

ABBOTTABAD UNIVERSITY
OF SCIENCE AND TECHNOLOGY



TENDER DOCUMENT

**Purchase of Equipment, Glassware and chemicals for Laboratories of
Pharmacy Department**

Price Rs. 1000/-,
(in shape of pay order
in favor of Treasurer)

INVITATION TO BID

Sealed Bids are invited as per single stage two envelope procedure of KPPRA Rules, from firms/companies registered with Income tax and Sales tax Department and having similar past experience for **“Purchase of Equipment, Glassware and chemical Pharmacy Laboratories of Pharmacy Department”**

Interested eligible bidders may obtain further information from office of undersigned. Bidding document may be purchased by the interested bidders on the submission of a written application to the undersigned and upon payment of a non-refundable fee of Pak Rs. 1,000/- in favor of Treasurer (AUST), along with registration certificates with income tax cum sales tax department.

Note: In case of downloading the bidding documents from the website of either KPRA or Procuring Entity then in such case it is mandatory to the pay order of the requisite fee of Rs.1000 is along with submit bid, failing which the bid will not be entertained for further process.

Bids must be delivered to the address below on **September 26, 2022** at or before 11:00 am in procurement office. Late bids after due time will be rejected. The bids will be opened on the same date i-e **September 26, 2022 at 11:30 am** in the presence of the bidders' representatives who choose to attend, at Dean office, Quaid a Azam Block. All Bids must be accompanied by a Bid Security @2% of quoted bid amount in the form of CDR from a schedule bank in favor of Treasurer along with the Financial Bid, without this, the offer shall be rejected being non-responsive. A certificate to the effect that the bid security has been kept in the financial proposal which should be accompanied with the technical bid. Amount of the bid security should not be disclosed.

A pre-bid meeting will be held on **September 19, 2022 at 1 p.m.** in Chairman Office, Department of Pharmacy, Abbottabad University of Science & Technology (AUST) Havelian. Bidding Documents are immediately available after date of publication. Abbottabad University of Science & Technology (AUST) Havelian will not be responsible for any cost or expense incurred by Bidders about the preparation or delivery of bids. Bid notice has also been posted on Abbottabad University of Science & Technology (AUST) Havelian website (www.aust.edu.pk). Abbottabad University of Science & Technology (AUST) Havelian may reject all the bids subject to relevant provision of KPPRA/PPRA Rules.

Procurement Officer
Abbottabad UST

Eligibility Criteria

Following particulars/documents make merit for assessment of eligible bidders. Separate sealed proposals should provide following essential information/documentation:

Technical Bids

S.No	Description
1	Certificate of Company / Firm Registration/ Incorporation under the laws of Pakistan
2	Valid Income Tax Registration (NTN), & KPPPRA Registration
3	Valid General Sales Tax Registration (Status = Active with FBR as on the date of submission)
4	Submission of undertaking on legal valid and attested stamp paper that the firm is not blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan.
5	Compliance to the technical specifications of all items to be procured mentioned in BOQ.
6	In full compliance of the execution schedule and Delivery Period mentioned in tender document (Undertaking).
7	In case of authorized distributor, valid authorization certificate of the manufacturer must be provided.
8	Complete details of quoted items/ specifications
9	Compatibility & expandability features of equipment
10	Brochures/technical & operating manuals/compatibility features of equipment
11	Warranty/guarantee details of equipment (01 year or above)
12	Type of affiliation of firm with manufacturer of quoted items (if any)
13	Quality of the equipment/brand rating in the market
14	Availability of spare parts/technical support of quoted equipment in the market
15	Time line for delivery and project implementation details
16	Technical compliance of quoted items/specifications as per the required items/specifications set forth in the Bill of Quantity (BOQ) of Abbottabad University of sciences and technology Tender Documents.
17	Best quality of equipment/brand rating in the market
18	Easy availability of spare parts/technical support of quoted equipment in the market

Documents regarding “Eligibility Criteria” should be enclosed with Technical Bids. The proposals from firms/companies being qualified for the above specified Eligibility Criteria will

only be considered for further evaluation process.

Financial Bids

S.No	Description
1	Cost of quoted items in Pak Rupee inclusive of all applicable taxes/duties/delivery charges etc.
2	Undertaking on legal paper of Rs.100 that firm/company has not provided the equipment less than the quoted price in any other Govt/Public Sector Organization d. Timeline for delivery
3	(maximum 05 weeks after issuance of Purchase Order) Minimum will be preferred e. Validity period of bid (Minimum 120 days from the date of opening)
4	Submission of bid security 2% in shape of DD/Pay Oder in the name of Treasurer Abbottabad University of Science & Technology
5	Any other relevant information

Note:

- **Bidders should read these conditions carefully and comply strictly while sending their tenders.**
- **If the Tenderer find any discrepancy, error, or omission in the tender Document he may notify it to the Abbottabad University of sciences and technology in writing two days before the closing date for Tenders.**
- **The University Purchase Committee reserves the right to accept or reject any or all quotations/Tenders without giving any reason. The decision of the University Purchase Committee shall be final and unchallengeable in any court of law.**

1. General

- All Quotations should reach the undersigned within due date as specified in the advertisement through registered post or by hand. The quotations for each item must be applied on separate and independent sheet.
- Tenders must be enclosed in a properly sealed envelope. Any cutting/ correction in bid will make quotation invalid.
- In case of quoting alternate prices, separate tender shall be purchased.
- The bidder shall mention validity of offer, terms of payment, guarantee/warranty period and schedule of delivery.
- Only Manufacturers / distributors / bona fide dealers of the goods shall give tenders. They shall, therefore, furnish necessary declaration for the same.

