

**Tender No. 07/2025**

**THE UNIVERSITY OF CHAKWAL,  
CHAKWAL**



**TENDER DOCUMENT**

**For**

**PURCHASE OF CHEMICAL & GLASSWARE**

**Deputy Director (P&S)  
Directorate of Purchase and Store  
Ph. No.: 0543-552511  
Email: [dd.procurement@uoc.edu.pk](mailto:dd.procurement@uoc.edu.pk)**

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# THE UNIVERSITY OF CHAKWAL

Directorate of Purchase and Store  
Main Campus, Talagang Road, Chakwal

## **Tender Notice**

Sealed tenders/ bids are invited from the registered firms / companies / corporations / bidders 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	Package No.	Budgetary Amount	Amount of Bid Security	QTY
07/2025	Purchase of Chemical & Glassware	01	9.56 million	191,200/-	Details in Tender Document

- Tender Document will be available immediately after publishing of this Tender Notice under Rule No. 25(1).
- Tender/Bid Document is available on [www.uoc.edu.pk](http://www.uoc.edu.pk) or [www.eproc.punjab.gov.pk](http://www.eproc.punjab.gov.pk) or e-PADS (e-Pak Acquisition & Disposal System) <https://punjab.eprocure.gov.pk> free of cost.
- The Bid Security which is equal to 2% of Budgeted Cost, in the form of “CDR / Bank Draft / Pay Order” in favor of “Treasurer, University of Chakwal” and Affidavits demanded in tender documents shall be provided by the bidders before the closing time. A scanned copy of the Bid Security must be uploaded in PDF format without which the offer shall be rejected as 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.
- Bids should be submitted thorough e-PADS (e-Pak Acquisition & Disposal System), and the same should be opened online as per mentioned schedule in the presence of Bidders or their representatives. Late bid shall not be accepted by the online system. Bidders shall also submit hard copy of the original bid security/Affidavits in the Directorate of Purchase and Store, University of Chakwal before opening the technical bids.
- The University reserves 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.
- The URL of the website of the PPRA is (<http://eproc.punjab.gov.pk/ViewTender.aspx>) and response time shall be calculated exclusively from the date of publication of the advertisement on the website of the PPRA. Tender Closing Date & Time is **05.03.2026** at **01:00 PM** and Opening Date & Time is **05.03.2026** at **01:30 PM**.
- For obtaining any further information or clarifications, please contact below:

**DEPUTY DIRECTOR (P&S)**

**Tel: 0543-552511**

**Email: [dd.procurement@uoc.edu.pk](mailto:dd.procurement@uoc.edu.pk)**

## **1. Invitation To the Bid**

- 1.1.** Bids/Tenders are invited for **PURCHASE OF CHEMICAL & GLASSWARE** from Sales Tax and Income Tax Registered firms.

## **2. Instructions to the Bidders**

- 2.1.** Procurement will be made under Punjab Procurement Rules 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 / 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.
- 2.4.** 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 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.
- 2.5.** No supporting document will be accepted, at all, after opening of the Technical Bids.
- 2.6. Mode of Advertisement:**  
As per Rule 12(2) of PPRA 2014 amended up to date, the tender has been published on [www.uoc.edu.pk](http://www.uoc.edu.pk), on the website of PPRA Punjab [www.eproc.punjab.gov.pk](http://www.eproc.punjab.gov.pk) and e-PADS (e-Pak Acquisition & Disposal System) <https://punjab.eprocure.gov.pk>.
- 2.7. Type of Open Competitive Bidding**
- 2.7.1.** As per Rule No. 38(2) a, single stage two envelope procedure shall be followed.
- 2.7.2.** 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;
- 2.7.3.** The financial proposals of technically qualified bidders shall be opened publicly online at a time, and venue announced and communicated to the bidders through e-PADS or by

other way etc.

- 2.7.4.** After the evaluation of the technical proposals 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 through e-PADS. The financial proposal of bids found technically non-responsive shall be rejected or responded through e-PADS automatically to the respective bidders.

## 2.8. **Bid Data Sheet (Information for the Bidders)**

1	Procuring Agency	The University of Chakwal
2	Tender Number	07/2025
3	Name of Tender	<b>PURCHASE OF CHEMICAL &amp; GLASSWARE</b>
4	Tender Document available place	Tender/Bid Document can available on <a href="http://www.uoc.edu.pk">www.uoc.edu.pk</a> or <a href="http://www.eproc.punjab.gov.pk">www.eproc.punjab.gov.pk</a> or e-PADS (e-Pak Acquisition & Disposal System) <a href="https://punjab.eprocure.gov.pk">https://punjab.eprocure.gov.pk</a> .
5	Bid Security	Amount mentioned in Clause No. 9 of the Tender Document in shape of CDR, Pay Order, Bank Draft etc., in favor of, Treasurer University of Chakwal, Chakwal”
6	Performance Guarantee	10% of Contract Value after acceptance of Intent online through e-PADS etc.
7	Tender Addressed to	Directorate of Purchase & Store (P&S), University of Chakwal.
8	Contact Number	Ph. 0543-552511
9	Due date, time and place of submission of Tender Document	<b>05-03-2026 till 01:00 PM</b> Through e-PADS (e-Pak Acquisition & Disposal System) <a href="https://punjab.eprocure.gov.pk">https://punjab.eprocure.gov.pk</a> .
10	Date, time and place of Technical Bid Opening	<b>05-03-2026 till 01:30 PM at Directorate of Purchase &amp; Store (P&amp;S),</b> University of Chakwal (Main Campus), Main Talagang Road, Chakwal through e-PADS (e-Pak Acquisition & Disposal System) <a href="https://punjab.eprocure.gov.pk">https://punjab.eprocure.gov.pk</a> .
11	Date, time and place of the Financial Proposals	Shall be intimated subsequently to Technically Qualified firms through e-PADS or by other way etc.

## **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.
- 3.10.** "e-PADS" means e-Pak Acquisition & Disposal System.

### **4. Responsiveness of Bid**

- 4.1.** Conforms to the clause of "Responsiveness of Bid" given in this tender document;



## **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/Evaluation 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, 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:

<b>Item Name</b>	<b>Budgetary Amount</b>	<b>Amount of Bid Security</b>
<b>CHEMICAL &amp; GLASSWARE</b>	9.56 million	191,200/-

- 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 Intent of the Bid; or
  - b) Fails to furnish Performance Security.

## **10. Bid Preparation and Submission of e-bids**

- 10.1 An e-bid or proposal shall be submitted on the e-PADS in the manner or method as specified in the advertisement before, closing date for submission, such e-bid or proposal.
- 10.2 The bidder shall be allowed to alter or modify his e-bid or proposal before the closing date 'for submission of the e-bid or proposal through e-PADS.
- 10.3 The bidder shall complete and authenticate his e-bid or, proposal and submit it within time. In case e-bid or proposal including entries and record submitted on the e-PADS found corrupt, unreadable or contains virus the e-bid or proposal shall be rejected.
- 10.4 The bidder shall submit hard copy of the financial Instrument in addition to the soft copy uploaded on the e PADS as bid security in pdf format. The bid security shall only be released' upon the' hard copy.
- 10.5 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.
- 10.6 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 through e-PADS.

## **11. Technical Proposal**

The Technical Proposal will enable the Purchase/Technical/Evaluation 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 through automated

system of e-PADS.

- 11.1.** The Technical Proposal form as given in the Bid/Tender Document shall be filled, signed and stamped in all pages. The Purchase/Evaluation Committee will not be responsible for the errors committed in the bids by the bidders.
- 11.2.** The Technical Proposal should not strictly contain any Price/Cost indications as such otherwise the bids will be summarily rejected.
- 11.3.** The Bidder should quote only one brand/model/make of each item.
- 11.4. Detail and Order of Documents to be furnished with the technical proposal (through e-PADS in pdf format):**

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/annexed in the following order:

- 11.4.1.** Covering letter (***Annexure-A***) duly signed and stamped by authorized representative.
- 11.4.2.** Copy of Income Tax Registration Certificate (***Annexure-B***).
- 11.4.3.** Copy of Sales Tax Registration Certificate (***Annexure-C***).
- 11.4.4.** Copy of Professional Tax Challan (***Annexure-D***).
- 11.4.5.** Detailed specification of items (***Annexure-E***).
- 11.4.6.** Affidavit/Undertaking on Stamp Paper (***Annexure-F***).

## **12. Announcement of Technical Evaluation Report**

The UOC shall announce the results of technical evaluation in the form of a report giving justification for acceptance or rejection of bids at least five days prior to the opening of financial proposal. The report shall be made available on PPRA website / e-PADS and all the bidders shall be informed of this.

## **13. Financial Proposal**

- 13.1.** 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.
- 13.2.** 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.
- 13.3.** Financial 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 all applicable taxes and total amount with taxes as per given serial number/item name in the bidding documents. The bidder will follow the bidding documents in letter and spirit.

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

**13.5. Details to be furnished with financial proposal (through e-PADS)**

**13.5.1.** Financial Proposal Covering Letter (**Annexure G**).

**13.5.2.** Financial Proposal Form duly filled, signed and stamped by the Bidder (**Annexure H**).

**13.5.3.** Copy of Bid Security CDR.

**13.6. Bids through e-PADS**

**13.6.1.** The Technical Proposal and Financial Proposal in each respect as per PRRA 2014 amended up to date shall be completed in step wise as per requirement of the e-PADS system and the procuring agency will not be responsible for the mistake of the bidders if any.

**13.7. Mode of Submission of Bids**

**13.7.1.** The Bids must be submitted through the mode of e-PADS (e-Pak Acquisition & Disposal System)  
<https://punjab.eprocure.gov.pk>

## **14. Modification/Withdrawal of the Tender**

**14.1.** The bidder shall be allowed to alter or modify his e-bid or proposal before the closing date for submission of the e-bid or proposal. No Bid may be modified after the deadline for submission of Bids through e-PADS.

**14.2.** 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.

## **15. Bid Opening**

**15.1. Technical Proposal Opening**

The Technical Proposals will be opened by the Purchase/Evaluation Committee of University of Chakwal on the date and time as specified in the Tender Notice /Bid Data Sheet through online system of e-PADS. 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.

### **15.2. Suppression of facts and misleading information**

**15.2.1.** During the bid evaluation, if any suppression or misrepresentation of information is brought to the notice of the Purchase Committee, the Committee shall have the right to reject the Bid and if it happens so after selection of the Bidder, the Purchase/Evaluation 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.

**15.2.2.** 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 Purchase Committee failing which the Bid may be rejected.

## **16. Preliminary Examination**

**16.1.** 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.

**16.2.** 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.

## **17. Determination of Responsiveness of the Bid**

**17.1.** 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:

**17.1.1.** meets eligibility criteria for the Bidder / the Goods / the Services;

**17.1.2.** meets all the mandatory requirements of the evaluation criteria;

**17.1.3.** meets the Technical Specifications for the Goods / the

- Services;
- 17.1.4.** meets the delivery period / point for the Goods / the Services;
  - 17.1.5.** is accompanied by the required Bid Security;
  - 17.1.6.** is otherwise complete and generally in order;
  - 17.1.7.** Conforms to all terms and conditions of the Tender Document, without material deviation or reservation;
  - 17.1.8.** which offers one Brand/Model/Make for each item (which does not contain any option);
- 17.2.** 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.
- 17.3.** 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.

## 18. Technical Evaluation Criteria

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:

Qualification Criteria			Requirement
Sales Tax Registration Certificate			<b>Mandatory</b>
Income Tax Registration Certificate			<b>Mandatory</b>
Professional Tax Certificate (2025-26)			<b>Mandatory</b>
Conformance to the required specification of items given in Schedule of Requirement			<b>Mandatory</b>
Affidavit /Bidder's undertaking on judicial stamp paper amount Rs. 300/- (as per PUNJAB THE STAMP ACT, 1899 upto date) that the firm/company is not involved in any fraudulent practices and is not currently black listed on PPRA.			<b>Mandatory</b>
Bid Evaluation Criteria			
S. No.	Item Name and Description	Marks	Maximum Marks
<b>1</b>	<b>Past Performance of the Bidder</b>	--	<b>10</b>
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	--
<b>2</b>	<b>Relevant Experience</b>	--	<b>10</b>
2.1	1 - 5 year experience	4	--
2.2	6 - 10 year experience	6	--
2.3	11 & above year experience	10	--
<b>3</b>	<b>Financial Position/ Status</b>	--	<b>10</b>
3.1	Last sales tax paid Form	4	--
3.2	Bank Certificate (satisfactory)	2	--
3.3	Statement Worth (Min 2 million)	4	--
<b>4</b>	<b>Technical Evaluation of quoted items</b>	--	<b>70</b>
4.1	Specifications as per Schedule Requirements	50	
4.2	Three relevant supply orders of delivered items	20	
<b>TOTAL</b>		<b>--</b>	<b>100</b>

The bidder must provide Verifiable documentary proof against all the mandatory requirement along with the technical evaluation criteria and no document will be received or considered after opening of the Technical Proposal through e-PADS. The Qualifying marks are sixty five (65) in the technical. Conformance to the required specification of items given in Schedule of Requirement will be evaluated by the Evaluation Committee/Technical Committee.

The Evaluation Committee or Technical Evaluation Committee may ask

for physical Demonstration or samples of any item given in the Tender Document for confirmation of specifications if needed.

## **19. Financial Proposal Evaluation**

- 19.1.** Technically qualified/successful bidder(s)/Tenderer(s) shall be intimated through e-PADS or any other way etc. 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 in the Directorate of Purchase and Store. The technically Eligible/Successful Bidder(s)/Tenderer(s) or their authorized representatives against shall be allowed to take part in the Financial Proposal(s) opening against their relevant Lot(s) or items.
- 19.2.** Financial Proposal evaluation will be conducted under the Punjab Procurement Rules, 2014 amended up to date. The Price evaluation will include all duties, taxes, freight, carriage 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 with documented proof.
- 19.3.** Financial 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.

