BABA GURU NANAK UNIVERSITY NANKANA SAHIB



BIDDING DOCUMENTS FOR

Purchase of Science Lab Equipment

Tender No. BGNU/Tender/2024-25/03

Table of Contents

SECTION-I: INVITATION TO BIDS	5
1.1 INVITATION TO BIDDERS	5
SECTION-II: INSTRUCTIONS TO BIDDERS (ITB)	5
2.1. INTRODUCTION	6
2.1.1 Scope of Bid	6
2.1.2 Source of Funds	
2.1.3 Eligible Bidders	6
2.1.4. Eligible Goods and Services	
2.1.5. Cost of Bidding	
2.1.6. One person one bid	9
2.2. The Bidding Documents	
2.2.1. Content of Bidding Documents	9
2.2.2. Clarification of Bidding Documents	10
2.2.3. Amendment of Bidding Documents	
2.3. PREPARATION OF BIDS	12
2.3.1. Language of Bid	12
2.3.2. Bid Form	
2.3.3. Bid Prices	
2.3.4. Bid Currencies	
2.3.5. Documents Establishing Bidder's Eligibility and Qualification	
2.3.6. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents	
2.3.7. Bid Security	
2.3.8. Period of Validity of Bids	
2.3.9. Format and Signing of Bid	
2.4. SUBMISSION OF BIDS	
2.4.1 Sealing and Marking of Bids	
2.4.2 Deadline for Submission of Bids	
2.4.3. Late Bids	
2.4.4. Modification and Withdrawal of Bids	
2.5. OPENING AND EVALUATION OF BIDS	
2.5.1. Opening of Bids by the Procuring Agency	
2.5.2. Confidentiality	
2.5.3. Clarification of Bids	
2.5.4. Preliminary Examination	
2.5.5. Examination of Terms and Conditions; Technical Evaluation	
2.5.6. Correction of Errors	
2.5.7. Conversion to Single Currency	
2.5.8. Post-Qualification & Evaluation of Bids	
2.5.9. Contacting the Procuring Agency	
2.5.10. Grievance Redressal	
2.6. Award of Contract	
2.6.1. Notification of Award	
2.6.2. Performance Guarantee	
2.6.3. Signing of Contract/Issuance of Purchase Order	
2.6.4. Award Criteria	
2.6.5. Procuring Agency's Right to Vary Quantities at Time of Award	
2.6.6. Procuring Agency's Right to Accept or Reject All Bids	
2.6.7. Re-Bidding	

2.	6.8. Corrupt or Fraudulent Practices	
SECT	ION-III. TECHNICAL SPECIFICATIONS	29
3.1. T	FECHNICAL SPECIFICATIONS	29
SECT	ION-IV: BID DATA SHEET	44
	ION-V: GENERAL CONDITIONS OF CONTRACT	
1. DE	FINITIONS	
	PLICATION	
	UNTRY OF ORIGIN	
	ANDARDS	
5. Us	E OF CONTRACT DOCUMENTS AND INFORMATION; INSPECTION AND AUDIT BY THE PROCURING AGENCY	
6. PA	телт Rights	
7. Per	RFORMANCE GUARANTEE	
8. Ins	SPECTIONS AND TESTS	
9.	PACKING	51
10.	DELIVERY AND DOCUMENTS	51
11.	INSURANCE	
12. T	RANSPORTATION	
13.	INCIDENTAL SERVICES	
14.	Spare Parts	53
15.	WARRANTY	53
16.	PAYMENT	54
17.	PRICES	54
18.	CHANGE ORDERS	54
19.	CONTRACT AMENDMENTS	
20.	Assignment	
21. S	UB-CONTRACTS	
22.	DELAYS IN THE SUPPLIER'S PERFORMANCE	
23.	LIQUIDATED DAMAGES	56
24.	TERMINATION FOR DEFAULT	
25.	Force Majeure	
26.	TERMINATION FOR INSOLVENCY	
27.	TERMINATION FOR CONVENIENCE	
28.	RESOLUTION OF DISPUTES	
29.	GOVERNING LANGUAGE	
30.	Applicable Law	
31.	Notices	
32.	Taxes and Duties	58
SECT	ION-VI. SPECIAL CONDITIONS OF CONTRACT	59
SPECI	AL CONDITIONS OF CONTRACT	
1.		
2.		
З.	, , , , , , , , , , , , , , , , , , ,	
4.		
5.		
6.	,	
7.		
	Sample provision	
9.	-, ,	
10	D. Prices (GCC Clause 17)	60

11. Liquidated Damages (GCC Clause 23)	
12. Resolution of Disputes (GCC Clause 28)	
13. Governing Language (GCC Clause 29)	
14. Applicable Law (GCC Clause 30)	
15. Notices (GCC Clause 31)	
SECTION-VII. SCHEDULE OF REQUIREMENTS	
SECTION-VIII: SAMPLE FORMS	
8.1 BID FORM	77
8.4. BIDDER PROFILE FORM	
8.5. GENERAL INFORMATION FORM	
8.6. AFFIDAVIT	
8.7. Performance Guarantee Form	
8.8. TECHNICAL BID FORM	
8.9. CONTRACT FORM	
8.11. BID SECURITY FORM	
SECTION IX- CHECK LIST	

Section-I: Invitation to Bids 1.1 INVITATION TO BIDDERS

Tender Notice

Bid Ref No. BGNU/Tender/2024-25/03 for Purchase of Science Lab Equipment

Baba Guru Nanak University invited e-procurement bids under PPRA Rules, on **item wise basis**, from the Bidders i.e., firms/companies/sole proprietor/ engaged in manufacturing/trading, registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax & Sales Tax). The details of the tender are given below:

S#	Tender #	Tender Name	Qty	Estimated Amount	Closing Date & Time	Opening Date & Time
1.	BGNU/24- 25/03	Purchase of Science Lab Equipment	Details in Tender Document	20 million	20-11-2024 till 11:00 AM	20-11-2024 at 11:30 AM

- Bidding shall be conducted through E-Procurement (Single Stage Two Envelope) as specified in the PunjabProcurement Rules PPRA 2014 which is open to all eligible bidders as defined in the bidding document.
- Interested eligible bidders can participate through e-procurement (https://punjab.eprocure.gov.pk/#/auth/login)
- The bidding documents containing all Terms & Conditions, requirements, Specification etc. are immediately available under Rule 25(1), free of cost, at PPRA i.e. <u>http://ppra.punjab.gov.pk</u>, EPADS website i.e. <u>http://punjab.eprocure.gov.pk</u> and http://bgnu.edu.pk.
- All bids on **item wise basis** must be uploaded through e-procurement (<u>https://punjab.eprocure.gov.pk/#/auth/login</u>) before closing date and time.
- E-bids would be opened under PPRA Rule 30(1) in presence of bidders or their representatives.
- All Bids must be accompanied by a Bid Security of **2%** of the estimated price in the form of CDR/ Demand Draft / Pay Order in favor of "Treasurer, Baba Guru Nanak University, Nankana Sahib". The bidder must submit original Bid Security at the time of opening of E-bids.
- Bid Validity will be 120 days.
- Baba Guru Nanak University, Nankana Sahib will not be responsible for any cost or expense incurred by Bidders in connection with the preparation or delivery of sample and original Bid security.
- In case of official holiday on the day of submission, next day will be treated as closing date.

Secretary Purchase Committee

Baba Guru Nanak University, Nankana Sahib.

