Dual beam Wavelength range: 190 to 1,100nm Spectral bandpass: 1.5nm Made: USA/UK/China or Equivalent	1
8	pH- meter	Touch Screen, Calibration function, Electrode, Range: pH 1-14, Made: USA/UK/China or Equivalent	2
9	Abbe Refractometer	Measurement range: nd 1.3000–17200, 0–95 %brix accuracy: nd $\pm 0.0002 \pm 0.1$ %brix resolution: nd 0.0001, 0.1 %brix temperature: temperature measurement digital thermometer temperature measurement range: 0–99 $^{\circ}\text{C}$ temp. measurement resolution: 0,1 $^{\circ}\text{C}$ Made: USA/UK/China or Equivalent	2

10	Compound Microscope	With minimum three magnification 10X, 40X, 100X with fluorescent light Made: USA/UK/China or Equivalent	3
11	Vacuum Pump	Rotary-Vane Vacuum Pump with exhaust filter, Mattel vacuum tube with two flanges, Adjustment range should be 1060 to 0.1 mbar , suction rate should be over 5m ³ /Hrs, Made: USA/UK/China or Equivalent	2
12	Water Distillation Assembly	Glass made assembly with measurable marking cups, Capacity: 3-5 L/h, Made: USA/UK/China or Equivalent	1
13	Stalagmometer	Glass made assemble Made: USA/UK/China or Equivalent	20
14	Calorimeter	Manual 10 – 50 °C working Temperature Range,0.0001 °C Temperature Sensitivity, 100 -145 Calories/°C Energy Equivalent, 20 mL Maximum Volume Made: USA/UK/China or Equivalent	2
15	Potentiometer	Digital Potentiometer for Redox Potential Measurement Display 4 digit LED; Range: 0 to ± 1999 mv; Resolution: 1 mv, Operating Temperature: 10 to 50 °C Made: USA/UK/China or Equivalent	1
16	Refrigerator with Stabilizer	18 or 20 cft, Vertical Glass door with adjustable temperature range upto 50°C, Made: USA/UK/China or Equivalent	2
17	Fume hood	Size: 1500 x 850 x 2350 anti-explosion toughened glass, Anti-dust, Splash proof safety socket with automatic closing lid, size of 60 x 60 mm, Multi-function socket, lighting, fan, Opening height: 400-800mm Made: USA/UK/China or Equivalent	2
18	Melting Point Apparatus	0-400 degree Celsius with increase by control pan, heating chamber, capillary tube, magnifying glass. Made: USA/UK/China or Equivalent	3
19	UV Lamp	Voltage (V) 220 V or with voltage adopter Wave Light Source 254 nm; size: 16-20 inch No. of light source: 3 Fixed in a safe box Wave length adjustable, Made: USA/UK/China or Equivalent	1
20	Sonicator	Working size, 500*300*150 mm; Capacity, 3-4 L; Ultrasonic frequency, 40 HZ; Ultrasonic power, 500 W; Heating power, 1000 W; Temp. range; RT-80 °C; Time range 1-30 min Made: USA/UK/China or Equivalent	2
21	Silica beads for desiccator	300mm or equivalent Made: USA/UK/China or Equivalent	5 kg
22	Heating Gun	Temperature 0-700 °C	2

		Made: USA/UK/China or Equivalent	
23	Thermometer	Temperature 0-360 °C Made: USA/UK/China or Equivalent	50
24	Centrifugation Machine	Speed 500-15,000 Rpm (10 rpm steps), Timer 0-99 Mins & Hold (30 sec steps) Dims HWD 235 x 235 x 350mm Weight 12.8 Kg (without rotor). Made: USA/UK/China or Equivalent	1
25	Viscometer	Measured Range (mPa·s) 100~100,000 Rotation Speed (rpm) 6,12,30,60 0.1,0.3,0.6, 1.5, 3, 6, 12, 30, 60 Number of Spindle 4 types (L1-L4) Measurement Accuracy ±5%(FS)(Newtonian Fluid) ±3%(FS)(Newtonian Fluid) Repeatability ±0.5%(FS)(Newtonian Fluid) Standard accessory // Optional accessory / RTD temperature probe L0spindle is for Option Measured Range (mPa.s) 10~6000 Package Size 470*400*230mm G.W. Made: USA/UK/China or Equivalent	1
26	Polarimeter	Measurement scale: °Optical Rotation Measuring range: ± 180° Resolution: 1° Precision: 0,1° Sensitivity: up to OD 3 Wavelength: one fixed (546 oder 589 nm) Measurement mode: visual Made: USA/UK/China or Equivalent	1
27	Heating Mantle	Round bottom flask upto 1L, Temperature range: 0-400 degree Celsius, Electronic power regulator, IP Class: 10 Made: USA/UK/China or Equivalent	1
28	Digital Muffle Furnace	Muffle furnace for digestion of organic samples etc. with facility of high grade temperature up to 1200 oC. With accessories for handling of materials.	1
29	Autoclave	100 ml, stainless steel body and Teflon lining Made: USA/UK/China or Equivalent	4
30	Micropipettes with tips	Range 10 µL, 100 µL and 1000 µL one each with tips (1000 tips of each size) Made: USA/UK/China or Equivalent	3
31	Mortar Pestle	Diameter: 100 mm, capacity: 130 ml, length: 110 mm, Glazed outside only, Made: USA/UK/China or Equivalent	2
32	Benchtop Total Dissolved Solids Meter	Bench type, Range: 0~50.0 ppm 0~500 ppm 0~5.00 ppt Resolution: 0.1/1ppm 0.01ppt Accuracy: ±1%FS Made: USA/UK/China or Equivalent	1
33	First aid box	With basic accessories Made: USA/UK/China or Equivalent	2
34	Fire extinguisher	05-10 L Made: USA/UK/China or Equivalent	3