## **20. Rejection and Acceptance of the Tender/Bid**

- 20.1.** The Purchaser shall have the right, 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.
- 20.2. The Tender / bid shall be rejected if:**
- 20.2.1.** It is substantially non-responsive; or
- 20.2.2.** The bidder does not meet any of the mandatory criteria mentioned in tender documents; or



- 20.2.3.** It does not contain the documentary proof against any of the mandatory criteria mentioned in Clause No. 15; or
- 20.2.4. The bid is incomplete, conditional, alternative, late; or**
- 20.2.5.** the bidder does not attach Bid Security in Shape of Demand Draft, Pay Order, CDR; or
- 20.2.6.** the bid security is not attached or it is less than the required amount; or
- 20.2.7.** the Bidder submits more than one Bids against one Tender; or
- 20.2.8.** the Bidder tries to influence the Purchase/Evaluation Committee Contract award; or
- 20.2.9.** the Bidder engages in corrupt or fraudulent practices in competing for the Contract award; or
- 20.2.10.** 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
- 20.2.11.** the Bidder submits any financial conditions as part of its bid which are not in conformity with tender document. No conditional offer will be accepted. Conditional offer can be rejected at any stage of the tender/process etc.
- 20.2.12.** if the bidder not obey the process of e-PADS as per PPRA.

## **21. Contacting the Procuring Agency**

- 21.1.** No Bidder shall contact the Purchase/Evaluation Committee of UOC on any matter relating to its bid, from the time of the bid opening or to the time the Contract is awarded.
- 21.2.** 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.

## **22. Announcement of Final Evaluation Reports**

**22.1.** 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 e-PADS (e-Pak Acquisition & Disposal System) and all the bidders shall be informed of this.

## **23. Award of Contract**

**23.1.** The Tender will be awarded to the Lowest Evaluated Bidder in item wise who have been declared Technically Qualified while considering the technical nature of procurement.

## **24. Letter Of Intent (LOI)**

**24.1.** After acceptance of the Bids by the Evaluation Committee, Letter of Intent (LOI) will be issued only to the Successful Bidder(s) through e-PADS (e-Pak Acquisition & Disposal System).

## **25. Payment of Performance Guarantee (PG)**

**25.1.** The Successful Bidder(s) will be required to submit 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) or Pay Order or Demand Draft. The PG should also be paid by way of Bank Guarantee (original issued by the authorized bank) in terms of PPRA Rules in favor of “**Treasurer University of Chakwal**” as unconditional Guarantee.

**25.2.** 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 or complete the contractual obligations.

## **26. 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 Bank Guarantee 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), or Bank Guarantee, Bank Draft or Pay Order.

## **27. Issuance of Supply Order or Signing the Contract**

- 27.1.** The procuring agency shall issue Supply Order or sign a Contract with the Successful bidder who has submitted the Performance Guarantee.
- 27.2.** The Successful Bidder will provide the stamp paper of **22-(A)(b)** of amounting **0.25%** total order value for issuance of Supply Order or Signing the Contract as per PUNJAB THE STAMP ACT, 1899 upto date.
- 27.3.** The procuring agency may increase or decrease quantity in supply order subject to provision of budget in the relevant head in terms of PPRA Rules.

## **28. Redressal Of Grievances by the Procuring Agency**

- 28.1.** Any bidder feeling aggrieved by any act of the procuring agency after the submission of his bid may lodge a complaint through e-PADS concerning his grievances not later than 05 days after the announcement of the technical evaluation report and 10 days after the announcement of the final evaluation report.
- 28.2.** The committee shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint.
- 28.3.** Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.
- 28.4.** 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**

### **29. Delivery of Items**

- 29.1.** The Supplier will be responsible for **delivery of Items** for chemical & glassware as per quoted specifications. In case of items which requires installation/fixation/demo; the Bidder will be responsible for installation/commissioning of items at UOC, Main Campus, Talagang Road, Chakwal.
- 29.2.** Delivery Period will be **Forty Five (45) days** counted **after issuance of purchase order** extendable under the special circumstances subject to approval of competent authority if satisfy with genuine grounds or documented proof etc. otherwise penalty on late delivery will be charged accordingly.
- 29.3.** After the delivery of items, the Bidder must have the items inspected by the Inspection/Physical Verification Committee at the University of Chakwal (UoC), Main Campus, Talagang Road, Chakwal. If the committee identifies any variance from the quoted

specifications, the Bidder shall be obligated to amend or replace the items accordingly.

- 29.4.** The supplier will bear all costs associated with the preparation, delivery, amendment, replacing and installation/commissioning 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 as per quoted specifications. Any damage sustained during transportation / delivery will be rectified by the supplier at his cost.
- 29.5.** The procuring agency may increase or decrease quantity in supply order subject to provision of budget in the relevant head.

### **30. Liquidated Damages**

- 30.1.** 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 0.025% of the price of the delayed goods per day of delay, maximum up to 5% of the price of total value of the contract.
- 30.2.** 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.

### **31. Inspection and Tests**

- 31.1.** The Inspection/Physical verification 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; quoted in the tender.
- 31.2.** Inspection/Physical will be done at University of Chakwal.
- 31.3.** Inspection or Physical Committee may verify the authenticity of items.
- 31.4.** After the inspection or test if the Inspection/Physical 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 replace or make all alterations necessary to meet the requirements of the quoted specifications free of cost to University of Chakwal.

### **32. Release of Performance Guarantee (PG)**

The Performance Guarantee will be refunded/released to the Successful Bidder(s) after one year from the date of delivery challan or till the completion of warranty/guarantee etc.

### **33. Contract Amendment**

**33.1.** 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.

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

### **34. Termination for Default**

The Purchase/Evaluation 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:

**34.1.** the bidder fails to provide services within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring agency.

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

**34.3.** the successful bidder fails to perform any other obligation(s) under the Contract.

**34.4.** the bidder, in the judgment of the Purchase Committee has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

### **35. 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.

### **36. Force Majeure**

Force Majeure means an act of nature or a situation or an event beyond the control of the Supplier and not involving the Supplier's fault or negligence directly or indirectly purporting to mis-planning, mismanagement and /or lack of foresight to handle the situation. Such events may include but are not restricted to acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, earthquakes, strikes, epidemics, quarantine restrictions, bans and freight embargoes. If a Force Majeure situation arises, the Suppliers shall promptly notify the Procuring Agency in writing with sufficient and valid evidence of such condition and the Evaluation Committee of UOC, 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.

### **37. 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.

### **38. Forfeiture of Performance Security**

- 38.1.** 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 / Acceptance of Letter of Intent, the Purchaser may, without prejudice to any other right of action / remedy it may have, forfeit Performance Security of the Contractor.
- 38.2.** Failure to supply required items/services within the specified time period will invoke penalty as recommended by the evaluation committee as per prescribed terms.

### **39. Payment**

**39.1.** 100% payment will be made after withholding applicable taxes by UOC to the Successful Bidder after delivery and installation of goods and on receipt of the following documents:

- i. Three Copies of Original Delivery Challan.
- ii. Three Copies of Original Bill/Invoice.
- iii. Three Copies of General Sales Tax Invoice
- iv. Inspection/Satisfactory/Completion report (If applicable).
- v. Warranty/Guarantee cards (if any).

### **40. Warranty**

**40.1.** Warranty of Equipment, Apparatus and instrument shall be one year or more as manufacturer provided.

**40.2.** 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.

**40.3.** The Purchase/Evaluation 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.

#### 41. Specifications And Schedule of Requirement

Chemicals			
Sr #	Name of Item	Specifications	Quantity
Department of Botany			
1.	Lactophenol Cotton Blue (LPCB)	Sigma-Aldrich or equivalent	25 ml
2.	Lactophenol	Sigma-Aldrich or equivalent	100 ml
3.	Ethanol	Sigma-Aldrich or equivalent	1.5 L
4.	Potassium Hydroxide (KOH)	Sigma-Aldrich or equivalent	100 g
5.	Glycerol	Sigma-Aldrich or equivalent	250 ml
6.	Tween 20	Sigma-Aldrich or equivalent	1 L
7.	Dextrose (Glucose) powder	Sigma-Aldrich or equivalent	500 g
8.	Indole-3-acetic acid (IAA)	Sigma-Aldrich or equivalent	25 g
9.	Naphthalene-3-acetic acid	Sigma-Aldrich or equivalent	25 g
10.	Glacial acetic acid	Sigma-Aldrich or equivalent	1 L
11.	Sulfuric acid	Sigma-Aldrich or equivalent	2.5 L
12.	Ammonium acetate	Sigma-Aldrich or equivalent	1 kg
13.	Calcium chloride	Sigma-Aldrich or equivalent	1 kg
14.	Citric acid	Sigma-Aldrich or equivalent	1 kg
15.	Cobalt nitrate	Sigma-Aldrich or equivalent	100 gm
16.	Ferric (III) chloride	Sigma-Aldrich or equivalent	500 gm
17.	Gallic acid	Sigma-Aldrich or equivalent	100 gm
18.	Manganese acetate	Sigma-Aldrich or equivalent	500 gm
19.	Potassium chloride	Sigma-Aldrich or equivalent	1 kg
20.	Potassium hydroxide	Sigma-Aldrich or equivalent	1 kg
21.	Salicylic acid	Sigma-Aldrich or equivalent	1 kg
22.	Acid ninhydrin	Sigma-Aldrich or equivalent	25 gm
23.	Sodium citrate	Sigma-Aldrich or equivalent	1 kg



24.	Sodium hydroxide	Sigma-Aldrich or equivalent	1 kg
25.	Starch	Sigma-Aldrich or equivalent	1 kg
26.	Aluminum sulphate	Sigma-Aldrich or equivalent	500 gm
27.	Ammonia	Sigma-Aldrich or equivalent	2.5 L
28.	Ascorbic acid	Sigma-Aldrich or equivalent	250 gm
29.	Lead acetate	Sigma-Aldrich or equivalent	1 kg
30.	Lead nitrate	Sigma-Aldrich or equivalent	1 kg
31.	Magnesium nitrate	Sigma-Aldrich or equivalent	1 kg
32.	Mercuric chloride	Sigma-Aldrich or equivalent	100 gm
33.	Methyl orange	Sigma-Aldrich or equivalent	25 gm
34.	Methyl red	Sigma-Aldrich or equivalent	25 gm
35.	Methyl violet	Sigma-Aldrich or equivalent	25 gm
36.	Methylene blue dye	Sigma-Aldrich or equivalent	25 gm
37.	Potassium iodide	Sigma-Aldrich or equivalent	100 gm
38.	Sodium chloride	Sigma-Aldrich or equivalent	1 kg
39.	Zinc acetate	Sigma-Aldrich or equivalent	1 kg
40.	Zinc nitrate	Sigma-Aldrich or equivalent	500 gm
41.	Zinc sulphate	Sigma-Aldrich or equivalent	500 gm
42.	DPPH (2,2-Diphenyl-1-picrylhydrazyl)	Sigma-Aldrich or equivalent	1 gm
43.	Phosphoric acid	Sigma-Aldrich or equivalent	2.5 L
44.	Sodium acetate	Sigma-Aldrich or equivalent	500 gm
45.	Boric acid	Sigma-Aldrich or equivalent	1 kg
46.	Dimethyl sulphoxide (DMSO)	Sigma-Aldrich or equivalent	2.5 L
47.	Ethyl acetate	Sigma-Aldrich or equivalent	2.5 L
48.	Glacial acetic acid	Sigma-Aldrich or equivalent	4 L
49.	Methanol	Sigma-Aldrich or equivalent	2.5 L

50.	Nitric acid	Sigma-Aldrich or equivalent	4 L
51.	Acetone	Sigma-Aldrich or equivalent	2.5 L
52.	Ferric chloride	Sigma-Aldrich or equivalent	500 gm
53.	Concentrated sulphuric acid	Sigma-Aldrich or equivalent	2.5 L
54.	Petroleum ether	Sigma-Aldrich or equivalent	2.5 L
55.	Sulfosalicylic acid	Sigma-Aldrich or equivalent	100 gm
56.	Phosphate buffer solution	Sigma-Aldrich or equivalent	500 ml
57.	Ethylenediamine tetraacetic acid (EDTA)	Sigma-Aldrich or equivalent	1 kg
<b>Department of Petroleum &amp; Gas Engineering</b>			
58.	Barite	Powder form (99%) colors: tan Density Min. 4.20 g/cm <sup>3</sup> Lab Grade	2 kg
59.	Xylene	Liquid form (99%)	5L
60.	Bentonite	Powder form (99%) Lab Grade	2.5 kg
61.	Xanthan Gum	Powder form (99%) Lab Grade	500 g
62.	Toluene	Liquid form Lab Grade	2 L
63.	2-propanol	Liquid form Lab Grade	1 L
64.	Hydrogen Peroxide	35 % purity Lab Grade	1 L
65.	Diesel	Liquid form (99%) Pure	5L
66.	Sucrose	Powder form Lab Grade	2 Kg
67.	Nitrogen Gas	Gaseous form with 99% purity. Gas only cylinders will be provided by university	4 cylinders
<b>Department Of Zoology</b>			
68.	Nutrient agar	Dehydrated microbiological medium, 500 g pack	40
69.	Agar-agar	Bacteriological grade, 500 g	10
70.	Nutrient broth	Dehydrated medium, 500 g	20
71.	Yeast extract	Microbiology grade, 500 g	1

