TENDER DOCUMENT FOR

Supply of Lab Equipments, Glassware & Chemicals

UOH-HEC Development Project SDPTI@UOH/P-ADV#2/2021

The
University of Haripur
Restoring Hope; Building Community

TENDER DOCUMENT FOR PURCHASE, SUPPLY & INSTALLATION OF LAB EQUIPMENTS, CHEMICALS & GLASSWARE

Bids [Technical] shall be opened on June 8, 2021 at 11:30 A.M whereas financial bid will be opened on June 22, 2021in the Committee Room of Vice Chancellor Secretariat, The University of Haripur, Off-Hattar Road, Haripur

Name of Firm/Contractor/Company (Block Letter) _____

_____

Address (Block Letter): _____

_____

_____

Telephone No:

Fax No:

E-mail:

Signature &Seal

Stationary Charges of Rs. 5000/-(Non-Refundable) vide Demand Drat/Pay Order No:_____date_____

Earnest Money of (Refundable) vide CDR Order No:_____ Date_____

Date of Bid Submission:

INVITATION TO BID

Subject: **Tender Notice UOH-HEC Development Project SDPTI@UOH/P-ADV#2/2021**

The University of Haripur (UOH) invites sealed bids/quotations/proposals **for the Purchase & Supply of Scientific Lab Equipments, Glassware and Chemicals** from reputed firms/companies (Local/Non Local, Registered with FBR) for its **PSDP funded project titled "Development and Strengthening of Physical and Technological Infrastructure at the University of Haripur".** The subject tender shall be processed in accordance with Public Procurement Rules-2004 [36-b (i-ix)] of PPRA.

TERMS & CONDITIONS:

1. The detailed specifications along with terms & conditions have been set forth in Tender Document, which is available in the **Project Office, Directorate of Planning & Development** The University of Haripur. The subject document shall be obtained on payment of Rs.5, 000/- Non-Refundable (as Stationery Charges) in the form of Bank Draft/Pay order in favor of **Treasurer-UOH**.
2. The tender documents are also uploaded on the UOH website (www.uoh.edu.pk) and PPRA website. In case of document downloaded from website, pay order/demand draft of Rs.5, 000/ should be prepared and submitted in favor of Treasurer-UOH. Stationary charges will be attached with technical bid. ***No bid shall be accepted*** without Stationery Charges.
3. The Bid Security @ 2% **(refundable)** of total bid price shall be submitted in the form of **Call Deposit Receipt (CDR)** in favor of Treasurer-UOH. Bid security ***shall*** be attached with financial bid.
4. The bidding documents completed in all respect should reach **Project Office, Directorate of Planning & Development** latest by **June 8, 2021**at **11:00 am**. Technical Bids will be opened on same date at 11:30 am in the Hennry Donunt Hall-UOH whereas Financial Bids will be opened on **June 22, 2021 at 11:30 am**, /after completion of Technical Evaluation.
5. Bid must be submitted through Courier/Postal Service. **No Bid will be received by hand and receipt after due date & time.** The University reserves the right to accept or reject any or all bids. Errors and omissions, if any, shall be subject to rectification by the University.

Project Coordinator, UOH-HEC Development Project
The University of Haripur, Off Hattar Road, Haripur-KP
Office Ph # 0995-615226 **Cell #** 0333-5765466
E-mail: zaheer.hasrat@uoh.edu.pk

TENDER FOR LAB EQUIPMENTS, GLASWARE & CHEMICALS

Tender No	UOH-HEC Development Project SDPTI@UOH/P-ADV#2/2021
Bidding Procedure	Open Competitive Bidding (Single Stage Two Envelop) as per Public Procurement Rules-2004 [36-b (i-ix)] of PPRA
Stationery Charges	Rs.5, 000/- in form of DD/Pay Order in Favor of Treasurer, The University of Haripur. In case of Tender Document is downloaded from University of Haripur website (www.uoh.edu.pk) it should be submitted along with Pay Order/Demand Draft of Rs. 5,000/-. (To be attached with technical proposal). **No bid will be accepted without tender document fee.**
Earnest Money	Earnest money at a rate of 2% (refundable) of total bid price shall be submitted from the account of firm/bidder/contractors who submits the bid. (Will be attached with Financial bid) in the form of Call Deposit Receipt in favor of Treasurer, The University of Haripur).
Submission	Bids shall be submitted (technical & financial) latest by June 8, 2021 at 11:00 A.M in Project Office, Directorate of P&D through currier/postal service. By hand submission shall not be accepted.
Opening	Technical Bids shall be opened on June 8, 2021at 11:30 A.M whereas Financial on June 22, 2021in the Hennry Donunt Hall, The University of Haripur

Note: Tender notice is also available on the University of Haripur website (www.uoh.edu.pk) as well as on PPRA's website (www.ppra.org.pk).

BASIC ELIGIBILITY CRITERIA

Bidders/Firms/Company must fulfill the following basic eligibility criteria without which their bids shall not processed.

Table No.1 Basic Eligibility Criteria

S.No	Description	Remarks
1	Valid Company/Firm Registration Certificate (under the laws of Pakistan)	Mandatory
2	Valid National Tax Number (NTN) Income Tax Registration (having FBR active status on the date of proposal submission)	Mandatory
3	Valid General Sales Tax Registration (having FBR active status on the date of proposal submission)	Mandatory
4	Submission of undertaking on legal valid and attested stamp paper mentioning 1. 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. 2. All documents attached to this bidding documents are genuine and if found forged of fake, the firm/company shall be liable to disqualification and subsequent forfeiture of CDR. 3. The firm/company has not provided the equipment less than the quoted price in any other Govt/Public Sector Organization. In full compliance of the execution schedule and delivery period mentioned in tender documents.	Mandatory
5.	Similar Projects of last 3 Years and Current in hand	Mandatory
6.	Audited Account Statement of Past 03 Years	Mandatory
7	Timeline for delivery (maximum 05 weeks after issuance of Purchase Order) Minimum will be preferred)	Mandatory
8	Submission of bid security at a rate of 2% in the shape of CDR in the name of Treasurer, The University of Haripur	Mandatory
9	Cost of quoted prices in PKR inclusive of all kinds of applicable taxes, duties and delivery charges.	Mandatory

Note: Documents regarding “Basic Eligibility Criteria” should be enclosed with the Bids. Bids of only eligible firms shall be considered for further consideration. Incomplete documents shall not be entertained.

Table No.2 Bid Technical Evaluation Criteria

EVALUATION CRITERIA (Total Marks = 70)					
SECTION-A (Total Marks = 33)					
Parameter	**Sub-Parameter**	**Supporting Documents**	**Marks**		**Remarks**
			Total	**Obtained**	
Compliance to Specifications	90-100% compliance with End User's specifications	Literature of the product in printed shape attached	31-40		
	80-89% compliance with End User's specifications subject to Main Function is NOT Affected		16-30		
	Below 80% compliance		1 to 15		
Special Feature (s)	Special Feature (s) NOT mentioned by the End User's, provided by the firm which enhances the feature and function (s) of the product (s)	Documentary evidence of the special feature (s)	0 to 10		
		Sub Total (A)	**50**		
SECTION-B (Total Mars = 15)					
SECTION-B					
FIRM/COMPANY EVALUATION (Total Marks = 12)					
Operating capabilities	Free Testing, Commissioning & Calibration of equipment		0-10		
	Warranty Period/After sale services		0-5		
	Post warranty maintenances services including provision of spare parts		0-5		Warranty period of 1 years is Mandatory
		Sub Total (B)	**20**		
		Sub Total (A+B)	**70**		

Overall Bid Scoring Method

1. Technical Bids: 70 Points
    - Weightage Technical: 70 Points
2. Financial Bids: 30 Points
    - Weightage Financial Bid: 30 Points

Total Points (100) = Technical (70) + Financial (30)

Securing highest points (Technical + Financial) will be considered as lowest bid.

SECTION-1 GENERAL INSTRUCTIONS TO BIDDERS (GITB)

Bidders should read these conditions carefully and comply strictly while sending their tenders. If the bidder finds any discrepancy, error, or omission in the tender documents he may intimate it to the **Convener, Procurement Committee for Purchase of ICT Equipments-UOH** in writing two days before the closing date for Tender.

The **Procurement Committee** reserves the right to accept or reject any or all quotations/tenders/bids without giving any reason. The decision of the **Procurement Committee for Purchase** will be final and shall not be challenged in in any court of law.

1. Introduction

1.1. **Name and Address of Procuring Agency (PA):** The University of Haripur, Office of the Project Coordinator, Directorate of Planning & Development (P&D), Off Hattar Road, District Haripur-Khyber Pakhtunkhwa

1.2. **Eligible Bidders:** General sales tax registered. National tax number registered. Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government of Pakistan.

1.3. **Cost of Bidding:** The Bidder shall bear all costs associated with the preparation and submission of its bid, and the procuring agency will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

2. Content of Bidding Document:

2.1. The Goods required, bidding procedures, and contract terms are prescribed in the bidding documents. In addition to the invitation for Bids, the bidding documents include:

a. General Instructions to Bidders (GITB)

b. Bid Data Sheet (BDS)

c. Schedule of Requirements

d. Technical Specifications

e. Bid Forms and Price Schedules

f. Contract Form

2.2. The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its bid.

3. Clarification of Bidding Documents: A prospective Bidder requiring any clarification of the bidding documents may notify the PA in writing at its address. The PA will response in writing to any request for clarification of the bidding documents which it receives no later than five (05) days prior to the deadline for the submission of bids prescribed in the Bid Data Sheet. Written copies of the PA's response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective bidders that have received the bidding documents directly from the PA.

4. Preparation of Bids and Bidding Procedure

4.1. Language of Bid: The bid prepared by the Bidder, as well as all correspondences and documents relating to the bid exchange by the Bidder and the PA shall be written in English language.

4.2. Documents Comprising the Bid: The bid prepared by the Bidder shall comprise the following components:

a. Mandatory documents given in the eligibility criteria without which bid shall not be processed

b. Technical Bid Form with stationary charges in the form demand draft or pay order **sealed in separate envelop marked as technical proposal**

c. Financial Bid Form including specifications of all items and a Price Schedule as well as bid security in the form of CDR **sealed in separate envelop and marked as financial proposal**.

d. **Bidding Procedure:** Single Stage Two Envelop Bidding Procedure shall be followed.

5. General Instructions to Bidders (GITB)

5.1. All bids should reach the PA within due date and time as specified in the advertisement through registered post.

5.2. The submission of bids by hand is not acceptable. Bidders are bound to submit complete form issued by The University of Haripur with stamp and signature on each page.

5.3. Tenders must be enclosed in a properly sealed envelope. Both technical and financial proposals shall sealed in separate envelops and properly marked. Any cutting/ correction in bid will make the bid/quotation/offer invalid.

5.4. Tenders forms shall be filled in ink or typed. No tender filled through pencil shall be considered.

5.5. 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.

5.6. In case of quoting alternate prices, separate tender documents shall be purchased.

5.7. The bidder shall mention validity of offer, terms of payment, guarantee/warranty period and schedule of delivery.

5.8. The evaluation will be based on the comparison of specification/model/ makes and expiry. University of Haripur reserves the right to choose the specification/ models/ makes at its own discretion.

5.9. Bidder, interested in bidding for one or more items separately, is allowed to do so. However, University of Haripur 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

5.10. Supply order/ contract will be issued subject to the availability of funds as well as subject to Transfer from Funding agency.

5.11. The contractor shall notify forth in written form to The University of Haripur 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.

5.12. The University of Haripur 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 bidder has been given or distribute items of stores to more than one firm/ supplier.

5.13. 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 University of Haripur 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.

5.14. The contractor shall not assign or sub-let his contract or any substantial part thereof to any other agency.

5.15. The tender shall remove the rejected articles within 15 days of intimation of rejection, after which University of Haripur 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.

6. BID Price and Validity

6.1. The Bidder shall indicate price of his offer, list of items with specifications, standard accessories, make and origin, the unit price and total bid prices of the goods in Pak Rupees (PKR).

6.2. Prices of the optional accessories should be quoted separately. Rates quoted should be F.O.R and C & F, (Pak Rupees) University of Haripur, Haripur.

6.3. All kind of taxes levied by the government shall be paid by the bidder and must be included in the quoted prices. University of Haripur is exempted from the whole of customs duties under to the Ministry of finance, economic affairs statistics and revenue rules.

6.4. In case of items supplied from local stock, sales Tax and Income Tax will be deducted at source from the supplier's bill as per government rules. GST will be refunded subject to the provision of Sale Tax invoice.

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

7. Earnest Money or Bid Security

7.1. The bid must be accompanied with a call deposit receipt (CDR) of 2% of the total quoted prices with their offer in favor of "Treasurer-The University of Haripur" (refundable).

7.2. The earnest money shall be denominated in Pakistani rupees and shall be in the form of call deposit receipt issued by Pakistani bank or branch of a foreign bank, operating in Pakistan,

7.3. Unsuccessful bidders' bid security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity prescribed by the PA

7.4. The successful Bidder's bid security will be discharged upon the Bidder's successful supply of Goods duly acceptable to the PA

7.5. The earnest money may be forfeited in the following cases:

7.5.1. When bidder withdraws or modifies the offer, after opening of tender but before acceptance of tender

7.5.2. When bidder does not execute the agreement if any, prescribed within the specified time.

7.5.3. When the bidder submitted fake or forged documents, company authorization or misinterpretation of facts or other acts comes under the category of fraudulent practices defined in Clause-14 sub-clause14.2

8. Format and Signing of BIDS

8.1. The Bidder shall prepare an original and the number of copies of the bid indicated in clearly marking each "ORIGNAL BID" and "COPY OF BID" as appropriate. In the event of any discrepancy between them, the original shall govern.

8.2. The original and the copy or copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder or the contract. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.

8.3. Any interlineations, erasures, or overwriting shall not be valid even if they are initialed by the person or persons signing the bid. The bid should be duly binded and each page signed/stamped by authorized person.

9. Submission of Bids

9.1. Sealing and Marking of Bids:

The Bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as "ORIGNAL" and "COPY." The envelopes shall then be sealed in an outer envelope. The outer envelope should be clearly marked with Tender No and Tender title given on the title of this Document.

9.1.1. The inner and outer envelopes shall:

(a) Be addressed to the PA at the address given in advertisement; and

(b) Bear the name indicated in the advertisement, the invitation for Bids title and number indicated, and a statement: "DO NOT OPEN BEFORE," to be completed with the time and the date specified.

9.1.2. The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late".

9.1.3. If the outer envelope is not sealed and marked as required the PA will assume no responsibility for the bid's misplacement or premature opening.

9.2. Deadline for Submission of Bids

9.2.1. Bids must be received by the PA at the address specified in the Bid Data Sheet no later than the time and date specified in the Bid Data Sheet

9.2.2. The PA may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents, in which case all rights and obligations of the PA and bidders previously subject to the deadline will thereafter be subject to the deadline as extended

9.2.3. **Late Submission:** Any bid received by the PA after the deadline for submission of bids prescribed by the PA will be rejected and returned unopened to the Bidder.

10. Opening, Clarification and Evaluation of Bids

10.1. Opening of Bids by PA

10.1.1. The PA will open all bids in the presence of bidders' representatives who choose to attend, at the time, on the date and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register/attendance sheet evidencing their attendance

10.1.2. The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the PA, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder.

10.1.3. Bids that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidder.

10.2. **Clarification of Bids:** During evaluation of the bids, the PA may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted

10.3. Preliminary Examination:

10.3.1. The PA will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and

whether the bids are generally in order.

10.3.2. Arithmetical errors will be rectified on the following basis.

10.3.2.1. 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.

10.3.2.2. If the Supplier does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited.

10.3.2.3. If there is a discrepancy between words and figures, the amount in words will prevail.

10.3.3. The PA may waive any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

10.3.4. Prior to the detailed evaluation, the PA will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservation to critical provisions, such as those concerning Bid Security and Taxes and Duties will be deemed to be a material deviation. The PA's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

10.3.5. If a bid is not substantially responsive, it will be rejected by the PA and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

10.4. Evaluation and Comparison of Bids

10.4.1. The PA will evaluate and compare the bids which have been determined to be substantially responsive.

10.4.2. The PA's evaluation of a bid, further elaborated under Bid Data Sheet, will be on delivered duty paid (DDP) price inclusive of prevailing duties, taxes and transportation charges, and it will exclude any allowance for price adjustment during the period of execution of the contract, if provided in the bid.

10.4.3. 70% weightage will be given to technical evaluation while 30% weightage to financial evaluation.

10.5. Contacting PA

10.5.1. No Bidder shall contact the PA on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the PA, it should do so in writing.

10.5.2. Any effort by a Bidder to influence the PA in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid

10.5.3. Counseling or canvassing staff or elected representatives by any Bidder will become liable to disqualification.

11. Conforming Tender

11.1. A conforming tender is defined as follows:

11.1.1. It is submitted on time.

11.1.2. It is lodged at the nominated place.

11.1.3. All required forms are completed.

11.1.4. Documents are properly signed.

11.1.5. It complies with the tender conditions.

11.1.6. There are no commercial and contractual qualifications to the tender.

11.1.7. A non-conforming tender is one, which does not satisfy the above requirements and it may be rejected.

12. Award of Contract

12.1. Qualification

12.1.1. In the absence of prequalification, the PA will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily.

12.1.2. The determination will take into account the Bidder's compliance with the qualification criteria defined in the bidding document.

12.1.3. The PA will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily

12.2. PA's Right to Increase or Decrease Quantities at the time of Award

12.2.1. The PA reserves the right at the time of contract award to increase or decrease, by the percentage indicated in the Bid Data Sheet, the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

12.3. PA's Right to Accept any Bid and to Reject any or All Bids

12.3.1. The PA reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or bidders. The PA will inform the affected Bidder or bidders of the grounds for the PA's action, if so requested by, the PA shall not be required to justify the grounds.

12.3.2. The PA can disqualify any successful bidder at any time prior to award of contract, if he was found indulged in Corrupt or Fraudulent practices being defined in PPR-2004 and KPPRA

12.4. Notification of Award

12.4.1. Prior to the expiration of the period of bid validity and subject to GITB the PA will notify the successful Bidder in writing by registered letter or by cable, to be confirmed in writing by registered letter, that its bid has been accepted.

12.4.2. The notification of award under GITB will constitute the formation of the Contract.

12.4.3. The PA 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.

12.5. Signing of Contract

12.5.1. At the same time as the PA notifies the successful Bidder that its bid has been accepted, the PA will send the Bidder the Contract form provided in the bidding documents, incorporation all agreements between the parties.

12.5.2. Within seven (07) days of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to the PA.

12.6. Performance Security

12.6.1. The successful bidder shall furnish to the PA a Performance Security in the form of Bank Guarantee @ 5% of the total quoted bid price within a period of

twenty eight (28) days following the receipt of Letter of Acceptance.

12.6.2. Failures of the successful bidder to comply with the requirements of Sub-Clause 11.6.1. or Clause 11.6 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security

13. Mode of Payment

13.1. Payment shall be made in the form of cross cheque following inspection of IT equipment's supplied in accordance with the stated specifications.

13.2. No advance payment will be made. Payments will be made subject to the clearance of account and audit cells.

14. Disqualification of Tender

14.1. The bidder shall observe all relevant statutory and legal requirements when complete the tender. Any Tender engaged in corrupt or fraudulent practices shall be disqualified from tendering and their CDR shall be forfeited.

14.2. **Corrupt or Fraudulent Practices**

14.2.1. The PA observes the highest standard of ethics during the procurement and execution of such contracts. In pursuance of its policy, the PA: (a) defines, for the purposes of this provision, the terms set forth below as follows:

14.2.2. "corrupt and fraudulent practices" includes the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official or the supplier or contractor in the procurement process or in contract execution to the detriment of the procuring agencies; or misrepresentation of facts in order to influence a procurement process or the execution of a contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the procuring agencies of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty

14.2.3. The PA will;

14.2.3.1. Reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

14.2.3.2. Declare a firm ineligible, either indefinitely or for a stated period of time, if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a PPRA financed contract.

14.2.3.3. Declare a firm ineligible if the firm is blacklisted by any government and non-government organization. And a certificate to this effect by bidder must be attached with the bid.

15. Delay in Assignment

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 bidder has failed to supply / complete the work.

13.1. 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 %**

SECTION-II BID DATA SHEET

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the general instructions to Bidders (GITB): Section I. Whenever there is a conflict, the provisions herein shall prevail over those in GITB.

A-The Bidding Document		
GITB-4.1	Language of the Bid	English
B-Preparation of Bid		
Basic Eligibility Criteria	The price quoted shall be:	In Pak Rupees (PKR) inclusive of all applicable taxes & transportation charges
	The price shall be:	Fixed and must include the Income and General Sales Taxes (GST), KPRA taxes and other taxes and duties, where applicable as per law. If there is no mention of taxes, the offered / quoted price(s) will be considered as inclusive of all prevailing taxes / duties.
	Qualification requirement	1. The bidder must comply with the specifications of items provided in the tender document. 2. Documentary evidence to this effect must be provided with the bid, which includes copy of contract / purchase order, etc. 3. The bidder must submit National Tax No., Sales Tax. No. Certificates, as well as Certificate of Incorporation / registration of the firm. 4. The bidder must submit with the bid documents the delivery plan, particularly the completion time for subject procurement. 5. Bid must be submitted in accordance with Evaluation Criteria as mentioned in Schedule of Requirements. 6. Bid will be evaluated in accordance with Evaluation Criteria as mentioned in Schedule of Requirements. 7. The bidder shall submit proper documentary evidence for financial soundness of the firm. 8. The bidder shall not be under a declaration of ineligibility for corrupt and fraudulent practices and should not be black listed by any Government/Non-government Organization. An affidavit duly attested by notary public shall be attached with the bidding document in this regard
GITB-7.1	Amount and Form of Bid Security	1. 2% of the total quoted bid price in the form of CDR 2. The tenders found deficient of the amount as bid security compared to total bid price will not be considered. 3. The Bid security should be in the form of CDR in Favor Treasurer-The University of Haripur 4. No personal cheques will be acceptable at any cost. 5. The previous bid security if any will not be considered or carried forward.