- Bidder, interested in bidding for one or more items separately, is allowed to do so. However, Abbottabad University reserves the right to award tender for accepting the bid for each item or bid of the whole items and can also change the quantity or specification of the purchases.
- The contractor shall notify forth in written form to the Abbottabad University of sciences and technology with any change in the constitution of the firm, etc. and such change shall not relieve any former member of the firm, etc., from any liability under the contract.
- The contractor, in respect of the contract, shall accept no new partner/ partners in the firm unless he / they agree to abide by all its terms, conditions and deposits with the Abbottabad University of sciences and technology a written agreement to this affect. The contractor's receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them.
- Tenders forms shall be filled in ink or typed. No tender filled in pencil shall be considered.
- The tenderer shall sign and stamp the tender form at each page. (Both side of page)
- Rates shall be written both in words and figures. There should not be errors and / or over-writings. Corrections if any should be made clearly and initiated with dates.
- The contractor shall not assign or sub-let his contract or any substantial part thereof to any other agency.
- Abbottabad University of sciences and technology reserves the right to accept any tender not necessarily the lowest, reject any tender without assigning any reasons and accept tender for all or anyone or more of the articles for which tenderer has been given or distribute items of stores to more than one firm/ supplier.
- The tender shall remove the rejected articles within 15 days of intimation of rejection, after which Abbottabad University of sciences and technology shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as it thinks fit, at the tenderers risk and on his account.
- The evaluation will be based on the comparison specification/ model/ makes and expiry. Abbottabad University of sciences and technology reserves the right to choose the specification/ models/ makes at its discretion.

2. BID price

- The Bidder shall indicate in his offer, list of items with specifications, standard accessories, make and origin, the unit price and total Bid prices of the goods (Pak

Rupees) and shall be inclusive of all taxes, duties, LC opening Charges and all other allied requirement charges, or hidden charges.

- Prices of the optional accessories should be quoted separately. Rates quoted should be F.O.R and C & F, (Pak Rupees) Abbottabad University of sciences and technology
- Taxes levied by the government, if any, shall be paid by the bidder and must be included in the quoted prices.
- Abbottabad University of sciences and technology is exempted from the whole of customs duties under to the Ministry of finance, economic affairs statistics and revenue rules.
- In case of supply from local market or from ready stock, security @ 10% of the total bill will be deducted for a period of one year and will be released subject to receiving satisfactory report from the concerned office. While in the case of C & F prices, the call deposit will be considered as security and retained as stated above.
- In case of items supplied from local stock, sales Tax and Income Tax will be deducted from the supplier's bill as per government rules. 80% GST will be refunded subject to the provision of Sale Tax invoice.

3. Currencies of BID

- The prices shall be quoted in Pakistani rupees in case of F.O.R and foreign currencies in case of C&F,
- Letter of Credit (LC) will be opened by the University for the Import of some items/ equipment's in case of C&F.

4. BID validity

- The Bid will remain valid and open for acceptance of the purchaser for a period of 120 days from the specified date of opening or closing of financial year on the case may be.

5. Earnest Money

- The Quotation must be accompanied with a call deposit of 2% of the local quoted prices with their offer in the form of demand draft/pay order in favor of "Treasurer, Abbottabad University of sciences and technology", (refundable).
- The earnest money shall be denominated in Pakistani rupees and shall be in the form of demand draft, pay order or call deposit, issued by Pakistani bank or branch of a foreign bank, operating in Pakistan,

- In case of alternate prices, earnest money will be based on the maximum quoted price of the same items. The demand draft shall be returned to unsuccessful bidders.
- The earnest money may be forfeited in the following cases:
 - When tenderer withdraws or modifies the offer, after opening of tender but before acceptance of tender,
 - When tenderer does not execute the agreement if any, prescribed within the specified time.
 - When the tenderer does not deposit the security money after supply order is given.
 - When he fails to commence the supply of the items as per supply order within the time prescribed.

6. Signing of BIDS

- The person signing the Bids shall initial all the pages of the bid along with official seal/stamp where entries are made.

7. Dead Line for submission of Bids

- All Bids must reach and be received by the purchaser on 26/09/2022 at or_11:00 am.

8. Late BIDS

- Late bids will not be entertained and returned unopened to the Bidder.

9. Canvassing

- Counseling or canvassing staff or elected representatives by any Tenderer will become liable to disqualification.

10. Delivery of Equipment / Items

- The items/ equipment (s) will be supplied in packed form and opened in front of the University Purchase Committee. The working manuals, circuit diagrams, related literature and computer programs, if any, must accompany the items/ equipment (s) in original.
- The tenderer shall be responsible for the proper packing, so as to avoid damage under normal conditions of transport by sea, rail and road or air and delivery of the material in the good condition to the consignee at destination.
- In the event of any loss, damage, breakage or leakage or any shortage the tenderer shall be liable to make good such loss and shortage found at the

checking / inspection of the material by the consignee. No extra cost on such account shall be admissible.

- The goods will be delivered at the destination gone down in perfect condition.
- The supplier, if he so desires may insure the valuable goods against lost by theft, destruction or damage, by fire, flood under exposure to whether or otherwise viz., (war, rebellion, riot, etc.).
- The insurance charges will be borne by the supplier and Abbottabad University of sciences and technology will not be required to pay such charges if incurred.

11. Performance Security

- Within one week of issuance of the purchase order successful bidders shall furnish to Abbottabad University of sciences and technology, the performance security bond as per *Annexure A* equivalent to 10% of the bid price in the form of bank guarantee, the performance security shall be payable to Abbottabad University of sciences and technology as compensation for any loss resulting from the suppliers failure to complete its obligation.
- The performance security will be discharged by the University and returned to the supplier after completion of the supplier's performance obligations under the contract.