72.	Glycerine	Analytical grade, 1 L	1
73.	Paraffin wax oil	Laboratory grade, 1 L	1
74.	Acetone	Analytical grade, 1 L	120
75.	Ethanol	Absolute (99%), 1 L	120
76.	Methanol	Analytical grade, 1 L	120
77.	Sodium chloride (NaCl)	Analytical grade, 1 kg	1
78.	Potassium chloride (KCl)	Analytical grade, 500 g	1
79.	Magnesium sulfate (MgSO <sub>4</sub> )	Analytical grade, 500 g	1
80.	Ammonium sulfate ((NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> )	Analytical grade, 500 g	1
81.	Calcium chloride (CaCl <sub>2</sub> )	Anhydrous, 500 g	1
82.	Ferrous sulfate (FeSO <sub>4</sub> )	Analytical grade, 500 g	1
83.	Sodium thiosulfate	Analytical grade, 500 g	1
84.	Ferric citrate / ferrous ammonium sulfate	Analytical grade, 250 g	1
85.	Sodium bicarbonate	Analytical grade, 500 g	1
86.	Sodium phosphate dibasic (Na <sub>2</sub> HPO <sub>4</sub> )	Analytical grade, 500 g	1
87.	Potassium phosphate monobasic (KH <sub>2</sub> PO <sub>4</sub> )	Analytical grade, 500 g	1
88.	Bile salts	Microbiology grade, 250 g	1
89.	Sodium deoxycholate	Microbiology grade, 100 g	1
90.	Potassium tellurite	Selective agent, 10 g	1
91.	Lithium chloride	Analytical grade, 500 g	1
92.	Sodium azide	Analytical grade, 100 g	1
93.	Gram stain kit	Crystal violet, iodine, safranin set	1
94.	Crystal violet	Staining reagent, 250 mL	1
95.	Iodine solution	Gram iodine, 250 mL	1
96.	Safranin	Counterstain, 250 mL	1
97.	Methylene blue	Staining dye, 250 mL	1
98.	Malachite green	Endospore stain, 100 mL	1
99.	Ziehl-Neelsen reagents	Complete AFB staining kit	1
100.	Hydrogen peroxide	3% solution, 500 mL	1

101.	Kovac's reagent	Indole test reagent, 100 mL	1
102.	Normal saline	Sterile 0.85%, 500 mL	1
103.	PBS buffer	Ready-to-use, pH 7.4, 1 L	1
104.	Inoculating loops (metal & disposable)	Platinum loop + disposable pack	1
105.	Glass spreaders	L-shaped, autoclavable	1
106.	Filter paper	Whatman-type, pack	1
107.	Parafilm	Laboratory sealing film roll	1
108.	Aluminum foil	Heavy-duty laboratory foil	1
109.	Cotton plugs	Sterile cotton pack	1
110.	Gloves	Nitrile gloves, box of 100	1
111.	Masks	Disposable surgical masks, box	1
112.	Zip-lock bags (sizes)	Mixed sizes pack	1
113.	Blood collection tubes	EDTA/plain tubes, pack	1
114.	Transport swabs	Sterile swabs with medium	1
115.	Eppendorf tubes with stands	1.5 mL tubes + rack	1
116.	Falcon tubes (15 & 50 mL) with stands	Conical tubes + rack	1
117.	Sharps container	Puncture-proof safety container	1
118.	Chromic acid / Glassware cleaner	Laboratory glassware cleaner	1
119.	Detergent / Liquid soap	Laboratory grade cleaner	1
120.	Surf	Cleaning powder	1
121.	Disinfectants	Phenol/alcohol-based disinfectant	1
122.	Autoclave tape	Sterilization indicator tape	1
123.	Hista-Flex (Elite)	Pure paraffin wax with microcrystalline	10
124.	Hematoxylin	Staining	1
125.	Eosin powder	Staining	1
126.	DISTILLED WATER	Extract preparation	1
127.	Glacial Acetic acid	Stain preparation	1
128.	xylene	Clearance	1

129.	Alizarin red	Bone staining	1
130.	RBC count solution	Count RBC	1
131.	WBC count solution	Count WBC	1
132.	Potash alum	Stain preparation	1
133.	Sodium iodate	Stain preparation	1
134.	Biohazard bags	Autoclavable biohazard bags	1
<b>Department of Human Nutrition and Dietetics</b>			
135.	EDTA	Disodium EDTA, 0.5 M Solution,	500 mL
136.	Leishman Stain / Wright's Stain	Ready-to-use solution	500 mL each
137.	Drabkin's Reagent	Standard laboratory formulation (ready-to-use)	500 mL
138.	Wintrobe's Solution	Sodium citrate solution	500 mL
139.	Saline Solution	0.9% NaCl, Isotonic, Sterile	500 mL
140.	Crystal Violet	1% Aqueous Solution	250 mL
141.	Iodine Solution	1% Aqueous Solution	250 mL
142.	Alcohol	95% Ethanol or Acetone-Alcohol	500 mL
143.	Safranin	0.5% Aqueous Solution	250 mL
144.	Nutrient Agar	Dehydrated powder, for general bacterial culture	500 g
145.	MacConkey Agar	Dehydrated powder, selective and differential medium	500 g
146.	Anti-A Antisera	Monoclonal, IgM, Ready-to-use	10 mL × 1 vial
147.	Anti-B Antisera	Monoclonal, IgM, Ready-to-use	10 mL × 1 vial
148.	Anti-D Antisera	Monoclonal, IgM, Ready-to-use	10 mL × 1 vial
149.	Isotonic Saline (0.9% NaCl)	Sterile	500 mL
150.	Sodium Citrate (3.8%)	3.8% w/v in sterile water	500 mL
151.	Turk's Fluid	Glacial acetic acid with gentian violet	500 mL
152.	Thromboplastin Reagent with Calcium	Ready-to-use	10 mL vial
153.	Sodium Citrate (3.2%)	3.2% w/v in sterile water	500 mL
154.	Benedict's solution	Liquid	500ml

155.	Biuret reagent	Liquid	500ml
156.	Iodine solution	Liquid	250ml
157.	Sudan III or IV	Powder/Liquid	100g (powder) or 250ml (liquid)
158.	Salts for electrolyte balance	Solid/Crystalline	100g
159.	Sucrose standards	Solid (powder)	100g
160.	Starch standards	Solid (powder)	100g
161.	Protein standards	Solid (powder)	100g
162.	Digestion Tablets	For determination of protein	100 tablets
163.	Coffee	Powder form	2 jars of kg
164.	Americans' almond	Seeds within Jar	2 kg
165.	Dates	Mabrom Variety within box	2kg
166.	Dates	Kalmi variety within box	2kg
167.	Fox nuts	Seeds within Jar	1kg
168.	Roasted grams	without shell within Jar	3
169.	Resins	Clean dry within Jar	2kg
170.	Rosemarry	Leaves	500g
171.	Habiscus flower powder	Powder form	1kg
172.	Citrus peel powder	Powder form	1kg
173.	Rose flower	Powder form	1kg
174.	Buffer pH 4	Liquid for ph meter	1 L
175.	Buffer pH 5	Liquid for ph meter	1 L
176.	Buffer pH 6	Liquid for ph meter	1 L
177.	Cling wrap	wrapping sheet	5
178.	Licorice	Powder form	1 kg
179.	Walnuts	Seeds within Jar	1kg
180.	Honey	Pure	4 kg
181.	Maida	Good Quality	1 kg
182.	Sugar	Solid, Good Quality	5 kg
183.	Baking powder	Solid (powder)	100g
184.	Coconut essence	Liquid	50 mL

185.	Coconut powder	Solid (powder)	1 Kg
186.	Peanuts	Solid	5 kg
187.	Elaichi flavour	Solid/Liquid	500 gm
188.	Sesame seeds	Solid	1 kg
189.	Walnut	Soft shell	5 kg
190.	Butter	Solid	1/2 Kg
191.	Potassium metabisulphite	Solid/Powder	1 kg
192.	Citric acid	Solid	1 kg
193.	Sodium benzoate	Solid	50 mL
194.	Alaichi (cardamom)	Solid	250g
195.	Spearmint Tea	Solid	500g
196.	Olive Oil	Extra Virgin	2 Ltr
197.	Sterile culture vials / bottles	sterile polypropylene	100 pcs
198.	Fehling's Solution A	Ready-to use solution	1 L
199.	Fehling's Solution B	Ready-to use solution for reducing sugar test	1 L
200.	Benedict's Reagent	Ready to use solution, qualitative reducing sugar test	1L
201.	Disodium Hydrogen Phosphate ( $\text{Na}_2\text{HPO}_4$ )	AR grade; for phosphate buffer	500 g
202.	Sodium Dihydrogen Phosphate ( $\text{NaH}_2\text{PO}_4$ )	AR grade; for phosphate buffer	500 g
203.	Citric Acid	AR grade; citrate buffer	500 g
204.	Sodium Citrate	AR grade; citrate buffer	250 g
205.	Molisch's Reagent	5% $\alpha$ -naphthol in ethanol	500mL
206.	Lugol's Solution	Iodine-potassium iodide solution ( $\text{I}_2$ 1%, KI 2%)	100mL
207.	Sodium Acetate	AR grade	250 g
208.	Calcium Chloride ( $\text{CaCl}_2$ )	AR grade; stabilizes amylase enzyme	250 g
209.	Tris Base	AR grade, for buffer preparation	500g
<b>Department of Pharmacy</b>			
210.	Acetylcholine injection	Sigma, PT. Smart Lab, Merck or equivalent	2 packs
211.	Ethyl alcohol	Sigma, PT. Smart Lab, Merck or equivalent	7.5 L

212.	Cetostearyl alcohol	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
213.	Wool fat	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
214.	Ferric Chloride (FeCl <sub>3</sub> )	Sigma, PT. Smart Lab, Merck or equivalent	2 Kg
215.	Xanthan Gum	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
216.	Aloe vera extract powder	Sigma, PT. Smart Lab, Merck or equivalent	500 g
217.	Methylated Spirit	Sigma, PT. Smart Lab, Merck or equivalent	30 liters
218.	Pyodine (60ml)	Sigma, PT. Smart Lab, Merck or equivalent	20pack (60ml each)
219.	Burners Thread	Sigma, PT. Smart Lab, Merck or equivalent	10
220.	Magnesium chloride	Sigma, PT. Smart Lab, Merck or equivalent	5kg
221.	Glucose	Sigma, PT. Smart Lab, Merck or equivalent	5kg
222.	Sodium hydrogen carbonate	Sigma, PT. Smart Lab, Merck or equivalent	2kg
223.	Wiregauze for tripod stand	Sigma, PT. Smart Lab, Merck or equivalent	100 Nos
224.	Trichloroethanal	Sigma, PT. Smart Lab, Merck or equivalent	1 liter
225.	Balijet's reagent	Sigma, PT. Smart Lab, Merck or equivalent	2liter
226.	Test tube Holder	Sigma, PT. Smart Lab, Merck or equivalent	60 Nos
227.	Sodium Di hydrogen Phosphate	Sigma, PT. Smart Lab, Merck or equivalent	2kg
228.	Potassium Phosphate monobasic	Sigma, PT. Smart Lab, Merck or equivalent	2kg
229.	Magnesium Sulphate Monohydrate	Sigma, PT. Smart Lab, Merck or equivalent	2kg
230.	Di sodium hydrogen Phosphate heptahydrate	Sigma, PT. Smart Lab, Merck or equivalent	2kg
231.	Diazepam injection	Sigma, PT. Smart Lab, Merck or equivalent	3 packs
232.	Paracetamol Injection	Sigma, PT. Smart Lab, Merck or equivalent	5 packs
233.	Calamine	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
234.	Cod liver oil	Sigma, PT. Smart Lab, Merck or equivalent	1 liter
235.	Ketamine injection	Sigma, PT. Smart Lab, Merck or equivalent	2 packs
236.	Tramadol injection	Sigma, PT. Smart Lab, Merck or equivalent	5 packs
237.	Pilocarpine eyedrops	Sigma, PT. Smart Lab,	30



		Merck or equivalent	
238.	Dicloran Injection	Sigma, PT. Smart Lab, Merck or equivalent	05 packs
239.	Adrenaline inj. Vial	Sigma, PT. Smart Lab, Merck or equivalent	02 packs
240.	Phenyl ephrine eyedrops	Sigma, PT. Smart Lab, Merck or equivalent	02 packs
241.	Lignocaine injection	Sigma, PT. Smart Lab, Merck or equivalent	02 packs
242.	Lignocaine gel	Sigma, PT. Smart Lab, Merck or equivalent	5 packs
243.	Antisera A, B and D	Sigma, PT. Smart Lab, Merck or equivalent	05 each
244.	Atropine sulphate	Sigma, PT. Smart Lab, Merck or equivalent	10 gm
245.	Calcium chloride	Sigma, PT. Smart Lab, Merck or equivalent	05 Kg
246.	Cedar wood oil	Sigma, PT. Smart Lab, Merck or equivalent	1L
247.	Dextrose	Sigma, PT. Smart Lab, Merck or equivalent	03 kg
248.	Homatropine eyedrops	Sigma, PT. Smart Lab, Merck or equivalent	10
249.	Di sodium hydrogen PO <sub>4</sub>	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
250.	Diethyl ether	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L
251.	Dihydrogen Potassium Phosphate	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
252.	Di-potassium hydrogen PO <sub>4</sub>	Sigma, PT. Smart Lab, Merck or equivalent	04 Kg
253.	Pentylene tetrazole	Sigma, PT. Smart Lab, Merck or equivalent	50g
254.	Lithium Chloride	Sigma, PT. Smart Lab, Merck or equivalent	1kg
255.	Naproxen 5% injection	Sigma, PT. Smart Lab, Merck or equivalent	2 packs
256.	EDTA powder	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
257.	Ibuprofen Injection	Sigma, PT. Smart Lab, Merck or equivalent	02 packs
258.	Ethanol	Sigma, PT. Smart Lab, Merck or equivalent	05 L
259.	Gentian Violet	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
260.	Glacial Acetic acid	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L
261.	HCl	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L
262.	Heparin injection	Sigma, PT. Smart Lab, Merck or equivalent	02 packs

263.	Leishman's powder	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
264.	Midazolam injection	Sigma, PT. Smart Lab, Merck or equivalent	02 packs
265.	Magnesium sulphate heptahydrate	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
266.	Mercuric Chloride	Sigma, PT. Smart Lab, Merck or equivalent	100 gm
267.	Methanol	Sigma, PT. Smart Lab, Merck or equivalent	5 liter
268.	Potassium chloride	Sigma, PT. Smart Lab, Merck or equivalent	02 Kg
269.	Potassium hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
270.	Potassium meta- bisulphite	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
271.	Sodium bicarbonate	Sigma, PT. Smart Lab, Merck or equivalent	02 Kg
272.	Sodium chloride	Sigma, PT. Smart Lab, Merck or equivalent	04 Kg
273.	Turk Solution	Sigma, PT. Smart Lab, Merck or equivalent	500ml
274.	Haeym Solution	Sigma, PT. Smart Lab, Merck or equivalent	500ml
275.	Sodium citrate (anhydrous)	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
276.	Fluoxetine injection	Sigma, PT. Smart Lab, Merck or equivalent	2 packs
277.	Sodium dihydrogen PO <sub>4</sub> monohydrate	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
278.	Sodium hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
279.	Sodium phosphate dibasic/ Disodium hydrogen phosphate	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
280.	Sodium Phosphate Monobasic/ Sodium dihydrogen monohydrate	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
281.	Sodium Sulphate anhydrous	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
282.	Sodium Lactate	Sigma, PT. Smart Lab, Merck or equivalent	500ml
283.	1-naphthol	Sigma, PT. Smart Lab, Merck or equivalent	250 gm
284.	2-propanol (anhydrous)	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L
285.	3,5 dinitro salicylic acid	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
286.	Acetyl chloride	Sigma, PT. Smart Lab, Merck or equivalent	100ml
287.	Acetone	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L