ZOOLOGY DEPARTMENT

Sr. #	Name of Items	Specifications	Qty.
1	Stereo Microscope	7X-45X Table Pillar Stand Zoom Magnification Binocular Stereo Microscope Inspect PCB + 14MP Microscope Camera + 8" LCD Monitor	1
2	Chemical Analyzer/ Biochemical system	Chemical Analyzer/ Biochemical system, Bioevopak, BA-A-120	1
3	Gel electrophoresis system, with computer system	Gel electrophoresis system, M12, complete electrophoresis package (Mfr. No. 502/504)	1
4	Binoculars	Binoculars, Barska, Gladiator Binoculars	2
5	Water distillation plant	Water distillation plant, Spinning Band Distillation (0.5-1.5 L/Hr)	1
6	Respirometer	Respirometer, Rumson's, HARS001, multihealth care SLA	1
7	Vortex mixer	Vortex mixer VM62	1
8	Digital Camera	7.2 Mega Pix digital camera (Sony dsc -w35)	1
9	Hemocytometer	Hemocytometer	3
10	Mercury Blood Pressure Set	Glass tube: 3mm or 3.5mm Cotton Cuff (Standard) 32cm 2 Tube Latex Bladder Standard Green Latex Bulb Standard Air Release Valve Accuracy: 2mmHg or equivalence to best quality	1
11	Blood Glucose Monitoring System	Memory-10 blood glucose test results Measurement units=mg/dL or mmol/L Measurement range=20~600 mg/dL or 1.1~ 33.3mmo/L	1
12	pH Meter benchtop type	0-14 pH RANGE, Electrode stand, Beaker 50ml, 3MKCL solution 50ml, Calibration standard solutions pH 4, 7 & 10 (50ml each), pH electrode built in temperature sensor or equivalence to best quality	1
13	Soxhlet Apparatus for Fat	Temperature Range: Room temperature Measuring Range: 0.1-100% Temperature accuracy: $\pm 1^{\circ}\text{C}$ Sample weight 0.5-15g Solvent cup volume 150 mL Solvent recovery > 85% Display Digital Touch screen or equivalence to best quality	1
14	Microwave oven	Large Capacity/Grill Cooking /Auto Cook Menu/30 Litres/Microwave or available in best quality	1
15	First Aid Kit	Contains all necessary items or available in best quality	1
16	Blood Lancet Needles for Blood Sugar Test-Round	Sterilized by gamma-radiation Smooth tri-bevel needle tip for comfortable sampling experience or available in best quality or available in best quality	30
17	BP Apparatus	Dial has 20 to 300 mm HG scale with 2mm of Hg resolution. or available in best quality	1
18	Analytical balance	0.001g to 300g, Fully Automatic, Digital Display, Overload Alarm, Tare Function	1
19	Autoclave	20 – 30 L Capacity Desktop, Sterilization temperature 121°C - 134°C , Net Weight 40-50Kg, Digital Display	1
20	Centrifuge machines	Up to 13000rpm, 06 tubes +Stoppers	1
21	Compound microscope	With minimum 3 magnifications, 10X, 40X, 100X,	4

		Fluorescent light	
22	Digital balance	Up to 3 – 5 kg with extra led display	5
23	Magnetic stirrer hotplate with stand	Electric, up to 2000 rpm, RT-100-300°C	1
24	Refrigerator	Medium size, 18-20 CFT	1
25	Deep Freezer	Vertical 11-14 CFT	1
26	UV-Visible spectrophotometer	Double beam spectrophotometer, Software, Smart USB, Wavelength range 190-1100nm, bandwidth 2nm, working model T, A,C,E, colored screen, connectivity to PC	1
27	Water distillation plant (electric)	SS, 5-liter capacity	1
28	Burners, Tripod stand, Wire Guaze	Bunsen burners, metal stands,	5
29	Electric water bath (06 holes)	6 holes with stoppers and digital display, metal	1
30	Barometer	Analogue	2
31	Micropipette	(10,100,1000 µl) Made in USA, UK, Germany or Equivalent	2+2+2
32	Micropipette tips	200µL, 300µL, 1000µL	2000 each
33	Micropipette tips, racks	200µL, 300µL, 1000µL	5 each
34	Stethoscope	Good quality	2
35	Sphygmomanometer (mercury)	Cuff size up to 40cm (adult), manual, mercury operated, mercury lock, metal casing, tabletop	1
36	Stopwatch	Digital	2
37	Microtome	Semiautomatic, adjustable retraction, motorized feed derived, finger protection guard, LCD Display, touchpad	1
38	Tank for paper chromatography	20 x 20 with lid, glass	1
39	Sterile culture swab sticks	Local (1×1000)	5
40	Inoculating wire loop	Local (1×1000)	5
41	Laminar flow hood (vertical)	HEPA filter, HEPA efficiency 99.99%, Fluorescent lamp and UV light, L× W× H= 54inch × 30inch × 78inch, total cabinet constructed in galvanized sheets with powder coating, SS base, With DOP test of filter, with base stand moveable, with front upper sash for protection	1
42	Dissection box	Good quality	10
43	Surgical gloves	Latex, box, good quality	5 boxes