Ph.056-9201171, www.bgnu.edu.pk Email: treasurer@bgnu.edu.pk

Section-II: Instructions to Bidders (ITB)

2.1. Introduction

2.1.1 Scope of Bid	i)	Baba Guru Nanak University, Nankana Sahib invites Bids for the provision of Goods as specified in the Section-IV Bid Data Sheet (BDS) and Section III - Technical Specifications & Section VII- Schedule of Requirements. The successful Bidders will be expected to deliver, install / commissioning the goods within the specified period and timeline(s) as stated in the BDS.
2.1.2 Source of Funds	i)	Baba Guru Nanak University, Nankana Sahib has available Regular Budget. The University intends to apply the provided funds / a portion of this budget to make eligible payments under the contract for which the Invitation to bids has been issued.
2.1.3 Eligible Bidders	i)	The Invitation to Bids is open to companies/sole proprietor/ registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax & Sales Tax & Punjab Sales Tax etc.)
	ii)	Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by Baba Guru Nanak University to provide consultancy services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation to Bids [if applicable].
	iii)	Government-owned enterprises may participate only if they are duly/legally authorized in this regard by the respective/relevant competent forum/authority.
	iv)	Bidders shall not be under a declaration of blacklisting by any Government department/other Procuring Agency or by Punjab Procurement Regulatory Authority (PPRA). During the Procurement Process / execution of the Contract, if the firm/ bidder is blacklisted by any Government department/other Procuring Agency or by Punjab Procurement Regulatory Authority (PPRA), if such blacklisted bidder wants to execute the contract awarded after its blacklisting, the bidder/ firm shall provide 100% Bank Guarantee against the awarded

Contract value and in case the bidder regret to do so then the Procuring Agency may proceed with second lowest evaluated bidder.

- A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be non-Responsive. A Bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if they:
 - a) Are associated or have been associated for the procurement of the goods to be purchased under this Invitation for Bids, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used.
 - b) Have controlling shareholders in common; or
 - c) Receive or have received any direct or indirect subsidy from any of them; or
 - d) Have the same legal representative for purposes of this Bid; or
 - e) Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or

xii) A Bidder may be ineligible if -

- (a) The Bidder is declared bankrupt or, in the case of company or firm, insolvent;
- (b) Payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting, in accordance with the national laws, in the total or partial loss of the right to administer and dispose of its property;
- (c) Legal proceedings are established against such Bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation

entailing the total or partial loss of the right to administer and dispose of the property;

- (d) The Bidder is convicted, by a final judgment, of any offence involving professional conduct;
- (e) The Bidder is debarred and blacklisted due to involvement in corrupt and fraudulent practices in accordance with the provision of section 17A of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014.
- (f) The Bidder is debarred and blacklisted in general (i.e., to the extent of all public procurement) due to consistent performance failure in accordance with the section 17A of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014.
- (g) The firm, supplier and contractor are blacklisted/ debarred by any international organization.
- xiii) Bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.
- xiv) Bidders shall provide such evidence of their continued eligibility satisfactory to the Procuring Agency, as the Procuring Agency shall reasonably request.
- **2.1.4. Eligible**i)All goods and related services to be supplied under the**Goods and Services**Contract shall have their origin in eligible source countries,
defined in the *Bid Data Sheet (BDS/Technical Specification)*,
 - ii) For purposes of this clause, "origin" means the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially-recognized product is obtained that is substantially different in basic characteristics or in purpose or utility from its components.

	iii)	The origin of goods and services is distinct from the nationality of the Bidder. <i>In any case, the requirements of Rules 10 & 26 of PPR-14, shall be followed.</i>
2.1.5. Cost of Bidding	i)	The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Baba Guru Nanak University, Nankana Sahib hereinafter referred to as "the Procuring Agency," will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.
2.1.6. One person one bid	i)	As per Rule 36A of Punjab Procurement Rules 2014, a Bidder shall submit only one Bid in the same bidding process individually as a Bidder.

2.2. The Bidding Documents

2.2.1. Content of Bidding Documents	(a) T	he goods required, Bidding procedures, and contract terms are prescribed in the Bidding documents. The Bidding documents, inter alia, include:
	(b)	Invitation to Bids
	(c)	Instructions to Bidders (ITB)
	(d)	Technical Specifications
	(e)	Bid Data Sheet
	(f)	General Conditions of Contract (GCC)
	(g)	Special Conditions of Contract (SCC)
	(h)	Schedule of Requirements
	(i)	Bid Form
	(j)	Manufacturer's Authorization Form
	(k)	Bidder Profile Form
	(I)	General Information Form
	(m)	Affidavit

- (n) Bid Security Form
- (o) Technical Bid Form
- (p) Contract Form
- (q) Financial Bid Form / Price Schedule
- (r) Performance Guarantee Form
- (s) Check List
- (t) The Bidder is required to examine all instructions, forms, terms, and specifications in the Bidding documents. Failure to furnish all information as required by the Bidding documents or to submit a Bid not responsive to the Bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its Bid.
- In case of discrepancies between the Invitation to Bid and the Bidding Documents listed in ITB 2.2.1 (i) above, the said Bidding Documents, not in conflict with any provision of PPR-14, will take precedence.
- (v) The Procuring Agency is not responsible for the completeness of the Bidding Documents and their addenda, if they were not obtained directly from the Procuring Agency or from its website or website of PPRA. Re-confirming from the Procuring Agency that all pages/ contents have been properly and clearly received is the prime responsibility of the Bidder.
- 2.2.2. Clarification

 A prospective Bidder requiring any clarification of the Bidding documents may notify the Procuring Agency in writing or by email at the Procuring Agency's address indicated in Invitation to Bid/ Tender Notice/ Advertisement. The Procuring Agency will respond in writing to any request for clarification of the Bidding documents which it receives no later than seven (7) days prior to the deadline for the submission of Bids prescribed in the Bid Data Sheet. Written copies of the Procuring Agency's response (including an explanation of the query but without identifying) will be sent to all prospective Bidders that have received the Bidding documents.

- A prospective Bidder requiring any clarification of the Bidding Documents may notify the Procuring Agency in writing or in electronic form that provides record of the content of communication at the Procuring Agency's address indicated in the BDS.
- iii) The Procuring Agency will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than seven (7) days prior to the deadline for the submission of Bids. As prescribed in ITB 2.2.2 (i), above. However, this clause shall not apply in case of alternate methods of Procurement.
- iv) Copies of the Procuring Agency's response will be uploaded on the website of procuring agency on given date and forwarded to identified Prospective Bidders through an expeditious identified source of communication, e.g.: e-mail etc., including a description of the inquiry, but without identifying its source.
- Should the Procuring Agency deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB 2.2.3.
- vi) If indicated in the BDS, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned in the BDS. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding Documents.
- 2.2.3. Amendment

 At any time prior to the deadline for submission of Bids, but not later than three (3) days before the closing date of the submission of Bid, the Procuring Agency, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the Bidding documents by amendment. Any such change/amendment in the Bidding documents shall be provided in a timely manner, preferably through electronic means also, not later than three (3) days, and on equal opportunity basis as per Rule-25(3) OR Rule 25(4) of PPR-14 as the case may be.
 - In order to allow prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Agency, at its discretion, may extend the deadline

for the submission of Bids, as per rule 29 of PPR-14, in the manner similar to the original advertisements, so as to avoid any inconvenience and to doubly ensure level playing field for all prospective bidders.

2.3. Preparation of Bids

2.3.4. Bid

Currencies

- 2.3.1. Language of i) The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Agency shall be written in the language specified in the Bid Data Sheet. Supporting documents and printed literature furnished by the Bidder may be in same language.
- 2.3.2. Bid Form

 The Bidder shall complete the Bid Form and the appropriate Price Schedule (Financial Bid) furnished in the Bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.
- 2.3.3. Bid Prices i) The Bidder shall indicate on form 8.10 the unit prices (where applicable) and total Bid price of the goods it proposes to supply under the contract.
 - ii) Prices indicated on the Price Schedule shall be item wise.
 - iii) The Bidder's separation of price components in accordance with ITB Clause 2.3.3(ii) above will be solely for the purpose of facilitating the comparison of Bids by the Procuring Agency and will not in any way limit the Procuring Agency's right to contract on any of the terms offered.
 - iv) Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet.
 A Bid submitted with an adjustable price quotation will be treated as non-responsive and may be rejected.
 - i) Prices shall be quoted in **Pak Rupees**.
- 2.3.5. Documents

 Pursuant to ITB Clause 2.1.3, the Bidder shall furnish, as part of its Bid, documents establishing the Bidder's eligibility to Bid and its qualifications to perform the contract if its Bid is accepted.