12. Forfeiture of Security Deposit

- Security amount in full or part may be forfeited in the following case:
 - When the terms and conditions of contract is breached.
 - When the Tenderer fails to make complete supply satisfactorily.
 - Notice of reasonable time will be given in case of forfeiture of security deposit. The decision of the Purchase Committee in this regard shall be final.

13. Mode of Payment

- Payment shall be made in the form of cheque which shall be issued after receipt of equipment / items, installation and inspection, according to the following schedule.
 - 90% payment will be made only after the equipment (s) is fully installed and comes in working condition. And,also after the satisfactory report provided by respective department
 - 10% after one year from the date of commissioning.
- No advance payment will be made. Payments will be made subject to the

clearance of account and audit cells.

- The time specified for delivery in the tender form shall be deemed to be the essence of the contract and the successful tenderer shall arrange supplies within the specified period.
- If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to the committee, which has placed the supply order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.

14. Prices

- Prices charged by the supplier for goods delivered in services performed under the contract shall not exceed the prices quoted by the supplier in its bids. The quantity of items to be purchased can be increased / decreased at the approved rates.
- Abbottabad University of sciences and technology reserves the right to consider a total package deal for all or group of some equipment with a total lowest quoted price for the package rather than lowest prices for the individual items.
- Prices bid by supplier are inclusive of all types of tax, transport cost, labour cost and installation cost

15. Standard

- The equipment supplied must be tropicalized and it must be capable of functioning under the climatic conditions of Abbottabad.
- There shall be no deviation from specification and country of make as provided with each item. In case of any ambiguity in specification/accessories needed for the full functioning of the equipment, the firm must clear it with the Purchase Committee. However, the decision of the Committee will be final.
- The goods with standard accessories supplied under this contract shall conform to the standard maintenance in the technical specification along with the set of operational and maintenance manual it will be responsibility of the supplier to quote equipment in complete package.

16. Training

- The firm supplying the item/ equipment (s) will demonstrate the operation /

working of the equipment (s) to the satisfaction of the quarter concerned and provide training if needed.

17. Calibration of item/equipment

- The approved firm will install the equipment (s) in the presence and satisfaction of the Purchase Committee. In case of any defect in the supplied equipment (s) or if it is not in accordance with the desired specification, the item will be changed at the cost of the supplier.

18. Guarantee / Warranty

- The Tenderer would give comprehensive onsite warranty / guarantee that the goods / stores / articles would continue to conform to the description and quality as specified for a period of **one year** from the date of delivery of the said goods/stores/articles to be purchased and that notwithstanding the fact that the purchaser may have inspected and/or approved the said goods/stores/article, if during the aforesaid period of one year, the said goods/stores/articles, be discovered not to conform to the description and quality aforesaid or have determined (and the decision of the Purchase Committee in that behalf will be final and conclusive), the purchaser will be entitled to reject the said goods/stores/articles or such portion thereof as may be discovered not to conform to the said description and quality, on such rejection the goods/articles/stores will be at the seller's risk and all the provisions relating to rejection of goods etc. shall apply.
- The Tenderer shall, if so called upon to do, replace the goods etc., or such portion thereof as is rejection by Purchase Committee, otherwise the tenderer shall pay such damage as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the University Purchase Committee in that behalf under this contract or otherwise.
- The tenderer shall also replace machinery and equipment, in case it is found defective which cannot be put to operation due to manufacturing defect, etc. In case of machinery and equipment specified by the University Purchase Committee, the tenderer shall be responsible from carrying out annual maintenance and repairs on the terms and conditions as may be agreed. The tenderer shall also be responsible to ensure adequate regular supply of spare parts needed for a specific type of machinery and equipments whether under

their annual maintenance and repairs rate contract or otherwise. In case of change of model, he will give sufficient notice to the University Purchase Committee who may like to purchase spare parts from them to maintain the machinery and equipment in perfect condition.

- The firm must have a representative office in Peshawar/Islamabad/Lahore, which can be contacted in case of any problem encountered during the working of equipment (s).

19. Conforming Tender

- A conforming tender is defined as follows:
 - It is submitted on time.
 - It is lodged at the nominated place.
 - All required forms are completed.
 - Documents are properly signed.
 - It complies with the tender conditions.
 - There are no commercial and contractual qualifications to the tender.
- A non-conforming tender is one, which does not satisfy the above requirements and it may be rejected.

20. Disqualification of Tender

- The tenderer shall observe all relevant statutory and legal requirements when complete the tender. Any Tender engaged in collusion with other tenderers shall be disqualified from tendering.

21. Delay in Delivery

- In case of extension in the delivery period, the recovery shall be made on the basis of following percentages of value of goods stores / work completion which the tenderer has failed to supply / complete the work.

22. Conditions with Percentage

- a. Delay up to one fourth period of the prescribed delivery period. **2.5 %**
- b. Delay exceeding one fourth but not exceeding half of the prescribed period. **5.0 %**
- c. Delay exceeding half but not exceeding three fourth of the prescribed period. **7.5 %**

d. Delay exceeding three fourth of the prescribed period. **10.0 %**

- Fraction of a day in reckoning period in supplies shall be eliminated if it is less than half a day. The maximum amount of shall be 10%.
- The security money shall be refunded immediately after expiry of warranty period provided there is no breach of contract by the supplier and provided there is no outstanding against the tenderer.

23. Recoveries

Recoveries of liquidated damages, short supply, breakage, rejected articles shall ordinarily be made from bills.

C&F = Cost and freight basis

FOB = Freight on Board

SPECIAL CONDITIONS OF THE CONTRACT

1. Inspection of materials.

All items shall be subject to inspection and shall be approved by the University Purchase Committee. The University Purchase Committee may reject such materials as are considered by him to be below standard specifications, size or quality. The Contractor shall provide all labor at his own expense for handling during inspection. Any item rejected by the University Purchase Committee, shall not be used and shall be removed from site by the Contractor.