BOTANY DEPARTMENT

Sr. #	Name of Items	Specification	Qty.
1	Digital Lux Meter	LCD Display, Photosensitive component: Si-light cell attached with light filter; Working temperature in 0-40°C, Storage temperature: -10-50°C Or Equivalent to best quality Made: USA/UK/China	1
2	Digital Temperature logger	Temperature range in air up to maximum Or Equivalent to best quality Made: USA/UK/China	1
3	Anemometer	Air Velocity Measurement, Temperature Measurement, Humidity Measurement, Heat index, Wind chill, Atmospheric pressure measurement Or Equivalent to best quality Made: USA/UK/China	1
4	Secchi Disc	300 mm (±10) in diameter with a 3.0 kg (±0.5) weight suspended below the center; Secchi Disc (Including Holding String) Or Equivalent to best quality Made: USA/UK/China	5
5	Soxhlet Apparatus	Quick fit +pipes (Pyrex) Or Equivalent to best quality Made: USA/UK/China	1
6	EC Meter	Electric Conductivity and TDS measurement, Calibration: 12.9mS/cm; Temperature compensation: 10.0 to 40.0°C; Power Supply: Two AAA alkaline batteries Or Equivalent to best quality Made: USA/UK/China	1
7	Chlorophyll Meter	Measurement subject: crop leaves; measurement method: optical density difference at 2 wavelengths; light source: 2 LED elements; Display: LCD panel showing 4-digit measurement value, memory capacity for upto 30 values, power source: 2 AA-size alkaline batteries; battery life maximum; warning buzzer, user compensation factor; standard accessories: depth stop, strap, 2-AA size alkaline batteries soft case, reading checker Or Equivalent to best quality Made: USA/UK/China	1
8	Leaf Thickness Meter	Measurement range: 0±6mm; Resolution: 0.01mm; Accuracy:0.015mm; Contact area: φ10mm; Pointed type Or Equivalent to best quality Made: USA/UK/China	1
9	Plant leaf Temperature Measuring Instrument	Measure range: 0~50°C Responding time: < 3s Resolution: 0.1°C Storage mode: SD Card Storage capacity: 2GBV Or Equivalent to best quality	1

		Made: USA/UK/China	
10	Automatic Seed Counter	Counting of small, middle and big samples Count precision: big and middle sample: 2/1000 small sample: 4/1000 Count speed: ≥ 1000 /3min; Count number range: 1-99999 Power: 220V 50HZ Continuous working time: ≥ 5 hours Or Equivalent to best quality Made: USA/UK/China	1
11	Grain Moisture Meter	Testing for moisture of grains, wheat, bean, vegetable seed, rape seed, corn Or Equivalent to best quality Made: USA/UK/China	1
12	Digital balance	Up to 3 – 5 kg with extra led display Or Equivalent to best quality Made: USA/UK/China	2
13	Sonicator with lid	SS, 3-3.3 litre capacity (digital display) Or Equivalent to best quality Made: USA/UK/China	1
14	Vacuum planting plates	Suitable for big partial seeds Or Equivalent to best quality Made: USA/UK/China	1
15	Germination Box	Big size Or Equivalent to best quality Made: USA/UK/China	20
16	Germination Box	Small size Or Equivalent to best quality Made: USA/UK/China	20
17	Seed Starter Tray	Material plastic with transparent lid can clearly see the growth of seedlings. With drain holes at bottom of each cell for proper drainage Or Equivalent to best quality Made: USA/UK/China	20
18	Soil Nutrient Analyzer	Quickly test N, P, K, pH, salinity, organic matter in Soil, fertilizer Or Equivalent to best quality Made: USA/UK/China	1
19	Soil Acidometer	Test depth: 6cm, suitable for the surface acidic testing Or Equivalent to best quality Made: USA/UK/China	1
20	Soil Salinity Meter	Directly test and display Soil Salinity Or Equivalent to best quality Made: USA/UK/China	1
21	Chlorophyll meter	Chlorophyll content and temperature measurement without damaging to leaves, basic type, Li-ion battery, LCD Backlight display with software Or Equivalent to best quality Made: USA/UK/China	1
22	Soil Tension meter	Measurement of up to 15cm Or Equivalent to best quality Or Equivalent to best quality	1