- ii) The documentary evidence of the Bidder's eligibility to Bid shall establish to the Procuring Agency's satisfaction that the Bidder, at the time of submission of its Bid, is eligible as defined under ITB Clause 2.1.3.
- iii) The documentary evidence, of the Bidder's qualifications to perform the contract if its Bid is accepted, shall establish to the Procuring Agency's satisfaction:
 - (a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer or producer to supply the same in Pakistan;
 - (b) that the Bidder has the financial, technical, and production capability necessary to perform the contract;
 - (c) that the Bidder meets the qualification criteria listed in the Bid Data Sheet.
- Pursuant to ITB Clause 2.1.4, the Bidder shall furnish, as part of its Bid, documents establishing the eligibility and conformity to the Bidding documents of all goods and related services which the Bidder proposes to supply under the contract.
 - ii) The documentary evidence of the eligibility of the goods and services shall consist of a statement in the Price Schedule/Financial Bid Form of the country of origin of the goods and services offered which shall be confirmed by a Certificate of Origin issued at the time of shipment.
 - iii) The documentary evidence of conformity of the goods and services to the Bidding documents may be in the form of literature, drawings, data and shall consist of:
 - (a) a detailed description of the essential technical and performance characteristics of the goods;
 - (b) an item-by-item commentary on the Procuring Agency's Technical Specifications demonstrating responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.

2.3.6. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

- iv) For purposes of the commentary to be furnished, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring Agency in its Technical Specifications, are intended to be descriptive only and not restrictive.
- v) Sample is required, which shall be:
 - (a) submitted as part of the bid, in the quantities, dimensions and other details requested in the **BDS**;
 - (b) carriage paid;
 - (c) received on, or before, the closing time and date for the submission of bids; and
 - (d) Evaluated to determine compliance with all characteristics listed in the **BDS**.
 - (e) evaluated on the basis of weight, Texture, whiteness and smoothness of the sample paper
- vi) The Procuring Agency may retain the sample(s) of the successful Bidder till the successful delivery of the goods. A Procuring Agency may reject the Bid if the sample(s)-
 - (a) do(es) not conform to all characteristics (Quality, Gauge, Workmanship) prescribed in the bidding documents; and
 - (b) is/are not submitted within the specified time clearly mentioned in the Bid Data Sheet.
- vi) Pursuant to the requirements as indicated in ITB 2.3.6, the Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all goods and related services which the Bidder proposes to deliver.
- vii) The required documents and other accompanying documents must be in English.
- i) The Bidder shall furnish, as part of its Bid, a Bid security in the amount specified in the Bid Data Sheet.
 - ii) The Bid security is required to protect the Procuring Agency against the risk of Bidder's conduct which would warrant the security's forfeiture Pursuant to ITB Clause 2.3.8. (vii).
- iii) The Bid security shall be in Pakistan Rupees and shall be in one of the following forms:
- Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker's cheque valid for 3(three) months beyond the validity of bids.

2.3.7. Bid Security

- v) Any Bid not secured in accordance with ITB Clauses 2.3.8 (i) and (ii) may be rejected by the Procuring Agency as non-responsive.
- vi) Unsuccessful Bidders' Bid security will be discharged or returned as promptly as possible but not later than 7 (seven) days after the expiration of the period of Bid validity prescribed by the Procuring Agency pursuant to ITB Clause 2.3.8 (ii) or along with unopened financial proposal as per rule 38(2)(a)(vii) of PPR-14, which shall take precedence, and is as under:
- vii) The successful Bidder's Bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 2.6.1, and furnishing the Performance Guarantee, pursuant to ITB Clause 2.6.2.
- viii) The Bid security may be forfeited:
 - a. If a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Bid Form; or
 - b. In the case of a successful Bidder, if the Bidder:
 - i. Fails to sign the contract in accordance with ITB Clause 2.6.3; **or**
 - ii. Fails to furnish Performance Guarantee in accordance with ITB Clause 2.6.2; or
 - iii. If the blacklisting proceedings under Section-17A of PPRA Act, 2009 read with Rule-21 of PPR-14 are initiated and the bidder is declared blacklisted after due process of law.
- bids shall remain valid for the period specified in the Bid Data Sheet after the date of Bid opening prescribed by the Procuring Agency. A Bid valid for a shorter period may be rejected by the Procuring Agency as non-responsive.
 - In exceptional circumstances, the Procuring Agency may solicit the Bidder's consent to an extension of the period of validity (as per rule-28 of PPR-14). The request and the responses thereto shall be made in writing (or by email). The Bid security provided under ITB Clause 2.3.8 shall also be suitably extended. A Bidder may refuse the request without forfeiting
- 2.3.8. Period of Validity of Bids

its Bid security. A Bidder accepting the request will not be required nor permitted to modify its Bid.

- **2.3.9.** Format and i) The Bidder shall prepare an original Bid.
 - The Bidder shall authorize a person/ person for signing, submission and further correspondence with Procuring Agency on behalf of bidder. Authority letter must be part of bid. However, in case of any issue bidder shall be responsible for all consequences.
 - iii) The Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person duly authorized to bind the Bidder to the contract. All pages of the Bid, shall be signed and stamped by the authorized person.
 - iv) Any interlineation, erasures, or overwriting shall be valid only if they are initialed by the authorized person for signing the Bid.
 - v) The Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid, shall be signed and stamped by the authorized person.
 - vi) Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person or persons signing the Bidder.
 - vii) The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid and to contract execution if the Bidder is awarded the contract.

2.4. Submission of Bids

Signing of Bid

- 2.4.1 Sealing and i) As per Rule 24, the Bid will be uploaded secretly.Marking of Bids
 - ii) The Bid shall:

- a. be addressed to the Procuring Agency at the address given in the Bid Data Sheet; and
- b. bear the title of procurement Activity indicated in the Bid Data Sheet, the Invitation to Bids (ITB) title and number indicated in the Bid Data Sheet, and a statement: "DO NOT OPEN BEFORE.... (Time and date)," [to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.4.2.]
- iii) 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".
- iv) If the outer envelope is not sealed and marked as required by ITB Clause 2.4.1 (i), the Procuring Agency will assume no responsibility for the Bid's misplacement or premature opening.
- v) In case of Single Stage Two Envelope Procedure, The Bid shall comprise of two proposals submitted simultaneously, one called the Technical Proposal and the other Financial Proposal. Each Bidder shall submit his bid online as under:
 - a) Bidder shall submit his TECHNICAL PROPOSAL and FINANCIAL PROPOSAL online through e-pads separately against each Lot for which the bidder is participating.
- vi) The Proposals shall:
 - a) be addressed to the Procuring Agency at the address provided in the BDS;
 - b) bear the name and identification number of the contract as defined in the BDS; and provide a warning not to open before the time and date for bid opening, as specified in the BDS, pursuant to ITB 2.4.2;
- Bids must be uploaded by the bidder against each lot for which bids are desired by procuring agency no later than the time and date specified in the Bid Data Sheet. Original Bids Security will be submitted at the address specified no later than the time and date specified.
- 2.4.2 Deadline for Submission of Bids

- ii) The Procuring Agency may, at its discretion and as per rule 29 of PPR-14, extend this deadline for the submission of Bids by amending the Bidding documents in accordance with ITB Clause 2.2.2 & 2.2.3 in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
- iii) Bids shall be received by the Procuring Agency at the address specified under BDS no later than the date and time specified in the BDS.
- 2.4.3. Late Bidsi) No Bid will be uploaded after the deadline for submission of Bids prescribed by the Procuring Agency pursuant to ITB Clause 2.4.2 will be rejected.
 - ii) The Procuring Agency shall not consider for evaluation any Bid that will be contrary to the desired lots.
 - iii) Any original Bid security received by the Procuring Agency after the deadline for submission of Bids shall be declared late, recorded, rejected and returned unopened to the Bidder.
- 2.4.4. Modification and Withdrawal of Bids
- The Bidder may modify or withdraw its Bid after the Bid's submission, provided that written notice of the modification, including substitution or withdrawal of the Bids, is received by the Procuring Agency prior to the deadline prescribed for submission of Bids.
- The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of Clause (i) A withdrawal notice may also be sent by email, but followed by a signed confirmation copy, postmarked no later than the deadline for submission of Bids.
- iii) No Bid may be modified after the deadline for submission of Bids.
- iv) No Bid may be withdrawn in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Bid Form. Withdrawal of a Bid during this interval may result in the Bidder's forfeiture of its Bid security (along with other remedies available under PPR-14), pursuant to the ITB Clause 2.3.8 (vii).
- v) A Bidder may withdraw its Bid after it has been submitted, provided that written notice of the withdrawal of the Bid, is

received by the Procuring Agency prior to the deadline for submission of Bids.

vi) Revised bid may be submitted after the withdrawal of the original bid before the deadline for submission of Bids.