2. Responsibility against damages

Before and up to the whole of the supply is completed and have been finally handed over to the University and a proper completion certificate thereof obtained by the Contractor, the Contractor shall be responsible for all and any damage caused to the materials or installed works, through accident, improper handling, transport or any other cause whatsoever and shall repair, remove or replace the same and compensate the University against all such losses. The supplier will be bound to test and commission all supplied items.

3. Laboratory Test

The Vice Chancellor has the power to order for conducting material quality assurance test which he deems necessary and the cost of such tests will be borne by the contractor. No claim in this regard will be entertained for payment.

4. Technical & Financial Bid

The tenderers should prepare a detailed proposal (Technical & financial) on the basis of requirements provided in the BOQ clearly showing the specification and make (with country of origin) of each and every item. All proposals will be reviewed by the University Purchase Committee along with expert/technical members & the best suitable (technically & financially) proposal will be approved.

24. TECHNICAL EVALUATION CRITERIA

Sr.#	Technical Evaluation Criteria	(Millions)	Points
1	Worth (PKR) of projects of similar Nature (Completed) With Government / Semi Government in last 05 years	2-5	02 points per project up to max 02
		5-10	02 points per project up to max 06
		Above 10	02 points per project up to max 08
2	Worth (PKR) of projects of similar nature in hand with Government / Semi Government in last 05 years (Work Order) (Max Points 12)	2-5	02 points per project up to max 2
		5-10	02 points per project up to max 04
		Above 10	02 points per project up to max 06
3	Financial soundness of firm. (Max Points 02)		02
4	Authorization certificate / document /from the principal / manufacturer (Max Points 15)		15
5	Full Compliance to the technical specifications of hardware equipment, liquids, chemicals/any other to be procured mentioned in this document (Should be Specific) (Max Points 55)		55

Total Marks = 100

NOTE:

- *Qualifying marks are 70.*

- *Purchase order and Completion certificates shall be attached with technical proposal, otherwise marks under S No 1 and 2 of the evaluation criteria will not be awarded. The University may verify the authenticity of the certificates and other attached documents.*
- *The Bidders, who have duly complied with the Eligibility/Qualification criteria (Technical bids) and attained the minimum marks of 70, will be eligible for further processing i.e opening of financial bid etc.*
- *The Bids which do not conform to the Technical Specifications or Bid conditions or the Bids from the Bidders without adequate capabilities for supply and maintenance / warranty services will be rejected. The bidders are required to attach valid proof(s) of specifications of each and every quoted item, otherwise marks will not be awarded during evaluation.*

Based on conditions listed in this document and the above, bids not meeting the qualifying marks of 70 will be rejected in Technical Evaluation, and the sealed/unopened Financial Proposal shall be returned back to the respective bidder.

Please Note that:

- 1-** The Technical & Financial bids should be sealed in 2 separate envelopes and packed in a single envelope for submission. The word technical bid and financial bid should be written on respective envelopes.
- 2-** Earnest money @ 2% of quoted amount must be kept sealed in the financial bid. Certificate to this effect without mentioning the amount should be kept in Technical bid. This is **MANDATORY**.

Annexure -A

Performance Bond

To

The Treasurer

Abbottabad University of sciences and technology

Dear Sir,

The AGREEMENT DATE: _____ BETWEEN Abbottabad University of sciences and technology & M/S _____ NO. _____ in consideration of your having concluded a CONTRACT Evidenced by purchase order No. _____ Dated. _____. With Messer's _____ (supplier) for _____ and in consideration of value received from the supplier, we agree and undertake as follows:

1. To make conditional payment of _____ or unconditional payments from time to time is called upon totaling the said sum of _____ being 10 % of the contract price mentioned in the said purchase order / agreement upon your written demand (s) without further recourse, questions or reference to the suppliers default in compliance with its obligations, liabilities and responsibilities arising under and in pursuance of the warranties and guarantees committed in the said purchase order / agreement.
2. To accept written intimate (ion) from you is sufficient evidence of default or non compliance as aforesaid in the part of supplier and to make payment accordingly within 15 days of receipt of the written intimations.
3. To keep this guarantee in full force from the date of this guarantee up to two year after the date of installation and successful operation of items/ equipment.
4. No grant of time or other indulgence to or composition or arrangement with supplier in respect of the performance of its obligation under and pursuance of the said agreement / purchase order of any clause thereof, with or without notice to us shall in any manner discharge or otherwise how so ever effect this guarantee and out liabilities and commitments here under.
5. This guarantee should also cover obligations of the supplier so for as the

liquidated damages as concerned as provided in agreement / purchase order any recovery on account of liquidated damages shall not reduce the value of 10% provided here in.

6. This guarantee shall be binding on us at our successors in interest and shall be irrevocable.

Name of Person & Designation
Name of Firm/Company

THE TENDER

Convener
Purchase Committee,
Abbottabad University of Science & Technology
Havelian Abbottabad .

1. Having examined the General Terms & conditions of the Contract, and the specifications for the above works, I/We, the undersigned, offer to construct, complete and maintain the whole of the said works in conformity with the said General Terms and Conditions of Contract and specifications herewith submitted for an amount of Rs. _____/- (Rupees _____ only).
2. We undertake, if our tender is accepted, to deliver the items within specified time after the receipt of the purchase order.
3. We hereby agree to abide by and fulfill all the terms and provisions of the contract Hereto annexed or in default thereof to forfeit and pay to the University the sums of money mentioned in the said conditions of contract.
4. We also agree that the sums of Earnest Money submitted herewith:-
 - a. May be absolutely forfeited by the University without prejudice to any other rights or remedies of the University, should we fail to deliver the items within one month of the issuance of Purchase order or withdraw or modify our tender.
 - b. May be retained by the University as and by way of Security deposit.
5. We understand that the Vice Chancellor AUST is not bound to accept the lowest tender and has

the right to reject any or all tenders by assigning reason thereof and that the decision of the Vice Chancellor AUST in this respect shall be absolute, final and binding without any question or claim whatsoever from any quarter.