288.	Acetophenone	Sigma, PT. Smart Lab, Merck or equivalent	500 ml
289.	Acetic Acid	Sigma, PT. Smart Lab, Merck or equivalent	5 L
290.	Zinc oxide	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
291.	Pectin	Sigma, PT. Smart Lab, Merck or equivalent	1 kg
292.	Acetyl salicylic acid	Sigma, PT. Smart Lab, Merck or equivalent	1kg
293.	Koalin	Sigma, PT. Smart Lab, Merck or equivalent	1kg
294.	Hard soap	Sigma, PT. Smart Lab, Merck or equivalent	1kg
295.	Aluminium isopropoxide	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
296.	Ammonium iron (II) sulphate dodecahydrate	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
297.	Albumin	Sigma, PT. Smart Lab, Merck or equivalent	100g
298.	Aniline	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L
299.	Ammonia solution	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
300.	Ascorbic acid	Sigma, PT. Smart Lab, Merck or equivalent	1 kg
301.	Aspartic acid	Sigma, PT. Smart Lab, Merck or equivalent	250 gm
302.	Bees wax	Sigma, PT. Smart Lab, Merck or equivalent	1kg
303.	Benzaldehyde	Sigma, PT. Smart Lab, Merck or equivalent	500 mL
304.	Benzamide	Sigma, PT. Smart Lab, Merck or equivalent	200 gm
305.	Benzene	Sigma, PT. Smart Lab, Merck or equivalent	05 L
306.	Benzoic acid	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
307.	Benzophenone	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
308.	Benedict's reagent	Sigma, PT. Smart Lab, Merck or equivalent	500ml
309.	Bromine water	Sigma, PT. Smart Lab, Merck or equivalent	1 L
310.	Barfoed reagent	Sigma, PT. Smart Lab, Merck or equivalent	1 L
311.	Biurette reagent	Sigma, PT. Smart Lab, Merck or equivalent	500ml
312.	Calcium hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	04 kg
313.	Chlorobenzene	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L

314.	Chloroform	Sigma, PT. Smart Lab, Merck or equivalent	10 L
315.	cholesterol	Sigma, PT. Smart Lab, Merck or equivalent	100g
316.	Citric acid	Sigma, PT. Smart Lab, Merck or equivalent	2kg
317.	Copper sulphate	Sigma, PT. Smart Lab, Merck or equivalent	4 Kg
318.	Coconut oil	Sigma, PT. Smart Lab, Merck or equivalent	1L
319.	Creatinine	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
320.	Cupric acetate	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
321.	Cupric oxide	Sigma, PT. Smart Lab, Merck or equivalent	500 g
322.	Ceto stearyl alcohol	Sigma, PT. Smart Lab, Merck or equivalent	1kg
323.	Dextrose	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
324.	Dichloromethane	Sigma, PT. Smart Lab, Merck or equivalent	05 L
325.	Diammonium oxalate	Sigma, PT. Smart Lab, Merck or equivalent	500g
326.	Disodium hydrogen phosphate	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
327.	D-saccharose	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
328.	Ethanol	Sigma, PT. Smart Lab, Merck or equivalent	05 L
329.	Ethyl acetate	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
330.	Eisen chloride.6H <sub>2</sub> O(FeCl <sub>3</sub> )	Sigma, PT. Smart Lab, Merck or equivalent	2kg
331.	Fructose	Sigma, PT. Smart Lab, Merck or equivalent	2kg
332.	Gelatin	Sigma, PT. Smart Lab, Merck or equivalent	1kg
333.	Glycine	Sigma, PT. Smart Lab, Merck or equivalent	500g
334.	L-Histidine	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
335.	Hydrochloric acid	Sigma, PT. Smart Lab, Merck or equivalent	7.5 L
336.	Hopkins cole reagent	Sigma, PT. Smart Lab, Merck or equivalent	1L
337.	Iodine	Sigma, PT. Smart Lab, Merck or equivalent	200
338.	Iron sulphate	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
339.	Isoamyl alcohol	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L

340.	Lactose	Sigma, PT. Smart Lab, Merck or equivalent	1 kg
341.	Lanoline/wool wax	Sigma, PT. Smart Lab, Merck or equivalent	500g
342.	Lead acetate	Sigma, PT. Smart Lab, Merck or equivalent	1kg
343.	Litmus paper blue	Sigma, PT. Smart Lab, Merck or equivalent	10 Packs
344.	Litmus paper red	Sigma, PT. Smart Lab, Merck or equivalent	10 Packs
345.	Lugol's iodine	Sigma, PT. Smart Lab, Merck or equivalent	500ml
346.	Magnesium carbonate	Sigma, PT. Smart Lab, Merck or equivalent	03 Kg
347.	Maleic acid	Sigma, PT. Smart Lab, Merck or equivalent	1kg
348.	Magnesium sulphate (anhydrous)	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
349.	Dragendroff's reagent	Sigma, PT. Smart Lab, Merck or equivalent	1 liter
350.	Maltose	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
351.	Methyl red	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
352.	Wagner's reagent	Sigma, PT. Smart Lab, Merck or equivalent	3 liter
353.	Methyl salicylate	Sigma, PT. Smart Lab, Merck or equivalent	500ml
354.	Molybdic acid	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
355.	Molisch reagent	Sigma, PT. Smart Lab, Merck or equivalent	1 L
356.	Naphthalene	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
357.	Ninhydrin	Sigma, PT. Smart Lab, Merck or equivalent	50 gm
358.	n-Hexane	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
359.	Ninhydrin solution	Sigma, PT. Smart Lab, Merck or equivalent	1 L
360.	Nitric acid	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L
361.	Oxalic acid	Sigma, PT. Smart Lab, Merck or equivalent	2kg
362.	pH buffer 4 (25-03-24)	Sigma, PT. Smart Lab, Merck or equivalent	1L
363.	pH buffer 7 (25-03-24)	Sigma, PT. Smart Lab, Merck or equivalent	1L
364.	Dragendroff's reagent	Sigma, PT. Smart Lab, Merck or equivalent	2liter
365.	Hager's reagent	Sigma, PT. Smart Lab, Merck or equivalent	2 liter

366.	pH buffer 10 (25-03-24)	Sigma, PT. Smart Lab, Merck or equivalent	1L
367.	Para-amino phenol	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
368.	Washing Sponges	China, local or equivalent	50 Nos
369.	Test Tube Washing Brushes	China, local or equivalent	50 Nos
370.	Measuring Cylinder Brushes	China, local or equivalent	50 Nos
371.	Petroleum ether	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L
372.	Phenol	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
373.	Phenol solution	Sigma, PT. Smart Lab, Merck or equivalent	1L
374.	Phenol red	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
375.	Phenolphthalein	Sigma, PT. Smart Lab, Merck or equivalent	200 gm
376.	Phenyl hydrazine hydrochloride	Sigma, PT. Smart Lab, Merck or equivalent	250 g
377.	Phloroglucinol	Sigma, PT. Smart Lab, Merck or equivalent	100 gm
378.	Phosphoric acid	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L
379.	Phthalic anhydride	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
380.	Picric acid	Sigma, PT. Smart Lab, Merck or equivalent	500 ml
381.	Potassium hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
382.	Stainless Steel spiral	China, Local or equivalent	3 Dozen
383.	Potassium iodide	Sigma, PT. Smart Lab, Merck or equivalent	500 g
384.	Potassium permanganate	Sigma, PT. Smart Lab, Merck or equivalent	500 g
385.	Potassium sodium tartarate	Sigma, PT. Smart Lab, Merck or equivalent	500 g
386.	Paraffin oil	Sigma, PT. Smart Lab, Merck or equivalent	5 L
387.	Pyridine	Sigma, PT. Smart Lab, Merck or equivalent	1 L
388.	Resorcinol	Sigma, PT. Smart Lab, Merck or equivalent	100 gm
389.	Salicylic acid	Sigma, PT. Smart Lab, Merck or equivalent	1kg
390.	Silver nitrate	Sigma, PT. Smart Lab, Merck or equivalent	100 gm
391.	Seliwanoff's reagent	Sigma, PT. Smart Lab, Merck or equivalent	1 L

392.	Salkawoski reagent	Sigma, PT. Smart Lab, Merck or equivalent	500ml
393.	Sodium dodecyl sulphate	Sigma, PT. Smart Lab, Merck or equivalent	500 g
394.	Schiff reagent	Sigma, PT. Smart Lab, Merck or equivalent	500ml
395.	Sodium dihydrogen phosphate monohydrate	Sigma, PT. Smart Lab, Merck or equivalent	3 kg
396.	RBC Pipet	Sigma, PT. Smart Lab, Merck or equivalent	50 Nos
397.	WBC Pipet	Sigma, PT. Smart Lab, Merck or equivalent	50 Nos
398.	Sodium di sulphite	Sigma, PT. Smart Lab, Merck or equivalent	1 kg
399.	Sodium carbonate	Sigma, PT. Smart Lab, Merck or equivalent	2kg
400.	Sodium hydrogen carbonate	Sigma, PT. Smart Lab, Merck or equivalent	3kg
401.	Sodium iodide	Sigma, PT. Smart Lab, Merck or equivalent	500g
402.	Sodium sulphate	Sigma, PT. Smart Lab, Merck or equivalent	1kg
403.	Sodium acetate	Sigma, PT. Smart Lab, Merck or equivalent	1kg
404.	Sodium hydrogen sulphate	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
405.	Sodium hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
406.	Sodium nitrate	Sigma, PT. Smart Lab, Merck or equivalent	1 kg
407.	Sodium nitrite	Sigma, PT. Smart Lab, Merck or equivalent	1kg
408.	Sodium nitroprusside	Sigma, PT. Smart Lab, Merck or equivalent	10 gm
409.	Sodium phosphate dibasic/ Disodium hydrogen phosphate	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
410.	Sodium thiosulphate	Sigma, PT. Smart Lab, Merck or equivalent	1kg
411.	Sodium tungstate	Sigma, PT. Smart Lab, Merck or equivalent	500g
412.	Starch	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
413.	Sulphanilic acid	Sigma, PT. Smart Lab, Merck or equivalent	3 L
414.	Sulphur	Sigma, PT. Smart Lab, Merck or equivalent	1kg
415.	Tartaric acid	Sigma, PT. Smart Lab, Merck or equivalent	1kg
416.	Tollen's reagent	Sigma, PT. Smart Lab, Merck or equivalent	1L

417.	Tri-sodium citrate.2H <sub>2</sub> O	Sigma, PT. Smart Lab, Merck or equivalent	1Kg
418.	Thionyl Chloride	Sigma, PT. Smart Lab, Merck or equivalent	1Kg
419.	Thiosemicarbazide	Sigma, PT. Smart Lab, Merck or equivalent	100 g
420.	Universal pH paper	Sigma, PT. Smart Lab, Merck or equivalent	05 Packs
421.	Urea	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
422.	Uric acid	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
423.	Zinc dust	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
424.	Acacia Gum	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
425.	Carboxymethyl Cellulose	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
426.	Cetomacrogol	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
427.	Cetoceryl alcohol	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
428.	Cocoa Butter	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
429.	Dipotassium Hydrogen Phosphate	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
430.	Gelatin	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
431.	Glycerine	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
432.	Bentonite clay	Sigma, PT. Smart Lab, Merck or equivalent	2kg
433.	Carbopol 940	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
434.	Triethanolamine	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
435.	Hard Parafin	Sigma, PT. Smart Lab, Merck or equivalent	250 Gm
436.	HPMC	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
437.	Lactose	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
438.	Liquid Parafin	Sigma, PT. Smart Lab, Merck or equivalent	1 Ltr
439.	Magnesium hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
440.	Magnesium Stereate	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
441.	Methyl Benzoate	Sigma, PT. Smart Lab, Merck or equivalent	1 Ltr
442.	Methyl Paraben	Sigma, PT. Smart Lab, Merck or equivalent	250 Gm



443.	PEG 400	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
444.	PEG 4000	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
445.	Pottasium Dihydrogen Phosphate	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
446.	Propyl Parabin	Sigma, PT. Smart Lab, Merck or equivalent	250 Gm
447.	PVP K30	Sigma, PT. Smart Lab, Merck or equivalent	250 Gm
448.	Sodium Bicarbonate	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
449.	Sodium Carbonate	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
450.	Sodium Laurylsulphate	Sigma, PT. Smart Lab, Merck or equivalent	250 Gm
451.	Starch	Sigma, PT. Smart Lab, Merck or equivalent	2 Kg
452.	Stearic Acid	Sigma, PT. Smart Lab, Merck or equivalent	250 Gm
453.	Sucrose	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
454.	Talc	Sigma, PT. Smart Lab, Merck or equivalent	1 Kg
455.	Tartaric Acid	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
456.	Tragacanth	Sigma, PT. Smart Lab, Merck or equivalent	500 Gm
457.	Tween 80	Sigma, PT. Smart Lab, Merck or equivalent	1 liter
458.	Ferric chloride	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
459.	Glucose	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
460.	Talcum powder	Sigma, PT. Smart Lab, Merck or equivalent	1kg
461.	Methyl orange	Sigma, PT. Smart Lab, Merck or equivalent	100gm
462.	Methyl red	Sigma, PT. Smart Lab, Merck or equivalent	100gm
463.	Oxalic acid	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
464.	Phenolphthalein	Sigma, PT. Smart Lab, Merck or equivalent	500gm
465.	Dimagnesium tri silicate	Sigma, PT. Smart Lab, Merck or equivalent	1kg
466.	Kainic acid	Sigma, PT. Smart Lab, Merck or equivalent	25mg
467.	Potassium dichromate	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
468.	Potassium hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	01 kg