GITB-12.6	Performance Security	5% of the total quoted bid price in the form of Bank Guarantee for a period of 01 years and will be released after completion of warranty period
GITB-6.5	Bid validity period.	Bid should remain valid for 120 days from the closing date.
GITB-9.1	Number of copies	One original and One additional Copy.
C-Submission		
GITB-1.1	Address for Bid Submission	The University of Haripur, Office of the Project Coordinator, Directorate of Planning & Development (P&D), Off Hattar Road, District Haripur-Khyber Pakhtunkhwa, Phone No: 0995-615226
GITB-9.2	Deadline for Bid Submission	June 8, 2021
D-Opening of Bid		
Tender Invitation	Bid Opening	Technical Bids will be opened on same date at 1130 hours in the Hennry Donunt Hall-UOH, whereas Financial Bids will be opened on June 22, 2021**at 1130 hours** after completion of Technical Evaluation.

3.1. Schedule of Requirements

3.2. Technical Specifications

3.3. Standards Forms

3.1. Schedule of Requirements

A-Technical Evaluation

1. Evaluation Purpose

1.1. All bids will be evaluated for technical soundness

2. Eligible Criteria

2.1. Eligibility evaluations are given on the Table 1 & 2.

2.2. All bids will be evaluated as per the given Evaluation Sheets.

2.3. All the information shall be strictly submitted in accordance with the above formats / forms. Technical Evaluation of Company/Firms will be done on the basis of information/data given on these forms/formats. Company brochures, etc. could be forwarded as supplementary but will not be entertained in lieu of the prescribed formats and no data will be extracted from such pre-printed documents

2.4. It is mandatory to acquire minimum 70% Marks in technical evaluation for bid financial consideration. Low evaluated marked companies will be disqualified.

2.5. All certificates should be filled in properly.

3.2. Technical Specification

Technical Specification are given in technical proposal form

3.3. Standard Forms

3.3.1. Bid Form/ Cover Letter

3.3.2. Technical Proposal Form

3.3.3. Financial Proposal Form (Price Schedule)

3.3.4. Contract Form

3.3.5. Form of Integrity Pact

3.3.6. Form of Tender Security

3.3.7. Form of Performance Security

3.3.8. Form of Contract Agreement

3.3.9. Undertaking

3.3.1. Bid Form/ Cover Letter

Date: _____

No: _____

To
The Project Coordinator
UOH-HEC Development Project, Directorate of P&D
The University of Haripur

Subject: **Submission of Tender Documents in Response to Your Advertisement.**

Dear Sir,

1. Having examined the bidding documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver the goods in conformity with the said bidding documents.
2. We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.
3. If our Bid is accepted, we hereby agree that our Bid Security as being provided herewith this "Bid Form", will remain with the PA according to Clause GITB-7.1 of Instructions to Bidders.
4. We also agree to abide by this Bid for a period of 120 days from the date fixed for Bid opening under Clause GITB-6.5 of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Until formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

Dated this _____ day of _____ 20_____

_____ _____

[Signature] [In the capacity of]

Duly authorized to sign Bid for and on behalf of _____

3.3.2. Technical Proposal (TP) Forms

Following forms shall be attached with Technical Proposal

TP Form-3.3.2.1. Mandatory Requirements		
Name of Firm		
Authorized Person Name and Signature		
Sr. No	**Particular Description**	**Attached as Annexure**
1	Valid Company/Firm Registration Certificate (under the laws of Pakistan)	**1.1.**
2	Valid Income Tax Registration (NTN) (having FBR active status on the date of proposal submission)	**1.2**
3	Valid General Sales Tax Registration (having FBR active status on the date of proposal submission)	**1.3**
4	Submission of undertaking on legal valid and attested stamp paper mentioning 4. 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. All documents attached to this bidding documents are genuine and if found forged of fake, the firm/company shall be liable to disqualification and subsequent forfeiture of CDR. 6. The firm/company has not provided the equipment less than the quoted price in any other Govt/Public Sector Organization. In full compliance of the execution schedule and delivery period mentioned in tender documents.	**1.4**
5	Similar Projects of last 3 Years and Current in hand	**1.5**
6	Audited Account Statement of Past 03 Years	**1.6**
7	Stationary Charges of Rs.5000/-	**1.7**

Technical Proposal Form-3.3.2.2.

S.No	Name of Equipment (s)	Specifications	Qty	Brand Name and Model
Department of Microbiology				
2	Optical Microscope	360 degree rotating monocular head with optical glass lenses, offering five levels of magnification up to 1000X Sturdy all-metal framework with single glass lens condenser and 6-hole disc diaphragm LED illumination powered via outlet and/or batteries 5MP USB 2.0 digital camera for photos and videos on Windows, with 3rd-party software support User-friendly software (Windows only) offers processing and advanced features including Stitching, EDF, Video Recording and Measurement functions	1	
6	Distillation plant	Glass, more than 10 L per hour with the provision of easy cleaning, Quality of distillate – pyrogen free, PH-6.9- 7.0.High purity, low conductivity. Distilled water should be heavy metal, salts, pyrogon and iron free. Specific Conductivity at 25 deg C less than 0.4 x 10-6S/cm Glass material (or chemical inert material)	1	
7	Hot Air Oven	176 L, temp range 50-250 C, temp control, microprocessor control, Temperature Range 5°C above ambient to 250°C maximum Safety device Over temperature protection Electric leakage breaker Temperature safety as per DIN 12880 Class 3.1 Exterior Chamber MS powder coated Interior Chamber 304 stainless steel Insulation Mineral Wool	1	
11	Hot plates with magnetic stirrer	Speed control range 250-1250 RPM Weight 2.9 kg Power consumption (Stirring) 8.5 W Power consumption (Heating) 550 W Nominal operating voltage 230 V; 50/60 Hz or 120 V; 50/60 Hz	2	
13	Filtration assembly (Vacuum)	Borosilicate glass Made up of: - 1 Erlenmeyer flask with cone 40/35, 1000 ml (cod. PBH030) - 1 Body with fritted glass disk for 47 mm membranes (cod. PJD003) - 1 Filtration funnel, 300 ml (cod. PJD002) - 1 Anodized aluminium clamp (cod. PJD006) - Vacuum pump diagphram type-oil free	1	
15	Centrifuge machine for large tubes	Centrifuge machine Speed regulation range for centrifuge tubes 100-3000 rpm (1610 × g) Chamber diameter 335 mm	1	

S.No	Name of Equipment (s)	Specifications	Qty	Brand Name and Model
		Overall dimensions (W×D×H) 420 x 495 x 235 mm Weight 11.8 kg Nominal operating voltage 230 V, 50/60 Hz or 120 V, 50/60 Hz 1.5ml, 50ml tubes rotor		
20	Ultrasonic bath	Power Rating: 1000 watts; Frequency: 20 kHz; Dimensions (W x L x H): 8 x 15.25 x 8.5 in. (203 x 387 x 216 mm); Voltage: 110V, 50/60 Hz	1	
21	Micro pipette set	• Microlit Lab Pipettor (0.5-10ul, 10-100ul, 100-1000ul) • Universal Tipcone – compatible with most internationally accepted tips • Fully autoclavable at 20° C, 15psi. for 10 – 15 mins • Calibration certificate provided – Conforms to ISO 8655 standards • Certificates – ISO 9001, ISO 13485, ISO 17025, CE	2 each	
Annexure-2.2A Teaching Lab: (Department of Food Sciences and Technology)				
1	pH Meter	Automatic, up to five- point calibration, eight standard buffers available (1.68, 3.00, 4.01, 6.86, 7.01, 9.18, 10.01,12.45) and five custom buffers. ±0.1 pH, ±0.01 pH, ±0.002 pH ±1 LSD	2	
2	Sonication bath	Power Rating: 700 watts; Frequency: 20 kHz; Dimensions (W x L x H): 8 x 15.25 x 8.5 in. (203 x 387 x 216 mm); Voltage: 110V, 50/60 Hz	1	
Department of Agronomy				
2	Muffle Furnace	Muffle furnace electric Temp Max. 1100°C. For temperatures adjustable up to 1100°C. Microprocessor control with tft touch screen. Precision ±2 °c of the set value. Resolution: 1 digit. Capacity: 3.0 Litres Chamber dimensions: 115 x 125 x 200mm, Daily - weekly On / Off programming. Power: 220VAC, 50Hz. Microprocessor Controlled, 20- litre Water Bath, High-Grade Stainless-steel interior/ Outer Powder coated steel Digital LED Display	1	
6	Sample Drying Oven	Control: PID control, +/-3%RH at the aspirated sensor. Components: Vaisala dry humidity sensor, stainless steel tubing, stainless steel on/off solenoid, inline water filter, controls and data logging by the controller. Humidity Sensor Specifications: Range 0 to 100%, accuracy at 20°C: +\- 3% (0 to 90% RH). Specifications: Microprocessor controlled, digital display. Capacity: 100 liters. Timer: 0-99 min. Temperature range: ambient +5C to 260C	1	
7	PH/EC Meter	Range: 0.00~14.00pH 0~19.99 mS/cm. Accuracy: ±0.1pH/ ±2%F·S. Temperature Compensation: 0~50°C. Power Supply: 6V DC (include), with Power adaptor. Operating Environment: 0~50°C. Size: 88 x 55 x 22 mm. weight: 135g	3	
Department of Plant Breeding & Genetics				
7	Water bath	Temperature control range: room temperature -100 degrees (adjustable) Temperature control accuracy: 0.1 degrees. Dimensions:49X39X19mm. Heating power: 800w	1	
8	Digital balance	Weighing range 0 -100 g Readability 0,01 g Linearity ± 0,02 g Repeatability 0,01 g Dimensions Scale: approx. 120 x 80 x 25 mm Weighing pan: approx. 62 x 62 mm Weight 170 g Power 2 AAA batteries (for 70 hours of continuous operation)	1	
12	Incubator	Operating voltage: 12V DC Internal size: D23.9xL27xH37cm (9.4x10.6x14.6 inch). External size: D41.7xL34xH47.7cm (16.4x13.4 x18.8inch). Temperature range. 36~140 Degrees Fahrenheit. Cooling power: 50W	1	

S.No	Name of Equipment (s)	Specifications	Qty	Brand Name and Model
15	Fume Hood	Max Opening: 520mm Blower: Built-in Centrifugal Blowers. Work Surface Height: 750mm. Air Velocity: 0.3~0.8m/S. Gross Weight: 230kg/253kg /280kg/310kg. Consumption: 400W/400W/500W/500W. Fluorescent Lamp: 18W*1/18W*1/36W*1/36W*1. Noise: ≤60dB. UV Lamp: Emission of 253.7 Nanometers for Most Efficient De Power Supply: 110/220V±10%, 60/50Hz	1	
Department of Soil Science				
9	Deionizer	Water purification system with UV-photo-oxidation and ultrafiltration membrane, up to 2L per mint, equipped with conductivity meter, wall mount Flow rate50 liter/hour, pure water quality 0.1 – 20 us/cm depends on water quality, operated on 220 Volts	1	
16	UV Visible Spectrophotometer	Optical system Double beam Wavelength range 190 to 1,100nm, Spectral bandpass 1.5nm, Stray light 0.05% or less, Photometric range –3 to 3Abs, 0 to 300%T, Photometric accuracy Wavelength scan speed 10, 100, 200, 400, 800, 1,200, 2,400, 3,600nm/min Baseline stability 0.0003Abs/h (at 500nm, 2 hours after power-on), Light source WI and D2 lamps, Light source changeover Auto (user selectable from 325 to 370nm), Detector Silicon photodiode, Display U-2900: color LCD with backlight (26.4cm)	1	
Department of Horticulture				
5	Digital balance	Weighing range 0 -100 g Readability 0,01 g Linearity ± 0,02 g Repeatability 0,01 g Dimensions Scale: approx. 120 x 80 x 25 mm Weighing pan: approx. 62 x 62 mm Weight 170 g Power 2 AAA batteries (for 70 hours of continuous operation)	1	
Department of Entomology				
6	Chemical Storage Cupboard	Construction: - Cabinet made of sheet-steel plastic laminated, light grey RAL 7035 Wing doors: Lockable with safety cylinder Shelves: Height adjustable (25 mm increments) Ventilation: Extraction air inlet on top / Vertical aeration via air grills at the bottom of the doors Technical data: - Cabinet dimensions W x D x H (mm): approx. 1200 x 500 x 1970 - Cabinet weight: approx. 70 kg - Load capacity per shelf (evenly distributed load): approx. 50 kg - Volume of the bottom collecting sump: 36 l Accessories: PE tray - protects shelves from corrosive materials - Chemical box - separate storage of less mildly corrosive - Storage box - lockable, separate storage of hazardous materials	2	
8	Micropipette Set	0.5-10 µl, 10- 20 µl, 10- 100 µl, Upto 1 ml; Shall comply with ISO-8655 calibration specification	1 each	

S.No	Name of Equipment (s)	Specifications	Qty	Brand Name and Model
Department of Environmental Sciences				
1	Spectrophotometer	Wavelength range: 330-860nm 330-1000nm (silicon photocell), wavelength accuracy: ≤ ± 2nm, wavelength, reproducibility: <0.5nm, 4, bandwidth: 4nm. Stray light: ≤ 0.6 (T) (at 360nm Office). light transmission measuring range :0-100 (T). Absorbance measurement range: 0-1 .999 (A). Reading accuracy: linear transmission accuracy: ≤ 0.5% (T). Absorbance accuracy; ≤ ± 0.004A (at 0.5A Office). Repeatability: <0.5% (T). Noise: <0.5% (T) (at 5nm Office)	1	
Department of Geology				
4	Streak Plates	Standard Plates used for grinding of minerals. Streak Plates White Porcelain (Pack of 10) Unglazed white porcelain tiles that are ideal for mineral streak testing.	10	
7	PROCTOR HAMMER (MANUAL)	The Manual Standard Soil Compaction Hammer has 5.5lb (2.5kg) mass enclosed in a guide sleeve with vent holes to insure unrestricted free-fall. Drop is 12in (305mm). The Manual Modified Soil Compaction Hammer has 10lb (4.5kg) mass enclosed in a guide sleeve with vent holes to insure unrestricted free-fall. Drop is 18in (457mm).	1	
8	SEIVE ANALYSIS (including all seive sizes)	203 mm dia ASTM sieve op 2" (50 mm), 203 mm dia ASTM sieve op 3" (75 mm), 203 mm dia ASTM sieve op 1 1/2" (37.5 mm), 203 mm dia ASTM sieve op 1" (25.0 mm), 203 mm dia ASTM sieve op 3/4" (19.0 mm), 203 mm dia ASTM sieve op 1/2" (12.5 mm), 203 mm dia ASTM sieve op 3/8" (9.5 mm), 203 mm dia ASTM sieve No 4 (4.75 mm), 203 mm dia ASTM sieve No 8 (2.36 mm), 203 mm dia ASTM sieve No 10 (2.00 mm), 203 mm dia	1	
9	Speedy Moisture Tester	6 g cap. complete with electronic balance, accessories and carrying case. Accuracy: within 0.5% on most materials; Test speed: 45 sec to 3 min; Gauge: calibrated from 0-20% moisture based on wet weight.	1	
10	WEIGHT SET	Set of slotted steel weights (total = 37.5 kg); 0.250 kg (2 units) 0.500kg (2 units) 1kg (2 units) 2kg (3 units) 4kg (3 units) 8kg (2 units)	1	
11	Casagrande Apparatus (Liquid Limit)	Liquid limit device with counterw ASTM-AASHTO- UNI model. ACCESSORIES Glass plate 500 x 500 x 10 mm, Flexible spatula 100 mm blade, Flexible spatula 160 mm blade, Plastic wash bottle 500 ml, , Porcelain evaporating dish dia. 120 x 50 mm h, Moisture content tin dia. 75X30 MM	2	
12	Los Angeles abrasion machine	Conforming to EN and ASTM standards. 230V, 50Hz, 1ph., Set of 12 abrasive charges ASTM/UNI	1	
13	STANDARD PENETRATION TEST APPARATUS	SPT SPLIT SAMPLER Stainless Steel, Spt Hammer Of 140 Lbf, Spt Guide Rod Assembly, Spt Lifting Hook Assembly, Spt Drilling Rod 42mm X 5 Feet Approximately. With Coupling Nipple (6), Spt Tripod Set 2" Dia (15 Ft Approximately), Manila Rope (Rate Per Foot) (50), Screw Wrench 18" Follow the ASTM Standards.	1	
14	PLASTIC LIMIT (Complete set with all accessories)	Plastic limit set accessories: Glass plastic limit plate 300 x 300 mm, Stainless steel rod dia 3 mm, Porcelain evaporating dish dia 120 x 32 mm h, Flexible spatula 100 mm blade, Aluminium cup dia 75x30 mm with cover. Set of 6	1	

S.No	Name of Equipment (s)	Specifications	Qty	Brand Name and Model
15	Hydrometer with all accessories	Hydrometer particle size test set to ASTM D422 -AASHTO T88. 230V, 50Hz, 1ph. Comprising: Hydrometer jar 1000 ml. Graduated glass., Rubber bung for cylinder 22-D1006/A, Soil hydrometer 151/H, Laboratory thermometer -10 to + 50 deg.C, Constant temperature water bath. 230V/50Hz/Ph, High speed stirrer. 230V/50-60Hz/1Ph, Sodium hexametaphosphate 1000 g, Borosilicate glass beaker 250 ml	1	
16	Fossils kit	12 premium educational fossils, Each with an illustrated description card, Geologic Time Chart Card denoting evolutionary milestones	5	
17	Permeameter	Open System: Sample rings phi 53 and 60 mm, 5,10 or 25 samples, Closed System: Sample rings phi 53 and 60 mm, Pump: Type Eheim 1048, Power Rating: 230 V, 50 Hz, Power 10 W, Capacity 10 liter per minute, IP67: 1,5 Meter	1	
20	Direct/ Shear Residual Machine	Speed Range: adjustable from 0.00001 to 9.99999 mm/min, Maximum Shear Force: 5000 N, Maximum Vertical Load: 500 N or 5000 N using 10:1 lever-arm device, Speed drive ratio: stepper motor 1/10000 resolution, Horizontal Travel: preset via firmware up to 20mm, Displacement Limits: controlled by optical safety switch, Digital Display: 4-row/ 20-character LCD. Easy to operate with membrane keyboard, Specimen sizes: 60- and 100-mm square; 50,60, 63.5- and 100-mm diameter, Overall Dimensions: 953*387*1180mm (w*d*h), Weight: 120 Kg: Standards: ASTM D3080/AASHTO T236	1	
21	Proctor moulds and rammers (complete set)	The Soil Compaction Mold, 6" ID-Standard, 1/13 Cu Ft. fit the Automatic Mechanical Soil Compactors, and also may be used with manual soil compactors. Molds are 4.584in (116.4mm) in height with detachable extension collar and base plate, and are plated for rust resistance., straight edge. Standards: ASTM D558, D698, D1557, AASHTO T99, T134, T180/ CNR N 69	1	
26	Schmidth hammer	HT-225D digital Schmidt Hammer Test LED Display Data Software to PC	1	
27	Polariscope	Condensing lens/ Interference Spheres, immersion cell. GIA/GEM Polariscope	4	
29	Spectroscope	Kassoy Prism type spectroscope, Adjustable slit aperture with slide focus	2	
31	Double goose neck (Fiber optic light) FIB0005	150W Fiber Optic Dual Gooseneck Microscope Illuminator	1	
32	Lamps	Eglo Top Desk 7059 Table Lamp in Black… Eglo Bidi 7059 Table Lamp Colour: Black Product Code: 87002 Bulbs Not Included Rocker Switch H470mm Maximum Wattage: 60w	5	
33	Hardness Pick Set (In a wooden case)	Four double ended picks with hardness point of 2-9 on Mohs hardness scale. A grinding plate for sharpening your points. Streak plate.Glass plate for quick "hard" or "soft" determination, A hardness plate with a hardness of 3.5 Magnet, Paper table listing common minerals and their hardness, Hardness testing instructions. All of this in a compact (7" x 2 1/2" x 1 5/8") wooden case that takes up minimal space on a desk or shelf	5	
34	Hardness Pick Set (In a Plastic Field case)	This hardness pick set has the same contents as the kit described above. It is packaged in a durable plastic case for easy carrying in the field. The case opens and closes on a hinge and has a plastic latch. The case measures approximately 5" by 8" by 1 3/4" when closed.	5	
35	Mineral Hardness Test Kits	Standard (Hardness Pick Set and Mineral Identification Kit, in Wooden Case)	7	

S.No	Name of Equipment (s)	Specifications	Qty	Brand Name and Model
Department of Medical Lab. Technology				
1	Electrolyte Analyzer (Flame Photometer)	Automatic, Touchscreen, with auto-sampler; Analytes: pH, Na+, K+, Cl-, Li+, Ca++ CO2; Throughput: 60-70 samples per hour; Principle: Ion Selective Electrode (ISE) method; Sample range: Blood, serum, plasma, urine, CSF; Measuring time: 20-25 sec; Working Temperature: 5-40°C; Data Storage: >2thousand test; Electric Supply: 110 - 240 V, 50/60 Hz (self-adjusting), 1.4 amps max; Dimension: 380(L) x 200(W) x 340(H) mm; Printer: Built-in thermal printer; Certification: FDA approved	1	
3	Micropipette Set	0.5-10 µl, 10- 20 µl, 10- 100 µl,Upto 1 ml. ; Shall comply with ISO-8655 calibration specification	1 each	
4	Water Distillation Apparatus	Capacity: Output 4 litre per hour. Automatic with ontinuous water production. pH : 5.0 – 6.5pH; Conductivity: 3.0 – 4.0 µScm- 1 ; Resistivity: 0.25 – 0.3 mOhm-cm: Temperature: 25 - 35°C : Pyrogen content: Pyrogen free : Water supply: 1 litre/min (3 – 100psi) : Electricity supply: 220 or 240V, 50-60Hz, single phase	1	
5	Horizontal Gel electrophoresis tank Large/medium/small	Mini Gel Electrophoresis Horizontal unit dimension 20 x 9.5 x 8.5cm (LxWxH), Run up to 30 samples at once complete system with UV Tray 10 x 7 cm Gel Electrophoresis Horizontal Midi unit dimension 27 x 17.5 x 10cm (LxWxH), Run up to 40 samples at once complete system with UV Tray 10 x 15 cm Maxi Gel Electrophoresis Horizontal unit unit dimension 27 x 17.5 x 10cm (LxWxH), Run up to 40 samples at once, complete system with UV Tray 15 x 15 cm	1	
7	Gel documentation system	Camera: 5 MP (2592 x 1944), scientific grade sensor Lens: 8 mm, F 1.4 hands free lens with Smart Capture technology Cabinet: Built in UV trans illuminator with safety cut-off switch, Dimensions: 34.6 x 31.1 x 68.6 cm	1	
10	Real time PCR with accessories	Compact, with touchscreen, portable, high-performance, with USB port, Bluetooth; 5 color Real-Time PCR with choice of Five Filters; Technology: Real-time and fluorescence; QPCR system with Laptop PC Software for data analysis; Number of well: 96; Up to 96 tests at once Fast,up to 8-12°C/s of heating rate Accurate,CV<0.5%; PCR Reaction Volume: 10-20 µl; Run time; < 40 min; Multiplexing Capacity: 4-6x. Light Source: High-Intensity LED; Electric Supply: 110 - 240 V, 50/60 Hz (self-adjusting); Certification: FDA Approved.	1	
11	Hemoglobin Testing system (HPLC)/ Fully automated system for diabetes monitoring and thalassemia testing	Compact Automatic system startup checklist and touch screen operation; Auto-sampler; Parameters: complete hemoglobin variants (HbA, HbA1c, HbA2, HbC, HbD, HbE, HbF, HbS); Analysis time; 9-15 mins; Specimen; Whole blood; Flow rate: 1.5ml/min; Maximum pressure; 140 bar; Gradient; binary; Electricity supply: 220 or 240V, 50-60Hz, single phase; Other: Any HPLC gradient system with UV/VIS detector is suitable; Certification: FDA Approved.	1	

Declaration	I hereby declare that all information, documents, price list, forms etc attached with Financial Proposal are true and ***if found fake or forged***, the firm shall be liable to ***disqualification and forfeiture of CDR by the Procuring Entity***.
Name of Authorized Person:	
Signature of Authorized Person	
Official Stamp/Seal	
Date:	

Technical Proposal Form Chemicals: 3.3.23.