6. Pending execution of a formal agreement, this tender together with the Vice Chancellor acceptance thereof shall constitute a binding contract between us.

Memorandum

a)	Name of Work	PURCHASE OF EQUIPMENT, GLASSWARE AND CHEMICALS FOR LABORATORIES OF PHARMACY DEPARTMENT
b)	Earnest Money	2% of quoted cost
c)	Percentage of Retention Money/ Security Deposit	10% of amount due to the contractor
d)	Time of Completion	60 days from the issuance of Purchase Order
e)	Liquidated Damages	1/5 percent of the Contract amount per day or part of day that the work remains Incomplete after the expiry of Completion period. Up to 10% of the contract amount.
f)	Period of Maintenance	One year

Dated this _____ day of _____ 2022

Signature with name: _____ in the capacity of
 _____ duly authorized to sign tenders, For and on behalf of
 _____.

(Name of Firm in Block Letters)

Witness: _____

Address: _____

Note: Selected items of specialized countries shall be considered for evaluation.

Name of Person & Designation
Name of Firm/Company

BOQ/Bid Price

List of Glasswares and related items

S.No.	Item name	Quantity	Unit Price	Total Price
1	Beaker (Pyrex) 25 ml	48		
2	Beaker (Pyrex) 50 ml	48		
3	Beaker (Pyrex) 100 ml	48		
4	Beaker (Pyrex) 250 ml	48		
5	Beaker (Pyrex) 500 ml	48		
6	Beaker (Pyrex) 1000 ml	12		
7	Volumetric flask (Pyrex) 10 ml	48		
8	Volumetric flask (Pyrex) 25 ml	48		
9	Volumetric flask (Pyrex) 50 ml	48		
10	Volumetric flask (Pyrex) 100 ml	48		
11	Volumetric flask (Pyrex) 250 ml	48		
12	Volumetric flask (Pyrex) 500 ml	48		
13	Volumetric flask (Pyrex) 1000 ml	12		
14	Conical flask (Pyrex) 25 ml	48		
15	Conical flask (Pyrex) 50 ml	48		
16	Conical flask (Pyrex) 100 ml	48		
17	Conical flask (Pyrex) 250 ml	48		
18	Conical flask (Pyrex) 500 ml	48		
19	Conical flask (Pyrex) 1000 ml	12		
20	Vacuum flask (Pyrex) 50 ml	48		

21	Vacuum flask (Pyrex) 150 ml	48		
22	Vacuum flask (Pyrex) 250 ml	48		
23	Measuring cylinder (Pyrex) 10 ml	48		
24	Measuring cylinder (Pyrex) 20 ml	48		
25	Measuring cylinder (Pyrex) 25 ml	48		
26	Measuring cylinder (Pyrex) 50 ml	48		
27	Measuring cylinder (Pyrex) 100 ml	48		
28	Measuring cylinder (Pyrex) 250 ml	48		
29	Measuring cylinder (Pyrex) 500 ml	48		
30	Measuring cylinder (Pyrex) 1000 ml	12		
31	Reagent bottles 100 ml	48		
32	Reagent bottles 250 ml	48		
33	Reagent bottles 500 ml	48		
34	Reagent bottles 1000 ml	24		
35	Burette (Pyrex) 50 ml	48		
36	Burette (Pyrex) 100 ml	48		
37	Pipette (Pyrex) 1 ml	48		
38	Pipette (Pyrex) 2 ml	48		
39	Pipette (Pyrex) 3 ml	48		
40	Pipette (Pyrex) 5 ml	48		
41	Pipette (Pyrex) 10 ml	48		
42	Pipette (Pyrex) 25 ml	48		
43	Pipette (Pyrex) 50 ml	48		
44	Watch glass	48		
45	Petri dishes large	24		
46	Petri dishes Medium	24		
47	Petri dishes Small	24		
48	Test tubes (Pyrex)	200		
49	Separating funnel	12		
50	Funnel 60 mm	24		
51	Funnel 75 mm	24		
52	Fusion tubes	12		
53	Capillary tube	12		
54	Thistle funnel	12		
55	Stirrers	12		
56	Antibumping chips	6		
57	Indicator's bottles	24		
58	Petri plates Glass	60		
59	Petri plates Plastic	24		
60	Glass spreader	12		
61	Test tubes Screw capped	200		
62	cover glass	12		

63	Lancets	100		
64	Reservior bottles	7		
65	Plastic wash bottle	12		
66	Organ bath	6		
67	Tripod stand	24		
68	Wire gauze	24		
69	Filter paper sheets	12		
70	What man grade 1 filter paper	12		
71	Whatman grade 2 filter paper	12		
72	Litmus paper	12		
73	Cotton wools	12		
74	Cutter	12		
75	Stethoscopes	4		
76	Droppers	24		
77	Thermometer 300 °C	6		
78	Acid resistant glows	10		
79	Masks	10		
80	Safety Goggles	10		
81	Scissors	10		
82	Spraying bottles	24		
83	Test tube wrack SS	24		
84	Test tube holder	50		
85	China dish	24		
86	Pipette filler	48		
87	Crucible	48		
88	Rubber stopper	48		
89	Spatula	48		
90	Burette Stand assembly (base, rod and clamps)	50		
91	Thermometer clinical	5		
92	Haemometer	3		
93	Kymograph papers	6		
94	Protective glasses	1		
95	Pestle and mortar 5 size	24		
96	Spirit lamp	12		
97	Stools	30		
98	stop watch	1		
99	Suckers	2		
100	Syringes 1, 5 mL	25		
101	Dissecting dish	1		
102	Desiccator	3		
103	ESR stand	2		