469.	Potassium iodide	Sigma, PT. Smart Lab, Merck or equivalent	500gm
470.	Potassium permanganate	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
471.	Sodium bicarbonate	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
472.	Sodium carbonate	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
473.	Sodium hydrogen carbonate	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
474.	Sodium hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	02 kg
475.	Sodium nitrate	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
476.	Starch	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
477.	Castor oil	Sigma, PT. Smart Lab, Merck or equivalent	1 liter
478.	Zinc chloride	Sigma, PT. Smart Lab, Merck or equivalent	01 kg
479.	Sodium alginate	Sigma, PT. Smart Lab, Merck or equivalent	2 kg
480.	Acetone	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
481.	Butanol	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
482.	Ethanol	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
483.	Ethyl acetate	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
484.	Methanol	Sigma, PT. Smart Lab, Merck or equivalent	5L
485.	n-hexane	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
486.	Nitric acid	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
487.	Petroleum ether	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
488.	Sulphuric acid	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
489.	Toluene	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
490.	Washing acetone	Sigma, PT. Smart Lab, Merck or equivalent	05 L
491.	Xylene	Sigma, PT. Smart Lab, Merck or equivalent	2.5L
492.	Ammonium Chloride	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
493.	Barium Chloride	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
494.	Chloral Hydrate	Sigma, PT. Smart Lab, Merck or equivalent	500 gm

495.	Crystal Violet	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
496.	Carbol Fucsin	Sigma, PT. Smart Lab, Merck or equivalent	500 ml
497.	Chlorine	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
498.	Eosin	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
499.	Ferrous Sulphate	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
500.	Ferric Chloride	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
501.	Gention Violet	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
502.	Lead Acetate	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
503.	Malachite Green	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
504.	Methyl Blue	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
505.	Methyl Orange	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
506.	Nutrient Agar	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
507.	Nutrient Broth	Sigma, PT. Smart Lab, Merck or equivalent	500g
508.	Broth agar	Sigma, PT. Smart Lab, Merck or equivalent	500g
509.	Macconkey agar	Sigma, PT. Smart Lab, Merck or equivalent	500g
510.	Gram iodine	Sigma, PT. Smart Lab, Merck or equivalent	1 liter
511.	Phenol Red	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
512.	Phenolphthalein	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
513.	Potassium Iodide	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
514.	Safranin	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
515.	Sodium Hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
516.	Sodium Chloride	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
517.	Sulphur	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
518.	Bovine Serum Albumin	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
519.	Macconkey Agar	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
520.	Soya Peptone	Sigma, PT. Smart Lab, Merck or equivalent	500 gm

521.	Mueller Hinton Agar	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
522.	Luria Bertani Agar	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
523.	Bayer Reagent	Sigma, PT. Smart Lab, Merck or equivalent	01 ltr
524.	Normal Saline	Sigma, PT. Smart Lab, Merck or equivalent	10 ltr.
525.	Tollens Reagent	Sigma, PT. Smart Lab, Merck or equivalent	1Ltr
526.	Zn Stain	Sigma, PT. Smart Lab, Merck or equivalent	500ml
527.	Hydrogen Peroxide	Sigma, PT. Smart Lab, Merck or equivalent	01 ltr
528.	Isoamyl Alcohol	Sigma, PT. Smart Lab, Merck or equivalent	01 ltr
529.	Acetone	Sigma, PT. Smart Lab, Merck or equivalent	5L
530.	Ammonium hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	2.5 ltr.
531.	Ethanol	Sigma, PT. Smart Lab, Merck or equivalent	2.5 ltr.
532.	Methylene chloride	Sigma, PT. Smart Lab, Merck or equivalent	2.5 ltr.
533.	Potato Dextrose Agar	Sigma, PT. Smart Lab, Merck or equivalent	500g
534.	Gram staining Kit	Sigma, PT. Smart Lab, Merck or equivalent	500ml
535.	Plane Agar	Sigma, PT. Smart Lab, Merck or equivalent	500g
536.	Antibiotic Disc Gentamycin (Liofilmchem)	Sigma, PT. Smart Lab, Merck or equivalent	1pack
537.	Antibiotic Disc Chloramphenicol (Liofilmchem)	Sigma, PT. Smart Lab, Merck or equivalent	1pack
538.	Antibiotic Disc Augmentin (Liofilmchem)	Sigma, PT. Smart Lab, Merck or equivalent	1pack
539.	Antibiotic Disc Cefazolin (Liofilmchem)	Sigma, PT. Smart Lab, Merck or equivalent	1pack
540.	Antibiotic Disc Ceftazidime (Liofilmchem)	Sigma, PT. Smart Lab, Merck or equivalent	1pack
541.	Antibiotic Disc Ertapenem (Liofilmchem)	Sigma, PT. Smart Lab, Merck or equivalent	1pack
542.	Antibiotic Disc Amoxycillin (Liofilmchem)	Sigma, PT. Smart Lab, Merck or equivalent	1pack
543.	Antibiotic Disc Vancomycin (Liofilmchem)	Sigma, PT. Smart Lab, Merck or equivalent	1pack
544.	Antibiotic Disc Oxacillin (Liofilmchem)	Sigma, PT. Smart Lab, Merck or equivalent	1pack
545.	Antibiotic Disc Methicillin (Liofilmchem)	Sigma, PT. Smart Lab, Merck or equivalent	1pack
546.	Aluminum chloride	Sigma, PT. Smart Lab,	01 Kg

		Merck or equivalent	
547.	Aluminum hydroxide	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
548.	Aluminum sulphate	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
549.	Ammonium chloride	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
550.	Anise oil	Sigma, PT. Smart Lab, Merck or equivalent	500 mL
551.	Arachis oil	Sigma, PT. Smart Lab, Merck or equivalent	500 mL
552.	Caffeine powder	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
553.	Calcium phosphate di basic	Sigma, PT. Smart Lab, Merck or equivalent	1 kg
554.	Camphor	Sigma, PT. Smart Lab, Merck or equivalent	250 g
555.	Giemsa powder	Sigma, PT. Smart Lab, Merck or equivalent	50gm
556.	Carbol fuchsin	Sigma, PT. Smart Lab, Merck or equivalent	50 gm
557.	Choral hydrate	Sigma, PT. Smart Lab, Merck or equivalent	10 gm
558.	Clove oil	Sigma, PT. Smart Lab, Merck or equivalent	1000 ml
559.	Copper acetate monohydrate	Sigma, PT. Smart Lab, Merck or equivalent	500 g
560.	Copper sulphate pentahydrate	Sigma, PT. Smart Lab, Merck or equivalent	1 kg
561.	Crystal violet dye	Sigma, PT. Smart Lab, Merck or equivalent	25 gm
562.	Dichloromethane DCM+DCM pursis	Sigma, PT. Smart Lab, Merck or equivalent	2.5L+2.5L
563.	Ethanol absolute	Sigma, PT. Smart Lab, Merck or equivalent	5000ml
564.	Ethyl acetate	Sigma, PT. Smart Lab, Merck or equivalent	5000ml
565.	Ethylene glycol	Sigma, PT. Smart Lab, Merck or equivalent	5000ml
566.	Fehling solution A	Sigma, PT. Smart Lab, Merck or equivalent	2000ml
567.	Fehling solution B	Sigma, PT. Smart Lab, Merck or equivalent	2000 mL
568.	L - Glutamic acid	Sigma, PT. Smart Lab, Merck or equivalent	100 mg
569.	Glycine/Glycerol	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L
570.	Lemon oil	Sigma, PT. Smart Lab, Merck or equivalent	1000ml
571.	Malachite green	Sigma, PT. Smart Lab, Merck or equivalent	25 mg

572.	Hanging drop slide	China/local or equivalent	6
573.	Aluminum Foil	China/local or equivalent	3 packs
574.	Cotton	rolls	4
575.	Ointment empty boxes	China/local or equivalent	4*12=48
576.	Dispensing bottle plastic	China/local or equivalent	1000
577.	Agar well borer	China/local or equivalent	4*12=48
578.	Urine bottle	China/local or equivalent	2*12=24
579.	Masks	China/local or equivalent	2*12=24
580.	Gloves	China/local or equivalent	2*12=24
581.	Small and large brushes	China/local or equivalent	10
582.	Mayer's reagent	Sigma, PT. Smart Lab, Merck or equivalent	1liter
583.	Mercuric Chloride	Sigma, PT. Smart Lab, Merck or equivalent	100 gm
584.	Immersion oil	Sigma, PT. Smart Lab, Merck or equivalent	1 liter
585.	Sorbitol	Sigma, PT. Smart Lab, Merck or equivalent	1kg
586.	Methylene blue	Sigma, PT. Smart Lab, Merck or equivalent	50g
587.	Mustard oil	Sigma, PT. Smart Lab, Merck or equivalent	200ml
588.	<i>n</i> -Hexane	Sigma, PT. Smart Lab, Merck or equivalent	5000ml
589.	Nitric acid 65%	Sigma, PT. Smart Lab, Merck or equivalent	2.5 L
590.	Nutmeg oil	Sigma, PT. Smart Lab, Merck or equivalent	1000ml
591.	Orange oil	Sigma, PT. Smart Lab, Merck or equivalent	500mL
592.	Paraffin (white soft)	Sigma, PT. Smart Lab, Merck or equivalent	1 kg
593.	Peppermint oil	Sigma, PT. Smart Lab, Merck or equivalent	200ml
594.	Petroleum ether	Sigma, PT. Smart Lab, Merck or equivalent	5000ml
595.	Potassium carbonate	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
596.	Potassium dichromate	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
597.	Propylene glycol	Sigma, PT. Smart Lab, Merck or equivalent	01 L

598.	Resorcinol	Sigma, PT. Smart Lab, Merck or equivalent	100gm
599.	Rose oil	Sigma, PT. Smart Lab, Merck or equivalent	1L
600.	Sodium chloride	Sigma, PT. Smart Lab, Merck or equivalent	01 Kg
601.	Tannic acid	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
602.	Thymol	Sigma, PT. Smart Lab, Merck or equivalent	500 gm
<b>Glassware etc.</b>			
<b>Department of Botany</b>			
1.	Reagent Bottle 100 ml with Screw Cap	Pyrex or equivalent	10
2.	Reagent Bottle 250 ml with Screw Cap	Pyrex or equivalent	50
3.	Reagent Bottle 500 ml with Screw Cap	Pyrex or equivalent	30
4.	Reagent Bottle 1000 ml with Screw Cap	Pyrex or equivalent	15
5.	Glass jars with lids	Pyrex or Equivalent to best quality	10
<b>Department of Petroleum &amp; Gas Engineering</b>			
6.	Beaker	LAB Scientific Glass Beaker Set, 5 Sizes 50ml 100ml 250ml 500ml 1000ml, with Printed Graduation	2 each
7.	Graduated Cylinders	Glass Graduated Cylinder Set Thick Measuring Cylinders 5ml 10 ml 50ml 100ml with 2 Glass Stirring Rod and 1 Brush	2 each
8.	Lab Gloves	Nitrile Exam Gloves, Medium and Large size, Box/100	1 Box each
9.	Lab Coats	White in color, non-reactive material	4
10.	Safety Googles	Used in labs	4
<b>Department of Zoology</b>			
11.	Reagent bottles (screw cap)	Borosilicate, amber/clear, 500 mL	10
12.	Glass Petri plates	Borosilicate glass, 150 mm diameter, autoclavable	30

13.	Test tube stand	Polypropylene or stainless steel, holds 12–24 tubes	5
14.	Screw-cap test tubes	Borosilicate glass, 10–20 mL, autoclavable	10
15.	Media storage bottles	Borosilicate glass, screw cap, 500 mL	5
16.	Glass vials (screw-cap)	Autoclavable, 5–20 mL	20
17.	Glass jars (screw-cap)	Autoclavable, 1 L	10
18.	Glass rods	Solid glass, 6–8 mm dia, 20–30 cm	50
19.	Injection vials	Store chemicals	25
20.	staining jars	verticals, horizontal	20
21.	Glass jars	verticals	10
22.	Falcon tubes	Plant extract centrifuge	25
23.	Injection vials	to keep samples	40
24.	BD Vacutainers	to keep blood samples	30
25.	Glass slides	Plain, 75x 22 mm	2
26.	Coplin Jars	Glass, Vertical type	10
27.	Cover Slips	22 x 22 mm, thin	2
28.	Watch Glass	Medium size	3
29.	Glass Droppers	with rubber bulbs	10
30.	Glass slides (Single cavity)	Single cavity	6
31.	Tes tube Racks	Compatible with glass test tubes	5
32.	Reagent bottles	Glass, amber if possible	3
<b>Department of Human Nutrition and Dietetics</b>			
33.	Gerber Centrifuge Tube	(TD5B Model) 8x20 15ml capacity	50
34.	Funnels	75 mm Diameter	5
35.	Droppers	Plastic material	50
36.	Urine Sample Collection Bottles	Plastic material	50
37.	Capillary Tubes	Length: 75 mm, Internal Diameter: 1.1 mm, Heparinized/Non-Heparinized	50
38.	Stirring Rods	200 mm Length	10
39.	Hematocrit Tubes	75 mm Length,	Pack of 100