2.5. Opening and Evaluation of Bids

2.5.1. Opening of Bids by the Procuring Agency

- The Procuring Agency will open all Bids online, in public, in the presence of Bidders' or their representatives who choose to attend, and other parties with a legitimate interest in the Bid proceedings at the place, on the date and at the time, specified in the BDS. The Bidders' representatives present shall sign a register/attendance sheet as proof of their attendance.
- First, files marked "WITHDRAWAL" shall be opened and read out and the file with the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding Withdrawal Notice contains a valid authorization to request the withdrawal and is read out at bid opening.
- iii) Second, file marked "SUBSTITUTION" shall be opened. The file containing the Substitution Bid shall be exchanged for the corresponding Original Bid being substituted, which is to be returned to the Bidder unopened. No file shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.
- iv) Next, file marked "MODIFICATION" shall be opened. No Technical Proposal and/or Financial Proposal shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of the Bids. Any Modification shall be read out along with the Original Bid except in case of Single Stage Two Envelope Procedure where only the Technical Proposal, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Proposal, both Original and Modification, will remain unopened till the prescribed financial bid opening date.
- v) In case of Single Stage Two Envelope Procedure, the Procuring Agency will open the Technical Proposals in public at the address, date and time specified in the **BDS** in the

presence of Bidders' designated representatives who choose to attend and other parties with a legitimate interest in the Bid proceedings. The Financial Proposals will remain unopened and will be held in custody of the Procuring Agency until the specified time of their opening.

- vi) The files holding the Technical Proposals shall be opened one at a time, and the following read out and recorded: (a) the name of the Bidder (b) the presence of a Bid Security (c) Any other details as the Procuring Agency may consider appropriate.
- vii) Bidders are advised to send in a representative with the knowledge of the content of the Bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent Bidder's representative shall indemnify the Procuring Agency against any claim or failure to read out the correct information contained in the Bidder's Bid.
- viii) No Bid will be rejected at the time of Bid opening except for late Bids which will be returned unopened to the Bidder, pursuant to 2.4.3 (i).
 - ix) The Procuring Agency shall prepare minutes of the Bid opening. The record of the Bid opening shall include, as a minimum: the name of the Bidder and whether or not there is a withdrawal, substitution or modification, the Bid price if applicable.
 - x) The Bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a Bidder's signature on the record shall not invalidate the contents and affect the record.
 - xi) Minutes of the Financial Bid Opening shall be recorded and uploaded by the procuring agency on its website or shared to all bidders through e-mail.
- 2.5.2. i) Information relating to the examination, clarification, evaluation and comparison of Bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with such process until the

time of the announcement of the respective evaluation report in accordance with the requirements of rule 37 of PPR-14.

- ii) Any effort by a Bidder to influence the Procuring Agency processing of Bids or award decisions may result in the rejection of its Bid.
- iii) Notwithstanding ITB Clause 2.2.2 from the time of Bid opening to the time of contract award, if any Bidder wishes to contact the Procuring Agency on any matter related to the Bidding process, it should do so in writing or in electronic forms that provides record of the content of communication.
- 2.5.3. Clarification

 As per rule 33(2) of PPR-14, to assist in the examination, evaluation and comparison of Bids and post-qualification of the Bidders, the Procuring Agency may, at its discretion, ask any Bidder for a clarification of its Bid including breakdown of prices to determine its reasonability. Any clarification submitted by a Bidder that is not in response to a request by the Procuring Agency shall not be considered.
 - ii) The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication. In case of Single Stage Two Envelope Procedure, no change in the prices or substance of the Bid shall be sought, offered, or permitted.
 - iii) The alteration or modification in The Bid which in any way affect the following parameters will be considered as a change in the substance of a bid:
 - a) Evaluation & qualification criteria;
 - b) Required scope of work or specifications;
 - c) All securities requirements;
 - d) Tax requirements;
 - e) Terms and conditions of bidding documents.
 - f) Change in the ranking of the Bidder
 - iv) From the time of Bid opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bid it should do so in writing or in electronic forms that provide record of the content of communication.

2.5.4. Preliminary Examination

- The Procuring Agency 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.
- ii) Arithmetical errors will be rectified on the following basis: -
 - a. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its Bid may be rejected, and its Bid security may be forfeited.
 - b. If there is a discrepancy between words and figures, the amount in words will prevail.
- iii) Prior to the detailed evaluation, the Procuring Agency will determine the responsiveness of each Bid to the Bidding documents, pursuant to ITB Clause 2.5.5. For purposes of these Clauses, a responsive Bid is one which conforms to all the terms and conditions of the Bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, such as those concerning Bid Security (ITB Clause 2.3.8), Applicable Law (GCC Clause 30), Taxes and Duties (GCC Clause 32) & mandatory Registrations/ Renewals will be deemed to be a material deviation. The Procuring Agency's determination of a Bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.
- iv) If a Bid is not responsive, it will be rejected by the Procuring Agency and may not subsequently be made responsive by the Bidder by correction of the non-conformity.
- v) Prior to the detailed evaluation of Bids, the Procuring Agency will determine whether each Bid:
 - a) Meets the eligibility criteria defined in ITB 2.1.3 and ITB 2.1.4;
 - b) Has been prepared as per the format and contents defined by the Procuring Agency in the Bidding Documents;
 - c) Has been properly signed;

		 d) Is accompanied by the required securities; and e) Is responsive to the requirements of the Bidding Documents. The Procuring Agency's determination of a Bid's responsiveness will be based on the contents of the Bid itself.
2.5.5. Examination of Terms and Conditions; Technical	i)	The Procuring Agency shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.
Evaluation	ii)	The Procuring Agency shall evaluate the technical aspects of the Bid submitted to confirm that all requirements specified in Section III-Technical Specifications, Section VII – Schedule of Requirements & Evaluation Criteria as provided in BDS, have been met without material deviation or reservation.
	iii)	If after the examination of the terms and conditions and the technical evaluation, the Procuring Agency determines that the Bid is not responsive in accordance, it shall reject the Bid.
2.5.6. Correction of Errors	i)	 Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: - a) If there is a discrepancy between unit prices 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, unless in the opinion of the Procuring Agency there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected; b) If there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and c) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern. d) Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.
	ii)	The amount stated in the Bid will, be adjusted by the Procuring Agency in accordance with the above procedure for the correction of errors. The concurrence of the Bidder shall be considered as binding upon the Bidder. If the Bidder does not

accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bid Securing Declaration may be executed in accordance with **ITB 2.3.8**.

2.5.7. Conversion i) Not Applicable

to Single Currency

2.5.8. Post i) The Procuring Agency will determine to its satisfaction
 Qualification & whether the Bidder is qualified to perform the contract satisfactorily, in accordance with the evaluation criteria listed in BDS & pursuant to ITB Clause 2.1.3.