1. Quantities can be increased or decreased as per the requirements. No claim what so ever will be entertained in this account.
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List of Equipments and Instruments Required

S #	Name	Sample Model & Manufacturer	Quantity	Unit Price	Total Price
1	Autoclave	MLS-3781-PK (Panasonic)	1		
2	Weighing Balance	CQT 2000 (ae ADAM)	4		
4	Cooling centrifuge (12)	TGL-16 (TGL)	1		
5	Hot Air Oven	DOV53A (DOV)	4		
6	Hot plate with stirrer	LT1892X1 (Fisher Scientific)	4		
7	Incubator	MIR-262 (Sanyo)	2		
8	Biosafety Cabinet	LSB-0305 (Labtech)	1		
9	Light Microscope	M-100FL-H (Optika)	12		
10	pH meter	PcT-407 (Alpha)	4		
11	PCR (Thermal cycler)	3 prime (Bibby Scientific)	1		
12	Refrigerator & Freezer	MPR-414F (Sanyo)	2		
13	Sonicator	WUC-DIOH (Witeg)	3		
14	UV spectrophotometer	SP3000Plus (Optima)	1		
15	Vortex Mixer	945405 (Fisher scientific)	2		
16	Water Bath	LSB-0305 (Labtech)	4		
21	Dry Bath Unit	Thermo scientific	4		
22	Horizontal Gel Electrophoresis Unit	QS-710 (IBI Scientific)	2		
23	Gel Rocking Platform	UltraRocker (BioRad)	1		
24	Probe Sonicator	Thomas Scientific	1		
25	Spirometer	Latest specifications in market	1		
26	Centrifuge	Latest specifications in market	1		
27	Kymo graph	Local	2		
28	Centrifuge	Latest specifications in market	2		
29	Rabbit Restrainer	Local	5		
30	Oxygen cylinder		1		
31	Dissolution apparatus (Basket and paddle)	Latest specifications in market	1		
32	Disintegration apparatus	Latest specifications in market	1		
33	Friabilator	Local	1		
34	Hardness tester digital	Latest specifications in market	1		

35	Moisture analyzer - digital	Latest specifications in market	1		
36	Vernier caliper and Screw gauge	Local	1		
37	Stability chamber	Latest specifications in market	1		
38	Viscometer	Latest specifications in market	1		
39	Water distillation apparatus	Latest specifications in market	1		
40	UV-visible spectrophotometer double beam	Latest specifications in market	1		

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List of Chemicals Required

S. No	Item name	Grade	Unit	Quantity	Unit Price	Total Price
1	ABO blood grouping sera	Commercial	Packs	3 packs		
2	Alcohol swabs	Commercial	Paks	50 Packs ea 100		
3	Acetic Acid glacial	Commercial	2.5 L	5 unit		
4	Acetone	R & D grade	2.5 L	5 unit		
5	Acetonitrile	R & D grade	2.5 L	5 unit		
6	Acetone	Commercial	Litter	5 unit		
7	Ammonium hydroxide	Commercial	Litter	2.5 unit		
8	Ammonium sulphate solid	Commercial	Kg	1 unit		
9	Aspirin powder	Commercial	g	500 g		
10	Acetonitril	Commercial	Litter	5		
11	Ascorbic acid powder	Commercial	g	500 g		
12	Ammonium thiocynate	Commercial	Litter	1		
13	Ammonium acetate	Commercial	Litter	1		
14	Aniline	Commercial	250 mL	1		
15	5-Amino uracil	Commercial	25 Grams	1		
16	Acetic anhydride	Commercial	1 Liter	1		
17	Anhydrous AlCl ₃	Commercial	500 Grams	1		
18	Acetyl chloride	Commercial	1 Liter	1		
19	Acetanilide	Commercial	500 Grams	1		
20	Ammonium molybdate	Commercial	100 Grams	1		
21	Anhydrous sodium sulphate	Commercial	1 Kg	1		

22	Ammonia	Commercial	Small unit	01 Uint		
23	Ammonium hydroxide	Commercial	Small unit	01 bottle		
24	Anisaldehyde	Commercial	Small unit	1		
25	Anise oil	Commercial	Small unit	1		
26	Alpha naphthol	Commercial	Small unit	01 Uint		
27	Acacia	Commercial	Small unit	01 Uint		
28	Ascorbyl palmitate	Commercial	Small unit	01 Uint		
29	Agarose	R & D grade	R & D grade	100g		
30	Ammonium persulphate	Commercial	Commercial	1 Kg		
31	Barium Sulphate	Commercial	1 kg	1		
32	Bismuth sulphite agar	Commercial	500 g	1		
33	Brain heart infusion agar	R & D grade	500 g	1		
34	Brain heart infusion broth	R & D grade	500 g	1		
35	Boric acid (Analytical grade)	Analytical grade	Kg	0.5 Kg		
36	Boric acid (Commercial grade)	Commercial	Kg	1 Kg		
37	Benzoic acid	Commercial	kg	1		
38	Barium chloride	Commercial		1		
39	Benzyl Alcohol	Commercial	2.5 L	1		
40	Benzene	Commercial		01 bottle		
41	Bromine	Commercial	100 Grams	1		
42	Benzoyl chloride	Commercial	1 Liter	1		
43	Basic bismuth nitrate	Commercial	Small unit	1		
44	Beeswax	Commercial	Small unit	2		
45	Calcium chloride (Analytical grade)	Analytical grade	Kg	1 Kg		
46	Calcium chloride (Commercial grade)	Commercial grade	Kg	2 Kg		
47	Calcium D-gluconate	Commercial	1 Kg	1		
48	Calcium Hydroxide	Commercial	1kg	1		
49	Calcium L-lactate	Commercial	1 Kg	1		
50	Calcium oxide	Commercial	1 Kg	1		
51	Citric Acid	Commercial	1kg	1		
52	Chloroform	R & D grade	2.5 L	2 unit		
53	Cotton rolls	Commercial	gms	1200 gms (rolls)		
54	Citric acid	Commercial	Small unit	1unit		
55	Carbon tetra chloride	Commercial	Litter	2.5		
56	Chloroform	Commercial	Litter	2.5		
57	Con. H ₂ SO ₄	Commercial	Liter	5		
58	Con. HCl	Commercial	Liter	10 unit		
59	CCl ₄	Commercial	100 mL	1		
60	Cerium sulphate	Commercial	25 Grams	1		