		Heparinized/Non-Heparinized, Capillary Glass	
40.	Applicator Sticks/Toothpicks	Wooden or plastic, disposable, approx. 75 mm long	5 packs (100 each)
41.	Blood Grouping Slide or Tile	Glass or white ceramic tile, approx. 75 x 25 mm	50
42.	Lancet	Sterile, single-use, fine tip	10 boxes
43.	White Malmal Cloth	Good quality, Light weigh, smooth texture, 100% cotton	30
44.	Stainer (Set of 3)	Stainless steel (food Grade) medium, large, small with fine mesh	3
45.	Plastic Bottles	Good quality plastic, 200 mL	100
46.	Glass Bottles (Amber)	Amber glass, 200 mL	20
47.	Gloves	Latex, medium size	1 pack
48.	Gloves	Polythene	1 pack
49.	Alcohol Pads	70% Isopropyl Alcohol	1
50.	Cotton Rolls	100% Cotton rolls	2
51.	Prepared Petri Dishes	90 mm, sterile, disposable plastic, vented, with Nutrient Agar	10
52.	Hemocytometer	Glass slide with Neubauer ruling; standard dimensions (30 × 70 mm)	30
53.	Refractometer Sample Cells	Glass, 1 ml	5
54.	Serum Separator Tubes	Glass, 5ml	Pack of 100
55.	RBC Pipettes	Red bead, 0.5 and 101 mark	30
56.	WBC Pipettes	White bead, 0.5 and 11 mark	30
57.	Graduated Serological Pipettes	Glass, 1 ml to 10 ml	3 sets
58.	Microcentrifuge Tubes	1.5 ml, glass	60
59.	Clay sealant	—	500g
60.	Pycnometer / Specific-gravity bottle	Glass, 25–50 mL	1
61.	Filtration assembly / Büchner set / Vacuum	Vacuum flask + funnel + adapter	2

	filtration flask		
62.	Burettes (50 mL)	Glass, with stopcock	50
63.	Boiling Tubes	Borosilicate, 25×150 mm	30
64.	Test Tube Holder	Metal	20
65.	Test Tube Rack	Metal, 12-hole	5
66.	Droppers (Disposable)	Plastic, 3 mL	50
67.	Wash Bottle (Plastic)	500 mL	20
68.	Cling Wrap	Lab-grade, 30 m roll	5
69.	Glucose Strips	For Certiza digital Glucometer strips or equivalent 50/box	5
<b>Department of Pharmacy</b>			
70.	Beaker (2000ml)	Pyrex/Heat Resistant	10
71.	Beaker (1000ml)	Pyrex/Heat Resistant	20
72.	Beaker (100ml)	Pyrex/Heat Resistant	100
73.	Beaker (25 ml)	Pyrex/Heat Resistant	100
74.	Beaker (50 ml)	Pyrex/Heat Resistant	100
75.	Beaker (500 ml)	Pyrex/Heat Resistant	50
76.	China dish	Crucible	100
77.	Cover slip	Glass	30 pack
78.	Glass slides	Glass	50 Boxes
79.	Crucible 20cc	Heat Resistant	50
80.	Crucible 60cc	Heat Resistant	50
81.	Crucible 90cc	Heat Resistant	25
82.	Glass Funnel 60ml	Pyrex	100
83.	Glass Funnel (75ml)	Pyrex	100
84.	Glass stirrer	glass	100
85.	Graduated cylinder (100ml)	Pyrex	50
86.	Graduated cylinder (250ml)	Pyrex	50
87.	Graduated cylinder (50ml)	Pyrex	50
88.	Pipette (1 ml)	Glass	100

89.	Pipette (2 ml)	Glass	100
90.	Pipette (5 ml)	Glass	100
91.	Pipette (10 ml)	Glass	100
92.	Pipette stand good Quality	Multisided pipette holding capacity	10
93.	Pipette suckers	Rubber (High Quality)	500
94.	Stainless steel spatula (M)	Stainless steal	100
95.	Stainless steel spatula (S)	Stainless steal	100
96.	Test tube	Pyrex	1000
97.	Watch glass	Glass	500
98.	Reagent Bottles with stoppers 50ml	Glass	50
99.	Reagent Bottles with stoppers 100ml	Glass	50
100.	Reagent Bottles with stoppers 250ml	Glass	50
101.	Round bottom flask 2 neck 250 ml with flat bottom	Pyrex	50
102.	Round bottom flask 2 neck 100 ml with flat bottom	Pyrex	50
103.	Round bottom flask 500 ml with flat bottom	Pyrex	10
104.	Round bottom flask 250 ml with flat bottom	Pyrex	100
105.	Titration Flask (Conical Flask) 50 ml	Pyrex	100
106.	Titration Flask (Conical Flask) 100 ml	Pyrex	100
107.	Titration Flask (Conical Flask) 250 ml	Pyrex	50
108.	Digital thermometer and Hygrometer	Digital Display	5
109.	Petri Dishes (60mm)	Glass	100
110.	Petri Dishes (90mm)	Glass	100
111.	Flat Bottom flask	(100 mL) neck 24/29	10
112.	Wash Bottle Nozzle Pipe 250ml	Taiwan or Equivalent	50
113.	Stop Cork 24/29	Glass	100

114.	Eppendorf tube	1.5ml plastic (pack size 500)	3 packs
115.	Micro centrifuge tubes	2ml plastic	3 packs
<b>Department of Mechatronics Engineering</b>			
116.	Soldering wire	RF4 RF-054D 0.4Mm Lead Free High Purity 50gm	3
117.	soldering flux	Mechanic Soldering Flux Paste 35Gram Soldering Tin MCN 300 Solder Welding Cream Sn63 Pb37 XG50	10
118.	pin to pin jumper wires	65pcs Jump Wire Cable	10
119.	Hole to hole jumper wire	20cm Hole To Hole Jumper Wire Dupont Line	10
120.	pin to hole jumper wire	10cm Pin To Hole Jumper Wire Dupont Line	10
121.	74LS00	Quad 2 input NAND gates	50
122.	74LS02	Quad 2 input NOR gates	50
123.	74LS04	Hex Inveter	50
124.	74LS08	Quad 2 input AND gates	100
125.	74LS32	Quad 2 input OR gates	100
126.	74LS74	Edge triggered D-Flip Flop	50
127.	74LS86	Quad 2 input XOR gates	50
128.	74LS266	Quad 2 input XNOR gates	50
129.	74LS139	Dual 2- to 4 line decoder	25
130.	74LS151	8X1 multiplexer	25
131.	74LS161	4 bit sync. up/down counter	25
132.	NE555	Timer IC, for pulse generation etc.	25
133.	Zener Diode	5V, 12V	100
134.	Buzzer	5V	50

135.	Capacitors	10 $\mu$ F, 25 $\mu$ F, 47 $\mu$ F, 100 $\mu$ F, 470 $\mu$ F, 1000 $\mu$ F (50V)	300
136.	Inductors	33H, 100H, 330H, 470H, 1KH (Imax=5A)	500
137.	Resistors	2.5k, 560R, 8.2k, 1K, 10K (1/4 W)	500
138.	Potentiometer	Single turn metallic (1K, 5K, 10K, 100K)	400
139.	Battery for multi-meters	9V Battery High quality alkaline battery	100
140.	Fuses	250mA for DMM	100
141.	7 segment display	Common Anode	50

**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 and final contract will be awarded as per item wise to the lowest bidder after completion of codal formalities through e-PADS. The bidder will follow the bidding documents in true letter and spirit.

## **Annexure- A    Technical Proposal Covering Letter**

To

**The Directorate of Purchase& Store(P&S),**  
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/documents along with the Bid

### **SUBMISSION AND ARRANGEMENT OF SUPPORTING DOCUMENTS WITH THE TECHICAL BID THROUGH E-PADS.**

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:

documents in the following order:

Enclosures of Technical Proposal		Attached YES/N O	Page#
1	Covering Letter		
2	Copy of Income Tax Registration Certificate		
3	Copy of Sales Tax Registration Certificate		
4	Copy of Professional Tax Challan		
5	Affidavit/Undertaking on the Stamp Paper		
6	Specifications of quoted items on the Letter Head of the bidder with signs/stamp		
7	Three Supply Orders for supply of relevant items received in the past		
8	The specified catalogues / brochures of items quoted by the bidder		
<b>Note:</b> 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	
9	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.		

<b>Enclosures of Financial Proposal</b>		<b>Attach ed YES/N o</b>	<b>Page #</b>
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	Copy of Bid Security in shape of Bank Draft, Pay Order or CDR.		

## **Annexure- C Bid Form**

### A) Profile of the Bidder:

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

### B) Bid Security

<b><u>S#</u></b>	<b>Particulars</b>	<b>Please Furnish Details</b>
1	Name of the Bank	
2	Instrument Number and Date	
3	Name of Instrument i.e CDR, Pay Order/Bank Draft etc....	
4	Amount	



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

Ref: **Tender No. 07/2025 (PURCHASE OF CHEMICAL & GLASSWARE)**

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/Evaluation Committee of University of Chakwal is not bound to accept the lowest or any of the bids received. We also agree that the Purchase/Evaluation 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 amended up to date.

*[Name and Signatures of authorized Person along with stamp]*

## **Annexure- E**

## **Financial Proposal Form**

(to be attached with Financial Proposal)

To

**The Directorate of Purchase & Store (P&S),**  
University of Chakwal,  
Chakwal.

Dear Sir,

With Reference to your Tender No.07/2025 of PURCHASE OF CHEMICAL & GLASSWARE; 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. \_\_\_\_\_/- (In Words) 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 with signs/stamps)***

### **PURCHASE OF CHEMICAL & GLASSWARE**

<b>Chemicals</b>					
<b>Sr #</b>	<b>Name of Item</b>	<b>Specifications</b>	<b>Quantity</b>	<b>Unit Price +GST (Rs.)</b>	<b>Total Amount +GST (Rs.)</b>
<b>Department of Botany</b>					
1.	Lactophenol Cotton Blue (LPCB)		25 ml		
2.	Lactophenol		100 ml		
3.	Ethanol		1.5 L		
4.	Potassium Hydroxide (KOH)		100 g		
5.	Glycerol		250 ml		
6.	Tween 20		1 L		
7.	Dextrose (Glucose) powder		500 g		
8.	Indole-3-acetic acid (IAA)		25 g		
9.	Naphthalene-3-acetic acid		25 g		
10.	Glacial acetic acid		1 L		
11.	Sulfuric acid		2.5 L		
12.	Ammonium acetate		1 kg		
13.	Calcium chloride		1 kg		
14.	Citric acid		1 kg		
15.	Cobalt nitrate		100 gm		
16.	Ferric (III) chloride		500 gm		
17.	Gallic acid		100 gm		
18.	Manganese acetate		500 gm		
19.	Potassium chloride		1 kg		
20.	Potassium hydroxide		1 kg		
21.	Salicylic acid		1 kg		
22.	Acid ninhydrin		25 gm		

23.	Sodium citrate		1 kg		
24.	Sodium hydroxide		1 kg		
25.	Starch		1 kg		
26.	Aluminum sulphate		500 gm		
27.	Ammonia		2.5 L		
28.	Ascorbic acid		250 gm		
29.	Lead acetate		1 kg		
30.	Lead nitrate		1 kg		
31.	Magnesium nitrate		1 kg		
32.	Mercuric chloride		100 gm		
33.	Methyl orange		25 gm		
34.	Methyl red		25 gm		
35.	Methyl violet		25 gm		
36.	Methylene blue dye		25 gm		
37.	Potassium iodide		100 gm		
38.	Sodium chloride		1 kg		
39.	Zinc acetate		1 kg		
40.	Zinc nitrate		500 gm		
41.	Zinc sulphate		500 gm		
42.	DPPH (2,2-Diphenyl-1-picrylhydrazyl)		1 gm		
43.	Phosphoric acid		2.5 L		
44.	Sodium acetate		500 gm		
45.	Boric acid		1 kg		
46.	Dimethyl sulfoxide (DMSO)		2.5 L		
47.	Ethyl acetate		2.5 L		
48.	Glacial acetic acid		4 L		
49.	Methanol		2.5 L		
50.	Nitric acid		4 L		
51.	Acetone		2.5 L		
52.	Ferric chloride		500 gm		
53.	Concentrated		2.5 L		

	sulphuric acid				
54.	Petroleum ether		2.5 L		
55.	Sulfosalicylic acid		100 gm		
56.	Phosphate buffer solution		500 ml		
57.	Ethylenediamine tetraacetic acid (EDTA)		1 kg		
<b>Department of Petroleum &amp; Gas Engineering</b>					
58.	Barite		2 kg		
59.	Xylene		5L		
60.	Bentonite		2.5 kg		
61.	Xanthan Gum		500 g		
62.	Toluene		2 L		
63.	2-propanol		1 L		
64.	Hydrogen Peroxide		1 L		
65.	Diesel		5L		
66.	Sucrose		2 Kg		
67.	Nitrogen Gas		=4 (cylinders+		
<b>Department Of Zoology</b>					
68.	Nutrient agar		40		
69.	Agar-agar		10		
70.	Nutrient broth		20		
71.	Yeast extract		1		
72.	Glycerine		1		
73.	Paraffin wax oil		1		
74.	Acetone		120		
75.	Ethanol		120		
76.	Methanol		120		
77.	Sodium chloride (NaCl)		1		
78.	Potassium chloride (KCl)		1		
79.	Magnesium sulfate (MgSO <sub>4</sub> )		1		
80.	Ammonium sulfate ((NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> )		1		

81.	Calcium chloride (CaCl <sub>2</sub> )		1		
82.	Ferrous sulfate (FeSO <sub>4</sub> )		1		
83.	Sodium thiosulfate		1		
84.	Ferric citrate / ferrous ammonium sulfate		1		
85.	Sodium bicarbonate		1		
86.	Sodium phosphate dibasic (Na <sub>2</sub> HPO <sub>4</sub> )		1		
87.	Potassium phosphate monobasic (KH <sub>2</sub> PO <sub>4</sub> )		1		
88.	Bile salts		1		
89.	Sodium deoxycholate		1		
90.	Potassium tellurite		1		
91.	Lithium chloride		1		
92.	Sodium azide		1		
93.	Gram stain kit		1		
94.	Crystal violet		1		
95.	Iodine solution		1		
96.	Safranin		1		
97.	Methylene blue		1		
98.	Malachite green		1		
99.	Ziehl–Neelsen reagents		1		
100.	Hydrogen peroxide		1		
101.	Kovac’s reagent		1		
102.	Normal saline		1		
103.	PBS buffer		1		
104.	Inoculating loops (metal & disposable)		1		
105.	Glass spreaders		1		
106.	Filter paper		1		
107.	Parafilm		1		
108.	Aluminum foil		1		
109.	Cotton plugs		1		
110.	Gloves		1		