- ii) The determination will take into account the Bidder's financial, technical, and production/ supplying capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 2.3.6, as well as such other information required for eligibility/qualification expressed in Bid Data Sheet as the Procuring Agency deems necessary and appropriate.
- iii) The Procuring Agency will technically evaluate and compare the Bids which have been determined to be responsive, pursuant to ITB Clause 2.5.5, as per Technical Specifications required.
- iv) The financial evaluation of a Bid will be on the basis of form of Price Schedules/ Financial Bid form 8.10 to be decided by the Procuring Agency which must include clear cut instruction regarding item wise or package wise evaluation inclusive of prevailing taxes, duties, fees etc.
- 2.5.9. Contacting

 Subject to ITB Clause 2.5.3, no Bidder shall contact the Procuring Agency on any matter relating to its Bid, from the time of the Bid opening to the time the evaluation report is made public i.e., 10 days before the contract is awarded. If the Bidder wishes to bring additional information or has grievance to the notice of the Procuring Agency, it should do so in writing.
 - ii) Any effort by a Bidder to influence the Procuring Agency during Bid evaluation, or Bid comparison may result in the rejection of the Bidder's Bid.

- 2.5.10. Grievance

 As per Rule-67 of PPR-14, Procuring Agency shall constitute a Grievance Redressed Committee (GRC) comprising of odd number of persons with proper powers and authorization to address the complaints. The GRC shall not have any of the members of the Procurement Evaluation Committee. The Committee may preferably have one subject specialist depending upon the nature of the procurement in addition to one person with legal background as per their availability to the Procuring Agency.
 - ii) Any Bidder feeling aggrieved can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the Bidding documents found contrary to provision of Rule 33, and the same shall be addressed by the Procuring Agency well before the proposal submission deadline.
 - iii) Any party can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the bidding documents found contrary to provision of Rule 34 and the same shall be addressed by the Procuring Agency well before the proposal submission deadline.
 - iv) Any Bidder feeling aggrieved by any act of the Procuring Agency after the submission of his Bid may lodge a written complaint concerning his grievances not later than ten days after the announcement of the Final evaluation reports. In case of single stage - two envelope bidding procedure any bidder feeling aggrieved from technical evaluation may file a grievance within 5 days of announcement of the technical evaluation report. After completion of the technical evaluation process, the procuring agency shall immediately upload the technical evaluation report on the website of PPRA and Procuring Agency for obtaining/ receiving grievance petitions from the prospective bidders (if any).
 - v) In case, the complaint/grievance is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report.
 - vi) The **GRC shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint**. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.

2.6. Award of Contract

2.6.1. Notification of Award	i)	Prior to the expiration of the period of Bid validity, the Procuring Agency will notify the successful Bidder in writing by registered letter and by email to be confirmed in writing by registered letter, that its Bid has been accepted.
	ii)	The notification of award will constitute the formation of the Contract.
	iii)	Upon the successful Bidder's furnishing of the Performance Guarantee pursuant to ITB Clause 2.6.2 (i), the Procuring Agency will promptly notify each unsuccessful Bidder and will discharge its Bid security, pursuant to ITB Clause 2.3.8 (v).
2.6.2. Performance Guarantee	i)	Within Fifteen (15) days of the receipt of notification of award from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in accordance with the Conditions of Contract, in the Performance Guarantee Form provided in the Bidding documents, or in another form acceptable to the Procuring Agency.
	ii)	Failure of the successful Bidder to comply with the requirement of ITB Clause (i) above or ITB Clause 2.6.3 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid security along with other remedies available under PPR-14. After that, the Procuring Agency may decide to award the contract to the next lowest evaluated Bidder, keeping in view the Bid validity time, or call for new Bids keeping in view the concept of value for money as defined under rule-2(ae) read with Principles of Procurement as enunciated in rule-4 of PPR-14.
2.6.3. Signing of Contract/ Issuance of Purchase Order	i)	At the same time as the Procuring Agency notifies the successful Bidder that its Bid has been accepted, the Procuring Agency will send the Bidder the Contract Form provided in the Bidding documents, incorporating all agreements between the parties.
	::\	Linder rule 62 of DDP 14 where the Procuring Agency requires

 Under rule-63 of PPR-14, where the Procuring Agency requires formal signing of contract, within Seven (7) days of receipt of the Contract Form, the successful Bidder shall sign and mention date of the contract and return it to the Procuring Agency.

- 2.6.4. Award

 Subject to ITB Clause 2.6.2, under rule-55 of PPR-14, the
 Procuring Agency will award the contract to the successful
 Bidder whose Bid has been determined to be responsive and
 has been determined to be the lowest evaluated Bid, provided
 that the Bidder has been determined to be qualified to
 perform the contract satisfactorily.
- 2.6.5. Procuring

 i) The Procuring Agency reserves the right at the time of contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions, on the analogy of rule-59 (c)(iv) of PPR-14 (not more than 15%).
- 2.6.6. Procuring i) As per rule 35 of PPR-14, the Procuring Agency reserves the right to accept or reject all Bids or proposals (and to annul the Bidding process) at any time prior to the acceptance of any Bid or proposal, without thereby incurring any liability towards the Bidders.
 - ii) The Bidders shall be promptly informed about the rejection of the Bids, if any
 - iii) The Procuring Agency shall upon request communicate to any Bidder, the grounds for its rejection of all Bids or proposals, but shall not be required to justify those grounds.
- 2.6.7. Re-Bidding
 i) If the Procuring Agency rejects all the Bids under rule 35, it may proceed with the process of fresh Bidding but before doing that it shall assess the reasons for rejection and may, if necessary, revise specifications, evaluation criteria or any other condition for Bidders.

2.6.8. Corrupt ori)The Procuring Agency Bidders, Suppliers, and Contractors**Fraudulent**observe the highest standard of ethics during the procurement**Practices**and execution of contracts.

"Corrupt practices" in respect of procurement process, shall be as given in S-2 (d) of PPRA, Act, 2009,

ii) Blacklisting & Debarment:

Blacklisted Consultants and those found involved in "Corrupt Practices" are not allowed to participate in bidding.

Requirements & Procedure for Blacklisting & Debarment will be

As per as per S-17A of PPRA, Act, 2009 and rule 21 and sub-rule (6) of rule 21 of PPR-14

Section-III. Technical Specifications

3.1. Technical Specifications

Sr no	Item name	Specifications	Quantity
1	Compound Microscope	 Compound Biological Trinocular Digital Microscope with Camera and Software (2.0MP), Touch Screen LCD and infinite Optical System, Viewing Head Siedentop Trinocular Viewing Head, Inclined at 30, 360° Rotatable, Interpupillary 50 75mm, Light Distribution: 20:80, Eyepiece WF10K/20 Nosepiece Backward Quadruple Nosepiece Objective Infinity E-Plan objectives 4X, 10X, 40X (s), 100X 100 (s) inclined 45" interpupillary distance 5-4-75mm, Siedentop f type. Eyepiece/camera port (standard): 100/0 80/20, Fluorescence: 100/00/100 	2
2	Inverted Digital Microscope	Optical System Infinite Optical System Viewing Head Siedentop f Trinocular Head, Inclined at 45°, Interpupillary Distance 48-76mm, Light distribution (both): 100: 0 (100% for eyepiece), 80:20 (80% for trinocular head, and 20% for eyepiece), Eyepiece Tube Diameter 30mm Eyepiece Wide Field Eyepiece WF10×/ 22mm Objective Long Working Distance Infinite Plan Achromatic Objective 4×/0.11, W.D.=12.1mm Long Working Distance Infinite Plan Achromatic Phase Contrast Objective 10×/0.25, W.D.=8.3mm 20×/0.40, W.D.=7.2mm 40×/0.60, W.D.=3.4mm Nosepiece Backward Quintuple Nosepiece Condenser Long Working Distance Condenser, N.A. 0.3, Working Distance 72mm (with condenser), 195mm (without condenser) Phase Annulus 10×, 20×, 40× Phase Annulus Plate Stage Plain Stage 210(X)×240mm(Y), round slide plate: Φ110mm Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 128mm×80mm Petri Dish Holder Φ54mm Focusing Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 10mm Koehler Illumination 6V/30W Halogen Lamp, Brightness Adjustable, input voltage: 100V-240V Filter Blue Filter, Diameter 32mm Green Filter, Diameter 32mm C-mount 0.5× C-mount Adapter (focus adjustable) Epi-Fluorescent Attachment Epi- fluorescence attachment with 100W mercury	1