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
Department of Agronomy			
1	Acetic Acid, BDH/Sigma/Merck 2.5 Lit	1	
2	Acetone, BDH/Sigma/Merck 2.5 Lit	1	
3	Aluminum Chloride, BDH/Sigma/Merck 500g	1	
4	Aluminum Nitrate, BDH/Sigma/Merck kg	1	
5	Cadmium Chloride, BDH/Sigma/Merck 500g	1	
6	Calcium Hydroxide, BDH/Sigma/Merck kg	1	
7	Carbon Tetra Chloride , BDH/Sigma/Merck 2.5-l	1	
8	Citric acid, BDH/Sigma/Merck kg	1	
9	e-sol BDH/Sigma/Merck 2.5 Lit	1	
10	Ethyl Alcohol, BDH/Sigma/Merck 2.5 Lit	1	
11	Methanol, BDH/Sigma/Merck 2.5 Lit	1	
12	Ninhydrin , BDH/Sigma/Merck 25-g	1	
13	Oxalic Acid, BDH/Sigma/Merck kg	1	
14	Phenol, BDH/Sigma/Merck kg	1	
15	Potassium Dichromate, BDH/Sigma/Merck kg	1	
16	Potassium Bromide, BDH/Sigma/Merck kg	1	
17	Silver Nitrate, BDH/Sigma/Merck 25-g	1	
18	Sodium Acetate, BDH/Sigma/Merck kg	1	
19	Sodium Chloride , BDH/Sigma/Merck kg	1	
20	Sodium Nitrate, BDH/Sigma/Merck kg	1	
21	Sulphuric Acid, BDH/Sigma/Merck 2.5l	1	
22	Toluene, BDH/Sigma/Merck 2.5-l	1	
23	Zinc Chloride, BDH/Sigma/Merck kg	1	
List of Chemicals form Agronomy-2 Chem			
1	n- Hexane BDH/Sigma/Merck 2.5-l	1	
2	Ethyl acetate BDH/Sigma/Merck 2.5-l	1	
3	Dimethyl Sulfoxide BDH/Sigma/Merck 500ml	1	
4	N,N-Dimethylformamide BDH/Sigma/Merck 2.5-l	1	
5	Methanol 99.5% BDH/Sigma/Merck 2.5-l	1	
6	Acetic acid Glacial 99.5% BDH/Sigma/Merck 2.5-l	1	
7	Nitric acid 60% Glass BDH/Sigma/Merck 2.5-l	1	
8	Sodium bicarbonate BDH/Sigma/Merck Kg	1	
9	Sodium thiosulphate BDH/Sigma/Merck Kg	1	
10	Potassium Oxalate BDH/Sigma/Merck Kg	1	
11	Oxalic acid BDH/Sigma/Merck Kg	1	
12	Potassium permanganate BDH/Sigma/Merck Kg	1	
13	Calcium Hydroxide BDH/Sigma/Merck Kg	1	
14	Sodium hydroxide Pellets BDH/Sigma/Merck Kg	1	
15	succinic acid BDH/Sigma/Merck 500g	1	
16	Phthalic acid BDH/Sigma/Merck 500g	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
17	Hydroxyl amine hydrochloride BDH/Sigma/Merck 500g	1	
18	phthalic anhydride BDH/Sigma/Merck 500g	1	
19	Phenol BDH/Sigma/Merck Kg	1	
20	Salicylaldehyde EP BDH/Sigma/Merck100-ml	1	
21	Aniline EP BDH/Sigma/Merck litre	1	
22	Zinc nitrate Hexahydrate EP BDH/Sigma/Merck Kg	1	
23	Benzoic acid 99.5% EP BDH/Sigma/Merck Kg	1	
24	Calcium hydroxide 95% EP BDH/Sigma/Merck Kg	1	
25	Oxalic acid Dihydrate EP BDH/Sigma/Merck Kg	1	
26	Magnesium hydroxide CP BDH/Sigma/Merck Kg	1	
27	Benzophenone GR BDH/Sigma/Merck 250-g	1	
28	Methyl orange GR BDH/Sigma/Merc k25-g	1	
29	Methyl red GR BDH/Sigma/Merck 25-g	1	
30	Copper(II) Chloride 2H2O EP BDH/Sigma/Merck Kg	1	
31	Barium Chloride Dihydrate EP BDH/Sigma/Merck Kg	1	
32	Ammonium Hydroxide EP BDH/Sigma/Merck 2.5-l	1	
33	Sulphuric acid BDH/Sigma/Merck 2.5-l	1	
34	Ethylendiaminetetraacetic acid (EDTA) BDH/Sigma/Merck 500g	1	
35	Eriochrome Black T BDH/Sigma/Merck 100g	1	
36	Ammonium Chloride EP BDH/Sigma/Merck 2.5-l	1	
37	Silver nitrate BDH/Sigma/Merck 25g	1	
38	Potassium chromate BDH/Sigma/Merck kg	1	
40	Potassium iodide BDH/Sigma/Merck 500-g	1	
41	Silver nitrate BDH/Sigma/Merck 25g	1	
42	Sodium thiosulphate BDH/Sigma/Merck kg	1	
43	Soluble starch powder BDH/Sigma/Merck kg	1	
48	Methyl Orange BDH/Sigma/Merck 25-g	1	
49	HCL (37% v/v) BDH/Sigma/Merck 2.5 L	1	
50	Phenolphthalein 98% BDH/Sigma/Merck 100-g	1	
51	Ammonium molybdate tetrahydrate BDH/Sigma/Merck 500-g	1	
52	Hydrogen peroxide H2O2/Sigma aldrich/500mL	1	
53	Potassium Dichromate, BDH/Sigma/Merck kg	1	
54	Ethyl Alcohol BDH/Sigma/Merck 2.5-l	2	
55	Chloroform (2.5 L) BDH/Sigma/Merck 2.5-l	1	
56	Acetone (2.5L) BDH/Sigma/Merck 2.5-l	3	
57	Isopropyl Alcohol BDH/Sigma/Merck 2.5-l	2	
58	Toluene, BDH/Sigma/Merck 2.5-l	2	
59	Nitric acid 65% BDH/Sigma/Merck 2.5-l	1	
60	Acetic Acid BDH/Sigma/Merck 2.5-l	1	
61	Sodium hydrogen carbonate BDH/Sigma/Merck kg	1	
62	Sodium Carbonate BDH/Sigma/Merck kg	1	
63	Benzoic Acid BDH/Sigma/Merck kg	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
64	Potassium Dichromate BDH/Sigma/Merck kg	1	
65	Ferrous Sulphate BDH/Sigma/Merck kg	1	
66	Ferric Sulphate BDH/Sigma/Merck kg	1	
67	Sodium Nitrate BDH/Sigma/Merck kg	1	
68	Sodium phosphate BDH/Sigma/Merck kg	1	
69	Acetonitrile AR BDH/Sigma/Merck 2.5-l	1	
70	n-Butanol BDH/Sigma/Merck 2.5-l	1	
71	Polyethylene glycol BDH/Sigma/Merck 2.5-l	1	
72	Urea BDH/Sigma/Merck kg	1	
73	Dimethylsulfoxide ≥99.9% BDH/Sigma/Merck 2.5-l	1	
74	p-Anisaldehyde, 99+% Cat No 104800050	1.0	
75	Tetraethyl orthosilicate (500g) Daejung Korea	1	
76	Hexadecyltrimethylammonium bromid 99% Daejung Korea	1	
77	Acetic Acid Glacial EP 500ml Daejung Korea	1	
78	Trimethylorthosilicate (TMOS) (Acros) 100 g	1	
79	Octadecylsilane 97% (Across/ BDH/Sigma/Merck) 25 g	1	
80	Ferric Sulphate BDH/Sigma/Merck kg	1	
81	Acrylonitrile analytical grade BDH/Sigma/Merck 2.5-l	1	
82	Zinc Nitrate Duksan/Sigma/BDH/Merck 500 g	1	
83	Nickel (II) Chloride 6- Hydrate BDH/Sigma/Merck 100 g	1	
84	Manganese (II) Chloride Duksan/ BDH/Sigma/Merck 100g	1	
85	Manganese nitrate BDH/Sigma/Merck 500g	1	
86	Iron chloride hexahydrate chemlab/ BDH/Sigma/Merck 100g	1	
87	Silver nitrate Sigma/ BDH/Sigma/Merck 100g	1	
88	Chromium (III) Sulphate BDH/Sigma/Merck 100g	1	
89	Titanium Dioxide BDH/Sigma/Merck 100g	1	
90	Cadmium Sulfate Hydrate BDH/Sigma/Merck 100g	1	
List of Chemicals form Entomology Dept			
1	Potassium cyanide (kg) BDH/Sigma/Merck kg	1	
2	Agar (kg) BDH/Sigma/Merck 500-g	1	
3	Chloroform (2.5 L) BDH/Sigma/Merck 2.5-l	1	
4	Acetone (2.5L) BDH/Sigma/Merck 2.5-l	1	
5	E-sol (2.5 L) BDH/Sigma/Merck 2.5-l	1	
6	Methanol BDH/Sigma/Merck 2.5-l	1	
7	HCL (2.5L) BDH/Sigma/Merck 2.5-l	1	
8	Ascorbic acid(L) BDH/Sigma/Merck kg	1	
9	H2SO4 (2.5 L) BDH/Sigma/Merck 2.5-l	1	
10	Ferric Chloride (kg) BDH/Sigma/Merck kg	1	
11	Nitric acid (2.5 L) BDH/Sigma/Merck 2.5-l	1	
12	Copper acetate (500g) BDH/Sigma/Merck kg	1	
13	DPHH (500g) BDH/Sigma/Merck 1g	1	
14	Sodium hydroxide (kg) BDH/Sigma/Merck kg	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
15	Formalin (L) BDH/Sigma/Merck 2.5-l	1	
List of Chemicals form Soil Sciences			
S.No	**Description**	**Qty**	
1	Acetic Acid Glacial EP 1kg BDH/Sigma/Merck 1-KG	1	
2	Acetone BDH/Sigma/Merck 2.5 lit	1	
3	Agar BDH/Sigma/Merck 500g	1	
4	Ammonium bicarbonate BDH/Sigma/Merck Kg	1	
5	Ammonium Heptamolybdate BDH/Sigma/Merck 500-g	1	
6	Ammonium Phosphate Monobasic EP 1kg BDH/Sigma/Merck 1-KG	1	
7	Ammonium Sulfate EP 1kg BDH/Sigma/Merck 1-KG	1	
8	Antimony potassium tartrate 0.5H2O EP 99.5~100.5% BDH/Sigma/Merck 1-KG	1	
9	Boric acid BDH/Sigma/Merck kg	1	
10	Buffer solution pH 4,7,10 BDH/Sigma/Merck 1-litre	1	
11	Calcium carbonate BDH/Sigma/Merck Kg	2	
12	Calcium sulphate BDH/Sigma/Merck kg	1	
13	Chromium chloride BDH/Sigma/Merck 500-g	1	
14	Citric Acid Monohydrate EP 1kg BDH/Sigma/Merck 1-KG	1	
15	Copper (II) Sulfate Anhydrous EP BDH/Sigma/Merck 500g	1	
16	EDTA BDH/Sigma/Merck Kg	1	
17	Ethyl Alcohol BDH/Sigma/Merck 2.5-l	1	
18	Hydrochloric acid BDH/Sigma/Merck 2.5l	1	
19	Hydrogen Peroxide 30% EP BDH/Sigma/Merck 500g	1	
20	L(+)-Ascorbic Acid 99% EP BDH/Sigma/Merck 25-g	1	
21	Lead (II) Nitrate CP BDH/Sigma/Merck 1-KG	1	
22	Methanol BDH/Sigma/Merck	1	
23	Methyl blue BDH/Sigma/Merck 25-g	1	
24	Methyl orange BDH/Sigma/Merck 25-g	1	
25	NaHCO3 BDH/Sigma/Merck kg	1	
26	Nitric acid 60% GR BDH/Sigma/Merck 500-g	1	
27	Nitroprusside Na2[Fe(CN)5NO].2H2O BDH/Sigma/Merck 250-G	1	
28	Nutrient Agar Biolab/ BDH/Sigma/Merck 500-g	1	
29	Nutrient Broth Biolab/ BDH/Sigma/Merck 500-g	1	
30	Perchloric Acid 60% GR BDH/Sigma/Merck 2.5-L	1	
31	Postassium ferricyanide BDH/Sigma/Merck kg	1	
32	Potassium chloride BDH/Sigma/Merck kg	1	
33	Potassium dichromate BDH/Sigma/Merck 500g	1	
34	Potassium dihydrogen phosphate BDH/Sigma/Merck kg	1	
35	Potassium Hydroxide, Flakes EP BDH/Sigma/Merck 1-KG	1	
36	Sodium Acetate Anhydrous EP BDH/Sigma/Merck 1-KG	1	
37	Sodium bicarbonate BDH/Sigma/Merck Kg	1	
38	Sodium chloride BDH/Sigma/Merck 1kg	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
39	Sodium hydrogen carbonate BDH/Sigma/Merck Kg	1	
40	Sodium hydroxide pellets EP BDH/Sigma/Merck Kg	2	
41	Sodium molybdate BDH/Sigma/Merck 500-g	1	
42	Sodium Phosphate Dibasic Anhydrous 99% BDH/Sigma/Merck 1-KG	1	
43	Sodium Sulfate Anhydrous EP BDH/Sigma/Merck 1-KG	1	
44	Sulphuric acid BDH/Sigma/Merck 2.5l	2	
45	Tri-Sodium Citrate di-hydrate BDH/Sigma/Merck 1 KG	2	
46	Tri-Sodium Phosphate BDH/Sigma/Merck 1KG	1	
47	Trypton BDH/Sigma/Merck 500 g	1	
48	Whatman No. 42 filter paper pkt	2	
49	Yeast extract BDH/Sigma/Merck 500 g	1	
50	Zinc Nitrate 6H2O EP BDH/Sigma/Merck 500-g	1	
51	Zinc sulphate BDH/Sigma/Merck Kg	1	
Dept. of Environmental Sciences			
1	Barium chloride BDH/Sigma/Merck 1 kg	1	
2	Calcium sulphate BDH/Sigma/Merck kg	1	
3	Potassium chloride BDH/Sigma/Merck kg	1	
4	Acetone BDH/Sigma/Merck 2.5 lit	1	
5	NaHCO3 BDH/Sigma/Merck kg	1	
6	Potassium nitrate BDH/Sigma/Merck kg	1	
7	Potassium chromate BDH/Sigma/Merck kg	1	
8	Potassium dichromate BDH/Sigma/Merck 500g	1	
9	Sodium chloride BDH/Sigma/Merck 1kg	1	
10	Sodium carbonate BDH/Sigma/Merck 500g	1	
11	Anhydrous sodium sulphate BDH/Sigma/Merck kg	1	
12	Sodium hydroxide BDH/Sigma/Merck kg	1	
13	Sodium thiosulphate BDH/Sigma/Merck kg	1	
14	Sodium tetraborate BDH/Sigma/Merck kg	1	
15	Silver nitrate BDH/Sigma/Merck 25g	1	
16	Barium chloride BDH/Sigma/Merck kg	1	
17	Mercuric sulphate powder BDH/Sigma/Merck 25-g	1	
18	Sodium iodide BDH/Sigma/Merck 100-g	1	
19	Sodium nitrate BDH/Sigma/Merck kg	1	
20	Boric acid BDH/Sigma/Merck kg	1	
21	Methyl red indicator BDH/Sigma/Merck 25-g	1	
22	Methyl blue BDH/Sigma/Merck 25-g	1	
23	Methyl orange BDH/Sigma/Merck 25-g	1	
24	Silver sulphate BDH/Sigma/Merck 25-g	1	
25	Sulphuric acid BDH/Sigma/Merck 2.5l	1	
26	Nitric acid BDH/Sigma/Merck 2.5l	1	
27	Hydrochloric acid BDH/Sigma/Merck 2.5l	1	
28	Ethyl alcohol BDH/Sigma/Merck 2.5l	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
29	Ammonia solution BDH/Sigma/Merck 2.5l	1	
30	Potassium dihydrogen phosphate BDH/Sigma/Merck kg	1	
31	copper sulfate BDH/Sigma/Merck kg	1	
32	Potassium sulphate BDH/Sigma/Merck kg	1	
33	ammonium sulfate BDH/Sigma/Merck kg	1	
35	Hydrogen peroxide H2O2 BDH/Sigma/Merck 500mL	1	
36	Sodium fluoride BDH/Sigma/Merck 1 kg	1	
37	Glycerol BDH/Sigma/Merck 2.5-l	1	
38	Phenolphthalein 98% BDH/Sigma/Merck 100-g	1	
39	Potassium permanganate BDH/Sigma/Merck Kg	1	
40	Boric acid BDH/Sigma/Merck kg	1	
41	Methanol BDH/Sigma/Merck 2.5ltr	1	
42	Sodium sulphate BDH/Sigma/Merck 100g	1	
43	Ethanol BDH/Sigma/Merck 2.5 ltr	1	
44	EDTA BDH/Sigma/Merck Kg	1	
45	Chromium chloride BDH/Sigma/Merck 500-g	1	
46	Calcium chloride BDH/Sigma/Merck 100g	1	
47	Copper sulphate BDH/Sigma/Merck 100g	1	
48	Acitic acid BDH/Sigma/Merck 1 ltr	1	
58	Cobalt chloride BDH/Sigma/Merck 50g	1	
59	Lead nitrate BDH/Sigma/Merck 100 g	1	
60	Cadmium chloride BDH/Sigma/Merck 25 g	1	
61	Nickle nitrate BDH/Sigma/Merck 25 g	1	
62	Crystal violet dye BDH/Sigma/Merck 50-g	1	
63	Buffer solution pH 2, BDH/Sigma/Merck 1-litre	1	
64	Buffer solution pH 3, BDH/Sigma/Merck 1-litre	1	
65	Buffer solution pH 5, BDH/Sigma/Merck 1-litre	1	
66	Buffer solution pH 6, BDH/Sigma/Merck 1-litre	1	
67	Buffer solution pH 8, BDH/Sigma/Merck 1-litre	1	
68	Buffer solution pH 9, BDH/Sigma/Merck 1-litre	1	
69	Lead Nitrate BDH/Sigma/Merck 200g	1	
70	Sodium Chloride BDH/Sigma/Merck 500g	1	
71	Potassium hydroxide BDH/Sigma/Merck 200g	1	
72	Copper nitrate BDH/Sigma/Merck 100g	1	
73	Manganese nitrate BDH/Sigma/Merck 500g	1	
74	Perchloric acid BDH/Sigma/Merck 2.5l	1	
75	Potassium dihydrogen phosphate BDH/Sigma/Merck 500g	1	
76	Potassium dichromate BDH/Sigma/Merck 500g	1	
77	Calcium chloride BDH/Sigma/Merck 500g	1	
78	Ferric chloride BDH/Sigma/Merck 500g	1	
79	dipotasium phosphate BDH/Sigma/Merck 500g	1	
80	Sodium hydrogen phosphate BDH/Sigma/Merck 500g	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
81	Ammonium chloride BDH/Sigma/Merck 500g	1	
82	Silver chloride BDH/Sigma/Merck 500g	1	
83	Ferrous chloride BDH/Sigma/Merck 500g	1	
84	Ferrous sulphate BDH/Sigma/Merck/500g	1	
85	Eosin methylene blue agar BDH/Sigma/Merck 1000g	1	
86	Nutrient agar BDH/Sigma/Merck 1000g	1	
Department of Microbiology			
1.	Ethidium Bronide BDH/Sigma/Merck 1-g	1	
2.	Nutrient Agar , HKM/Oxoid/Sigma-Aldrich , 500 g	2	
3.	Muller Hilton Agar HKM/Oxoid/Sigma-Aldrich , 500 g	2	
4.	McConkey agar HKM/Oxoid/Sigma-Aldrich , 500 g	2	
5.	Technical Agar HKM/Oxoid/Sigma-Aldrich , 500 g	1	
6.	Potato dextrose agar HKM/Oxoid/Sigma-Aldrich , 500 g	1	
7.	Selenite Cystine Broth HKM/Oxoid/Sigma-Aldrich , 500 g	1	
8.	Simmons Citrate agar HKM/Oxoid/Sigma-Aldrich , 500 g	1	
9.	Triple Sugar Iron Agar HKM/Oxoid/Sigma-Aldrich , 500 g	1	
10.	Trypticase Soy Broth HKM/Oxoid/Sigma-Aldrich , 500 g	1	
11.	Crystal violet Diachem BDH/Sigma/Merck 500 mL	1	
12.	Gram's Iodine Diachem BDH/Sigma/Merck 500 mL	1	
13.	Safranin sigma / VWR/ BDH/Merck 25 gm	1	
14.	Ethanol Absolute sigma / VWR/ BDH/Merck 2.5 L	2	
15.	Methanol sigma / VWR/ BDH/Merck 2.5 L	1	
16.	Acetic Acid Glacial, sigma / VWR/ BDH/Merck 2.5 L	2	
17.	Glycerol, purity 99% BDH/Sigma/Merck / VWR 2.5 L	1	
18.	Piperacillin (antibiotic disc) BDH/Sigma/Merck /Bio Analyse UK 50 discs/ cartridge	1	
19.	Cefoperazone, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
20.	Cefoxitin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
21.	Ceftazidime , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
22.	Cefotaxim,(antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
23.	Ceftriaxone ,(antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
24.	Cefepime ,(antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
25.	Aztreonam,(antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
26.	Imipenem , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
27.	Gentamicin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
28.	Amikacin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
29.	Ciprofloxacin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
30.	Ofloxacin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
31.	Norfloxacin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
32.	Streptomycin Sulfate Disc Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
33.	Carbenicillin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
34.	Nitrofuranton, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
35.	Ampicillin (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
36.	Tetracycline, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
37.	Metronidazole , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
38.	Penicillin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
39.	Amoxicillin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
40.	Erythromycin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
41.	Vancomycin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
42.	Ciprofloxacin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
43.	Bacitracin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
44.	Lincomycin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
45.	Clindamycin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
46.	Linezolid, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
47.	Doxycycline, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1	
48.	Phosphate buffer saline tablets Bio Analyse UK/ BDH/Sigma/Merck 100 tablet/pack	1	
Department of Horticulture			
1	Acetone BDH/Sigma/Merck 2.5 L	1	
2	Methanol BDH/Sigma/Merck 2.5 L	1	
3	Postassium ferricyanide BDH/Sigma/Merck 500 g	1	
4	HCL BDH/Sigma/Merck 2.5l	1	
5	H2SO4 BDH/Sigma/Merck 2.5l	1	
6	Potassium acetate BDH/Sigma/Merck 1 kg	1	
7	CaCl2 BDH/Sigma/Merck 1 kg	1	
8	CaCO3 BDH/Sigma/Merck 1 kg	1	
Department of Plant Breeding & Genetics			