		Made: USA/UK/China	
23	Seedling Tray	Standard size, material plastic with drain holes at bottom of each cell for proper drainage Or Equivalent to best quality Made: USA/UK/China	100
24	Soil Tension meter	Measurement of up to 30cm Or Equivalent to best quality Made: USA/UK/China	1
25	Soil Tension meter	Measurement of up to 40cm Or Equivalent to best quality Made: USA/UK/China	1
26	Soil Tension meter	Measurement of up to 60cm Or Equivalent to best quality Made: USA/UK/China	1
27	Soil volume-weight meter	Testing of soil volume weight Or Equivalent to best quality Made: USA/UK/China	1
28	Soil Driller/Sampler	1 meter; Pointed head; Three modes: 1m, 1.5m, 2m Or Equivalent to best quality Made: USA/UK/China	1
29	Portable plant nutrition analyzer	Testing of (Nitrogen, chlorophyll, moisture percentage and temperature in the leaf at the same time; connect to PC for data output and transmission; Li-ion battery; LCD backlight display Or Equivalent to best quality Made: USA/UK/China	1
30	Deep freezer	Vertical 11-14 CFT Or Equivalent to best quality Or Equivalent to best quality Made: USA/UK/China	2
31	Digital USB Microscope	Magnification 400X-1600X, Portable with USB cable connection interface with DC 5V, LED illumination system up to 30000 LUX, snapshot/video capture built-in Or Equivalent to best quality Made: USA/UK/China	10
32	Water distillation unit	SS, 5-liter capacity Or Equivalent to best quality Or Equivalent to best quality Made: USA/UK/China	1
33	Autoclave	20 – 30 L Capacity Desktop, Sterilization temperature 121°C-134°C, Net Weight 40-50Kg, Digital Display Or Equivalent to best quality Made: USA/UK/China	1
34	Laminar flow hood (horizontal)	HEPA filter, HEPA efficiency 99.99%, Fluorescent lamp and UV light, total cabinet constructed in galvanized sheets with powder coating, SS base, With DOP test of filter, with base stand moveable, with front upper sash for protection Or Equivalent to best quality Made: USA/UK/China	1

35	Refrigerator	Medium size, 18-20 CFT Or Equivalent to best quality Made: USA/UK/China	1
36	UV-Visible spectrophotometer	Double beam spectrophotometer, Software, Smart USB, Wavelength range 190-1100nm, bandwidth 2nm, working mode T,A,C,E, colored screen, connectivity to PC Or Equivalent to best quality Made: USA/UK/China	1
37	TDS Apparatus	Measurement ranges TDS and Temperature: 0 – 200 ppm, 0 – 2.000 ppt; TDS Cell, Operation Manual, Cell Stand, Dust Cover, 12V Adapter and Temperature Or Equivalent to best quality Made: USA/UK/China	1
38	Turbidity Meter	Turbidity measuring range of not less than 0-1000 NTU (potentially 0-2000 NTU). Accuracy: $\pm 2.5\%$ of reading or ± 0.01 NTU (0 - 500 NTU) Or Equivalent to best quality Made: USA/UK/China	1
39	Hygrometer	Measurement in 0-100 % RH-30-100 °C; Measurement rate in seconds; LCD display; quick response time in seconds; Auto offset after minimum time of inactivity Or Equivalent to best quality Made: USA/UK/China	1
40	Benchtop orbital shaker	Oscillator with Anti-Slip Pad, Adjustable Speed at 0-210rpm, 110V Or Equivalent to best quality Made: USA/UK/China	1
41	Electric water bath (06 holes)	Reservoir Capacity in Litter, Electric water bath (06 holes) 06 holes with stoppers and digital display, metal Or Equivalent to best quality Made: USA/UK/China	2
42	Tank for paper chromatography	20 x 20 with lid, glass Or Equivalent to best quality Made: USA/UK/China	20
43	Portable Dissolved Oxygen Meter	Measurement range of O ₂ in 0.00 to 45.00 mg/L %, Calibration automatic Or Equivalent to best quality Made: USA/UK/China	1
44	Magnetic Stirrer with hot plate and stand	Electric, upto 2000 rpm, RT-100-300°C Or Equivalent to best quality Made: USA/UK/China	1
45	Hydrometer	280mm long for use in Soil Analysis. Adjusted at 68°F Or Equivalent to best quality Made: USA/UK/China	1
46	Quadrats	25 cm ² , 50 cm ² , 1 m ² area Or Equivalent to best quality Made: USA/UK/China	1 each size (3)
47	Liquid Nitrogen Cylinder	Stainless Steel; Cylinder Capacity: 150-500 Liters; Pressure: 6.89 Mpa; Temperature range 150 – 200, Good Quality	1

		material Or Equivalent to best quality Made: USA/UK/China	
48	Pipette	Measuring range 0.2-2 μ l, random maximum error ≤ 0.014 μ l, Or Equivalent to best quality Made: USA/France/China	2
49	Pipette	Measuring range 1-10 μ l, Accuracy ± 0.04 μ l, Or Equivalent to best quality Made: USA/France/China	2
50	Pipette	Measuring range 2-20 μ l, random maximum error ≤ 0.060 μ l, Or Equivalent to best quality Made: USA/France/China	1
51	Pipette	Measuring range 10-100 μ l, Accuracy ± 0.15 μ l, Or Equivalent to best quality Made: USA/France/China	2
52	Pipette	Measuring range 20-200 μ l, random maximum error ≤ 0.3 μ l, Or Equivalent to best quality Made: USA/France/China	1
53	Pipette	Measuring range 100-1000 μ l, random maximum error ≤ 1.5 μ l, Or Equivalent to best quality Made: USA/France/China	1
54	Micropipette tips	2 μ L, 10 μ L, 20 μ L, 100 μ L, 200 μ L, 1000 μ L Or Equivalent to best quality Made: USA/France/China	2 Boxes of each(12)
55	Portable pH Meter	Measuring range in 0.0 to 14.0 pH, Accuracy: ± 0.1 pH, Calibration manual, Battery Type; Battery Life: 3 x 1.5V, alkaline Or Equivalent to best quality Made: USA/UK/China	1
56	Portable GPS Device	LCD display with best fit features Or Equivalent to best quality Made: USA/UK/China	1
57	Growth Chamber	Best fit growth area, Temperature Range: Lights off +4 $^{\circ}$ C to +45 $^{\circ}$ C, lights on +10 $^{\circ}$ C to +45 $^{\circ}$ C; programmable; Humidity: Not controlled, temperature dependent; Lighting: Intensity 350 micromoles/m ² /s., T8 fluorescent and incandescent lamps; programmable Or Equivalent to best quality Made: USA/UK/China	1
58	Magnifying Glass	Lens Size(mm): $\phi 38$; Overall Length(mm): 92; Lens Material: Glass Or Equivalent to best quality Made: USA/UK/China	2
59	Potometer	5.9" W x 3"D x 7.7"H; Capillary tube measures 100 x 1 mm Or Equivalent to best quality Made: USA/UK/China	2
60	Dissecting Microscopes	45-degree inclined eyepieces with diopter adjustment and	2