3 CO 2 Incubator 3 CO 2 Incubator 4 Top Loading Balance 4 Top Loading Balance 4 Top Loading Balance 4 Top Loading Balance 10 Tog Loading Balance 10 Copy Copy Carlow 100gm to 12kg	5	Analytical Balance Laboratory Freezer	 Pan size 90mm Internal calibrated Glass winds 13.60 Cubic Feet 385 Liters 	3
3 CO 2 Incubator 3 CO 2 Incubator 3 CO 2 Incubator 4 Numinity 4 Humidification Type: With 90°C moist heat decontamination function functio	4			3
lamp and B, G fluorescent filters, field diaphragm, center adjustable. STC1D-830C 8.3M/IMX274(C)	3	CO 2 Incubator	 diaphragm, center adjustable. STC1D-830C 8.3M/IMX274(C) 1/2.5"(6.22×3.50) 1.62×1.62 236mV 70dB 43dB 30@3840×2160 30@1920×1080 30@1280×720 30@960×540 1×1 1×1 1×1 0.1-20 Capacity: 50L Heating: Air jacket Temp. Range: RT+5~60°C Control Type: Temperature and humidity transmitter Temp. Fluctuation: ≤±0.2°C (at 37°C) Temp. Uniformity: ≤±0.3°C (at 37°C) Time Setting: 999h or continuous Alarm: Audible and visual alarm; Overtemperature alarm; CO2 Concentration alarm. Shelves: 2 pcs/ adjustable Material: External cold-rolled steel with painting; Internal stainless steel Door: With inner door and external door CO2 Cantrol Resolution: 0.1% Humidification Type: Water reservoir in the bottom chamber ensures high humidity (90%≤relative humidity≤99%) Sterilization Type: With 90°C moist heat decontamination function (95%<humidity≤99%rh)< li=""> Ambient Temp. & Humidity 18~30°C, suggest 25±2°C; Relative humidity ≤80% Caster: Foot master caster Consumption: 300W Power Supply: AC220V±10%, 50/60Hz (Standard); AC110V±10%, 60Hz (Optional) Internal Size(W*D*H) mm: 308*392*442 External Size(W*D*H) mm: 681*843*840 </humidity≤99%rh)<>	1

		 Dimensions (H*W*D mm): 895x1242x745 Temp Ref: 0 to 6 Balance Cooling Super Freeze Function Ref & DF Adjustable Type: Chest Freezer 160V - 260V Refrigerant: R600a 7Food Basket: 1 LED Lights: 2 Power On Indicator Climate Class: T 	
7	-86°C Ultra Low Temperature Lab Medical Freezer	Copper Evaporator: 5 sides Capacity: 158L Type: Vertical Temperature Range: -40 °c ~86 °c Temp. Accuracy 0.1 °c External Size: 700x700x1580 Internal Size: 458x430x788 Control System: Microprocessor control, LED Display and Lockable Door Gross Weight: 155kg Compressor: 1 Set Condenser and Evaporator: Made of copper Caster: 4 casters Chamber with Inner Door: 3 Shelf: 2 pcs Power Supply: AC110V/220+10% 50/50Hz.	1
8	Refrigerator & Freezer	 Glass Door Series Refrigerator Capacity: 9.4 Cu Feet / 267 Liters Technology: Static refrigeration technology, suitable for high- temperature areas Quality: Robust construction, adhering to European quality standards Compartment Design: Organized compartments to prevent mixing of odors Drawers: Easy-to-clean sliding drawers (7 drawers total) Unit Dimensions: Width: 600 mm, Depth: 650 mm, Height: 1720 mm Weight: 83 kg Refrigerant: R600a (environmentally friendly refrigerant) Warranty: 12 Years on Compressor 1 Year on Parts Climate Class: Tropical Condenser Type: Rear condenser with wire type design Foaming Type: Cyclopentane for insulation Voltage / Frequency: 160V - 260V 	2

9	Plant sampling grinding mill	 Bench top model, micro mill with double head to crush fibrous substances and cutting hard materials. To crush, grind and pulverize dry and brittle plant and other hard samples. Motor speed: 0-6000 rpm. Sieves: Mesh size 1.0, 1.5, 2.0mm, stainless steel. Safety device: Door contact, Overload protection. 	1
10	Laminar Flow Hood	 External dimensions (W × D × H) 1800 × 750 × 2040 mm Internal dimensions (W × D × H) 1700 × 645 × 610 mm Average airflow speed 0.3 ~ 0.5 m/s HEPA filter efficiency 99.999 % at 0.3 µm Noise level < 65 dB LED lamp 16 W × 1 UV lamp 40 W × 1 UV light emission 253.7 nm Power consumption 450 W Work surface height 750 mm Waterproof socket ≤ 500 W Window glass thickness 5 mm Maximum window opening 430 mm Power supply AC 220 V ± 10 %, 50 Hz / 60 Hz 110 V ± 10 %; 60 Hz 	1
11	Hot Plate Magnetic Stirrer	 Voltage V: 110-220 Frequency Hz: 50-60 Power w: 550 Working Plate Material Cast Aluminum +Ceramic Spraying Base Material: Plastic Working Size cm: 150*150 Max Stirring Volume L: 5 Heating Function: Yes Display Mode: LCD Motor Type: Dc Brushless Motor Speed Range rpm: 100-1600 Speed Control Accuracy rpm: ±10 Timing: 1-99h59min Temperature Control Range °C: RT- 300 Temperature Control Accuracy °C: Tray ±3 Solution: ±0.5 PT1000: Standard 	8

12	Vortex Mixers	 Voltage110-120V/220-230V, 50/60Hz Power 60W Mixing Motion Orbital Orbital Diameter 4mm Touch operation or continuous mode Variable speed control from 0 to 2500rpm Suitable for various tube types and mixing applications with optional adapters Specially designed vacuum suction feet for stability Robust cast aluminum construction Small footprint 	7
13	Ice Machine	 Production (kg/24h) 250 Storage (kg) 60 Working ambient temperature +10 °C ~+43 °C Working voltage 220V /110V± 10%, 50/60Hz, single phase External material 18/8 stainless steel Interior material Food grade ABS Insulation of storage bin PU foamed Compressor Secop Refrigerant CFC-Free, R134a Bin full alarm Yes Water interruption alarm Yes Sensor failure alarm Yes External dimension (W/D/H) 682X610X1050 Packing dimension (W/D/H) 740X670X1080 Net weight/gross weight (kg) 87/93 Standard Accessories Ice scoop, water inlet/outlet pipe 	1
14	Hydrometer	 Standard Soil Hydrometer symmetrical bulb with accurate calibration, to read in grams of soil colloids per liter (Bouyoucos Scale) Range: -5-60gm Length: 280mm Distillate output 4 liters per hour, 	1
15	Single Distillation Apparatus	 single distilled Water Supply Requirement 1 liter / min (Min pressure 3 p.s.i)(0.2 x 105 NM-2) pH 5.0 to 6.5 Conductivity 3.0 to 4.0 µs/cm Temperature 35 to 50 °C 	3