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
1	Calcium Pentathonate BDH/Sigma/Merck 25-g	1	
2	KNO3 BDH/Sigma/Merck 1 Kg	1	
3	Tween 20 BDH/Sigma/Merck 500-ml	1	
4	Tween 80 BDH/Sigma/Merck 500-ml	1	
Department of Geology/Earth Sciences			
1	Phenolphthalein 98% BDH/Sigma/Merck 100-g	1	
2	Methyl Orange BDH/Sigma/Merck 25-g	1	
3	Nitric acid 65% BDH/Sigma/Merck 2.5l	1	
4	Acetic Acid BDH/Sigma/Merck 2.5-l	1	
5	Sodium hydrogen carbonate BDH/Sigma/Merck kg	1	
6	Sodium Carbonate BDH/Sigma/Merck kg	1	
7	Benzoic Acid BDH/Sigma/Merck kg	1	
8	Potassium Dichromate BDH/Sigma/Merck kg	1	
9	Ferrous Sulphate BDH/Sigma/Merck kg	1	
10	Ferric Sulphate BDH/Sigma/Merck kg	1	
11	Sodium Nitrate BDH/Sigma/Merck kg	1	
12	Sodium phosphate BDH/Sigma/Merck kg	1	
13	Ethyl Alcohol BDH/Sigma/Merck 2.5-l	1	
14	Acetone BDH/Sigma/Merck 2.5-l	1	
15	Methyl & Alcohol BDH/Sigma/Merck 2.5-l	1	
16	Isopropyl Alcohol BDH/Sigma/Merck 2.5-l	1	
17	Cobalt nitrate BDH/Sigma/Merck 500-g	1	
	Department of Food Sciences		
1	37 Components FAME'S MIX, Supelco/Sigma Aldrich, Cat No: CRM47885	1	
2	Methyl butyrate Cat: 19358-1ML Supelco/Sigma Aldrich	1	
3	METHYL CAPROATE, STANDARD FOR GC Supelco/Sigma Aldrich Cat: 21599-1ML-F	1	
4	Methyl caprylate Cat: 21719-5ML-F Supelco/Sigma Aldrich	1	
5	Methyl caprate Cat: 21479-1ML Supelco/Sigma Aldrich	1	
6	Methyl dodecanoate Cat: 61689-5ML Supelco/Sigma Aldrich	1	
7	Methyl myristate Cat: 70129-1ML Supelco/Sigma Aldrich	1	
8	Methyl palmitate Cat: 76159-1G Supelco/Sigma Aldrich	1	
9	Methyl tetracosanoate Cat: 87115-1G Supelco/Sigma Aldrich	1	
10	Methyl stearate Cat: 85769-1G Supelco/Sigma Aldrich	1	
11	Methyl oleate Cat: 75160-1ML Supelco/Sigma Aldrich	1	
12	Methyl linoleate Cat: 62280-5ML Supelco/Sigma Aldrich	1	
13	Methyl linolenate Cat: 62200-1ML Supelco/Sigma Aldrich	1	
14	Methyl erucate Cat: 45659-1ML-F Supelco/Sigma Aldrich	1	
Department of Food Sciences-2 B, Z and BC			
1	n-hexane , BDH/Sigma/Merck 2.5 L	1	
2	Diethyl ether , Labscan/ BDH/Sigma/Merck, 2.5 L	1	
3	Dichloromethane, BDH/Sigma/Merck, 2.5 L	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
4	Acetonitrile BDH/Sigma/Merck 4 L	1	
5	n-Butanol BDH/Sigma/Merck, 2.5 L	1	
6	Ethyl acetate BDH/Sigma/Merck, 2.5 L	1	
7	Methanol BDH/Sigma/Merck 2.5 L	1	
8	2-propanol BDH/Sigma/Merck 2.5 L	1	
9	HPLC grade water BDH/Sigma/Merck 2.5 L	1	
10	Acetone (179124), BDH/Sigma/Merck 2.5 L	1	
11	Chloroform (C2432: 250 ml), Sigma, 2.5 L	1	
12	Ethylendiaminetetraacetic acid (EDTA), BDH/Sigma/Merck 1 kg	1	
13	Carbon tetrachloride BDH/Sigma/Merck, 1 kg	1	
14	Ethanol BDH/Sigma/Merck 2.5 L	1	
15	H2SO4 99% BDH/Sigma/Merck 2.5 L	1	
16	Dimethylsulfoxide (DMSO 5X5 mL: D2650), BDH/Sigma/Merck	1	
17	p-Anisaldehyde, BDH/Sigma/Merck, 100 gm	1	
18	Eosin Methylene Blue (For blood and tissues) BDH/Sigma/Merck 25 g	1	
19	Formalin solution BDH/Sigma/Merck, 4L	1	
20	Canada balsam BDH/Sigma/Merck 25 ml	1	
21	Xylene I BDH/Sigma/Merck 4 L	1	
22	Xylene II BDH/Sigma/Merck 4 L	1	
23	Absolute Ethyl alcohol BDH/Sigma/Merck 4 L	1	
24	Hematoxylin monohydrate BDH/Sigma/Merck 2.5 L	1	
25	dilute ammonia solution BDH/Sigma/Merck 2.5 L	1	
26	Chloroform solution BDH/Sigma/Merck 2.5 L	1	
27	Perchloric acid, BDH/Sigma/Merck 2.5 L	1	
28	Copper Sulfate Solution BDH/Sigma/Merck 1 L	1	
29	Copper Sulfate BDH/Sigma/Merck kg	1	
30	Ninhydrin , BDH/Sigma/Merck 25-g	1	
31	Nitric acid BDH/Sigma/Merck 2.5l	1	
32	Hydrochloric acid BDH/Sigma/Merck 2.5l	1	
33	Sodium hydroxide Pellets BDH/Sigma/Merck Kg	1	
34	Ammonia solution BDH/Sigma/Merck 2.5l	1	
35	Acetic Acid, BDH/Sigma/Merck 2.5 Lit	1	
36	Potassium iodide BDH/Sigma/Merck 500-g	1	
37	Sodium nitrate BDH/Sigma/Merck kg	1	
38	Sodium iodide BDH/Sigma/Merck 100-g	1	
39	Sodium carbonate BDH/Sigma/Merck 500g	1	
40	Methyl orange BDH/Sigma/Merck 25-g	1	
41	Methyl blue BDH/Sigma/Merck 25-g	1	
42	Buffer solution pH4,7,10 BDH/Sigma/Merck 1-litre	1	
43	Nutrient Broth Biolab/ BDH/Sigma/Merck 500-g	1	
44	Phenolphthalein 98% BDH/Sigma/Merck 100-g	1	
45	Acetic acid Glacial 99.5% BDH/Sigma/Merck 2.5-l	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
46	Sodium Acetate, BDH/Sigma/Merck kg	1	
47	Amunium Chloride, BDH/Sigma/Merck 500g	1	
48	Sodium hydroxide BDH/Sigma/Merck kg	1	
49	Sodium hydrogen carbonate BDH/Sigma/Merck kg	1	
50	Citric acid, BDH/Sigma/Merck kg	1	
51	Agar BDH/Sigma/Merck 500g	1	
52	Potassium Bromide, BDH/Sigma/Merck kg	1	
53	Glycerol BDH/Sigma/Merck 2.5-l	1	
Department of Soil and Climate Science			
1	Acetic Acid Glacial EP 1kg Cat # 1005-4400 1-KG	1	
2	Acetone BDH/Sigma/Merck 2.5 lit	1	
3	Agar BDH/Sigma/Merck 500g	1	
4	Ammonium bicarbonate BDH/Sigma/Merck Kg	1	
5	Ammonium Heptamolybdate BDH/Sigma/Merck 500-g	1	
6	Ammonium Phosphate Monobasic EP BDH/Sigma/Merck 1-KG	1	
7	Ammonium Sulfate EP BDH/Sigma/Merck 1-KG	1	
8	Ammonium chloride BDH/Sigma/Merck 500g	1	
9	Antimony potassium tartrate 0.5H2O EP 99.5~100.5% BDH/Sigma/Merck 1-KG	1	
10	Carbon, Activated (Powder/USP) BDH/Sigma/Merck 500-g	1	
11	Cadmium chloride BDH/Sigma/Merck 500-g	1	
12	Cadmium nitrate tetrahydrate 98% EP BDH/Sigma/Merck 500-g	1	
13	Boric acid BDH/Sigma/Merck kg	1	
14	Buffer solution pH4,7,10 BDH/Sigma/Merck 1-litre	1	
15	Calcium carbonate BDH/Sigma/Merck Kg	2	
16	Calcium sulphate BDH/Sigma/Merck kg	1	
17	Chromium chloride BDH/Sigma/Merck 500-g	1	
18	Citric Acid Monohydrate EP BDH/Sigma/Merck 1-KG	1	
19	Copper(II) Sulfate Anhydrous EP BDH/Sigma/Merck 500-g	1	
20	Copper Nitrate BDH/Sigma/Merck 1-kg	1	
21	EDTA BDH/Sigma/Merck Kg	1	
22	Ethyl Alcohol BDH/Sigma/Merck 2.5-l	1	
23	Hydrochloric acid BDH/Sigma/Merck 2.5l	1	
24	Hydrogen Peroxide 30% EP BDH/Sigma/Merck 500-g	1	
25	L(+)-Ascorbic Acid 99% EP BDH/Sigma/Merck 25-g	1	
26	Lead(II) Nitrate CP BDH/Sigma/Merck 1-KG	1	
27	Methanol BDH/Sigma/Merck 2.5l	1	
28	Methyl blue BDH/Sigma/Merck 25-g	1	
29	Methyl orange BDH/Sigma/Merck 25-g	1	
30	Nitric acid 60% GR BDH/Sigma/Merck 500-g	2	
31	Nickel sulfate BDH/Sigma/Merck 250 g	1	
32	Nitroprusside Na2[Fe(CN)5NO].2H2O BDH/Sigma/Merck 250-G	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
33	Nutrient Agar Biolab/ BDH/Sigma/Merck 500-g	1	
34	Nutrient Broth Biolab/ BDH/Sigma/Merck 500-g	1	
35	Perchloric Acid 60% GR BDH/Sigma/Merck 2.5-L	1	
36	pH meter puffer solutions of Ph 4, 7 & 9 BDH/Sigma/Merck 500ml	1	
37	Phenol EP BDH/Sigma/Merck 1-KG	2	
38	Postassium ferricyanide BDH/Sigma/Merck 100 g	1	
39	Potassium chloride BDH/Sigma/Merck kg	1	
40	Potassium dichromate BDH/Sigma/Merck 500g	1	
41	Potassium dihydrogen phosphate BDH/Sigma/Merck kg	1	
42	Potassium Hydroxide, Flakes EP BDH/Sigma/Merck 1-KG	1	
43	Potassium Nitrate 99% EP BDH/Sigma/Merck 1-KG	1	
44	Potassium Phosphate Monobasic EP BDH/Sigma/Merck 1-KG	2	
45	Salicylic Acid CP BDH/Sigma/Merck 500-g	2	
46	Sodium Acetate Anhydrous EP BDH/Sigma/Merck 1-KG	1	
47	Sodium bicarbonate BDH/Sigma/Merck Kg	1	
48	Sodium Borate Dodecahydrate CP BDH/Sigma/Merck 1-KG	1	
49	Sodium chloride BDH/Sigma/Merck 1kg	1	
50	Sodium hydrogen carbonate BDH/Sigma/Merck Kg	1	
51	Sodium hydroxide pellets EP BDH/Sigma/Merck Kg	2	
52	Sodium molybdate BDH/Sigma/Merck 500-g	1	
53	Sodium nitrate BDH/Sigma/Merck 1-kg	1	
54	Sodium Phosphate Dibasic Anhydrous 99% BDH/Sigma/Merck 1-KG	1	
55	Sodium Sulfate Anhydrous EP 1kg BDH/Sigma/Merck 1-KG	1	
56	Sulphuric acid BDH/Sigma/Merck 2.5l	2	
57	Tri-Sodium Citrate di-hydrate BDH/Sigma/Merck 1 KG	2	
58	Tri-Sodium Phosphate BDH/Sigma/Merck 1KG	1	
59	Trypton BDH/Sigma/Merck 500 g	1	
60	Whatman No. 42 filter paper pkt	2	
61	Yeast extract BDH/Sigma/Merck 500 g	1	
62	Zinc Nitrate 6H2O EP BDH/Sigma/Merck 500-g	1	
63	Zinc sulphate BDH/Sigma/Merck Kg	1	
Department of Medical Lab Technology			
1	Acetic acid Glacial 99.5% BDH/Sigma/Merck 2.5-Liter	1	
2	Acetone, BDH/Sigma/Merck 2.5 Lit	1	
3	AFB/ZN Staining kit (carbol fuchsin, acid alcohol 3%, Methylene Blue)- BDH/Sigma/Merck 500 ml	1	
4	Agarose powder/Sigma/Merck/Oxoid-1000 g	1	
5	Serum Albumin Kit BDH/Sigma/Merck (12 x25 ml)/kit	1	
6	Serum Amylase kit BDH/Sigma/Merck (12 x 5 ml)/kit	1	
7	Anti-streptolysin (ASOT) Kit BDH/Sigma/Merck (2 x 25 ml)/kit	1	
8	Blood Agar BDH/Sigma/Merck/Oxoid/ - 500g	1	
9	Blood Grouping anti-sera- A, B and D/ Altas medical/Antec Diagnostic- 10 ml	4	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
10	Boric acid BDH/Sigma/Merck - 100 g	1	
11	Bromophenol blue BDH/Sigma/Merck/Thermo scientific/ 6X DNA Loading Dye- (5 x 1 ml)/kit	1	
12	Brucella Abortus and Mellitensis kit BDH/Sigma/Merck (2 x 5 ml)/kit	1	
13	Cadmium Chloride, BDH/Sigma/Merck 500g	1	
14	Serum Calcium estimation Kit BDH/Sigma/Merck (6 x 25 ml)/kit	1	
15	CBC Control Sample/Sysmex/BDH/Sigma/Merck 1 ml	1	
16	Chemistry Control Solution /microlab 300/Lab kit/Merck- 5 ml (lyophilized)	1	
17	Chloroform (2.5 L) BDH/Sigma/Merck 2.5 L	**1**	
18	CLED Agar / BioRaD/Sigma/Merck/BDH/Biolab/- 500 g	1	
19	Transparent Glass slides for microscope-plain-25 mm × 75 mm- (72 slides per pack) pkt	20 pkts	
20	Cover slips- 18 x 18mm- 200 per pack	20 pkts	
21	Qualitative CRP estimation Kit- (2 x 25 ml)/kit	1	
22	Potassium Dichromate BDH/Sigma/Merck kg	1	
23	Drabkin solution for hemoglobin estimation/sigma/merck/ Medline/Dia-chem - 1 liter	1	
24	Eosin Stain Solution 5%/sigma/ merck/ Bio-optica/ Medline/Dia-chem - 1 liter	1	
25	ESR counting solution /sigma/merck/ Medline/Dia-chem - 1 liter	1	
26	Ethanol 95%/ PanReac/BDH/Sigma/Merck - 2.5 Liter	5	
27	Ethidium Bronide BDH/Sigma/Merck 1-g	1	
28	Field Stain A & B for hematological studies / Sigma/ Merck Medline/Dia-chem - 1 liter	1	
29	Formalin (L) BDH/Sigma/Merck/ Bio-optica/PanReac- 2.5-Liter	1	
30	Geimsa Stain /Sigma/ Merck/Medline/Dia-chem/ Medline/Dia-chem- 1-Liter	1	
31	Blood Glucose kit BDH/Sigma/Merck - 1 liter	1	
32	Glycerol BDH/Sigma/Merck 2.5-l	1	
33	Gram Staining complete Kit / Sigma / Merck/Medline/Dia-chem – 1 liter	1	
34	H2SO4 BDH/Sigma/Merck- 2.5 Liter	1	
35	HCL BDH/Sigma/Merck - 2.5 Liter	1	
36	Hematology Analyzer Cleaner Solution-(Symex-X-100) 250 ml	4	
37	Hematology Diluent (Sysmex - x-100) – 20 Liter	1	
38	Hematology Lyse (Sysmex x-100)- 500 ml	1	
39	Hematoxylin stain/ sigma/ Merck/ Bio-optica/ Medline/Dia-chem - 1 Liter	1	
40	Leishman Stain / Sigma/ Merck – Liter	1	
41	Lugol's Iodine- BDH/Sigma/Merck 500 ml	1	
42	MacConkey Agar / BioRad/ Sigma/ Merck/ Oxoid/- 100	1	
43	Methanol, BDH/Sigma/Merck 2.5 Lit	1	
44	Muller Hinton Agar/ BioRad/ Sigma/ Biolab/ Oxoid -500 g	1	
45	Nitric acid (2.5 L) BDH/Sigma/Merck 2.5-l	1	
46	Nutrient Agar/ BioRaD/Sigma/ Biolab/ Oxoid 500-g	1	
47	PAS staining kit (Periodic acid solution and Schiffs reagent)/ Medline/Dia-chem - 500 ml	1	
48	Peptone Water / Merck/ BioRad/ BioLab/ Oxoid - 500g	1	
49	Phenol, BDH/Sigma/Merck- 1 kg	1	
50	Potassium cyanide (kg) BDH/Sigma/Merck – 100 g	1	

Sr#	Description/ Specifications	Quantity	Brand/Make/Model
51	PT & APTT Kit for coagulation studies BDH/Sigma/Merck -Kit	1	
52	RA – Factor BDH/Sigma/Merck (2x 25 ml)/kit	1	
53	RBC Couting Solution BDH/Sigma/Merck / Medline/Dia-chem -1 Liter	1	
54	Reagent for LFT (ALT, AST, Bilirubin) / Merck/Lab kit - (5 x 25 ml)/ kit	1	
55	Reagent for lipid profile (TG, Cholesterol) BDH/Sigma/Merck lab kit 1 Liter each kit.	1	
56	Uric Acid estimation kit / Merck/ Lab Kit- (5 x 25ml)/kit	1	
57	Serum Urea estimation Kit -Merck/ Lab Kit- (5 x 25ml)/kit	1	
58	Serum Creatinine estimation kit-Merck/ Lab Kit - (5 x 25ml)	1	
59	Sodium Citrate Tube/ Hygeia Tech- 100/pack – pkt	1	
60	Sodium chloride BDH/Sigma/Merck 1kg	1	
61	Sodium hydroxide (kg) BDH/Sigma/Merck kg	**1**	
62	Sodium metabisulphite / Sigma/ Merck/ - 1 gram	1	
63	sudan black B staining kit / Merck/ sigma/ Medline/Dia-chem - 500 ml	1	
64	Trichome Stain /Merck/ Sigma/ Medline/Dia-chem - 100 ml	1	
65	TSI media / merck/ Oxoid/ 500 g	1	
66	Tween 20 BDH/Sigma/Merck 500-ml	1	
67	Tween 80 BDH/Sigma/Merck 500-ml	1	
68	WBC Couting Solution/ Merck/ Medline/Dia-chem - 1 Liter	1	
69	XLD Agar- Merck/Oxoid/- 500 g	1	
70	Xylene-4 / Bio-Optica/ PanReac/- 1 Liter	1	

Declaration	I hereby declare that all information, documents, price list, forms etc attached with Financial Proposal are true and ***if found fake or forged***, the firm shall be liable to ***disqualification and forfeiture of CDR by the Procuring Entity***.
Name of Authorized Person:	
Signature of Authorized Person	
Official Stamp/Seal	
Date:	

Technical Proposal Form Glassware: 3.3.2.4.