		interpupillary adjustment of 50mm to 75mm. Both top and bottom illumination, selectable using 12-volt, 10-watt tungsten bulbs. 110-volt operation (220 VAC also available, special order) Or Equivalent to best quality Made: USA/UK/China	
61	Microwave oven	Capacity (L): 25 L; Nominal Power microwave: 1000W Microwave Power levels: 6; Voltage / Frequency: 230V/50Hz; opening door: Handle Or Equivalent to best quality Made: USA/UK/China	2
62	Electrophoresis Apparatus	10 – 12 cm (Length) x 8 – 10 (Breadth) x 8 – 12 cm (Height), 5-10 samples, glass plate (10 x10 cm), comb capacity of 35µl -50µl and gel caster Or Equivalent to best quality Made: USA/UK/China	1
63	TLC Apparatus	Spreader (Applicator) made of Aluminum / electroplated brass; Perspex Base to support 5 glass plates of size: 20 x 20 cm and 2 plates of 20x5 cm; Plate Rack Aluminum for ten 20 x 20 cm plates; Spotting Tern plate Perspex; Developing tank with lid T.L.C. plates set 20 x 20 cm or 20 x 10 cm; Micro-pipette Scriber for making lines; Glass sprayer with rubber bellow Or Equivalent to best quality Made: USA/UK/China	1
64	Chromatography Column	Length: 15mm and 400mm each Or Equivalent to best quality Made: USA/UK/China	1
65	Multiwell plate	16, 24, 32, 48, 64 & 96-well standard microplate each Or Equivalent to best quality Made: USA/UK/China	1
66	Analytical Balance	0.001-300gm, fully automatic, digital display, High Precision, overload alarm, tare function Or Equivalent to best quality Made: USA/UK/China	4
67	Glass pipette pumps	Plastic material with regulator for suction Or Equivalent to best quality Made: USA/UK/China	10
68	Test tube Racks	Stainless steel, 12 holes Or Equivalent to best quality Made: USA/UK/China	20
69	Test tube holder	Wooden with iron clump for holding test tube for heating Or Equivalent to best quality Made: USA/UK/China	50
70	Dropper	Standard size, Plastic material	100

		Or Equivalent to best quality Made: USA/UK/China	
71	Wash bottles	Standard size, Plastic material with nozzle Or Equivalent to best quality Made: USA/UK/China	50
72	Vortex mixture	Minimum 2000rpm, spiral, Desktop, Continuous + touch Or Equivalent to best quality Made: USA/UK/China	2
73	Digital USB Microscope	Magnification 1X-500X, Portable with USB cable connection interface with DC 5V, LED illumination system up to 30000 LUX, snapshot/video capture built-in Or Equivalent to best quality Made: USA/UK/China	10

PHYSICS DEPARTMENT

Sr. #	Name of Items	Specification	Qty.
1	Viscosity of liquid by stokes method apparatus	Viscosity of liquid by stokes method apparatus, Steel ball diameter: 2.8mm, 2mm two. laser photoelectric timer range 99.9999s resolution 0.0001s; with calibration photoelectric gate position with the indicator. Holding the liquid to be measured cylinder specifications: 1000mL height of about 50cm. liquid viscosity coefficient measurement error: less than 3%. Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	1
2	Rotating System on Air Bed (230 V, 50/60 Hz (dependence of centripetal force on mass, radius and angular velocity of a body in circular motion apparatus)	1 Air bed 1 Rotating disc with cross bar 1 Multiple pulley 1 Release mechanism 2 S-shaped hooks 1.00g 1 S-shaped hook 2.00 g 1 Set of weights (2x 12.5 g, 2x 25 g, 2x 50 g) 1 Compressor for connection to mains 1 Silicon tubing with by-pass valve (not illustrated) 1 Pulley 1 Stand rod with 3 securing screws and 2 screws for levelling 1 Stand rod with 2 securing screws 1 Stand rod, 250 mm 1 Levelling disc 1 Roll of cotton thread 1 Large disc with protractor scale, 350 mm 1 Scaffold stand 1 Cross sleeve 1 Set of coupling springs with magnet (1 N, 2 N, 5 N),	1

		Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	
3	Digital Oscilloscope	2x30 MHz, Includes two probes, two BNC cables, pass/fail adapter, USB connecting cable, and software CD for Windows 2000/XP/VISTA/7/8/10. Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	1
4	Digital Oscilloscope	2x100 MHz, Includes two probes, two BNC cables, USB connecting cable, and software CD for Windows 2000/XP/VISTA/7/8/10. Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	1
5	Digital Multimeter	DMM60, DC voltage: 30.00 mV (10 μ V). 1000 V (1 V), 6 ranges $\pm 0.25\%$ ± 1 digit AC voltage: 3.000 V (1 mV). 1000 V (1 V), 4 ranges $\pm 0.75\%$ ± 1 digit Direct current: 300.0 μ A (100 nA).... 10.00 A (10 mA), 6 ranges $\pm 1.00\%$ ± 2 digits Alternating current: 3.000 mA (1 μ A).... 10.00 A (10 mA), 4 ranges $\pm 1.50\%$ ± 2 digits Resistance: 30.00 Ω (10 m Ω) 30.00 M Ω (10 k Ω), 7 ranges Capacitance: 30.00 nF (10 pF). ... 30.00 μ F (10 nF), 4 ranges Frequency: 300.0 Hz (0.1 Hz).... 100.0 kHz (100 Hz), 4 ranges, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	2
6	Critical potential by frank hertz method apparatus	Premium Franck-Hertz Experiment Heater (230 V, 50/60 Hz). Premium Franck-Hertz Experiment Power Supply (230 V, 50/60 Hz). Digital Oscilloscope, 2x30 MHz, Digital Multimeter, HF Patch Cord, HF Patch Cord, BNC, Set of 15 Safety Experiment Leads, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	1
7	Milikan's oil drop method apparatus	Basic apparatus with experiment chamber and display unit 1 Measuring microscope 1 Oil atomiser 50 ml of oil for Millikan's apparatus 1 Plug-in power supply, 12 VAC, 1 A, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	1
8	Hall effect for metals. Hall coefficient Copper +Zinc apparatus	Copper Sample for Hall Effect, Zinc Sample for Hall Effect, Coil D with 600 Turns (2Nos), DC Power Supply 0 - 16 V, 0 - 20 A, DC Power Supply 20 V, 5 A (230 V, 50/60 Hz), Digital Multimeter, Measurement Amplifier U (230 V, 50/60 Hz), Pair of Pole Shoes and Clamping Brackets D for Hall Effect, Set of 15 Safety Experiment Leads, Teslameter E, Combined Holder for Hall Effect, U Core D, Flexible Magnetic Field Sensor, Pair of Experiment Leads, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	1
9	Michelson & Fabry-	Description Specifications	1

	Perot Interferometer	Flatness of Beam Splitter and Compensator 0.1 λ Coarse Travel of Mirror 10 mm Fine Travel of Mirror 0.25 mm Fine Travel Resolution 0.5 μ m Fabry-Perot Mirrors 30 mm (dia), R=95% Wavelength Measurement Accuracy Relative error: 2% for 100 fringes Dimension 500×350×245 mm Sodium-Tungsten Lamp Sodium lamp: 20 W; Tungsten lamp: 30 W adjustable He-Ne Laser Power: 0.7~ 1 mW; Wavelength: 632.8 nm Air Chamber with Gauge Chamber length: 80 mm; Pressure range: 0-40 kPa, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	
10	High Voltage Power Supply 5 kV (230 V, 50/60 Hz)	High voltage output: 0-5000 V DC, max. 2 mA, max. 5 W Heater voltage output: 6.3 V AC, max. 3 A High voltage resistant up to 6 kV, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	1
11	Digital magnetic stirrer with glassceramic plate	Digital magnetic stirrer with glass ceramic plate, 20l, heated, Voltage 200-240 V Power 1050 W max. Stirring quantity 20 l H ₂ O Stirrer bar max. 80 mm Stirring positions 1 Plate ϕ 184 x 184 mm Plate Material Glaskeramik Speed 100-1500 Speed control analog Temp. range RT-550, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	1
12	Vacuum Oven	1. Programmable temperature controller 2. Built-in Printer 3. RS485 Connector 4. Inert gas inlet valve 5. Large vacuum pump Volume 54L Temperature Fluctuation $\pm 1^\circ$ C Display Resolution 0.1 $^\circ$ C Vacuum Degree <133 Pa Power Supply AC 110/220V $\pm 10\%$, 50/60Hz Temperature Range RT+10~250 $^\circ$ C Internal Size (W*D*H) min. 420*350*370mm External Size (W*D*H) min. 710*590*530mm, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	1
13	Fume Hood	Ductless Fume Hood, 6x4 ft With electricity, water and gas connection, Make: Pakistan, Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent	1
14	Analytical Balance	Capacity [Max] 220g Resolution [d] 0,1mg Calibration Automatic internal Pan size ϕ 80 mm Response time (sec.) ≤ 4 Linearity $\pm 0,0003$ g Repeatability 0,1mg	1

		<p>Verification N/A Minimum Load 10 mg Display TOUCH-SCREEN 5" Tare Range (Subtractive) 220 g Span Drift In +10...+30°C ± 3 ppm/°C Interface RS232 Database Capacity 3000 Windshield Type And Dimensions 3 sliding windows / 162x171x225 mm Working Temperature 5 - 35°C (15-30°C for verified models) Power Supply 110-230Vac. 50/60Hz, output 24V 500mA 13VA, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent</p>	
15	Water Distillation Equipment (Glass)	<p>Distillate output 4 litres per hour, single distilled Water Supply Requirement 1 litre / min (Min pressure 3 p.s.i) (0.2 x 105 NM-2)pH 5.0 to 6.5 Conductivity 3.0 to 4.0 µs/cm Temperature 35 to 50 °C Pyrogen Content Pyrogen free, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent</p>	1
16	Digital Ultrasonic Cleaner	<p>Capacity: 0.6 – 4.5L Ultrasonic Freq : 40KHz Digital LED display Time setting with 1-30M, UP to 80°C, Ultrasonic Power(W)-Max: 180 Heating Power(W)-Max: 200 Capacity (L)-Max: 4.5L Tank Size(L*W*H)-mm min: 300*150*100, Make: Italy, China, Malaysia, USA, UK, Germany, Canada Japan or equivalent</p>	1