		Purpagen Content Purpagen fues]
		Pyrogen Content Pyrogen free Power Requirement 220/240v, 50/60	
		Hz single phase, 13A fused	
		Dimension (d x w x h) $50 \times 15 \times 45 \text{ cm}$	
		Maximum Speed: 500-7000 rpm	
		• Temperature Range: 5 to 40 °C	
		Time Range: 1 to 99 min	
		Display: LCD	
16		 Motor: DC 24V/DC permanent 	
10		magnet motor	
l	Bench top, Micro	Lid Lock: Automatic electrical lid lock	
l	Centrifuge	• Power supply: AC 100-250V, 50/60Hz	1
l		Package dimension (W*D*H): 194x229x120m	
		Maximum Speed: 16000 rpm	
		Maximum Capacity: 4x250ml	
		• Temperature Range: -20 to -40 °C	
		 Time Range: 1 to 99 min 	
		Controller: Microprocessor	
		Display: LED	
		 Display: LED Motor: Brushless frequency motor 	
17			
	Refrigerator	Protection: Over speed and over temperature protection	
	Centrifuge	 Power supply: AC 200/110V, 50/60Hz 	1
		 Package dimension (W*D*H): 	
		620x600x360mm	
		Gross weight: 105Kg	
		Timing range 1~99h59min (0 is forever)	
		Temp. range RT.+5°C~100°C	
		Temp. accuracy ±0.5°C	
		Temp. Uniformity@37°C ±0.5°C	
		Number of holes 1	
18		Volume 5L×1	
	Water Bath	Workspace 276×118×98mm×1	1
		Voltage AC 220V 50Hz	
		Power 700W	
		Dimensions W.360×D.286×H.245mm	
		Net weight 5.1kgs • Lighting: White LED array	
		• Digital display: 3-digit LED	
		•Count: 0 to 999	
		•Dimensions (w x d x h): 12" x 12" x 5.5"	
19		• Mass, lbs.: 3.3	
	Colony Counter	•Electrical supply: 120 to 230V,	1
	Colony Counter	50 / 60Hz, 70W	T
		Supplied with two Wolffhuegel graticules and	
		dish centering adapters to facilitate use with 50mm to 90mm dishes	
		 0.5-10μl (Accuracy Range + 0.04 μl) 	
20		 10-100μl (Accuracy Range + 0.04 μl) 10-100μl (Accuracy Range + 0.15 μl) 	
20	Pipette sets	 20-200μl (Accuracy Range + 0.30 μl) 	1 set
	Tipelle sels	20 200 m meetiacy Mange + 0.00 ml	1 300

		• 100-1000u (Accuracy Range + 1.5 ul)]
		 100-1000μ (Accuracy Range + 1.5 μl) Autoclave able 	
		1. Electrophoresis Apparatus	
		 Type: Horizontal or vertical gel 	
		electrophoresis system	
		Material: High-quality, non-corrosive	
		plastic or glass	
		Dimensions: Suitable for standard gel	
		sizes (e.g., 10 x 7 cm)	
		Gel Casting Tray: Integrated casting tray	
		with a secure gel comb placement	
		Electrode Configuration: High-resolution	
		electrode design for uniform current	
		distribution	
		Cooling System: Optional integrated	
		cooling system for heat dissipation	
		• Accessories: Include gel combs, casting	
		trays, and sample loading tools	
		• Safety Features: Safety lid with an	
		interlock mechanism to prevent operation without closure	
		User Manual: Comprehensive user	
		manual with assembly instructions and	
		troubleshooting guidelines	
		• 2. Power Supply	
		• Output Voltage: Adjustable range (e.g.,	
21	Western blotting	0-300V)	1
21	complete set	• Output Current: Adjustable range (e.g.,	1
		0-1000 mA)	
		Power Rating: Minimum 200W	
		Display: Digital display for voltage and	
		current readingsControl Features: Programmable settings	
		for time, voltage, and current	
		 Protection: Over-voltage and over- 	
		current protection	
		Connectivity: Compatible with standard	
		electrophoresis apparatus	
		• Size and Weight: Compact design for	
		easy storage and portability	
		• 3. Transfer Membrane	
		• Type: Nitrocellulose or PVDF	
		(Polyvinylidene fluoride)	
		• Size: Standard sizes (e.g., 0.2 µm pore	
		size, 7 x 8 cm)	
		Binding Capacity: High protein binding appacity	
		capacity Stability: Chemically stable and 	
		Stability: Chemically stable and compatible with various detection	
		methods	
		Ease of Use: Pre-cut and ready-to-use	
		membranes	
L	4		

		 Packaging: Individually sealed to maintain sterility and integrity SDS-PAGE Apparatus Type: Vertical SDS-PAGE electrophoresis system Material: Durable, non-corrosive materials for long-term use Gel Size Compatibility: Supports standard gel sizes (e.g., 10 x 10 cm or 15 x 15 cm) Gel Casting: Easy gel casting system with leak-proof design Sample Loading: User-friendly sample loading system with multiple wells Cooling System: Integrated cooling option to minimize heating during runs Safety Features: Safety lid with an interlock mechanism Accessories: Include gel combs, spacers, and a buffer reservoir User Manual: Detailed instructions for setup, operation, and maintenance 	
22	Dry Oven	 Operating temp. range: RT+5~250°C Interior material: Stainless steel Exterior material: Cold rolled steel plate with chemical proofing coating Temp. display Measured temp. display: Green 4-digit LED digital display Timer 1min-99 hr. 59 min and 100 hr- 999 hr. 50 min (with time wait function) Operation functions: Fixed temperature, auto stop, auto start, quick auto stop Additional functions: Deviation correction, Key lock, Power outage compensation Internal dimensions (W*D*H mm): 450×450×450 External dimensions (W*D*H mm): 504×562×820 Internal capacity: 92L Door: Single door, silicon rubber packing Shelf plate / bracket (stainless steel): 2pcs. / 4pcs. Power supply (50/60Hz) rated current AC115V / AC220V 	1

23	Media Suction pump	 Configuration: portable Flow: 18 l/min, (4.76 us gal/min) Pressure: Max.: 0.08 MPa Min.: 0.02 MPa Suction jar capacity: 1 l: (0.3 gal) Number of decibels: 65 dB 	1
24	Laboratory Incubator	Incubator 115 (UL and CSA) or 230V (CE marked) versions with see through clear polycarbonate or solid stainless- steel doors	1
25	Microtome	 Operating temperature range: +10 °C to +35 °C Temperature range during storage: 5 °C to +50°C Relative humidity: max. 80% non- condensing Storage humidity min. 10% r.H., max. 85% r.H Section thickness range: 1.0-60.0 um, Section thickness range: 1.0-60.0 um, Section thickness settings: from 1.0- 10.0 µm in 1.0 µπ increments, from 10.0-20.0 um in 2.0 µm increments, from 20.0-60.0 µm in 5.0 µm increments Specimen feed approx. 24 mm 2 mm Vertical stroke: 70 mm Max. sectioning range without retraction: 69 mm (without specimen orientation at 1 µm) Max. sectioning range with retraction: 62 mm The specimen retraction can be turned off manually: 200 µm Width (including handwheel): 413 mm Depth (including waste tray): 618 mm Height (total): 305 mm (with tray on the hood) Working height (knife blade): 168 mm (measured from the table) Weight (without accessories): approx. 37 kg 	1
26	Fume hood	 External size (W*D*H) mm: 1040x800x2200 Internal size (W*D*H) mm: 820x670x730 	1

		 Work surface height: 850mm Max. Opening: 500mm Air Velocity: 0.3~0.8 m/s Noise: ≤60dB Exhaust Duct: PVC, Standard length 4 m, Ø300mm Fluorescent Lamp: 14W*1 UV Lamp: Emition of 253.7 nm Front Window: 5mm toughened glass, motorized, height adjustable Consumption: 400W Standard Accessory: UV lamp*2, Fluorescent lamp, Water tap, Gas tap, Water sink, Base cabinet, Total load of 2 waterproof sockets 500W, 4-meter PVC exhaust duct, pipe strap. 	
27	Orbital Shaking Incubator	 Range (°C / °F): Amb. +5 to 80 / Amb. +9 to 176 Fluctuation at 37°C (±°C / °F) in flask: 0.1 / 0.18 Variation at 37°C (±°C / °F) in flask: 0.5 / 0.90 Motion type: Orbital Speed range (rpm): 30 to 500 	1
28	Sonicator	 Cooling fan for prolonged operation: 6L and above volume machine. Stamped Stainless Steel 304 tank without welding. Drain pipe on side for easy draining and cleaning. Tank and other metal parts are grounded (ESD-safe). Ceramic heaters for beer heating effect. • Side handles for easy handling :3L and above machines. Degas mode to get the cleaning started faster. Adjustable power for maximum versality: for DS-P series machines. Adjustable Heating. Handle. Drain. Lid/Basket. Stainless Steel. Temperature range 0 to 80 c Capacity 6liter 	3
29	Autoclave	 Chamber (Inner size capacity): 400x505mmx60 Inner Capacity: 60 Liters Sterilization Temperature: 105-138oC 	1