S.No	Description	Qty	Brand Name, Make and Model
Glassware & Chemicals for Agronomy			
1	Beakers 25ml Pyrex Each	4	
2	Beakers 50ml Pyrex Each	48	
3	Beakers 100ml Pyrex Each	48	
4	China dish 60cc each Small Each	48	
5	Conical Flask 100ml Pyrex Each	48	
6	Graduated Cylinder 50ml China Each	48	
7	Graduated Cylinder 100ml China Each	48	

S.No	Description	Qty	Brand Name, Make and Model
8	Pestle and Mortar 5 inch set	48	
9	Reagent bottle 250ml Narrow Mouth, China Each	48	
10	Test Tube Stand Large Each	48	
11	Test Tubes (10 ml) China Each	48	
12	Volumetric Flask 250ml China Each	48	
13	Wash Bottles 250ml China Each	48	
Agriculture/Che Deptt			
S.No	**Description**	**Qty**	
1	3-neck round bottom flask 100ml pyrex	8	
2	3-neck round bottom flask 250ml pyrex	8	
3	2- neck angled round bottom 250ml pyrex	8	
4	1- neck round bottom 250ml pyrex	8	
5	Volumetric Flask 250ml pyrex	8	
6	Volumetric Flask 1000ml pyrex	8	
7	Beaker 10ml pyrex	20	
8	Beaker 25ml pyrex	60	
9	Beaker 50ml pyrex	40	
10	Beaker 100 ml pyrex	40	
11	Beaker 250ml pyrex	20	
12	Beaker 500ml pyrex	20	
13	Erlenmeyer Flasks 100ml pyrex	20	
14	Erlenmeyer Flasks 250ml pyrex	20	
15	Erlenmeyer Flasks 500ml pyrex	16	
16	Erlenmeyer Flasks (1L) pyrex	16	
17	Graduated Cylinder 50ml pyrex	16	
18	Graduated Cylinder 100ml pyrex	12	
19	Pipette fixed volume (glass) 0.5 ml Germany	12	
20	Pipette fixed volume (glass) 5 ml Germany	12	
21	Pipette fixed volume (glass) 10 ml Germany	12	
22	Burette 50ml pyrex	12	
23	Iron stands Local	12	
24	Spirit lamp Local	20	
25	Steel Spatula (15cm) Local	20	
26	Funnel 60mm china	4	
27	Glass funnel 90mm china	4	
28	Filtering flask 100ml pyrex	8	
29	Filtering flask 250ml pyrex	8	
30	Filtering flask 500ml pyrex	8	
31	Filtering flask 1000ml pyrex	8	
32	Sintered funnel with filtering assembly 1-litre pyrex	4	
33	Separating Funnel with PTFE stopcock 125ml pyrex	8	
34	Separating Funnel with PTFE stopcock 250ml pyrex	4	

S.No	Description	Qty	Brand Name, Make and Model
35	Separating Funnel with PTFE stopcock 500ml pyrex	4	
36	Buchner funnel 80mmchina	8	
37	Magnetic bar/stirrer 12mm china	12	
38	Magnetic bar/stirrer 25mm china	12	
39	Adopter/connector 14/23,19/26 Quickfit/ pyrex	8	
40	Adopter/connector 14/23,24/29 Quickfit/ pyrex	8	
41	Condenser (medium length) 300mm Quickfit/ pyrex	4	
42	Condenser (medium length) 500mm Quickfit/ pyrex	4	
43	Stoppers (solid) 29/32china	40	
44	Stoppers (solid) 34/35china	40	
45	Safety Goggles Good Quality China	12	
46	Glass sample bottle with blue cap 100 ml pyrex	48	
47	Glass sample bottle with blue cap 250 ml pyrex	400	
48	Test tube holdersLocal	4	
49	Wash Bottle plastic 250ml Good Quality China	20	
50	Pipette filler/sucker Germany	8	
51	Falcon tubes 15-ml china Pack of 100	4	
52	Plastic gloves pack of 100 -pkts	8	
53	Petri dishes (4 inches) Pair Germany	20	
54	Reagent Bottle 250ml N/M china	20	
55	Tips for micropipette yellow 200-ul china -pkt	4	
56	Tripod stand Local standard size	12	
Glassware for Entomology			
S.No	**Description**	**Qty**	
1	Filter Paper Sheet (Pack of 100) Brazil – pkts	8	
2	Glass Slides China -pkts	20	
3	Cover slip China -pkts	8	
4	Concave Mirror, 1.5" Diameter, 200mm Focal Length - Round - Glass - 3mm Thick Approx.	8	
5	Plastic Petri Dishes (Large 100 X 20 mm) China each	1200	
6	Beaker (500 ml) Pyrex each	24	
7	Beaker (100 ml) Pyrex each	24	
8	Appendorf tubes 1.5 ml China pack	8	
9	Falcons tubes 15 ml Pack of 100 China	4	
10	Petri dished (6 inch dia) Germany/Pyrex pair	176	
Soil Sciences			
S.No	**Description**	**Qty**	
1	Culture bottle 1000 ml Pyrex	12	
2	Culture bottle 500 ml Pyrex	12	
3	Culture bottle 250 ml Pyrex	12	
4	Culture bottle 100 ml Pyrex	20	
5	Conical flask 100 ml Pyrex	96	

S.No	Description	Qty	Brand Name, Make and Model
6	Petri plates (6 inch dia) Each	1000	
7	Test tubes (15 ml) Each	400	
8	Volumetric flask 250 ml Pyrex	24	
9	Volumetric flask 500 ml Pyrex	20	
10	Beaker 100ml	24	
11	Beaker 500ml	24	
12	Micropipette (glass) 10ul, 20ul, 50ul, 100ul, 500ul, 1000µL	4 each	
13	Wash bottle 250 ml	20	
14	Falcon tube 50ml; pack of 100	4	
Agriculture PBG			
S.No	**Description**	**Qty**	
1	Reagents Bottles (125 ml) China	24	
2	Reagents Bottles (250 ml) China	24	
3	Reagents Bottles (500 ml) China	24	
4	Reagents Bottles (1000 ml) China	24	
5	Volumetric flask (100 ml) Pyrex	24	
6	Volumetric flask (250 ml) Pyrex	48	
7	Volumetric flask (500 ml) Pyrex	48	
8	Volumetric flask (1000 ml) Pyrex	40	
Geology /Earth Sciences			
1	Weighing Balance 1g - 10 kg Digital china	12	
2	Thermometer 360C zeal each	20	
3	Iron stands Local standard	20	
4	Glass funnel 90mmchina	20	
5	Volumetric Flask 1000ml pyrex	20	
6	Volumetric Flask 250ml pyrex	20	
7	Burette 50ml pyrex	16	
8	Beaker 50ml pyrex	20	
9	Beaker 100ml pyrex	20	
10	Beaker 250ml pyrex	20	
11	Graduated Cylinder 100ml pyrex	20	
12	Graduated Cylinder 50ml pyrex	20	
13	Wash bottle 250 ml	16	
14	Test tubes 15ml	20	
Agriculture/Horticulture			
S.No	**Description**	**Qty**	
1	Test tube stands stanndard	20	
2	Volumertic flask 1000ml	48	
3	Volumertic flask 500ml	48	
4	Reagent bottles 1000ml	24	
5	Beakers 500ml	24	
6	Appendrof tube pack of 500- kts	20	

S.No	Description	Qty	Brand Name, Make and Model
7	Peritplate each (6 inch dia)	200	
8	Falcon tubes 15 ml pack of 100	8	
Microbiology			
S.No	**Description**	**Qty**	
1	Glass Slides pkts	20	
2	Cover slip pkts	20	
2	Test Tubs each 15 ml	96	
3	Eppenclorf Tubes pack of 500 -pkts	4	
3	Syringe Filter Sterile 0.2µm Bio Analyse UK 50 filter/pack- pkts	4	
4	Aluminium Foil Diamond- pkts	12	
4	Nitrile Surgical gloves -pkts	8	
5	Latex Gloves-pkts	8	
5	Wire loops handles + wires	16	
6	Conical Flasks 2000 ml Pyrex	16	
6	Conical Flasks 1000 ml Pyrex	16	
7	Conical Flasks 500 Pyrex	16	
7	Conical Flasks 250 ml Pyrex	16	
8	Conical Flasks 100 ml Pyrex	16	
8	Measuring Cylinder 1000 ml Pyrex	8	
9	Measuring Cylinder 250 ml Pyrex	8	
9	Measuring Cylinder 500 ml Pyrex	8	
10	Measuring Cylinder 100 ml Pyrex	8	
10	Reagent bottle Screw Ca 1000ml Germany/US/China	20	
11	Reagent bottle Screw Cap 500ml Germany/US/China	20	
11	Reagent bottle Screw Cap 250 ml Germany/US/China	20	
12	Reagent bottle Screw Cap 100ml Germany/US/China	20	
12	Beakers 1000 ml Pyrex	12	
13	Beakers 500 ml Pyrex	12	
13	Beakers 250 ml Pyrex	12	
14	Beaker 100 ml Pyrex	12	
14	Glass Peteri Dishes Pyrex (6 insh dia)	120	
15	Glass Test Tubes 12 x 75 Pyrex	8	
15	Falcon Tube 15ml Extra Gene USA	4	
16	Falcon Tube 50ml Extra Gene USA	4	
16	Funnels 75mm China	4	
17	Glass Pipettes 10ul, 20ul, 50ul, 100ul, 500ul, 1000ul	10 each	
18	Spirit Lamp China standard	24	
18	Test Tubes rackes Extra Gene USA	20	
19	Eppendrop rack (1.5 mL) Extra Gene USA	12	
19	Micropipette Blue Tips 1000µL (1000Tips/pkt) China	8	
20	Micropipette YellowTips 100µL (1000Tips/pkt) China	8	
20	Whatman No. 1 Filter Paper pkts	4	

S.No	Description	Qty	Brand Name, Make and Model

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Name of Authorized Person:	
Signature of Authorized Person	
Official Stamp/Seal	
Date:	

3.3.3. Financial Proposal Forms

The following forms shall be attached with Financial Proposal

3.3.3.1. CDR @ 2% of the Total Bid Value

Sr. No	Total Bid Value (PKR)	CDR Amount (PKR)	CDR No. and Bank Details

Note: For purchase of lab equipment's individual price shall be taken for comparative analysis whereas for chemicals and glassware overall lot price shall be considered for comparative analysis

3.3.3.2 Financial Proposal Form Price Schedule for Lab Equipments (Inclusive of all applicable taxes/duties)

S.No	Name of Equipment (s)	Specifications	Qty	Unit Price (PKR)	Total Price (PKR)
Department of Microbiology					
1	Optical Microscope	360 degree rotating monocular head with optical glass lenses, offering five levels of magnification up to 1000X Sturdy all-metal framework with single glass lens condenser and 6-hole disc diaphragm LED illumination powered via outlet and/or batteries 5MP USB 2.0 digital camera for photos and videos on Windows, with 3rd-party software support User-friendly software (Windows only) offers processing and advanced features including Stitching, EDF, Video Recording and Measurement functions	1		
2	Distillation plant	Glass, more than 10 L per hour with the provision of easy cleaning, Quality of distillate – pyrogen free, PH- 6.9-7.0.High purity, low conductivity. Distilled water should be heavy metal, salts, pyrogon and iron free. Specific Conductivity at 25 deg C less than 0.4 x 10-6S/cm Glass material (or chemical inert material)	1		
3	Hot Air Oven	176 L, temp range 50-250 C, temp control, microprocessor control, Temperature Range 5°C above ambient to 250°C maximum Safety device Over temperature protection Electric leakage breaker Temperature safety as per DIN 12880 Class 3.1 Exterior Chamber MS powder coated Interior Chamber 304 stainless steel Insulation Mineral Wool	1		
4	Hot plates with magnetic stirrer	Speed control range 250-1250 RPM Weight 2.9 kg Power consumption (Stirring) 8.5 W Power consumption (Heating) 550 W Nominal operating voltage 230 V; 50/60 Hz or 120 V; 50/60 Hz	2		
5	Filtration assembly (Vacuum)	Borosilicate glass Made up of: - 1 Erlenmeyer flask with cone 40/35, 1000 ml (cod. PBH030) - 1 Body with fritted glass disk for 47 mm membranes (cod. PJD003) - 1 Filtration funnel, 300 ml (cod. PJD002) - 1 Anodized aluminium clamp (cod. PJD006) - Vacuum pump diagphram type-oil free	1		
6	Centrifuge machine for large tubes	Centrifuge machine Speed regulation range for centrifuge tubes 100-3000 rpm (1610 × g) Chamber diameter 335 mm Overall dimensions (W×D×H) 420 x 495 x 235 mm Weight 11.8 kg	1		

S.No	Name of Equipment (s)	Specifications	Qty	Unit Price (PKR)	Total Price (PKR)
		Nominal operating voltage 230 V, 50/60 Hz or 120 V, 50/60 Hz 1.5ml, 50ml tubes rotor			
7	Ultrasonic bath	Power Rating: 1000 watts; Frequency: 20 kHz; Dimensions (W x L x H): 8 x 15.25 x 8.5 in. (203 x 387 x 216 mm); Voltage: 110V, 50/60 Hz	1		
8	Micro pipette set	• Microlit Lab Pipettor (0.5-10ul, 10-100ul, 100-1000ul) • Universal Tipcone – compatible with most internationally accepted tips • Fully autoclavable at 20° C, 15psi. for 10 – 15 mins • Calibration certificate provided – Conforms to ISO 8655 standards • Certificates – ISO 9001, ISO 13485, ISO 17025, CE	2 each		
Annexure-2.2A Teaching Lab: (Department of Food Sciences and Technology)					
1	pH Meter	Automatic, up to five- point calibration, eight standard buffers available (1.68, 3.00, 4.01, 6.86, 7.01, 9.18, 10.01,12.45) and five custom buffers. ±0.1 pH, ±0.01 pH, ±0.002 pH ±1 LSD	2		
2	Sonication bath	Power Rating: 700 watts; Frequency: 20 kHz; Dimensions (W x L x H): 8 x 15.25 x 8.5 in. (203 x 387 x 216 mm); Voltage: 110V, 50/60 Hz	1		
Department of Agronomy					
1	Muffle Furnace	Muffle furnace electric Temp Max. 1100°C. For temperatures adjustable up to 1100°C. Microprocessor control with tft touch screen. Precision ±2 °c of the set value. Resolution: 1 digit. Capacity: 3.0 Litres Chamber dimensions: 115 x 125 x 200mm, Daily - weekly On / Off programming. Power: 220VAC, 50Hz. Microprocessor Controlled, 20- litre Water Bath, High-Grade Stainless-steel interior/ Outer Powder coated steel Digital LED Display	1		
2	Sample Drying Oven	Control: PID control, +/-3%RH at the aspirated sensor. Components: Vaisala dry humidity sensor, stainless steel tubing, stainless steel on/off solenoid, inline water filter, controls and data logging by the controller. Humidity Sensor Specifications: Range 0 to 100%, accuracy at 20°C: +\- 3% (0 to 90% RH). Specifications: Microprocessor controlled, digital display. Capacity: 100 liters. Timer: 0-99 min. Temperature range: ambient +5C to 260C	1		
3	PH/EC Meter	Range: 0.00~14.00pH 0~19.99 mS/cm. Accuracy: ±0.1pH/ ±2%F·S. Temperature Compensation: 0~50°C. Power Supply: 6V DC (include), with Power adaptor. Operating Environment: 0~50°C. Size: 88 x 55 x 22 mm. weight: 135g	3		
Department of Plant Breeding & Genetics					
1	Water bath	Temperature control range: room temperature -100 degrees (adjustable) Temperature control accuracy: 0.1 degrees. Dimensions:49X39X19mm. Heating power: 800w	1		
2	Digital balance	Weighing range 0 -100 g Readability 0,01 g Linearity ± 0,02 g Repeatability 0,01 g Dimensions Scale: approx. 120 x 80 x 25 mm Weighing pan: approx. 62 x 62 mm Weight 170 g Power 2 AAA batteries (for 70 hours of continuous operation)	1		
3	Incubator	Operating voltage: 12V DC Internal size: D23.9xL27xH37cm (9.4x10.6x14.6 inch). External size: D41.7xL34xH47.7cm (16.4x13.4 x18.8inch). Temperature range. 36~140 Degrees Fahrenheit. Cooling power: 50W	1		
4	Fume Hood	Max Opening: 520mm Blower: Built-in Centrifugal Blowers.	1		

S.No	Name of Equipment (s)	Specifications	Qty	Unit Price (PKR)	Total Price (PKR)
		Work Surface Height: 750mm. Air Velocity: 0.3~0.8m/S. Gross Weight: 230kg/253kg /280kg/310kg. Consumption: 400W/400W/500W/500W. Fluorescent Lamp: 18W*1/18W*1/36W*1/36W*1. Noise: ≤60dB. UV Lamp: Emission of 253.7 Nanometers for Most Efficient De Power Supply: 110/220V±10%, 60/50Hz			
Department of Soil Science					
1	Deionizer	Water purification system with UV-photo-oxidation and ultrafiltration membrane, up to 2L per mint, equipped with conductivity meter, wall mount Flow rate50 liter/hour, pure water quality 0.1 – 20 us/cm depends on water quality, operated on 220 Volts	1		
2	UV Visible Spectrophotometer	Optical system Double beam Wavelength range 190 to 1,100nm, Spectral bandpass 1.5nm, Stray light 0.05% or less, Photometric range –3 to 3Abs, 0 to 300%T, Photometric accuracy Wavelength scan speed 10, 100, 200, 400, 800, 1,200, 2,400, 3,600nm/min Baseline stability 0.0003Abs/h (at 500nm, 2 hours after power-on), Light source WI and D2 lamps, Light source changeover Auto (user selectable from 325 to 370nm), Detector Silicon photodiode, Display U-2900: color LCD with backlight (26.4cm)	1		
Department of Horticulture					
1	Digital balance	Weighing range 0 -100 g Readability 0,01 g Linearity ± 0,02 g Repeatability 0,01 g Dimensions Scale: approx. 120 x 80 x 25 mm Weighing pan: approx. 62 x 62 mm Weight 170 g Power 2 AAA batteries (for 70 hours of continuous operation)	1		
Department of Entomology					
1	Chemical Storage Cupboard	Construction: - Cabinet made of sheet-steel plastic laminated, light grey RAL 7035 Wing doors: Lockable with safety cylinder Shelves: Height adjustable (25 mm increments) Ventilation: Extraction air inlet on top / Vertical aeration via air grills at the bottom of the doors Technical data: - Cabinet dimensions W x D x H (mm): approx. 1200 x 500 x 1970 - Cabinet weight: approx. 70 kg - Load capacity per shelf (evenly distributed load): approx. 50 kg - Volume of the bottom collecting sump: 36 l Accessories: PE tray - protects shelves from corrosive materials - Chemical box - separate storage of less mildly corrosive - Storage box - lockable, separate storage of hazardous materials	2		
2	Micropipette Set	0.5-10 µl, 10- 20 µl, 10- 100 µl, Upto 1 ml; Shall comply with ISO-8655 calibration specification	1 each		
Department of Environmental Sciences					
1	Spectrophotometer	Wavelength range: 330-860nm 330-1000nm (silicon photocell), wavelength accuracy: ≤ ± 2nm, wavelength, reproducibility: <0.5nm, 4, bandwidth: 4nm. Stray light: ≤	1		

S.No	Name of Equipment (s)	Specifications	Qty	Unit Price (PKR)	Total Price (PKR)
		0.6 (T) (at 360nm Office). light transmission measuring range :0-100 (T). Absorbance measurement range: 0-1 .999 (A). Reading accuracy: linear transmission accuracy: ≤ 0.5% (T). Absorbance accuracy; ≤ ± 0.004A (at 0.5A Office). Repeatability: <0.5% (T). Noise: <0.5% (T) (at 5nm Office)			
Department of Geology					
1	Streak Plates	Standard Plates used for grinding of minerals. Streak Plates White Porcelain (Pack of 10) Unglazed white porcelain tiles that are ideal for mineral streak testing.	10		
2	PROCTOR HAMMER (MANUAL)	The Manual Standard Soil Compaction Hammer has 5.5lb (2.5kg) mass enclosed in a guide sleeve with vent holes to insure unrestricted free-fall. Drop is 12in (305mm). The Manual Modified Soil Compaction Hammer has 10lb (4.5kg) mass enclosed in a guide sleeve with vent holes to insure unrestricted free-fall. Drop is 18in (457mm).	1		
3	SEIVE ANALYSIS (including all seive sizes)	203 mm dia ASTM sieve op 2" (50 mm), 203 mm dia ASTM sieve op 3" (75 mm), 203 mm dia ASTM sieve op 1 1/2" (37.5 mm), 203 mm dia ASTM sieve op 1" (25.0 mm), 203 mm dia ASTM sieve op 3/4" (19.0 mm), 203 mm dia ASTM sieve op 1/2" (12.5 mm), 203 mm dia ASTM sieve op 3/8" (9.5 mm), 203 mm dia ASTM sieve No 4 (4.75 mm), 203 mm dia ASTM sieve No 8 (2.36 mm), 203 mm dia ASTM sieve No 10 (2.00 mm), 203 mm dia	1		
4	Speedy Moisture Tester	6 g cap. complete with electronic balance, accessories and carrying case. Accuracy: within 0.5% on most materials; Test speed: 45 sec to 3 min; Gauge: calibrated from 0-20% moisture based on wet weight.	1		
5	WEIGHT SET	Set of slotted steel weights (total = 37.5 kg); 0.250 kg (2 units) 0.500kg (2 units) 1kg (2 units) 2kg (3 units) 4kg (3 units) 8kg (2 units)	1		
6	Casagrande Apparatus (Liquid Limit)	Liquid limit device with counterw ASTM-AASHTO- UNI model. ACCESSORIES Glass plate 500 x 500 x 10 mm, Flexible spatula 100 mm blade, Flexible spatula 160 mm blade, Plastic wash bottle 500 ml, , Porcelain evaporating dish dia. 120 x 50 mm h, Moisture content tin dia. 75X30 MM	2		
7	Los Angeles abrasion machine	Conforming to EN and ASTM standards. 230V, 50Hz, 1ph., Set of 12 abrasive charges ASTM/UNI	1		
8	STANDARD PENETRATION TEST APPARATUS	SPT SPLIT SAMPLER Stainless Steel, Spt Hammer Of 140 Lbf, Spt Guide Rod Assembly, Spt Lifting Hook Assembly, Spt Drilling Rod 42mm X 5 Feet Approximately. With Coupling Nipple (6), Spt Tripod Set 2" Dia (15 Ft Approximately), Manila Rope (Rate Per Foot) (50), Screw Wrench 18" Follow the ASTM Standards.	1		
9	PLASTIC LIMIT (Complete set with all accessories)	Plastic limit set accessories: Glass plastic limit plate 300 x 300 mm, Stainless steel rod dia 3 mm, Porcelain evaporating dish dia 120 x 32 mm h, Flexible spatula 100 mm blade, Aluminium cup dia 75x30 mm with cover. Set of 6	1		
10	Hydrometer with all accessories	Hydrometer particle size test set to ASTM D422 -AASHTO T88. 230V, 50Hz, 1ph. Comprising: Hydrometer jar 1000 ml. Graduated glass., Rubber bung for cylinder 22-D1006/A, Soil hydrometer 151/H, Laboratory thermometer -10 to + 50 deg.C, Constant temperature water bath.	1		