111.	Masks		1		
112.	Zip-lock bags (sizes)		1		
113.	Blood collection tubes		1		
114.	Transport swabs		1		
115.	Eppendorf tubes with stands		1		
116.	Falcon tubes (15 & 50 mL) with stands		1		
117.	Sharps container		1		
118.	Chromic acid / Glassware cleaner		1		
119.	Detergent / Liquid soap		1		
120.	Surf		1		
121.	Disinfectants		1		
122.	Autoclave tape		1		
123.	Hista-Flex (Elite)		10		
124.	Hematoxylin		1		
125.	Eosin powder		1		
126.	DISTILLED WATER		1		
127.	Glacial Acetic acid		1		
128.	xylene		1		
129.	Alizarin red		1		
130.	RBC count solution		1		
131.	WBC count solution		1		
132.	Potash alum		1		
133.	Sodium iodate		1		
134.	Biohazard bags		1		
<b>Department of Human Nutrition and Dietetics</b>					
135.	EDTA		500 mL		
136.	Leishman Stain / Wright's Stain		500 mL each		
137.	Drabkin's Reagent		500 mL		
138.	Wintrobe's Solution		500 mL		
139.	Saline Solution		500 mL		

140.	Crystal Violet		250 mL		
141.	Iodine Solution		250 mL		
142.	Alcohol		500 mL		
143.	Safranin		250 mL		
144.	Nutrient Agar		500 g		
145.	MacConkey Agar		500 g		
146.	Anti-A Antisera		10 mL × 1 vial		
147.	Anti-B Antisera		10 mL × 1 vial		
148.	Anti-D Antisera		10 mL × 1 vial		
149.	Isotonic Saline (0.9% NaCl)		500 mL		
150.	Sodium Citrate (3.8%)		500 mL		
151.	Turk's Fluid		500 mL		
152.	Thromboplastin Reagent with Calcium		10 mL vial		
153.	Sodium Citrate (3.2%)		500 mL		
154.	Benedict's solution		500ml		
155.	Biuret reagent		500ml		
156.	Iodine solution		250ml		
157.	Sudan III or IV		100g (powder) or 250ml (liquid)		
158.	Salts for electrolyte balance		100g		
159.	Sucrose standards		100g		
160.	Starch standards		100g		
161.	Protein standards		100g		
162.	Digestion Tablets		100 tablets		
163.	Coffee		2 jars of kg		
164.	Americans' almond		2 kg		
165.	Dates		2kg		
166.	Dates		2kg		
167.	Fox nuts		1kg		
168.	Roasted grams		3		



169.	Resins		2kg		
170.	Rosemarry		500g		
171.	Habiscus flower powder		1kg		
172.	Citrus peel powder		1kg		
173.	Rose flower		1kg		
174.	Buffer pH 4		1 L		
175.	Buffer pH 5		1 L		
176.	Buffer pH 6		1 L		
177.	Cling wrap		5		
178.	Licorice		1 kg		
179.	Walnuts		1kg		
180.	Honey		4 kg		
181.	Maida		1 kg		
182.	Sugar		5 kg		
183.	Baking powder		100g		
184.	Coconut essence		50 mL		
185.	Coconut powder		1 Kg		
186.	Peanuts		5 kg		
187.	Elaichi flavour		500 gm		
188.	Sesame seeds		1 kg		
189.	Walnut		5 kg		
190.	Butter		1/2 Kg		
191.	Potassium metabisulphite		1 kg		
192.	Citric acid		1 kg		
193.	Sodium benzoate		50 mL		
194.	Alaichi (cardamom)		250g		
195.	Spearmint Tea		500g		
196.	Olive Oil		2 Ltr		
197.	Sterile culture vials / bottles		100 pcs		
198.	Fehling's Solution A		1 L		

199.	Fehling's Solution B		1 L		
200.	Benedict's Reagent		1L		
201.	Disodium Hydrogen Phosphate ( $\text{Na}_2\text{HPO}_4$ )		500 g		
202.	Sodium Dihydrogen Phosphate ( $\text{NaH}_2\text{PO}_4$ )		500 g		
203.	Citric Acid		500 g		
204.	Sodium Citrate		250 g		
205.	Molisch's Reagent		500mL		
206.	Lugol's Solution		100mL		
207.	Sodium Acetate		250 g		
208.	Calcium Chloride ( $\text{CaCl}_2$ )		250 g		
209.	Tris Base		500g		
<b>Department of Pharmacy</b>					
210.	Acetylcholine injection		2 packs		
211.	Ethyl alcohol		7.5 L		
212.	Cetostearyl alcohol		2 kg		
213.	Wool fat		2 kg		
214.	Ferric Chloride ( $\text{FeCl}_3$ )		2 Kg		
215.	Xanthan Gum		2 kg		
216.	Aloe vera extract powder		500 g		
217.	Methylated Spirit		30 liters		
218.	Pyodine (60ml)		20pack (60ml each)		
219.	Burners Thread		10		
220.	Magnesium chloride		5kg		
221.	Glucose		5kg		
222.	Sodium hydrogen carbonate		2kg		
223.	Wiregauze for tripod stand		100 Nos		
224.	Trichloroethanal		1 liter		
225.	Balijet's reagent		2liter		
226.	Test tube Holder		60 Nos		

227.	Sodium Di hydrogen Phosphate		2kg		
228.	Potassium Phosphate monobasic		2kg		
229.	Magnesium Sulphate Monohydrate		2kg		
230.	Di sodium hydrogen Phosphate heptahydrate		2kg		
231.	Diazepam injection		3 packs		
232.	Paracetamol Injection		5 packs		
233.	Calamine		2 kg		
234.	Cod liver oil		1 liter		
235.	Ketamine injection		2 packs		
236.	Tramadol injection		5 packs		
237.	Pilocarpine eyedrops		30		
238.	Dicloran Injection		05 packs		
239.	Adrenaline inj. Vial		02 packs		
240.	Phenyl ephrine eyedrops		02 packs		
241.	Lignocaine injection		02 packs		
242.	Lignocaine gel		5 packs		
243.	Antisera A, B and D		05 each		
244.	Atropine sulphate		10 gm		
245.	Calcium chloride		05 Kg		
246.	Cedar wood oil		1L		
247.	Dextrose		03 kg		
248.	Homatropine eyedrops		10		
249.	Di sodium hydrogen PO <sub>4</sub>		01 kg		
250.	Diethyl ether		2.5 L		
251.	Dihydrogen Potassium Phosphate		01 Kg		
252.	Di-potassium hydrogen PO <sub>4</sub>		04 Kg		
253.	Pentylene tetrazole		50g		
254.	Lithium Chloride		1kg		
255.	Naproxen 5% injection		2 packs		

256.	EDTA powder		500 gm		
257.	Ibuprofen Injection		02 packs		
258.	Ethanol		05 L		
259.	Gentian Violet		25 gm		
260.	Glacial Acetic acid		2.5 L		
261.	HCl		2.5 L		
262.	Heparin injection		02 packs		
263.	Leishman's powder		25 gm		
264.	Midazolam injection		02 packs		
265.	Magnesium sulphate heptahydrate		01 Kg		
266.	Mercuric Chloride		100 gm		
267.	Methanol		5 liter		
268.	Potassium chloride		02 Kg		
269.	Potassium hydroxide		01 Kg		
270.	Potassium meta-bisulphite		500 gm		
271.	Sodium bicarbonate		02 Kg		
272.	Sodium chloride		04 Kg		
273.	Turk Solution		500ml		
274.	Haeym Solution		500ml		
275.	Sodium citrate (anhydrous)		500 gm		
276.	Fluoxetine injection		2 packs		
277.	Sodium dihydrogen PO <sub>4</sub> monohydrate		01 Kg		
278.	Sodium hydroxide		01 Kg		
279.	Sodium phosphate dibasic/ Disodium hydrogen phosphate		01 Kg		
280.	Sodium Phosphate Monobasic/ Sodium dihydrogen monohydrate		01 Kg		
281.	Sodium Sulphate anhydrous		500 gm		
282.	Sodium Lactate		500ml		
283.	1-naphthol		250 gm		

284.	2-propanol (anhydrous)		2.5 L		
285.	3,5 dinitro salicylic acid		500 gm		
286.	Acetyl chloride		100ml		
287.	Acetone		2.5 L		
288.	Acetophenone		500 ml		
289.	Acetic Acid		5 L		
290.	Zinc oxide		2 kg		
291.	Pectin		1 kg		
292.	Acetyl salicylic acid		1kg		
293.	Koalin		1kg		
294.	Hard soap		1kg		
295.	Aluminium isopropoxide		500 gm		
296.	Ammonium iron (II) sulphate dodecahydrate		500 gm		
297.	Albumin		100g		
298.	Aniline		2.5 L		
299.	Ammonia solution		2.5L		
300.	Ascorbic acid		1 kg		
301.	Aspartic acid		250 gm		
302.	Bees wax		1kg		
303.	Benzaldehyde		500 mL		
304.	Benzamide		200 gm		
305.	Benzene		05 L		
306.	Benzoic acid		1 Kg		
307.	Benzophenone		01 Kg		
308.	Benedict's reagent		500ml		
309.	Bromine water		1 L		
310.	Barfoed reagent		1 L		
311.	Biurette reagent		500ml		
312.	Calcium hydroxide		04 kg		
313.	Chlorobenzene		2.5 L		

314.	Chloroform		10 L		
315.	cholesterol		100g		
316.	Citric acid		2kg		
317.	Copper sulphate		4 Kg		
318.	Coconut oil		1L		
319.	Creatinine		25 gm		
320.	Cupric acetate		500 gm		
321.	Cupric oxide		500 g		
322.	Ceto stearyl alcohol		1kg		
323.	Dextrose		01 Kg		
324.	Dichloromethane		05 L		
325.	Diammonium oxalate		500g		
326.	Disodium hydrogen phosphate		01 Kg		
327.	D-saccharose		2 kg		
328.	Ethanol		05 L		
329.	Ethyl acetate		2.5L		
330.	Eisen chloride.6H <sub>2</sub> O(FeCl <sub>3</sub> )		2kg		
331.	Fructose		2kg		
332.	Gelatin		1kg		
333.	Glycine		500g		
334.	L-Histidine		25 gm		
335.	Hydrochloric acid		7.5 L		
336.	Hopkins cole reagent		1L		
337.	Iodine		200		
338.	Iron sulphate		2 kg		
339.	Isoamyl alcohol		2.5 L		
340.	Lactose		1 kg		
341.	Lanoline/wool wax		500g		
342.	Lead acetate		1kg		
343.	Litmus paper blue		10 Packs		
344.	Litmus paper red		10 Packs		

345.	Lugol's iodine		500ml		
346.	Magnesium carbonate		03 Kg		
347.	Maleic acid		1kg		
348.	Magnesium sulphate (anhydrous)		01 Kg		
349.	Dragendroff's reagent		1 liter		
350.	Maltose		500 gm		
351.	Methyl red		25 gm		
352.	Wagner's reagent		3 liter		
353.	Methyl salicylate		500ml		
354.	Molybdic acid		500 gm		
355.	Molisch reagent		1 L		
356.	Naphthalene		01 Kg		
357.	Ninhydrin		50 gm		
358.	n-Hexane		2.5L		
359.	Ninhydrin solution		1 L		
360.	Nitric acid		2.5 L		
361.	Oxalic acid		2kg		
362.	pH buffer 4 (25-03-24)		1L		
363.	pH buffer 7 (25-03-24)		1L		
364.	Dragendroff's reagent		2liter		
365.	Hager's reagent		2 liter		
366.	pH buffer 10 (25-03-24)		1L		
367.	Para-amino phenol		1 Kg		
368.	Washing Sponges		50 Nos		
369.	Test Tube Washing Brushes		50 Nos		
370.	Measuring Cylinder Brushes		50 Nos		
371.	Petroleum ether		2.5 L		
372.	Phenol		500 gm		
373.	Phenol solution		1L		
374.	Phenol red		25 gm		

375.	Phenolphthalein		200 gm		
376.	Phenyl hydrazine hydrochloride		250 g		
377.	Phloroglucinol		100 gm		
378.	Phosphoric acid		2.5 L		
379.	Phthalic anhydride		500 gm		
380.	Picric acid		500 ml		
381.	Potassium hydroxide		2 kg		
382.	Stainless Steel spiral		3 Dozen		
383.	Potassium iodide		500 g		
384.	Potassium permanganate		500 g		
385.	Potassium sodium tartarate		500 g		
386.	Paraffin oil		5 L		
387.	Pyridine		1 L		
388.	Resorcinol		100 gm		
389.	Salicylic acid		1kg		
390.	Silver nitrate		100 gm		
391.	Seliwanoff's reagent		1 L		
392.	Salkawoski reagent		500ml		
393.	Sodium dodecyl sulphate		500 g		
394.	Schiff reagent		500ml		
395.	Sodium dihydrogen phosphate monohydrate		3 kg		
396.	RBC Pippet		50 Nos		
397.	WBC Pippet		50 Nos		
398.	Sodium di sulphite		1 kg		
399.	Sodium carbonate		2kg		
400.	Sodium hydrogen carbonate		3kg		
401.	Sodium iodide		500g		
402.	Sodium sulphate		1kg		
403.	Sodium acetate		1kg		



404.	Sodium hydrogen sulphate		500 gm		
405.	Sodium hydroxide		1 Kg		
406.	Sodium nitrate		1 kg		
407.	Sodium nitrite		1kg		
408.	Sodium nitroprusside		10 gm		
409.	Sodium phosphate dibasic/ Disodium hydrogen phosphate		1 Kg		
410.	Sodium thiosulphate		1kg		
411.	Sodium tungstate		500g		
412.	Starch		1 Kg		
413.	Sulphanilic acid		3 L		
414.	Sulphur		1kg		
415.	Tartaric acid		1kg		
416.	Tollen's reagent		1L		
417.	Tri-sodium citrate.2H <sub>2</sub> O		1Kg		
418.	Thionyl Chloride		1Kg		
419.	Thiosemicarbazide		100 g		
420.	Universal pH paper		05 Packs		
421.	Urea		500 gm		
422.	Uric acid		25 gm		
423.	Zinc dust		500 gm		
424.	Acacia Gum		500 Gm		
425.	Carboxymethyl Cellulose		500 Gm		
426.	Cetomacrogol		500 Gm		
427.	Cetoceryl alcohol		500 Gm		
428.	Cocoa Butter		500 Gm		
429.	Dipotassium Hydrogen Phosphate		1 Kg		
430.	Gelatin		1 Kg		
431.	Glycerine		1 Kg		
432.	Bentonite clay		2kg		