61	Clove oil	Commercial	Small unit	1		
62	Copper sulphate	Commercial	Small unit	1		
63	Calcium hydroxide	Commercial	Small unit	1		
64	Cetostearyl alcohol	Commercial	Small unit	1		
65	Cetyl alcohol	Commercial	Small unit	1		
66	Camphor	Commercial	Small unit	1		
67	Diethyl ether	Commercial	Litter	2.5		
68	Di Potassium hydrogen phosphate	Commercial	Kg	1		
69	Di sodium hydrogen phosphate	Commercial	kg	1		
70	Dimethyl Sulfoxide	R & D grade	1 L	1		
71	Diethyl ether	R & D grade	2.5 L	1		
72	D-Glucose	Commercial	500 Grams	1		
73	D-Galactose	Commercial	500 Grams	1		
74	Dichloromethane	Commercial	Small unit	01 bottle		
75	EMB agar	R & D grade	500 g	1		
76	Ethanol absolute	Commercial	2.5 L	10 unit		
77	Ether	Commercial	Litter	2.5		
78	Ethyl 2-oxocyclohexane carboxylate	Commercial	10 mL	1		
79	Ethyl 4-methyl-2-cyclohexanone-1-carboxylate	Commercial	25 Grams	1		
80	Ethylacetate	Commercial	Small unit	01 bottle		
81	Ethyl Ether	Commercial	Small unit	1		
82	EDTA	Commercial	Small unit	1		
83	Ferric chloride	Commercial	Kg	1		
84	Ferrous sulphate	Commercial	Kg	1		
85	Ferric chloride	Commercial		1		
86	Formic acid	Commercial	1 L	1		
87	Glycerol	Commercial	1 L	5		
88	Gram colour 1	Commercial	500 ml	1		
89	Gram colour 2	Commercial	500 ml	1		
90	Gram colour 3	Commercial	500 ml	1		
91	Gram colour 4	Commercial	500 ml	1		
92	Gram colour 5	Commercial	500 ml	1		
93	Glucose (Commercial grade)	Commercial	Kg	5 Kg		
94	Glucose (Analytical grade)	R & D grade	Kg	2 Kg		
95	Glycerin	R & D grade	5g	1		
96	Glycine	Commercial	50 Grams	1		
97	Gelatin	Commercial	Small unit	1		
98	8-hydroxyquinoline	Commercial	250 Grams	1		
99	Glycerin/ Glycerol	Commercial	Small unit	1		

100	Hydrochloric acid	Commercial	Litter	5 unit		
101	Hard paraffin	Commercial	Small unit	1		
102	Hexane	Commercial	Small unit	1		
103	Histology wax	Commercial	Small unit	1		
104	Hydrochloric acid,	Commercial	Small unit	1		
105	hydrous wool fat	Commercial	Small unit	1		
106	Indigo Carmine	R & D grade	100 g	1		
107	Iron	Commercial	100 g	1		
108	Iodine crystals	Commercial	g	500 g		
109	Liesman-Giemsa stain	Commercial	Liters	1 L		
110	L-Cystein	Commercial	25 Grams	1		
111	L-a-Phosphatidyl Choline	Commercial	500 g	1		
112	Lead sub acetate	Commercial	Small unit	1		
113	Lemon oil	Commercial	Small unit	1		
114	Levander oil	Commercial	Small unit	1		
115	Liquid Paraffin	Commercial	Small unit	10 unit		
116	Light green	Commercial	Small unit	1		
117	L-cysteine hydrochloride	Commercial	Small unit	1		
118	Magnesium sulphate.7H2O	Commercial	Kg	1 Kg		
119	Magnesium sulphate.7H2O	Commercial	Kg	2 Kg		
120	Mannitol salt phenol red agar	R & D grade	500g	1		
121	Muller Hinton agar	R & D grade	500g	1		
122	Methanol	Commercial	2.5 L	10 unit		
123	Methylated spirit	Commercial	Liters	15 liters		
124	Methyl red	Commercial	g	100 g		
125	Methyl orange	Commercial	g	100 g		
126	Methylene blue	Commercial	g	100 g		
127	Methyl 2-oxocyclohexanecarboxylate	Commercial	10 mL	1		
128	Mannose	Commercial	500 Grams	1		
129	Magnesium stearate	Commercial	Small unit	1		
130	Mannitol	Commercial	Small unit	1		
131	Mercuric nitrate	Commercial	Small unit	1		
132	Methyl cellulose	Commercial	Small unit	1		
133	Methyl salicylate	Commercial	Small unit	1		
134	Methyl paraben	Commercial	Small unit	1		
135	Mineral oil	Commercial	Small unit	1		
136	Nin-hydrine	Commercial	g	50 g		
137	n-butanol	Commercial	Small unit	1		
138	n-hexane	Commercial	Litter	2.5		
139	Nitric acid	Commercial	Litter	5		