S.No	Name of Equipment (s)	Specifications	Qty	Unit Price (PKR)	Total Price (PKR)
		230V/50Hz/Ph, High speed stirrer. 230V/50-60Hz/1Ph, Sodium hexametaphosphate 1000 g, Borosilicate glass beaker 250 ml			
11	Fossils kit	12 premium educational fossils, Each with an illustrated description card, Geologic Time Chart Card denoting evolutionary milestones	5		
12	Permeameter	Open System: Sample rings phi 53 and 60 mm, 5,10 or 25 samples, Closed System: Sample rings phi 53 and 60 mm, Pump: Type Eheim 1048, Power Rating: 230 V, 50 Hz, Power 10 W, Capacity 10 liter per minute, IP67: 1,5 Meter	1		
13	Direct/ Shear Residual Machine	Speed Range: adjustable from 0.00001 to 9.99999 mm/min, Maximum Shear Force: 5000 N, Maximum Vertical Load: 500 N or 5000 N using 10:1 lever-arm device, Speed drive ratio: stepper motor 1/10000 resolution, Horizontal Travel: preset via firmware up to 20mm, Displacement Limits: controlled by optical safety switch, Digital Display: 4-row/ 20-character LCD. Easy to operate with membrane keyboard, Specimen sizes: 60- and 100-mm square; 50,60, 63.5- and 100-mm diameter, Overall Dimensions: 953*387*1180mm (w*d*h), Weight: 120 Kg: Standards: ASTM D3080/AASHTO T236	1		
14	Proctor moulds and rammers (complete set)	The Soil Compaction Mold, 6" ID-Standard, 1/13 Cu Ft. fit the Automatic Mechanical Soil Compactors, and also may be used with manual soil compactors. Molds are 4.584in (116.4mm) in height with detachable extension collar and base plate, and are plated for rust resistance., straight edge. Standards: ASTM D558, D698, D1557, AASHTO T99, T134, T180/ CNR N 69	1		
15	Schmidth hammer	HT-225D digital Schmidt Hammer Test LED Display Data Software to PC	1		
16	Polariscope	Condensing lens/ Interference Spheres, immersion cell. GIA/GEM Polariscope	4		
17	Spectroscope	Kassoy Prism type spectroscope, Adjustable slit aperture with slide focus	2		
18	Double goose neck (Fiber optic light) FIB0005	150W Fiber Optic Dual Gooseneck Microscope Illuminator	1		
19	Lamps	Eglo Top Desk 7059 Table Lamp in Black… Eglo Bidi 7059 Table Lamp Colour: Black Product Code: 87002 Bulbs Not Included Rocker Switch H470mm Maximum Wattage: 60w	5		
20	Hardness Pick Set (In a wooden case)	Four double ended picks with hardness point of 2-9 on Mohs hardness scale. A grinding plate for sharpening your points. Streak plate.Glass plate for quick "hard" or "soft" determination, A hardness plate with a hardness of 3.5 Magnet, Paper table listing common minerals and their hardness, Hardness testing instructions. All of this in a compact (7" x 2 1/2" x 1 5/8") wooden case that takes up minimal space on a desk or shelf	5		
21	Hardness Pick Set (In a Plastic Field case)	This hardness pick set has the same contents as the kit described above. It is packaged in a durable plastic case for easy carrying in the field. The case opens and closes on a hinge and has a plastic latch. The case measures approximately 5" by 8" by 1 3/4" when closed.	5		
22	Mineral Hardness Test Kits	Standard (Hardness Pick Set and Mineral Identification Kit, in Wooden Case)	7		
Department of Medical Lab. Technology					
1	Electrolyte Analyzer (Flame Photometer)	Automatic, Touchscreen, with auto-sampler; Analytes: pH, Na+, K+, Cl-, Li+, Ca++ CO2; Throughput: 60-70 samples per hour; Principle: Ion Selective Electrode (ISE) method;	1		

S.No	Name of Equipment (s)	Specifications	Qty	Unit Price (PKR)	Total Price (PKR)
		Sample range: Blood, serum, plasma, urine, CSF; Measuring time: 20-25 sec; Working Temperature: 5-40°C; Data Storage: >2thousand test; Electric Supply: 110 - 240 V, 50/60 Hz (self-adjusting), 1.4 amps max; Dimension: 380(L) x 200(W) x 340(H) mm; Printer: Built-in thermal printer; Certification: FDA approved			
2	Micropipette Set	0.5-10 µl, 10- 20 µl, 10- 100 µl,Upto 1 ml. ; Shall comply with ISO-8655 calibration specification	1 each		
3	Water Distillation Apparatus	Capacity: Output 4 litre per hour. Automatic with ontinuous water production. pH : 5.0 – 6.5pH; Conductivity: 3.0 – 4.0 µScm- 1 ; Resistivity: 0.25 – 0.3 mOhm-cm: Temperature: 25 - 35°C : Pyrogen content: Pyrogen free : Water supply: 1 litre/min (3 – 100psi) : Electricity supply: 220 or 240V, 50-60Hz, single phase	1		
4	Horizontal Gel electrophoresis tank Large/medium/small	Mini Gel Electrophoresis Horizontal unit dimension 20 x 9.5 x 8.5cm (LxWxH), Run up to 30 samples at once complete system with UV Tray 10 x 7 cm Gel Electrophoresis Horizontal Midi unit dimension 27 x 17.5 x 10cm (LxWxH), Run up to 40 samples at once complete system with UV Tray 10 x 15 cm Maxi Gel Electrophoresis Horizontal unit unit dimension 27 x 17.5 x 10cm (LxWxH), Run up to 40 samples at once, complete system with UV Tray 15 x 15 cm	1		
5	Gel documentation system	Camera: 5 MP (2592 x 1944), scientific grade sensor Lens: 8 mm, F 1.4 hands free lens with Smart Capture technology Cabinet: Built in UV trans illuminator with safety cut-off switch, Dimensions: 34.6 x 31.1 x 68.6 cm	1		
6	Real time PCR with accessories	Compact, with touchscreen, portable, high-performance, with USB port, Bluetooth; 5 color Real-Time PCR with choice of Five Filters; Technology: Real-time and fluorescence; QPCR system with Laptop PC Software for data analysis; Number of well: 96; Up to 96 tests at once Fast,up to 8-12°C/s of heating rate Accurate,CV<0.5%; PCR Reaction Volume: 10-20 µl; Run time; < 40 min; Multiplexing Capacity: 4-6x. Light Source: High-Intensity LED; Electric Supply: 110 - 240 V, 50/60 Hz (self-adjusting); Certification: FDA Approved.	1		
7	Hemoglobin Testing system (HPLC)/ Fully automated system for diabetes monitoring and thalassemia testing	Compact Automatic system startup checklist and touch screen operation; Auto-sampler; Parameters: complete hemoglobin variants (HbA, HbA1c, HbA2, HbC, HbD, HbE, HbF, HbS); Analysis time; 9-15 mins; Specimen; Whole blood; Flow rate: 1.5ml/min; Maximum pressure; 140 bar; Gradient; binary; Electricity supply: 220 or 240V, 50-60Hz, single phase; Other: Any HPLC gradient system with UV/VIS detector is suitable; Certification: FDA Approved.	1		

Declaration	I hereby declare that all information, documents, price list, forms etc attached with Financial Proposal are true and ***if found fake or forged***, the firm shall be liable to ***disqualification and forfeiture of CDR by the Procuring Entity***.
Name of Authorized Person:	
Signature of Authorized Person	
Official Stamp/Seal	
Date:	