Note: Partial Bidding is allowed. Financial Proposal/Technical Proposal will be evaluated on the basis of One person One Bid in terms of Rule 36A (PPRA Rules 2014). No serial # or item name will be changed in the financial proposal. The bidder will quote per unit rate with GST and Total amount with GST as per given serial number/item name in the bidding documents. The bidder will follow the bidding documents in letter and spirit.

Annexure- A Technical Proposal Covering Letter

To

The Convener,
Central Purchase Committee,
University of Chakwal,
Chakwal.

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** 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	<i>Envelope A</i>
3	Financial Proposal	<i>Envelope B</i>
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	Covering Letter		
2	Copy of Income Tax Registration Certificate		
3	Copy of Sales Tax Registration Certificate		
4	Affidavit/Undertaking on the Stamp Paper		
5	Specifications of quoted items on the Letter Head of the bidder		
6	Two Supply Orders for supply of relevant items received in the past		
7	The specified catalogues / brochures 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	
8	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 Form duly filled, signed and stamped by the bidder		
2	Price Schedule Form duly filled, signed and stamped by the bidder		
3	Bid Security in shape of Bank Draft, Pay Order or CDR.		

Annexure- C Bid Form

A) Profile of the Bidder:

S#	Particulars	BIDDER
1	Name of the Company	
<u>2</u>	Year of Incorporation	
<u>3</u>	Registered Office	
	Address	
	Office Telephone Number	
	Fax Number	
<u>4</u>	Contact Person	
	Name of Authorized Representative	
	Personal Telephone Number	
	Email Address	
<u>5</u>	Registration Detail	
	NTN Registration Number	
	GST Registration Number	

B) Bid Security (Please do not mention amount of CDR)

S#	Particulars	Please Furnish Details
1	Name of the Bank	
2	Instrument Number and Date	

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

Ref: **Tender No. 02/2023**

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 Purchase Committee of University of Chakwal is not bound to accept the lowest or any of the bids received. We also agree that the Purchase 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 Form
(to be attached with Financial Proposal)

To

The Convener,
Central Purchase Committee,
University of Chakwal,
Chakwal.

Dear Sir,

With Reference to your Tender No.02/2023 OF PURCHASE OF LABORATORY ITEMS FOR CHEMISTRY, PHYSICS, BOTANY AND ZOOLOGY LABS; Please find attached our Financial Proposal for the sum of Rs. (insert amount in words and figures)_. This amount is inclusive of all taxes.

We have attached the Bid Security of amount Rs.632,000/- (Rupees six hundred thirty two thousand Only) having CDR, Demand Draft, Pay Order No. along with our Financial Bid.

Yours sincerely,
Authorized Signature

Annexure- F Price Schedule

(Please attach this page along with Financial Bid or quote rates on the Letter Head of the Bidder)

LABORATORY ITEMS**CHEMISTRY DEPARTMENT**

Sr.#	Name of Items	Specifications	Qty.	Unit Price with GST	Total Amount with GST
1	Digital Analytical weighing balance		2		
2	Digital Heating Vacuum oven		2		
3	TLC tank		2		
4	TLC plates		3 packs		
5	Tank for Paper Chromatography		2		
6	Digital Thermostat Shaker		1		
7	UV/Visible Spectrophotometer (Dual beam)		1		
8	pH- meter		2		
9	Abbe Refractometer		2		
10	Compound Microscope		3		
11	Vacuum Pump		2		
12	Water Distillation		1		

	Assembly				
13	Stalagmometer		20		
14	Calorimeter		2		
15	Potentiometer		1		
16	Refrigerator with Stabilizer		2		
17	Fume hood		2		
18	Melting Point Apparatus		3		
19	UV Lamp		1		
20	Sonicator		2		
21	Silica beads for desiccator		5 kg		
22	Heating Gun		2		
23	Thermometer		50		
24	Centrifugation Machine		1		
25	Viscometer		1		
26	Polarimeter		1		
27	Heating Mantle		1		
28	Digital Muffle Furnace		1		
29	Autoclave		4		
30	Micropipettes with tips		3		
31	Mortar Pestle		2		
32	Benchtop Total Dissolved Solids Meter		1		
33	First aid box		2		

34	Fire extinguisher		3		
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ZOOLOGY DEPARTMENT

Sr. #	Name of Items	Specifications	Qty.	Unit Price with GST	Total Amount with GST
1	Stereo Microscope		1		
2	Chemical Analyzer/ Biochemical system		1		
3	Gel electrophoresis system, with computer system		1		
4	Binoculars		2		
5	Water distillation plant		1		
6	Respirometer		1		
7	Vortex mixer		1		
8	Digital Camera		1		
9	Hemocytometer		3		
10	Mercury Blood Pressure Set		1		
11	Blood Glucose Monitoring System		1		
12	pH Meter benchtop type		1		
13	Soxhlet Apparatus for Fat		1		
14	Microwave oven		1		
15	First Aid Kit		1		
16	Blood Lancet		30		