433.	Carbopol 940		2 kg		
434.	Triethanolamine		2 kg		
435.	Hard Parafin		250 Gm		
436.	HPMC		500 Gm		
437.	Lactose		1 Kg		
438.	Liquid Parafin		1 Ltr		
439.	Magnesium hydroxide		1 Kg		
440.	Magnesium Stereate		500 Gm		
441.	Methyl Benzoate		1 Ltr		
442.	Methyl Paraben		250 Gm		
443.	PEG 400		500 Gm		
444.	PEG 4000		500 Gm		
445.	Potassium Dihydrogen Phosphate		500 Gm		
446.	Propyl Parabin		250 Gm		
447.	PVP K30		250 Gm		
448.	Sodium Bicarbonate		500 Gm		
449.	Sodium Carbonate		500 Gm		
450.	Sodium Laurylsulphate		250 Gm		
451.	Starch		2 Kg		
452.	Stearic Acid		250 Gm		
453.	Sucrose		1 Kg		
454.	Talc		1 Kg		
455.	Tartaric Acid		500 Gm		
456.	Tragacanth		500 Gm		
457.	Tween 80		1 liter		
458.	Ferric chloride		01 kg		
459.	Glucose		01 kg		
460.	Talcum powder		1kg		
461.	Methyl orange		100gm		
462.	Methyl red		100gm		
463.	Oxalic acid		01 kg		

464.	Phenolphthalein		500gm		
465.	Dimagnesium tri silicate		1kg		
466.	Kainic acid		25mg		
467.	Potassium dichromate		01 kg		
468.	Potassium hydroxide		01 kg		
469.	Potassium iodide		500gm		
470.	Potassium permanganate		01 kg		
471.	Sodium bicarbonate		01 kg		
472.	Sodium carbonate		01 kg		
473.	Sodium hydrogen carbonate		01 kg		
474.	Sodium hydroxide		02 kg		
475.	Sodium nitrate		01 kg		
476.	Starch		01 kg		
477.	Castor oil		1 liter		
478.	Zinc chloride		01 kg		
479.	Sodium alginate		2 kg		
480.	Acetone		2.5L		
481.	Butanol		2.5L		
482.	Ethanol		2.5L		
483.	Ethyl acetate		2.5L		
484.	Methanol		5L		
485.	n-hexane		2.5L		
486.	Nitric acid		2.5L		
487.	Petroleum ether		2.5L		
488.	Sulphuric acid		2.5L		
489.	Toluene		2.5L		
490.	Washing acetone		05 L		
491.	Xylene		2.5L		
492.	Ammonium Chloride		500 gm		
493.	Barium Chloride		01 Kg		

494.	Chloral Hydrate		500 gm		
495.	Crystal Violet		25 gm		
496.	Carbol Fucsin		500 ml		
497.	Chlorine		500 gm		
498.	Eosin		25 gm		
499.	Ferrous Sulphate		500 gm		
500.	Ferric Chloride		500 gm		
501.	Gention Violet		25 gm		
502.	Lead Acetate		500 gm		
503.	Malachite Green		25 gm		
504.	Methyl Blue		25 gm		
505.	Methyl Orange		25 gm		
506.	Nutrient Agar		500 gm		
507.	Nutrient Broth		500g		
508.	Broth agar		500g		
509.	Macconkey agar		500g		
510.	Gram iodine		1 liter		
511.	Phenol Red		25 gm		
512.	Phenolphthalein		500 gm		
513.	Potassium Iodide		500 gm		
514.	Safranin		25 gm		
515.	Sodium Hydroxide		01 Kg		
516.	Sodium Chloride		01 Kg		
517.	Sulphur		500 gm		
518.	Bovine Serum Albumin		25 gm		
519.	Macconkey Agar		500 gm		
520.	Soya Peptone		500 gm		
521.	Mueller Hinton Agar		500 gm		
522.	Luria Bertani Agar		500 gm		
523.	Bayer Reagent		01 ltr		
524.	Normal Saline		10 ltr.		

525.	Tollens Reagent		1Ltr		
526.	Zn Stain		500ml		
527.	Hydrogen Peroxide		01 ltr		
528.	Isoamyl Alcohol		01 ltr		
529.	Acetone		5L		
530.	Ammonium hydroxide		2.5 ltr.		
531.	Ethanol		2.5 ltr.		
532.	Methylene chloride		2.5 ltr.		
533.	Potato Dextrose Agar		500g		
534.	Gram staining Kit		500ml		
535.	Plane Agar		500g		
536.	Antibiotic Disc Gentamycin (Liofilmchem)		1pack		
537.	Antibiotic Disc Chloramphenicol (Liofilmchem)		1pack		
538.	Antibiotic Disc Augmentin (Liofilmchem)		1pack		
539.	Antibiotic Disc Cefazolin (Liofilmchem)		1pack		
540.	Antibiotic Disc Ceftazidime (Liofilmchem)		1pack		
541.	Antibiotic Disc Ertapenem (Liofilmchem)		1pack		
542.	Antibiotic Disc Amoxycillin (Liofilmchem)		1pack		
543.	Antibiotic Disc Vancomycin (Liofilmchem)		1pack		
544.	Antibiotic Disc Oxacillin (Liofilmchem)		1pack		
545.	Antibiotic Disc Methicillin (Liofilmchem)		1pack		
546.	Aluminum chloride		01 Kg		
547.	Aluminum hydroxide		01 Kg		
548.	Aluminum sulphate		01 Kg		

549.	Ammonium chloride		01 Kg		
550.	Anise oil		500 mL		
551.	Arachis oil		500 mL		
552.	Caffeine powder		25 gm		
553.	Calcium phosphate di basic		1 kg		
554.	Camphor		250 g		
555.	Giemsa powder		50gm		
556.	Carbol fuchsin		50 gm		
557.	Choral hydrate		10 gm		
558.	Clove oil		1000 ml		
559.	Copper acetate monohydrate		500 g		
560.	Copper sulphate pentahydrate		1 kg		
561.	Crystal violet dye		25 gm		
562.	Dichloromethane DCM+DCM pursis		2.5L+2.5L		
563.	Ethanol absolute		5000ml		
564.	Ethyl acetate		5000ml		
565.	Ethylene glycol		5000ml		
566.	Fehling solution A		2000ml		
567.	Fehling solution B		2000 mL		
568.	L - Glutamic acid		100 mg		
569.	Glycine/Glycerol		2.5 L		
570.	Lemon oil		1000ml		
571.	Malachite green		25 mg		
572.	Hanging drop slide		6		
573.	Aluminum Foil		3 packs		
574.	Cotton		4		
575.	Ointment empty boxes		4*12= 48		
576.	Dispensing bottle plastic		1000		
577.	Agar well borer		4*12=48		
578.	Urine bottle		2*12=24		

579.	Masks		2*12=24		
580.	Gloves		2*12=24		
581.	Small and large brushes		10		
582.	Mayer's reagent		1liter		
583.	Mercuric Chloride		100 gm		
584.	Immersion oil		1 liter		
585.	Sorbitol		1kg		
586.	Methylene blue		50g		
587.	Mustard oil		200ml		
588.	<i>n</i> -Hexane		5000ml		
589.	Nitric acid 65%		2.5 L		
590.	Nutmeg oil		1000ml		
591.	Orange oil		500mL		
592.	Paraffin (white soft)		1 kg		
593.	Peppermint oil		200ml		
594.	Petroleum ether		5000ml		
595.	Potassium carbonate		500 gm		
596.	Potassium dichromate		500 gm		
597.	Propylene glycol		01 L		
598.	Resorcinol		100gm		
599.	Rose oil		1L		
600.	Sodium chloride		01 Kg		
601.	Tannic acid		500 gm		
602.	Thymol		500 gm		
<b>Total Amount including all Taxes</b>					

<b>Glassware etc.</b>					
<b>Department of Botany</b>					
1.	Reagent Bottle 100 ml with Screw Cap		10		
2.	Reagent Bottle 250 ml with Screw Cap		50		
3.	Reagent Bottle 500 ml with Screw Cap		30		

4.	Reagent Bottle 1000 ml with Screw Cap		15		
5.	Glass jars with lids		10		
<b>Department of Petroleum &amp; Gas Engineering</b>					
6.	Beaker		2 each		
7.	Graduated Cylinders		2 each		
8.	Lab Gloves		1 Box each		
9.	Lab Coats		4		
10.	Safety Googles		4		
<b>Department of Zoology</b>					
11.	Reagent bottles (screw cap)		10		
12.	Glass Petri plates		30		
13.	Test tube stand		5		
14.	Screw-cap test tubes		10		
15.	Media storage bottles		5		
16.	Glass vials (screw- cap)		20		
17.	Glass jars (screw- cap)		10		
18.	Glass rods		50		
19.	Injection vials		25		
20.	staining jars		20		
21.	Glass jars		10		
22.	Falcon tubes		25		
23.	Injection vials		40		
24.	BD Vacutainers		30		
25.	Glass slides		2		
26.	Coplin Jars		10		
27.	Cover Slips		2		
28.	Watch Glass		3		
29.	Glass Droppers		10		
30.	Glass slides (Single		6		



	cavity)				
31.	Test tube Racks		5		
32.	Reagent bottles		3		
<b>Department of Human Nutrition and Dietetics</b>					
33.	Gerber Centrifuge Tube		50		
34.	Funnels		5		
35.	Droppers		50		
36.	Urine Sample Collection Bottles		50		
37.	Capillary Tubes		50		
38.	Stirring Rods		10		
39.	Hematocrit Tubes		Pack of 100		
40.	Applicator Sticks/Toothpicks		5 packs (100 each)		
41.	Blood Grouping Slide or Tile		50		
42.	Lancet		10 boxes		
43.	White Malmal Cloth		30		
44.	Stainer (Set of 3)		3		
45.	Plastic Bottles		100		
46.	Glass Bottles (Amber)		20		
47.	Gloves		1 pack		
48.	Gloves		1 pack		
49.	Alcohol Pads		1		
50.	Cotton Rolls		2		
51.	Prepared Petri Dishes		10		
52.	Hemocytometer		30		
53.	Refractometer Sample Cells		5		
54.	Serum Separator Tubes		Pack of 100		
55.	RBC Pipettes		30		
56.	WBC Pipettes		30		

57.	Graduated Serological Pipettes		3 sets		
58.	Microcentrifuge Tubes		60		
59.	Clay sealant		500g		
60.	Pycnometer / Specific-gravity bottle		1		
61.	Filtration assembly / Büchner set / Vacuum filtration flask		2		
62.	Burettes (50 mL)		50		
63.	Boiling Tubes		30		
64.	Test Tube Holder		20		
65.	Test Tube Rack		5		
66.	Droppers (Disposable)		50		
67.	Wash Bottle (Plastic)		20		
68.	Cling Wrap		5		
69.	Glucose Strips		5		
<b>Department of Pharmacy</b>					
70.	Beaker (2000ml)		10		
71.	Beaker (1000ml)		20		
72.	Beaker (100ml)		100		
73.	Beaker (25 ml)		100		
74.	Beaker (50 ml)		100		
75.	Beaker (500 ml)		50		
76.	China dish		100		
77.	Cover slip		30 pack		
78.	Glass slides		50 Boxes		
79.	Crucible 20cc		50		
80.	Crucible 60cc		50		
81.	Crucible 90cc		25		
82.	Glass Funnel 60ml		100		

83.	Glass Funnel (75ml)		100		
84.	Glass stirrer		100		
85.	Graduated cylinder (100ml)		50		
86.	Graduated cylinder (250ml)		50		
87.	Graduated cylinder (50ml)		50		
88.	Pipette (1 ml)		100		
89.	Pipette (2 ml)		100		
90.	Pipette (5 ml)		100		
91.	Pipette (10 ml)		100		
92.	Pipette stand good Quality		10		
93.	Pipette suckers		500		
94.	Stainless steel spatula (M)		100		
95.	Stainless steel spatula (S)		100		
96.	Test tube		1000		
97.	Watch glass		500		
98.	Reagent Bottles with stoppers 50ml		50		
99.	Reagent Bottles with stoppers 100ml		50		
100.	Reagent Bottles with stoppers 250ml		50		
101.	Round bottom flask 2 neck 250 ml with flat bottom		50		
102.	Round bottom flask 2 neck 100 ml with flat bottom		50		
103.	Round bottom flask 500 ml with flat bottom		10		
104.	Round bottom flask 250 ml with		100		

	flat bottom				
105.	Titration Flask (Conical Flask) 50 ml		100		
106.	Titration Flask (Conical Flask) 100 ml		100		
107.	Titration Flask (Conical Flask) 250 ml		50		
108.	Digital thermometer and Hygrometer		5		
109.	Petri Dishes (60mm)		100		
110.	Petri Dishes (90mm)		100		
111.	Flat Bottom flask		10		
112.	Wash Bottle Nozzle Pipe 250ml		50		
113.	Stop Cork 24/29		100		
114.	Eppendorf tube		3 packs		
115.	Micro centrifuge tubes		3 packs		
<b>Department of Mechatronics Engineering</b>					
116.	Soldering wire		3		
117.	soldering flux		10		
118.	pin to pin jumper wires		10		
119.	Hole to hole jumper wire		10		
120.	pin to hole jumper wire		10		
121.	74LS00		50		
122.	74LS02		50		
123.	74LS04		50		
124.	74LS08		100		
125.	74LS32		100		
126.	74LS74		50		

127.	74LS86		50		
128.	74LS266		50		
129.	74LS139		25		
130.	74LS151		25		
131.	74LS161		25		
132.	NE555		25		
133.	Zener Diode		100		
134.	Buzzer		50		
135.	Capacitors		300		
136.	Inductors		500		
137.	Resistors		500		
138.	Potentiometer		400		
139.	Battery for multi-meters		100		
140.	Fuses		100		
141.	7 segment display		50		
<b>Total Amount including all Taxes</b>					

## **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 Tender 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