3.3.3.3 Financial Proposal Form Price Schedule for Chemicals (Inclusive of all applicable taxes/duties)

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
Department of Agronomy				
1	Acetic Acid, BDH/Sigma/Merck 2.5 Lit	1		
2	Acetone, BDH/Sigma/Merck 2.5 Lit	1		
3	Aluminum Chloride, BDH/Sigma/Merck 500g	1		
4	Aluminum Nitrate, BDH/Sigma/Merck kg	1		
5	Cadmium Chloride, BDH/Sigma/Merck 500g	1		
6	Calcium Hydroxide, BDH/Sigma/Merck kg	1		
7	Carbon Tetra Chloride , BDH/Sigma/Merck 2.5-l	1		
8	Citric acid, BDH/Sigma/Merck kg	1		
9	e-sol BDH/Sigma/Merck 2.5 Lit	1		
10	Ethyl Alcohol, BDH/Sigma/Merck 2.5 Lit	1		
11	Methanol, BDH/Sigma/Merck 2.5 Lit	1		
12	Ninhydrin , BDH/Sigma/Merck 25-g	1		
13	Oxalic Acid, BDH/Sigma/Merck kg	1		
14	Phenol, BDH/Sigma/Merck kg	1		
15	Potassium Dichromate, BDH/Sigma/Merck kg	1		
16	Potassium Bromide, BDH/Sigma/Merck kg	1		
17	Silver Nitrate, BDH/Sigma/Merck 25-g	1		
18	Sodium Acetate, BDH/Sigma/Merck kg	1		
19	Sodium Chloride , BDH/Sigma/Merck kg	1		
20	Sodium Nitrate, BDH/Sigma/Merck kg	1		
21	Sulphuric Acid, BDH/Sigma/Merck 2.5l	1		
22	Toluene, BDH/Sigma/Merck 2.5-l	1		
23	Zinc Chloride, BDH/Sigma/Merck kg	1		
List of Chemicals form Agronomy-2 Chem				
1	n- Hexane BDH/Sigma/Merck 2.5-l	1		
2	Ethyl acetate BDH/Sigma/Merck 2.5-l	1		
3	Dimethyl Sulfoxide BDH/Sigma/Merck 500ml	1		
4	N,N-Dimethylformamide BDH/Sigma/Merck 2.5-l	1		
5	Methanol 99.5% BDH/Sigma/Merck 2.5-l	1		
6	Acetic acid Glacial 99.5% BDH/Sigma/Merck 2.5-l	1		
7	Nitric acid 60% Glass BDH/Sigma/Merck 2.5-l	1		
8	Sodium bicarbonate BDH/Sigma/Merck Kg	1		
9	Sodium thiosulphate BDH/Sigma/Merck Kg	1		
10	Potassium Oxalate BDH/Sigma/Merck Kg	1		
11	Oxalic acid BDH/Sigma/Merck Kg	1		
12	Potassium permanganate BDH/Sigma/Merck Kg	1		
13	Calcium Hydroxide BDH/Sigma/Merck Kg	1		
14	Sodium hydroxide Pellets BDH/Sigma/Merck Kg	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
15	succinic acid BDH/Sigma/Merck 500g	1		
16	Phthalic acid BDH/Sigma/Merck 500g	1		
17	Hydroxyl amine hydrochloride BDH/Sigma/Merck 500g	1		
18	phthalic anhydride BDH/Sigma/Merck 500g	1		
19	Phenol BDH/Sigma/Merck Kg	1		
20	Salicylaldehyde EP BDH/Sigma/Merck100-ml	1		
21	Aniline EP BDH/Sigma/Merck litre	1		
22	Zinc nitrate Hexahydrate EP BDH/Sigma/Merck Kg	1		
23	Benzoic acid 99.5% EP BDH/Sigma/Merck Kg	1		
24	Calcium hydroxide 95% EP BDH/Sigma/Merck Kg	1		
25	Oxalic acid Dihydrate EP BDH/Sigma/Merck Kg	1		
26	Magnesium hydroxide CP BDH/Sigma/Merck Kg	1		
27	Benzophenone GR BDH/Sigma/Merck 250-g	1		
28	Methyl orange GR BDH/Sigma/Merc k25-g	1		
29	Methyl red GR BDH/Sigma/Merck 25-g	1		
30	Copper(II) Chloride 2H2O EP BDH/Sigma/Merck Kg	1		
31	Barium Chloride Dihydrate EP BDH/Sigma/Merck Kg	1		
32	Ammonium Hydroxide EP BDH/Sigma/Merck 2.5-l	1		
33	Sulphuric acid BDH/Sigma/Merck 2.5-l	1		
34	Ethylendiaminetetraacetic acid (EDTA) BDH/Sigma/Merck 500g	1		
35	Eriochrome Black T BDH/Sigma/Merck 100g	1		
36	Ammonium Chloride EP BDH/Sigma/Merck 2.5-l	1		
37	Silver nitrate BDH/Sigma/Merck 25g	1		
38	Potassium chromate BDH/Sigma/Merck kg	1		
40	Potassium iodide BDH/Sigma/Merck 500-g	1		
41	Silver nitrate BDH/Sigma/Merck 25g	1		
42	Sodium thiosulphate BDH/Sigma/Merck kg	1		
43	Soluble starch powder BDH/Sigma/Merck kg	1		
48	Methyl Orange BDH/Sigma/Merck 25-g	1		
49	HCL (37% v/v) BDH/Sigma/Merck 2.5 L	1		
50	Phenolphthalein 98% BDH/Sigma/Merck 100-g	1		
51	Ammonium molybdate tetrahydrate BDH/Sigma/Merck 500-g	1		
52	Hydrogen peroxide H2O2/Sigma aldrich/500mL	1		
53	Potassium Dichromate, BDH/Sigma/Merck kg	1		
54	Ethyl Alcohol BDH/Sigma/Merck 2.5-l	2		
55	Chloroform (2.5 L) BDH/Sigma/Merck 2.5-l	1		
56	Acetone (2.5L) BDH/Sigma/Merck 2.5-l	3		
57	Isopropyl Alcohol BDH/Sigma/Merck 2.5-l	2		
58	Toluene, BDH/Sigma/Merck 2.5-l	2		
59	Nitric acid 65% BDH/Sigma/Merck 2.5-l	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
60	Acetic Acid BDH/Sigma/Merck 2.5-l	1		
61	Sodium hydrogen carbonate BDH/Sigma/Merck kg	1		
62	Sodium Carbonate BDH/Sigma/Merck kg	1		
63	Benzoic Acid BDH/Sigma/Merck kg	1		
64	Potassium Dichromate BDH/Sigma/Merck kg	1		
65	Ferrous Sulphate BDH/Sigma/Merck kg	1		
66	Ferric Sulphate BDH/Sigma/Merck kg	1		
67	Sodium Nitrate BDH/Sigma/Merck kg	1		
68	Sodium phosphate BDH/Sigma/Merck kg	1		
69	Acetonitrile AR BDH/Sigma/Merck 2.5-l	1		
70	n-Butanol BDH/Sigma/Merck 2.5-l	1		
71	Polyethylene glycol BDH/Sigma/Merck 2.5-l	1		
72	Urea BDH/Sigma/Merck kg	1		
73	Dimethylsulfoxide ≥99.9% BDH/Sigma/Merck 2.5-l	1		
74	p-Anisaldehyde, 99+% Cat No 104800050	1.0		
75	Tetraethyl orthosilicate (500g) Daejung Korea	1		
76	Hexadecyltrimethylammonium bromid 99% Daejung Korea	1		
77	Acetic Acid Glacial EP 500ml Daejung Korea	1		
78	Trimethylorthosilicate (TMOS) (Acros) 100 g	1		
79	Octadecylsilane 97% (Across/ BDH/Sigma/Merck) 25 g	1		
80	Ferric Sulphate BDH/Sigma/Merck kg	1		
81	Acrylonitrile analytical grade BDH/Sigma/Merck 2.5-l	1		
82	Zinc Nitrate Duksan/Sigma/BDH/Merck 500 g	1		
83	Nickel (II) Chloride 6- Hydrate BDH/Sigma/Merck 100 g	1		
84	Manganese (II) Chloride Duksan/ BDH/Sigma/Merck 100g	1		
85	Manganese nitrate BDH/Sigma/Merck 500g	1		
86	Iron chloride hexahydrate chemlab/ BDH/Sigma/Merck 100g	1		
87	Silver nitrate Sigma/ BDH/Sigma/Merck 100g	1		
88	Chromium (III) Sulphate BDH/Sigma/Merck 100g	1		
89	Titanium Dioxide BDH/Sigma/Merck 100g	1		
90	Cadmium Sulfate Hydrate BDH/Sigma/Merck 100g	1		
List of Chemicals form Entomology Dept				
1	Potassium cyanide (kg) BDH/Sigma/Merck kg	1		
2	Agar (kg) BDH/Sigma/Merck 500-g	1		
3	Chloroform (2.5 L) BDH/Sigma/Merck 2.5-l	1		
4	Acetone (2.5L) BDH/Sigma/Merck 2.5-l	1		
5	E-sol (2.5 L) BDH/Sigma/Merck 2.5-l	1		
6	Methanol BDH/Sigma/Merck 2.5-l	1		
7	HCL (2.5L) BDH/Sigma/Merck 2.5-l	1		
8	Ascorbic acid(L) BDH/Sigma/Merck kg	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
9	H2SO4 (2.5 L) BDH/Sigma/Merck 2.5-l	1		
10	Ferric Chloride (kg) BDH/Sigma/Merck kg	1		
11	Nitric acid (2.5 L) BDH/Sigma/Merck 2.5-l	1		
12	Copper acetate (500g) BDH/Sigma/Merck kg	1		
13	DPHH (500g) BDH/Sigma/Merck 1g	1		
14	Sodium hydroxide (kg) BDH/Sigma/Merck kg	1		
15	Formalin (L) BDH/Sigma/Merck 2.5-l	1		
List of Chemicals form Soil Sciences				
S.No	**Description**	**Qty**		
1	Acetic Acid Glacial EP 1kg BDH/Sigma/Merck 1-KG	1		
2	Acetone BDH/Sigma/Merck 2.5 lit	1		
3	Agar BDH/Sigma/Merck 500g	1		
4	Ammonium bicarbonate BDH/Sigma/Merck Kg	1		
5	Ammonium Heptamolybdate BDH/Sigma/Merck 500-g	1		
6	Ammonium Phosphate Monobasic EP 1kg BDH/Sigma/Merck 1-KG	1		
7	Ammonium Sulfate EP 1kg BDH/Sigma/Merck 1-KG	1		
8	Antimony potassium tartrate 0.5H2O EP 99.5~100.5% BDH/Sigma/Merck 1-KG	1		
9	Boric acid BDH/Sigma/Merck kg	1		
10	Buffer solution pH 4,7,10 BDH/Sigma/Merck 1-litre	1		
11	Calcium carbonate BDH/Sigma/Merck Kg	2		
12	Calcium sulphate BDH/Sigma/Merck kg	1		
13	Chromium chloride BDH/Sigma/Merck 500-g	1		
14	Citric Acid Monohydrate EP 1kg BDH/Sigma/Merck 1-KG	1		
15	Copper (II) Sulfate Anhydrous EP BDH/Sigma/Merck 500g	1		
16	EDTA BDH/Sigma/Merck Kg	1		
17	Ethyl Alcohol BDH/Sigma/Merck 2.5-l	1		
18	Hydrochloric acid BDH/Sigma/Merck 2.5l	1		
19	Hydrogen Peroxide 30% EP BDH/Sigma/Merck 500g	1		
20	L(+)-Ascorbic Acid 99% EP BDH/Sigma/Merck 25-g	1		
21	Lead (II) Nitrate CP BDH/Sigma/Merck 1-KG	1		
22	Methanol BDH/Sigma/Merck	1		
23	Methyl blue BDH/Sigma/Merck 25-g	1		
24	Methyl orange BDH/Sigma/Merck 25-g	1		
25	NaHCO3 BDH/Sigma/Merck kg	1		
26	Nitric acid 60% GR BDH/Sigma/Merck 500-g	1		
27	Nitroprusside Na2[Fe(CN)5NO].2H2O BDH/Sigma/Merck 250-G	1		
28	Nutrient Agar Biolab/ BDH/Sigma/Merck 500-g	1		
29	Nutrient Broth Biolab/ BDH/Sigma/Merck 500-g	1		
30	Perchloric Acid 60% GR BDH/Sigma/Merck 2.5-L	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
31	Postassium ferricyanide BDH/Sigma/Merck kg	1		
32	Potassium chloride BDH/Sigma/Merck kg	1		
33	Potassium dichromate BDH/Sigma/Merck 500g	1		
34	Potassium dihydrogen phosphate BDH/Sigma/Merck kg	1		
35	Potassium Hydroxide, Flakes EP BDH/Sigma/Merck 1-KG	1		
36	Sodium Acetate Anhydrous EP BDH/Sigma/Merck 1-KG	1		
37	Sodium bicarbonate BDH/Sigma/Merck Kg	1		
38	Sodium chloride BDH/Sigma/Merck 1kg	1		
39	Sodium hydrogen carbonate BDH/Sigma/Merck Kg	1		
40	Sodium hydroxide pellets EP BDH/Sigma/Merck Kg	2		
41	Sodium molybdate BDH/Sigma/Merck 500-g	1		
42	Sodium Phosphate Dibasic Anhydrous 99% BDH/Sigma/Merck 1-KG	1		
43	Sodium Sulfate Anhydrous EP BDH/Sigma/Merck 1-KG	1		
44	Sulphuric acid BDH/Sigma/Merck 2.5l	2		
45	Tri-Sodium Citrate di-hydrate BDH/Sigma/Merck 1 KG	2		
46	Tri-Sodium Phosphate BDH/Sigma/Merck 1KG	1		
47	Trypton BDH/Sigma/Merck 500 g	1		
48	Whatman No. 42 filter paper pkt	2		
49	Yeast extract BDH/Sigma/Merck 500 g	1		
50	Zinc Nitrate 6H2O EP BDH/Sigma/Merck 500-g	1		
51	Zinc sulphate BDH/Sigma/Merck Kg	1		
Dept. of Environmental Sciences				
1	Barium chloride BDH/Sigma/Merck 1 kg	1		
2	Calcium sulphate BDH/Sigma/Merck kg	1		
3	Potassium chloride BDH/Sigma/Merck kg	1		
4	Acetone BDH/Sigma/Merck 2.5 lit	1		
5	NaHCO3 BDH/Sigma/Merck kg	1		
6	Potassium nitrate BDH/Sigma/Merck kg	1		
7	Potassium chromate BDH/Sigma/Merck kg	1		
8	Potassium dichromate BDH/Sigma/Merck 500g	1		
9	Sodium chloride BDH/Sigma/Merck 1kg	1		
10	Sodium carbonate BDH/Sigma/Merck 500g	1		
11	Anhydrous sodium sulphate BDH/Sigma/Merck kg	1		
12	Sodium hydroxide BDH/Sigma/Merck kg	1		
13	Sodium thiosulphate BDH/Sigma/Merck kg	1		
14	Sodium tetraborate BDH/Sigma/Merck kg	1		
15	Silver nitrate BDH/Sigma/Merck 25g	1		
16	Barium chloride BDH/Sigma/Merck kg	1		
17	Mercuric sulphate powder BDH/Sigma/Merck 25-g	1		
18	Sodium iodide BDH/Sigma/Merck 100-g	1		
19	Sodium nitrate BDH/Sigma/Merck kg	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
20	Boric acid BDH/Sigma/Merck kg	1		
21	Methyl red indicator BDH/Sigma/Merck 25-g	1		
22	Methyl blue BDH/Sigma/Merck 25-g	1		
23	Methyl orange BDH/Sigma/Merck 25-g	1		
24	Silver sulphate BDH/Sigma/Merck 25-g	1		
25	Sulphuric acid BDH/Sigma/Merck 2.5l	1		
26	Nitric acid BDH/Sigma/Merck 2.5l	1		
27	Hydrochloric acid BDH/Sigma/Merck 2.5l	1		
28	Ethyl alcohol BDH/Sigma/Merck 2.5l	1		
29	Ammonia solution BDH/Sigma/Merck 2.5l	1		
30	Potassium dihydrogen phosphate BDH/Sigma/Merck kg	1		
31	copper sulfate BDH/Sigma/Merck kg	1		
32	Potassium sulphate BDH/Sigma/Merck kg	1		
33	ammonium sulfate BDH/Sigma/Merck kg	1		
35	Hydrogen peroxide H2O2 BDH/Sigma/Merck 500mL	1		
36	Sodium fluoride BDH/Sigma/Merck 1 kg	1		
37	Glycerol BDH/Sigma/Merck 2.5-l	1		
38	Phenolphthalein 98% BDH/Sigma/Merck 100-g	1		
39	Potassium permanganate BDH/Sigma/Merck Kg	1		
40	Boric acid BDH/Sigma/Merck kg	1		
41	Methanol BDH/Sigma/Merck 2.5ltr	1		
42	Sodium sulphate BDH/Sigma/Merck 100g	1		
43	Ethanol BDH/Sigma/Merck 2.5 ltr	1		
44	EDTA BDH/Sigma/Merck Kg	1		
45	Chromium chloride BDH/Sigma/Merck 500-g	1		
46	Calcium chloride BDH/Sigma/Merck 100g	1		
47	Copper sulphate BDH/Sigma/Merck 100g	1		
48	Acitic acid BDH/Sigma/Merck 1 ltr	1		
58	Cobalt chloride BDH/Sigma/Merck 50g	1		
59	Lead nitrate BDH/Sigma/Merck 100 g	1		
60	Cadmium chloride BDH/Sigma/Merck 25 g	1		
61	Nickle nitrate BDH/Sigma/Merck 25 g	1		
62	Crystal violet dye BDH/Sigma/Merck 50-g	1		
63	Buffer solution pH 2, BDH/Sigma/Merck 1-litre	1		
64	Buffer solution pH 3, BDH/Sigma/Merck 1-litre	1		
65	Buffer solution pH 5, BDH/Sigma/Merck 1-litre	1		
66	Buffer solution pH 6, BDH/Sigma/Merck 1-litre	1		
67	Buffer solution pH 8, BDH/Sigma/Merck 1-litre	1		
68	Buffer solution pH 9, BDH/Sigma/Merck 1-litre	1		
69	Lead Nitrate BDH/Sigma/Merck 200g	1		
70	Sodium Chloride BDH/Sigma/Merck 500g	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
71	Potassium hydroxide BDH/Sigma/Merck 200g	1		
72	Copper nitrate BDH/Sigma/Merck 100g	1		
73	Manganese nitrate BDH/Sigma/Merck 500g	1		
74	Perchloric acid BDH/Sigma/Merck 2.5l	1		
75	Potassium dihydrogen phosphate BDH/Sigma/Merck 500g	1		
76	Potassium dichromate BDH/Sigma/Merck 500g	1		
77	Calcium chloride BDH/Sigma/Merck 500g	1		
78	Ferric chloride BDH/Sigma/Merck 500g	1		
79	dipotasium phosphate BDH/Sigma/Merck 500g	1		
80	Sodium hydrogen phosphate BDH/Sigma/Merck 500g	1		
81	Ammonium chloride BDH/Sigma/Merck 500g	1		
82	Silver chloride BDH/Sigma/Merck 500g	1		
83	Ferrous chloride BDH/Sigma/Merck 500g	1		
84	Ferrous sulphate BDH/Sigma/Merck/500g	1		
85	Eosin methylene blue agar BDH/Sigma/Merck 1000g	1		
86	Nutrient agar BDH/Sigma/Merck 1000g	1		
Department of Microbiology				
49.	Ethidium Bronide BDH/Sigma/Merck 1-g	1		
50.	Nutrient Agar , HKM/Oxoid/Sigma-Aldrich , 500 g	2		
51.	Muller Hilton Agar HKM/Oxoid/Sigma-Aldrich , 500 g	2		
52.	McConkey agar HKM/Oxoid/Sigma-Aldrich , 500 g	2		
53.	Technical Agar HKM/Oxoid/Sigma-Aldrich , 500 g	1		
54.	Potato dextrose agar HKM/Oxoid/Sigma-Aldrich , 500 g	1		
55.	Selenite Cystine Broth HKM/Oxoid/Sigma-Aldrich , 500 g	1		
56.	Simmons Citrate agar HKM/Oxoid/Sigma-Aldrich , 500 g	1		
57.	Triple Sugar Iron Agar HKM/Oxoid/Sigma-Aldrich , 500 g	1		
58.	Trypticase Soy Broth HKM/Oxoid/Sigma-Aldrich , 500 g	1		
59.	Crystal violet Diachem BDH/Sigma/Merck 500 mL	1		
60.	Gram's Iodine Diachem BDH/Sigma/Merck 500 mL	1		
61.	Safranin sigma / VWR/ BDH/Merck 25 gm	1		
62.	Ethanol Absolute sigma / VWR/ BDH/Merck 2.5 L	2		
63.	Methanol sigma / VWR/ BDH/Merck 2.5 L	1		
64.	Acetic Acid Glacial, sigma / VWR/ BDH/Merck 2.5 L	2		
65.	Glycerol, purity 99% BDH/Sigma/Merck / VWR 2.5 L	1		
66.	Piperacillin (antibiotic disc) BDH/Sigma/Merck /Bio Analyse UK 50 discs/ cartridge	1		
67.	Cefoperazone, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
68.	Cefoxitin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
69.	Ceftazidime , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
70.	Cefotaxim,(antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
71.	Ceftriaxone ,(antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
72.	Cefepime ,(antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
73.	Aztreonam,(antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
74.	Imipenem , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
75.	Gentamicin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
76.	Amikacin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
77.	Ciprofloxacin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
78.	Ofloxacin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
79.	Norfloxacin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
80.	Streptomycin Sulfate Disc Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
81.	Carbenicillin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
82.	Nitrofuranton, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
83.	Ampicillin (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
84.	Tetracycline, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
85.	Metronidazole , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
86.	Penicillin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
87.	Amoxicillin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
88.	Erythromycin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
89.	Vancomycin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
90.	Ciprofloxacin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
91.	Bacitracin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
92.	Lincomycin , (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
93.	Clindamycin, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
94.	Linezolid, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
95.	Doxycycline, (antibiotic disc) Bio Analyse UK/ BDH/Sigma/Merck 50 discs/ cartridge	1		
96.	Phosphate buffer saline tablets Bio Analyse UK/ BDH/Sigma/Merck 100 tablet/pack	1		
Department of Horticulture				
1	Acetone BDH/Sigma/Merck 2.5 L	1		
2	Methanol BDH/Sigma/Merck 2.5 L	1		
3	Postassium ferricyanide BDH/Sigma/Merck 500 g	1		
4	HCL BDH/Sigma/Merck 2.5l	1		
5	H2SO4 BDH/Sigma/Merck 2.5l	1		
6	Potassium acetate BDH/Sigma/Merck 1 kg	1		
7	CaCl2 BDH/Sigma/Merck 1 kg	1		
8	CaCO3 BDH/Sigma/Merck 1 kg	1		
Department of Plant Breeding & Genetics				
1	Calcium Pentathonate BDH/Sigma/Merck 25-g	1		
2	KNO3 BDH/Sigma/Merck 1 Kg	1		
3	Tween 20 BDH/Sigma/Merck 500-ml	1		
4	Tween 80 BDH/Sigma/Merck 500-ml	1		
Department of Geology/Earth Sciences				
1	Phenolphthalein 98% BDH/Sigma/Merck 100-g	1		
2	Methyl Orange BDH/Sigma/Merck 25-g	1		
3	Nitric acid 65% BDH/Sigma/Merck 2.5l	1		
4	Acetic Acid BDH/Sigma/Merck 2.5-l	1		
5	Sodium hydrogen carbonate BDH/Sigma/Merck kg	1		
6	Sodium Carbonate BDH/Sigma/Merck kg	1		
7	Benzoic Acid BDH/Sigma/Merck kg	1		
8	Potassium Dichromate BDH/Sigma/Merck kg	1		
9	Ferrous Sulphate BDH/Sigma/Merck kg	1		
10	Ferric Sulphate BDH/Sigma/Merck kg	1		
11	Sodium Nitrate BDH/Sigma/Merck kg	1		
12	Sodium phosphate BDH/Sigma/Merck kg	1		
13	Ethyl Alcohol BDH/Sigma/Merck 2.5-l	1		
14	Acetone BDH/Sigma/Merck 2.5-l	1		
15	Methyl & Alcohol BDH/Sigma/Merck 2.5-l	1		
16	Isopropyl Alcohol BDH/Sigma/Merck 2.5-l	1		
17	Cobalt nitrate BDH/Sigma/Merck 500-g	1		
	Department of Food Sciences			
1	37 Components FAME'S MIX, Supelco/Sigma Aldrich, Cat No: CRM47885	1		
2	Methyl butyrate Cat: 19358-1ML Supelco/Sigma Aldrich	1		
3	METHYL CAPROATE, STANDARD FOR GC Supelco/Sigma Aldrich Cat: 21599-1ML-F	1		
4	Methyl caprylate Cat: 21719-5ML-F Supelco/Sigma Aldrich	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
5	Methyl caprate Cat: 21479-1ML Supelco/Sigma Aldrich	1		
6	Methyl dodecanoate Cat: 61689-5ML Supelco/Sigma Aldrich	1		
7	Methyl myristate Cat: 70129-1ML Supelco/Sigma Aldrich	1		
8	Methyl palmitate Cat: 76159-1G Supelco/Sigma Aldrich	1		
9	Methyl tetracosanoate Cat: 87115-1G Supelco/Sigma Aldrich	1		
10	Methyl stearate Cat: 85769-1G Supelco/Sigma Aldrich	1		
11	Methyl oleate Cat: 75160-1ML Supelco/Sigma Aldrich	1		
12	Methyl linoleate Cat: 62280-5ML Supelco/Sigma Aldrich	1		
13	Methyl linolenate Cat: 62200-1ML Supelco/Sigma Aldrich	1		
14	Methyl erucate Cat: 45659-1ML-F Supelco/Sigma Aldrich	1		
Department of Food Sciences-2 B, Z and BC				
1	n-hexane , BDH/Sigma/Merck 2.5 L	1		
2	Diethyl ether , Labscan/ BDH/Sigma/Merck, 2.5 L	1		
3	Dichloromethane, BDH/Sigma/Merck, 2.5 L	1		
4	Acetonitrile BDH/Sigma/Merck 4 L	1		
5	n-Butanol BDH/Sigma/Merck, 2.5 L	1		
6	Ethyl acetate BDH/Sigma/Merck, 2.5 L	1		
7	Methanol BDH/Sigma/Merck 2.5 L	1		
8	2-propanol BDH/Sigma/Merck 2.5 L	1		
9	HPLC grade water BDH/Sigma/Merck 2.5 L	1		
10	Acetone (179124), BDH/Sigma/Merck 2.5 L	1		
11	Chloroform (C2432: 250 ml), Sigma, 2.5 L	1		
12	Ethylendiaminetetraacetic acid (EDTA), BDH/Sigma/Merck 1 kg	1		
13	Carbon tetrachloride BDH/Sigma/Merck, 1 kg	1		
14	Ethanol BDH/Sigma/Merck 2.5 L	1		
15	H2SO4 99% BDH/Sigma/Merck 2.5 L	1		
16	Dimethylsulfoxide (DMSO 5X5 mL: D2650), BDH/Sigma/Merck	1		
17	p-Anisaldehyde, BDH/Sigma/Merck, 100 gm	1		
18	Eosin Methylene Blue (For blood and tissues) BDH/Sigma/Merck 25 g	1		
19	Formalin solution BDH/Sigma/Merck, 4L	1		
20	Canada balsam BDH/Sigma/Merck 25 ml	1		
21	Xylene I BDH/Sigma/Merck 4 L	1		
22	Xylene II BDH/Sigma/Merck 4 L	1		
23	Absolute Ethyl alcohol BDH/Sigma/Merck 4 L	1		
24	Hematoxylin monohydrate BDH/Sigma/Merck 2.5 L	1		
25	dilute ammonia solution BDH/Sigma/Merck 2.5 L	1		
26	Chloroform solution BDH/Sigma/Merck 2.5 L	1		
27	Perchloric acid, BDH/Sigma/Merck 2.5 L	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
28	Copper Sulfate Solution BDH/Sigma/Merck 1 L	1		
29	Copper Sulfate BDH/Sigma/Merck kg	1		
30	Ninhydrin , BDH/Sigma/Merck 25-g	1		
31	Nitric acid BDH/Sigma/Merck 2.5l	1		
32	Hydrochloric acid BDH/Sigma/Merck 2.5l	1		
33	Sodium hydroxide Pellets BDH/Sigma/Merck Kg	1		
34	Ammonia solution BDH/Sigma/Merck 2.5l	1		
35	Acetic Acid, BDH/Sigma/Merck 2.5 Lit	1		
36	Potassium iodide BDH/Sigma/Merck 500-g	1		
37	Sodium nitrate BDH/Sigma/Merck kg	1		
38	Sodium iodide BDH/Sigma/Merck 100-g	1		
39	Sodium carbonate BDH/Sigma/Merck 500g	1		
40	Methyl orange BDH/Sigma/Merck 25-g	1		
41	Methyl blue BDH/Sigma/Merck 25-g	1		
42	Buffer solution pH4,7,10 BDH/Sigma/Merck 1-litre	1		
43	Nutrient Broth Biolab/ BDH/Sigma/Merck 500-g	1		
44	Phenolphthalein 98% BDH/Sigma/Merck 100-g	1		
45	Acetic acid Glacial 99.5% BDH/Sigma/Merck 2.5-l	1		
46	Sodium Acetate, BDH/Sigma/Merck kg	1		
47	Amunium Chloride, BDH/Sigma/Merck 500g	1		
48	Sodium hydroxide BDH/Sigma/Merck kg	1		
49	Sodium hydrogen carbonate BDH/Sigma/Merck kg	1		
50	Citric acid, BDH/Sigma/Merck kg	1		
51	Agar BDH/Sigma/Merck 500g	1		
52	Potassium Bromide, BDH/Sigma/Merck kg	1		
53	Glycerol BDH/Sigma/Merck 2.5-l	1		
Department of Soil and Climate Science				
1	Acetic Acid Glacial EP 1kg Cat # 1005-4400 1-KG	1		
2	Acetone BDH/Sigma/Merck 2.5 lit	1		
3	Agar BDH/Sigma/Merck 500g	1		
4	Ammonium bicarbonate BDH/Sigma/Merck Kg	1		
5	Ammonium Heptamolybdate BDH/Sigma/Merck 500-g	1		
6	Ammonium Phosphate Monobasic EP BDH/Sigma/Merck 1-KG	1		
7	Ammonium Sulfate EP BDH/Sigma/Merck 1-KG	1		
8	Ammonium chloride BDH/Sigma/Merck 500g	1		
9	Antimony potassium tartrate 0.5H2O EP 99.5~100.5% BDH/Sigma/Merck 1-KG	1		
10	Carbon, Activated (Powder/USP) BDH/Sigma/Merck 500-g	1		
11	Cadmium chloride BDH/Sigma/Merck 500-g	1		
12	Cadmium nitrate tetrahydrate 98% EP BDH/Sigma/Merck 500-g	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
13	Boric acid BDH/Sigma/Merck kg	1		
14	Buffer solution pH4,7,10 BDH/Sigma/Merck 1-litre	1		
15	Calcium carbonate BDH/Sigma/Merck Kg	2		
16	Calcium sulphate BDH/Sigma/Merck kg	1		
17	Chromium chloride BDH/Sigma/Merck 500-g	1		
18	Citric Acid Monohydrate EP BDH/Sigma/Merck 1-KG	1		
19	Copper(II) Sulfate Anhydrous EP BDH/Sigma/Merck 500-g	1		
20	Copper Nitrate BDH/Sigma/Merck 1-kg	1		
21	EDTA BDH/Sigma/Merck Kg	1		
22	Ethyl Alcohol BDH/Sigma/Merck 2.5-l	1		
23	Hydrochloric acid BDH/Sigma/Merck 2.5l	1		
24	Hydrogen Peroxide 30% EP BDH/Sigma/Merck 500-g	1		
25	L(+)-Ascorbic Acid 99% EP BDH/Sigma/Merck 25-g	1		
26	Lead(II) Nitrate CP BDH/Sigma/Merck 1-KG	1		
27	Methanol BDH/Sigma/Merck 2.5l	1		
28	Methyl blue BDH/Sigma/Merck 25-g	1		
29	Methyl orange BDH/Sigma/Merck 25-g	1		
30	Nitric acid 60% GR BDH/Sigma/Merck 500-g	2		
31	Nickel sulfate BDH/Sigma/Merck 250 g	1		
32	Nitroprusside Na2[Fe(CN)5NO].2H2O BDH/Sigma/Merck 250-G	1		
33	Nutrient Agar Biolab/ BDH/Sigma/Merck 500-g	1		
34	Nutrient Broth Biolab/ BDH/Sigma/Merck 500-g	1		
35	Perchloric Acid 60% GR BDH/Sigma/Merck 2.5-L	1		
36	pH meter puffer solutions of Ph 4, 7 & 9 BDH/Sigma/Merck 500ml	1		
37	Phenol EP BDH/Sigma/Merck 1-KG	2		
38	Postassium ferricyanide BDH/Sigma/Merck 100 g	1		
39	Potassium chloride BDH/Sigma/Merck kg	1		
40	Potassium dichromate BDH/Sigma/Merck 500g	1		
41	Potassium dihydrogen phosphate BDH/Sigma/Merck kg	1		
42	Potassium Hydroxide, Flakes EP BDH/Sigma/Merck 1-KG	1		
43	Potassium Nitrate 99% EP BDH/Sigma/Merck 1-KG	1		
44	Potassium Phosphate Monobasic EP BDH/Sigma/Merck 1-KG	2		
45	Salicylic Acid CP BDH/Sigma/Merck 500-g	2		
46	Sodium Acetate Anhydrous EP BDH/Sigma/Merck 1-KG	1		
47	Sodium bicarbonate BDH/Sigma/Merck Kg	1		
48	Sodium Borate Dodecahydrate CP BDH/Sigma/Merck 1-KG	1		
49	Sodium chloride BDH/Sigma/Merck 1kg	1		
50	Sodium hydrogen carbonate BDH/Sigma/Merck Kg	1		
51	Sodium hydroxide pellets EP BDH/Sigma/Merck Kg	2		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
52	Sodium molybdate BDH/Sigma/Merck 500-g	1		
53	Sodium nitrate BDH/Sigma/Merck 1-kg	1		
54	Sodium Phosphate Dibasic Anhydrous 99% BDH/Sigma/Merck 1-KG	1		
55	Sodium Sulfate Anhydrous EP 1kg BDH/Sigma/Merck 1-KG	1		
56	Sulphuric acid BDH/Sigma/Merck 2.5l	2		
57	Tri-Sodium Citrate di-hydrate BDH/Sigma/Merck 1 KG	2		
58	Tri-Sodium Phosphate BDH/Sigma/Merck 1KG	1		
59	Trypton BDH/Sigma/Merck 500 g	1		
60	Whatman No. 42 filter paper pkt	2		
61	Yeast extract BDH/Sigma/Merck 500 g	1		
62	Zinc Nitrate 6H2O EP BDH/Sigma/Merck 500-g	1		
63	Zinc sulphate BDH/Sigma/Merck Kg	1		
Department of Medical Lab Technology				
1	Acetic acid Glacial 99.5% BDH/Sigma/Merck 2.5-Liter	**1**		
2	Acetone, BDH/Sigma/Merck 2.5 Lit	1		
3	AFB/ZN Staining kit (carbol fuchsin, acid alcohol 3%, Methylene Blue)- BDH/Sigma/Merck 500 ml	1		
4	Agarose powder/Sigma/Merck/Oxoid-1000 g	1		
5	Serum Albumin Kit BDH/Sigma/Merck (12 x25 ml)/kit	1		
6	Serum Amylase kit BDH/Sigma/Merck (12 x 5 ml)/kit	1		
7	Anti-streptolysin (ASOT) Kit BDH/Sigma/Merck (2 x 25 ml)/kit	1		
8	Blood Agar BDH/Sigma/Merck/Oxoid/ - 500g	1		
9	Blood Grouping anti-sera- A, B and D/ Altas medical/Antec Diagnostic- 10 ml	4		
10	Boric acid BDH/Sigma/Merck - 100 g	1		
11	Bromophenol blue BDH/Sigma/Merck/Thermo scientific/ 6X DNA Loading Dye- (5 x 1 ml)/kit	1		
12	Brucella Abortus and Mellitensis kit BDH/Sigma/Merck (2 x 5 ml)/kit	1		
13	Cadmium Chloride, BDH/Sigma/Merck 500g	1		
14	Serum Calcium estimation Kit BDH/Sigma/Merck (6 x 25 ml)/kit	1		
15	CBC Control Sample/Sysmex/BDH/Sigma/Merck 1 ml	1		
16	Chemistry Control Solution /microlab 300/Lab kit/Merck- 5 ml (lyophilized)	1		
17	Chloroform (2.5 L) BDH/Sigma/Merck 2.5 L	**1**		
18	CLED Agar / BioRaD/Sigma/Merck/BDH/Biolab/- 500 g	1		
19	Transparent Glass slides for microscope-plain-25 mm × 75 mm- (72 slides per pack) pkt	20 pkts		
20	Cover slips- 18 x 18mm- 200 per pack	20 pkts		
21	Qualitative CRP estimation Kit- (2 x 25 ml)/kit	1		
22	Potassium Dichromate BDH/Sigma/Merck kg	1		
23	Drabkin solution for hemoglobin estimation/sigma/merck/ Medline/Dia-chem - 1 liter	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
24	Eosin Stain Solution 5%/sigma/ merck/ Bio-optica/ Medline/Dia-chem - 1 liter	1		
25	ESR counting solution /sigma/merck/ Medline/Dia-chem - 1 liter	1		
26	Ethanol 95%/ PanReac/BDH/Sigma/Merck - 2.5 Liter	5		
27	Ethidium Bronide BDH/Sigma/Merck 1-g	1		
28	Field Stain A & B for hematological studies / Sigma/ Merck Medline/Dia-chem - 1 liter	1		
29	Formalin (L) BDH/Sigma/Merck/ Bio-optica/PanReac- 2.5-Liter	1		
30	Geimsa Stain /Sigma/ Merck/Medline/Dia-chem/ Medline/Dia-chem- 1-Liter	1		
31	Blood Glucose kit BDH/Sigma/Merck - 1 liter	1		
32	Glycerol BDH/Sigma/Merck 2.5-l	1		
33	Gram Staining complete Kit / Sigma / Merck/Medline/Dia-chem – 1 liter	1		
34	H2SO4 BDH/Sigma/Merck- 2.5 Liter	1		
35	HCL BDH/Sigma/Merck - 2.5 Liter	1		
36	Hematology Analyzer Cleaner Solution-(Symex-X-100) 250 ml	4		
37	Hematology Diluent (Sysmex - x-100) – 20 Liter	1		
38	Hematology Lyse (Sysmex x-100)- 500 ml	1		
39	Hematoxylin stain/ sigma/ Merck/ Bio-optica/ Medline/Dia-chem - 1 Liter	1		
40	Leishman Stain / Sigma/ Merck – Liter	1		
41	Lugol's Iodine- BDH/Sigma/Merck 500 ml	1		
42	MacConkey Agar / BioRad/ Sigma/ Merck/ Oxoid/- 100	1		
43	Methanol, BDH/Sigma/Merck 2.5 Lit	1		
44	Muller Hinton Agar/ BioRad/ Sigma/ Biolab/ Oxoid -500 g	1		
45	Nitric acid (2.5 L) BDH/Sigma/Merck 2.5-l	1		
46	Nutrient Agar/ BioRaD/Sigma/ Biolab/ Oxoid 500-g	1		
47	PAS staining kit (Periodic acid solution and Schiffs reagent)/ Medline/Dia-chem - 500 ml	1		
48	Peptone Water / Merck/ BioRad/ BioLab/ Oxoid - 500g	1		
49	Phenol, BDH/Sigma/Merck- 1 kg	1		
50	Potassium cyanide (kg) BDH/Sigma/Merck – 100 g	1		
51	PT & APTT Kit for coagulation studies BDH/Sigma/Merck -Kit	1		
52	RA – Factor BDH/Sigma/Merck (2x 25 ml)/kit	1		
53	RBC Couting Solution BDH/Sigma/Merck / Medline/Dia-chem -1 Liter	1		
54	Reagent for LFT (ALT, AST, Bilirubin) / Merck/Lab kit - (5 x 25 ml)/ kit	1		
55	Reagent for lipid profile (TG, Cholesterol) BDH/Sigma/Merck lab kit 1 Liter each kit.	1		
56	Uric Acid estimation kit / Merck/ Lab Kit- (5 x 25ml)/kit	1		
57	Serum Urea estimation Kit -Merck/ Lab Kit- (5 x 25ml)/kit	1		
58	Serum Creatinine estimation kit-Merck/ Lab Kit - (5 x 25ml)	1		
59	Sodium Citrate Tube/ Hygeia Tech- 100/pack – pkt	1		
60	Sodium chloride BDH/Sigma/Merck 1kg	1		
61	Sodium hydroxide (kg) BDH/Sigma/Merck kg	1		