	Needles for Blood Sugar Test-Round				
17	BP Apparatus		1		
18	Analytical balance		1		
19	Autoclave		1		
20	Centrifuge machines		1		
21	Compound microscope		4		
22	Digital balance		5		
23	Magnetic stirrer hotplate with stand		1		
24	Refrigerator		1		
25	Deep Freezer		1		
26	UV-Visible spectrophotometer		1		
27	Water distillation plant (electric)		1		
28	Burners, Tripod stand, Wire Gauze		5		
29	Electric water bath (06 holes)		1		
30	Barometer		2		
31	Micropipette		2+2 +2		
32	Micropipette tips		2000 each		
33	Micropipette tips, racks		5 each		
34	Stethoscope		2		
35	Sphygmomanometer (mercury)		1		
36	Stopwatch		2		
37	Microtome		1		
38	Tank for		1		

	paper chromatography				
39	Sterile culture swab sticks		5		
40	Inoculating wire loop		5		
41	Laminar flow hood (vertical)		1		
42	Dissection box		10		
43	Surgical gloves		5 boxes		

BOTANY DEPARTMENT

Sr. #	Name of Items	Specifications	Qty.	Unit Price with GST	Total Amount with GST
1	Digital Lux Meter		1		
2	Digital Temperature logger		1		
3	Anemometer		1		
4	Secchi Disc		5		
5	Soxhlet Apparatus		1		
6	EC Meter		1		
7	Chlorophyll Meter		1		
8	Leaf Thickness Meter		1		
9	Plant leaf Temperature Measuring Instrument		1		
10	Automatic Seed Counter		1		
11	Grain Moisture Meter		1		
12	Digital		2		

	balance				
13	Sonicator with lid		1		
14	Vacuum planting plates		1		
15	Germination Box		20		
16	Germination Box		20		
17	Seed Starter Tray		20		
18	Soil Nutrient Analyzer		1		
19	Soil Acidometer		1		
20	Soil Salinity Meter		1		
21	Chlorophyll meter		1		
22	Soil Tension meter		1		
23	Seedling Tray		100		
24	Soil Tension meter		1		
25	Soil Tension meter		1		
26	Soil Tension meter		1		
27	Soil volume-weight meter		1		
28	Soil Driller/Sampler		1		
29	Portable plant nutrition analyzer		1		
30	Deep freezer		1		
31	Digital USB		10		

	Microscope				
32	Water distillation unit		1		
33	Autoclave		1		
34	Laminar flow hood (horizontal)		1		
35	Refrigerator		1		
36	UV-Visible spectrophotometer		1		
37	TDS Apparatus		1		
38	Turbidity Meter		1		
39	Hygrometer		1		
40	Benchtop orbital shaker		1		
41	Electric water bath (06 holes)		2		
42	Tank for paper chromatography		20		
43	Portable Dissolved Oxygen Meter		1		
44	Magnetic Stirrer with hot plate and stand		1		
45	Hydrometer		1		
46	Quadrats		1 of each size (3)		
47	Liquid Nitrogen Cylinder		1		
48	Pipette		2		
49	Pipette		2		
50	Pipette		1		
51	Pipette		2		
52	Pipette		1		
53	Pipette		1		

54	Micropipette tips		2 boxes of each (12)		
55	Portable pH Meter		1		
56	Portable GPS Device		1		
57	Growth Chamber		1		
58	Magnifying Glass		2		
59	Potometer		2		
60	Dissecting Microscopes		2		
61	Microwave oven		2		
62	Electrophoresis Apparatus		1		
63	TLC Apparatus		1		
64	Chromatography Column		1		
65	Multiwell plate		1		
66	Analytical Balance		4		
67	Glass pipette pumps		10		
68	Test tube Racks		20		
69	Test tube holder		50		
70	Dropper		100		
71	Wash bottles		50		
72	Vortex mixture		2		
73	Digital USB Microscope		10		

PHYSICS DEPARTMENT

Sr. #	Name of Items	Specifications	Qty.	Unit Price with GST	Total Amount with GST
1	Viscosity of liquid by stokes method apparatus		1		
2	Rotating Systemon Air Bed (230 V,50/60 Hz (dependence of centripetal force on mass, radius and angular velocity of a body in circularmotion apparatus)		1		
3	Digital Oscilloscope		1		
4	Digital Oscilloscope		1		
5	Digital Multimeter		2		
6	Critical potentialby frank hertz method apparatus		1		
7	Milikan's oil drop method apparatus		1		
8	Hall effect for metals. Hall coefficient Copper +Zinc apparatus		1		
9	Michelson & Fabry-Perot Interferometer		1		

10	High Voltage Power Supply 5 kV (230 V, 50/60 Hz)		1		
11	Digital magnetic stirrer with glassceramic plate		1		
12	Vacuum Oven		1		
13	Fume Hood		1		
14	Analytical Balance		1		
15	Water Distillation Equipment (Glass)		1		
16	Digital Ultrasonic Cleaner		1		

Annexure- G Contract Agreement Form

THIS AGREEMENT made the [day] day of [month] [year] between [University of Chakwal] (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 (Supply of Applied Geology Laboratory Equipment) 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
 - iii- Performance Guarantee equal to 10% of Contract Price in shape of CDR, Demand Draft or Pay Order.
- 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 the 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 University of Chakwal

For the Supplier:

Signature

Print Name

Title