140	Nutrient agar pH 6.8	R & D grade	500 g	2		
141	Nutrient Broth	R & D grade	500 g	2		
142	N-Cyclohexylmaleimide	Commercial	5 Grams	1		
143	N-Benzylmaleimide	Commercial	10 Grams	1		
144	n-Hexane	Commercial	Small unit	01 bottle		
145	Ninhydrin	Commercial	Small unit	1		
146	NaOH	Commercial	Small unit	10 unit		
147	Naphthalene	Commercial	Small unit	1		
148	Nutmeg oil	Commercial	Small unit	1		
149	Orange oil	Commercial	Small unit	1		
150	Oxalic acid	Commercial	250 g	2		
151	Potassium chloride	Analytical grade	Kg	21Kg		
152	Potassium chloride	Commercial	Kg	21Kg		
153	Propylene glycol	Commercial	Litter			
154	Phenolphthalein	Commercial	g	100 g		
155	Potassium hydrogen phthalate	Commercial	Small unit	1		
156	Phenol red	Commercial	g	100 g		
157	Phenol	Commercial	1 Kg	2 unit		
158	Potassium bicarbonate	Commercial	500 g	1		
159	Potassium Hydroxide	Commercial	kg	1		
160	Potassium iodide	Commercial	250 g	1		
161	Paraffin Oil	Commercial	1 L	1		
162	2-Propanol	Commercial	2.5 L	1		
163	Polysorbate	Commercial	100 g	1		
164	Potassium permanganate	Commercial	Small unit	2		
165	Paracetamol powder	Commercial	g	500 g		
166	Potassium di hydrogen phosphate	Commercial	Kg	1		
167	Potassium iodide	Commercial	Kg	2		
168	Petroleum ether	Commercial	Litter	2.5		
169	1-propanol	Commercial	Small unit	1		
170	Potassium dichromate	Commercial	Small unit	1		
171	Pyridine	Commercial	1Kg	1		
172	P-aminophenol	Commercial	250 Grams	1		
173	Phenylalanine	Commercial	5 Grams	3		
174	Petroleum ether	Commercial	Small unit	01 bottle		
175	Potassium dichromate	Commercial	Small unit	1		
176	parafin wax	Commercial	Small unit	1		
177	Peppermint oil	Commercial	Small unit	1		
178	poloxamer 124	Commercial	Small unit	1		
179	Poly Ethylene glycol 4000	Commercial	Small unit	1		

180	Poly Propylene glycol	Commercial	Small unit	1		
181	Polysorbate 20 (Tween 20)	Commercial	Small unit	1		
182	Polysorbate 80 (Tween 80)	Commercial	Small unit	1		
183	RBC solution	Commercial	Liter	1 L		
184	Sodium bicarbonate	Commercial	Kg	2 Kg		
185	Sodium bicarbonate	Analytical grade	Kg	1 Kg		
186	Sodium chloride	Analytical grade	Kg	1 Kg		
187	Sodium chloride (Commercial grade)	Commercial	Kg	2 Kg		
188	Sodium citrate (Commercial grade)	Commercial	Kg	1 Kg		
189	Sodium citrate	Analytical grade	Kg	1 Kg		
190	Sodium phosphate	Analytical grade	Kg	1 Kg		
191	SIM medium	R & D grade	500 g	1		
192	Sodium Acetate	Commercial	500g	1		
193	Sodium Dodecyl Sulphate	Commercial	10 g	1		
194	Sodium Hydroxide	Commercial	1kg	10		
195	Sodium Phosphate	Commercial	1kg	1		
196	Sodium phosphate monobasic	Commercial	1 Kg	1		
197	SS agar	R & D grade	500 g	1		
198	Starch soluble synthesis grade	Commercial	1 Kg	1		
199	Sucrose	Commercial	1 Kg	2		
200	Sodium di hydrogen phosphate	Commercial	kg	1		
201	Sodium metal	Commercial	g	500 g		
202	Sodium acetate	Commercial	kg	1		
203	Sodium carbonate	Commercial	kg	1		
204	Silica gel	Commercial	kg	2		
205	Silver chloride	Commercial	g	100 g		
206	Silver nitrate	Commercial	g	50 g		
207	Sulphuric acid	Commercial	Litter	5		
208	Salicylic acid	Commercial	500 Grams	1		
209	Sodium nitrite	Commercial	100 Grams	1		
210	Sodium bisulphite	Commercial	100 Grams	1		
211	Sodium acetate	Commercial	500 Grams	1		
212	Sucrose	Commercial	500 Grams	1		
213	Starch	Commercial	500 Grams	1		
214	Sodium bi carbonate	Commercial	Small unit	1		
215	spermaceti	Commercial	Small unit	1		
216	safranin	Commercial	Small unit	1		
217	sandal wood oil	Commercial	Small unit	1		

218	Sodium ascorbyl phosphate	Commercial	Small unit	1		
219	Sodium lauryl sulfate	Commercial	Small unit	1		
220	Sorbitanmonooleate (Span 80),	Commercial	Small unit	1		
221	Stearic Acid	Commercial	Small unit	1		
222	Tartaric acid	Commercial	Small unit	1		
223	Triple sugar iron agar	R & D grade	500 g	1		
224	Tryptic Soy Agar	R & D grade	500g	1		
225	Tryptone	R & D grade	250 g	1		
226	Tyrosin	Commercial	25 Grams	1		
227	Tween 80	Commercial	Small unit			
228	Tween 20	Commercial	500 ml	1		
229	Tween 40	Commercial	500 ml	1		
230	Urea	R & D grade	1 Kg	1		
231	White soft paraffin	Commercial	Small unit	1		
232	Wool fat	Commercial	Small unit	1		
233	xanthan gum	Commercial	250 Grams	1		
234	Zinc powder	Commercial	Small unit	1		

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