Sr#	Description/ Specifications	Quantity	Unit Price (PKR)	Total Price (PKR)
62	Sodium metabisulphite / Sigma/ Merck/ - 1 gram	1		
63	sudan black B staining kit / Merck/ sigma/ Medline/Dia-chem - 500 ml	1		
64	Trichome Stain /Merck/ Sigma/ Medline/Dia-chem - 100 ml	1		
65	TSI media / merck/ Oxoid/ 500 g	1		
66	Tween 20 BDH/Sigma/Merck 500-ml	1		
67	Tween 80 BDH/Sigma/Merck 500-ml	1		
68	WBC Couting Solution/ Merck/ Medline/Dia-chem - 1 Liter	1		
69	XLD Agar- Merck/Oxoid/- 500 g	1		
70	Xylene-4 / Bio-Optica/ PanReac/- 1 Liter	1		
Grand Total PKR				

3.3.3.4 Financial Proposal Form Price Schedule for Glassware (Inclusive of all applicable taxes/duties)

S.No	Description	Qty	Unit Price(PKR)	Total Price (PKR)
Glassware & Chemicals for Agronomy				
1	Beakers 25ml Pyrex Each	4		
2	Beakers 50ml Pyrex Each	48		
3	Beakers 100ml Pyrex Each	48		
4	China dish 60cc each Small Each	48		
5	Conical Flask 100ml Pyrex Each	48		
6	Graduated Cylinder 50ml China Each	48		
7	Graduated Cylinder 100ml China Each	48		
8	Pestle and Mortar 5 inch set	48		
9	Reagent bottle 250ml Narrow Mouth, China Each	48		
10	Test Tube Stand Large Each	48		
11	Test Tubes (10 ml) China Each	48		
12	Volumetric Flask 250ml China Each	48		
13	Wash Bottles 250ml China Each	48		
Agriculture/Che Deptt				
1	3-neck round bottom flask 100ml pyrex	8		
2	3-neck round bottom flask 250ml pyrex	8		
3	2- neck angled round bottom 250ml pyrex	8		
4	1- neck round bottom 250ml pyrex	8		
5	Volumetric Flask 250ml pyrex	8		
6	Volumetric Flask 1000ml pyrex	8		
7	Beaker 10ml pyrex	20		
8	Beaker 25ml pyrex	60		
9	Beaker 50ml pyrex	40		
10	Beaker 100 ml pyrex	40		
11	Beaker 250ml pyrex	20		
12	Beaker 500ml pyrex	20		
13	Erlenmeyer Flasks 100ml pyrex	20		
14	Erlenmeyer Flasks 250ml pyrex	20		
15	Erlenmeyer Flasks 500ml pyrex	16		
16	Erlenmeyer Flasks (1L) pyrex	16		
17	Graduated Cylinder 50ml pyrex	16		
18	Graduated Cylinder 100ml pyrex	12		
19	Pipette fixed volume (glass) 0.5 ml Germany	12		
20	Pipette fixed volume (glass) 5 ml Germany	12		
21	Pipette fixed volume (glass) 10 ml Germany	12		
22	Burette 50ml pyrex	12		
23	Iron stands Local	12		
24	Spirit lamp Local	20		

S.No	Description	Qty	Unit Price(PKR)	Total Price (PKR)
25	Steel Spatula (15cm) Local	20		
26	Funnel 60mm china	4		
27	Glass funnel 90mm china	4		
28	Filtering flask 100ml pyrex	8		
29	Filtering flask 250ml pyrex	8		
30	Filtering flask 500ml pyrex	8		
31	Filtering flask 1000ml pyrex	8		
32	Sintered funnel with filtering assembly 1-litre pyrex	4		
33	Separating Funnel with PTFE stopcock 125ml pyrex	8		
34	Separating Funnel with PTFE stopcock 250ml pyrex	4		
35	Separating Funnel with PTFE stopcock 500ml pyrex	4		
36	Buchner funnel 80mmchina	8		
37	Magnetic bar/stirrer 12mm china	12		
38	Magnetic bar/stirrer 25mm china	12		
39	Adopter/connector 14/23,19/26 Quickfit/ pyrex	8		
40	Adopter/connector 14/23,24/29 Quickfit/ pyrex	8		
41	Condenser (medium length) 300mm Quickfit/ pyrex	4		
42	Condenser (medium length) 500mm Quickfit/ pyrex	4		
43	Stoppers (solid) 29/32china	40		
44	Stoppers (solid) 34/35china	40		
45	Safety Goggles Good Quality China	12		
46	Glass sample bottle with blue cap 100 ml pyrex	48		
47	Glass sample bottle with blue cap 250 ml pyrex	400		
48	Test tube holdersLocal	4		
49	Wash Bottle plastic 250ml Good Quality China	20		
50	Pipette filler/sucker Germany	8		
51	Falcon tubes 15-ml china Pack of 100	4		
52	Plastic gloves pack of 100 -pkts	8		
53	Petri dishes (4 inches) Pair Germany	20		
54	Reagent Bottle 250ml N/M china	20		
55	Tips for micropipette yellow 200-ul china -pkt	4		
56	Tripod stand Local standard size	12		
Glassware for Entomology				
S.No	**Description**	**Qty**		
1	Filter Paper Sheet (Pack of 100) Brazil – pkts	8		
2	Glass Slides China -pkts	20		
3	Cover slip China -pkts	8		
4	Concave Mirror, 1.5" Diameter, 200mm Focal Length - Round - Glass - 3mm Thick Approx.	8		
5	Plastic Petri Dishes (Large 100 X 20 mm) China each	1200		
6	Beaker (500 ml) Pyrex each	24		
7	Beaker (100 ml) Pyrex each	24		

S.No	Description	Qty	Unit Price(PKR)	Total Price (PKR)
8	Appendorf tubes 1.5 ml China pack	8		
9	Falcons tubes 15 ml Pack of 100 China	4		
10	Petri dished (6 inch dia) Germany/Pyrex pair	176		
Soil Sciences				
S.No	**Description**	**Qty**		
1	Culture bottle 1000 ml Pyrex	12		
2	Culture bottle 500 ml Pyrex	12		
3	Culture bottle 250 ml Pyrex	12		
4	Culture bottle 100 ml Pyrex	20		
5	Conical flask 100 ml Pyrex	96		
6	Petri plates (6 inch dia) Each	1000		
7	Test tubes (15 ml) Each	400		
8	Volumetric flask 250 ml Pyrex	24		
9	Volumetric flask 500 ml Pyrex	20		
10	Beaker 100ml	24		
11	Beaker 500ml	24		
12	Micropipette (glass) 10ul, 20ul, 50ul, 100ul, 500ul, 1000µL	4 each		
13	Wash bottle 250 ml	20		
14	Falcon tube 50ml; pack of 100	4		
Agriculture PBG				
S.No	**Description**	**Qty**		
1	Reagents Bottles (125 ml) China	24		
2	Reagents Bottles (250 ml) China	24		
3	Reagents Bottles (500 ml) China	24		
4	Reagents Bottles (1000 ml) China	24		
5	Volumetric flask (100 ml) Pyrex	24		
6	Volumetric flask (250 ml) Pyrex	48		
7	Volumetric flask (500 ml) Pyrex	48		
8	Volumetric flask (1000 ml) Pyrex	40		
Geology /Earth Sciences				
1	Weighing Balance 1g - 10 kg Digital china	12		
2	Thermometer 360C zeal each	20		
3	Iron stands Local standard	20		
4	Glass funnel 90mmchina	20		
5	Volumetric Flask 1000ml pyrex	20		
6	Volumetric Flask 250ml pyrex	20		
7	Burette 50ml pyrex	16		
8	Beaker 50ml pyrex	20		
9	Beaker 100ml pyrex	20		
10	Beaker 250ml pyrex	20		
11	Graduated Cylinder 100ml pyrex	20		

S.No	Description	Qty	Unit Price(PKR)	Total Price (PKR)
12	Graduated Cylinder 50ml pyrex	20		
13	Wash bottle 250 ml	16		
14	Test tubes 15ml	20		
Agriculture/Horticulture				
S.No	**Description**	**Qty**		
1	Test tube stands stanndard	20		
2	Volumertic flask 1000ml	48		
3	Volumertic flask 500ml	48		
4	Reagent bottles 1000ml	24		
5	Beakers 500ml	24		
6	Appendrof tube pack of 500- kts	20		
7	Peritplate each (6 inch dia)	200		
8	Falcon tubes 15 ml pack of 100	8		
Microbiology				
S.No	**Description**	**Qty**		
1	Glass Slides pkts	20		
2	Cover slip pkts	20		
2	Test Tubs each 15 ml	96		
3	Eppenclorf Tubes pack of 500 -pkts	4		
3	Syringe Filter Sterile 0.2µm Bio Analyse UK 50 filter/pack- pkts	4		
4	Aluminium Foil Diamond- pkts	12		
4	Nitrile Surgical gloves -pkts	8		
5	Latex Gloves-pkts	8		
5	Wire loops handles + wires	16		
6	Conical Flasks 2000 ml Pyrex	16		
6	Conical Flasks 1000 ml Pyrex	16		
7	Conical Flasks 500 Pyrex	16		
7	Conical Flasks 250 ml Pyrex	16		
8	Conical Flasks 100 ml Pyrex	16		
8	Measuring Cylinder 1000 ml Pyrex	8		
9	Measuring Cylinder 250 ml Pyrex	8		
9	Measuring Cylinder 500 ml Pyrex	8		
10	Measuring Cylinder 100 ml Pyrex	8		
10	Reagent bottle Screw Ca 1000ml Germany/US/China	20		
11	Reagent bottle Screw Cap 500ml Germany/US/China	20		
11	Reagent bottle Screw Cap 250 ml Germany/US/China	20		
12	Reagent bottle Screw Cap 100ml Germany/US/China	20		
12	Beakers 1000 ml Pyrex	12		
13	Beakers 500 ml Pyrex	12		
13	Beakers 250 ml Pyrex	12		
14	Beaker 100 ml Pyrex	12		

S.No	Description	Qty	Unit Price(PKR)	Total Price (PKR)
14	Glass Peteri Dishes Pyrex (6 insh dia)	120		
15	Glass Test Tubes 12 x 75 Pyrex	8		
15	Falcon Tube 15ml Extra Gene USA	4		
16	Falcon Tube 50ml Extra Gene USA	4		
16	Funnels 75mm China	4		
17	Glass Pipettes 10ul, 20ul, 50ul, 100ul, 500ul, 1000ul	10 each		
18	Spirit Lamp China standard	24		
18	Test Tubes rackes Extra Gene USA	20		
19	Eppendrop rack (1.5 mL) Extra Gene USA	12		
19	Micropipette Blue Tips 1000µL (1000Tips/pkt) China	8		
20	Micropipette YellowTips 100µL (1000Tips/pkt) China	8		
20	Whatman No. 1 Filter Paper pkts	4		
Grand Total PKR				

3.3.4. Contract Form

THIS AGREEMENT made the _____ day of _____ 2021 between The University of Haripur (hereinafter called “the Procuring Agency (PA)”) of the one part and [name of Supplier] (hereinafter called “the Supplier”) of the other part:

WHEREAS the PA invited bids for certain Goods and has accepted a bid by the Supplier for the supply of those Goods in the sum of [contract price in words and figures] (hereinafter called “the Contract Price”.)

NOW THIS AGREEMENT WITNESSE AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and constructed as part of this agreement, viz.:
    a. The Bid Form and the Price Schedule submitted by the Bidder;
    b. The Schedule of Requirements;
    c. The Technical Specifications;
    d. The General Conditions of Contract;
    e. The Special Conditions of Contract;
    f. The PA’s Notification of Award.
3. In consideration of the payments to be made by the PA to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the PA to provide the Goods and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The PA hereby covenants to pay the Supplier in consideration of the provision of the goods the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____ the for the PA)

Signed, sealed, delivered by _____ the for the Supplier)

3.3.5. FORM OF INTEGRITY PACT

Contract No: _____

Dated: _____

Contract Value: _____

Contract Title: _____

…… [Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from The University of Haripur (UOH) or any administrative subdivision or agency thereof or any other entity owned or controlled by UOH through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from UOH, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with UOH and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to UOH under any law, contract or other instrument, be voidable at the option of UOH.

Notwithstanding any rights and remedies exercised by UOH in this regard, [name of Supplier] agrees to indemnify UOH for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to UOH in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from UOH.

Name of PA_____	**Name of Seller**_____
Signature:_____	**Signature**:_____
[Seal]	**[Seal]:**

3.3.7. Performance Security

(On Non Judicial Stamp Paper of the Government of Pakistan of appropriate value)

Guarantee No. _____
Date of Issue _____
Date of Expiry _____
Amount Secured _____

To
The Project Coordinator
UOH-HEC Development Project, Directorate of P&D
The University of Haripur

WHEREAS _____ (hereinafter called "the Contractor") has undertaken in pursuance of Contract to execute

_____

_____
(hereinafter called "the Contract").

AND WHEREAS it has been stipulated in the said Contract that the Contractor shall furnish a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract.

NOW THEREFORE, we (the bank) _____ hereby affirm that we are the Guarantor and responsible, on behalf of the Contractor, up to a total of Rs.

_____ (Rupees _____ only) such sum being payable in the types and proportions of such currencies in which the Contract Price is payable, and we undertake to pay, upon first written demand and without cavil or argument, any sum or sums within the limits of Rs_____ (Rupees _____ only) as aforesaid without needing to prove or to show grounds or reasons for demand of the sum specified therein.

We hereby waive the necessity of demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of items of the Contract or of the work to be performed there under or any of the Contract Documents which may be made between The University of Haripur and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall remain valid and in full effect up to the date of issuance of Taking Over Certificate or Works i. e. up to _____.

We further agree to replace this guarantee with a fresh guarantee 60 days prior to the date of expiry of the guarantee being replaced, for an amount equivalent to 50% of the amount of Performance Security valid from the date of issuance of Taking Over Certificate up to eight four (84) calendar days after issuance of Defects Liability Certificate. If the guarantee is not replaced 30 days prior to the expiry of this guarantee, The University of Haripur shall have the right to call for encashment without any rhyme or reason.

SIGNATURE AND SEAL OF THE GUARANTOR

Date _____

3.3.8. FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the “Agreement”) made on the _____ day of _____2021_____between_____ (hereafter called the “Employer”) of the one part and _____ (hereafter called the “Contractor”) of the other part.

WHEREAS the Employer is desirous that certain procurement, viz _____ should be executed by the Contractor and has accepted a Tender by the Contractor for the execution and completion of such procurement and the remedying of any defects therein.

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any except those parts relating to Instructions to Tenderers shall be deemed to form and be read and construed as part of this Agreement, viz:
    (a) The Letter of Acceptance
    (b) The Contract Data
    (c) Conditions of Contract
    (d) Schedules to Tender
    (e) Specifications
    (f) Tendering Data
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the procurement process of IT equipment’s and remedy defects therein in conformity and in all respects within the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the procurement process of IT equipment’s as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed the day and year first before written in accordance with their respective laws.

The Common Seal of _____was hereunto affixed in the presence of: or

Signed, Sealed and Delivered by the said _____ in the presence of:

Binding Signature of Employer_____

Binding Signature of Contractor_____

3.3.9. UNDERTAKING

I have read the terms and conditions thoroughly regarding "Tender dated _____, I hereby undertake to abide by these terms & conditions in letter and spirit. In case of false, fake information or documents, I shall be liable to disqualification and subsequently my CDR be forfeited by the Procuring Entity.

Signature: _____

Name of Authorize Person: _____

Company/Firm Name: _____

Seal: _____