		 Range of Sterilization time: 1-300 minutes Melting Temperature: 60-100 C Warming temperature: 45-60 C Preset range for cooling lock open temperature: 40-900C for solid and agar modes and 40-800C for liquid and waste Preset range for steam exhausting temperature: 73-104oC Exhausting System: Fully automatic internal discharging Embedded with a steam trapping bottle Way of opening lid: Flip type Preset range of timer: 0 minutes- 6 days delayed Preset range of timer: 0-0.6MPa Rated working pressure: 0.27MPa Controller: Microprocessor controller, Graphic display Chamber and lid: Stainless steel, Shiny polished, Molded silicone rubber Power: AC220/230/240V, 1phase, 50Hz/60Hz Chamber Dimension: 400x505 Rate power (W): 2900 Auto. Water Supply: Automatic water supply system Rapid Cooling System: Chamber cooling system by 1~2 fans 	
30	Biosafety Cabinet	 Exhaust bottle, two stainless steel baskets. Biosafety Cabinet Using ECM blower technology, the Logic+ uses the Constant Airflow Profile (CAP) to maintain a precise volume of air as the filters load. In addition, the cabinet will continuously display the HEPA Filter life remaining and cabinet status Material: High-quality, optically clear 	1
31	Quartz cuvettes	 quartz Path Length: Standard options (e.g., 1 cm, 2 cm) available Dimensions: Width: 10 mm (standard for most applications) Height: 45 mm (standard size) Volume: Suitable for small sample volumes (e.g., 3.5 mL for standard cuvettes) Transparency: Excellent UV and visible light transmission (200 nm to 2000 nm) Surface Quality: Low scattering with polished surfaces to ensure high optical clarity 	5

		Compatibility: Compatible with standard	
		UV-Vis's spectrophotometers and	
		fluorometers	
		• Cleaning: Resistant to common solvents; easy to clean with appropriate solvents	
		Durability: Scratch-resistant and stable under	
		repeated use	
		Watts: 75 Watts	
		Length: 1554 mm	
		• Base: B16	
		Base Description: 4 Pin Single	
32		Ended (B16)	
		• Qtz. OD: 15 mm	
	UV Lamps wired	Wiring: Instant Start	3
		Output: Standard	
		Category: Instant Start	
		• Cell Constants: 0.1, 1.0, 10	
		Reference Temperature: 15-25° user	
		selectable in 0.1° increments	
		Reference Coefficient: 0.00-4.00%	
		user selectable at 0.01%	
		increments	
33		 Ambient Temperature Range: 0 to 50°C Automatic Temperature Compensation: 	
	Benchtop	10K NTC	
	Conductivity	• Dimensions: 5.9 in (150 mm) x 8.0 in (203	
	Meter	mm)	1
		x 2.8 in (72 mm)	
		Power Supply: 6 x AAA batteries or 115/230 V	
		AC adapter	
		for round-bottom flasks 500 ml	
		Maximum operation temperature 0	
		+450 °C Voltage Supply 230 V AC / 50 Hz	
		Power 250 W	
		Operation time continuous	
		Operating temperature +5 + 40 °C	
34	Heating Mentals	Operating humidity 0 90 % H.r.	3
		Housing Cold rolled steel with painted	
		surface	
		Dimensions inner	
		Ø 105 × 65 mm	
		Dimensions outer Ø 200 x 170 mm	
		Weight approx. 1.5 kg	
		Bio-rad Agarose gel electrophoresis system	
		from 20& amp;ndash: 20.000 bp long.	
		Precast agarose gels are 37 available with	
35	Agarose gel	TAE or TBE buffer, 1% or 3% agarose, with	
	electrophoresis	or without ethidium bromide, and in a	1
	system	range of well configurations from B. wells to	1
		4 rows x 26 wells.	
36		 Wavelength range: 150 to 1100nm 	

37	Spectrophotome ter/ Eliza Plate Reader Field scout soil moisture meter	 Wavelength scan speed 10, 100, 200, 400, 800, 1,200 2,400, 3,600nm/min Spectral band width: 4 nm (UV 1100)1 nm (UV 1101)2 nm (UV 1102) Optics: Ratio beam principle 04 No. Field scout soil moisture meter, 02 No. Hydrocarbon Test kit. 05 No. Waterproof pH meter, 05 Na. Hydro-thermometer Noise dosimeter Ranges: 30 to 130 	1
38	Sound Level Meter	 Db Resolution 0.1 48, Accuracy ±1.0 Dimension: 180×28×27(mm) Display: Dual color LED 	1
39	Air borne particle counter	 Built-in camera for capturing videos and photos that are stored onto internal memory or a microSD card Particle size: 0.3、0.5、1.0、2.5、5.0、10.0µm Counting efficiency: 0.3µm: 50%; >0.5µm: 100% Sampling flowrate: 1CFM (28.3L/min), Error±2%FS Battery working time: ≥8 hours Charging time: About 5 hours Size: (L320×W220×H210) mm Weight: About 6kg 	1
40	Sludge level detector	Sludge level detector, C910055, Mfr. No. MIC113-6EA, Description SALMONELLA SLUDGE 3 LEVELS 6EA	1
41	Multichannel Micro Pipettes 8 channel	• 50-300 ul Autoclave able	1
42	Gel Documentation	Gel Documentation System for both DNA and protein, ultra slim, dark room and control unit, CCD camera, Zoom lenses and filters, thermal printer and PC with capturing software	1
43	Dry Bath	Temp/running time can be programmed individually Thermo Stat Plus Temp: -5 to 99	1

44	Mini Tank Electro blotter DNA thermal cycler	 chamber with platinum wire electrode panels; safety interlocking lid with attached power supply leads four blotting cassettes with foam pads 16 sheets of 9 x 9 cm blotting filter paper. Transfer area (W x H. cm): 99; footprint (W*L*H, cm): 13 x 18 16.5 0.2 ml x96 well aluminum block, temperature range of block: 3-99, heating rate: 4/s, cooling rate: 3/s 	1
46	Lux Meter	 Range 0.000 to 1999 Lux 2000 to 19999 Lux 20000 to 50000 Lux Range Setting manual through key buttons 	1
47	Filtration Unit with Suction	 Autofill 50 ml Funnel Only with 0.2 um PES Membrane, 48/pk 40mm Filter Diameter, Permanent vacuum hose connection to minimize set-up time, Made from Class VI Materials, manufactured in a Class 100,000 Clean Room, Manufactured according to 150 13485 standards 	1
48	BOD Analyzer	 Measurement range: 0-4000mg/L Resolution: 2mg/L Measurement time: 5, 7 days optional Measure amount: 6 Culture bottle volume: 580ml Data storage: 5 days Culture temperature: 20±1 Working power: AV220V±10%/50-60Hz Rated power: 20W 	1
49	EC Meter	 pH Range: 0.00 to 14.00 pH EC Range: 0.00 to 6.00 mS/cm TDS Range: 0 to 4000 ppm pH Resolution: 0.1 pH EC Resolution: 0.01 mS/cm TDS Resolution: 10 ppm pH Accuracy: ±0.20 EC/TDS Accuracy: ±2% Full Scale Calibration Solutions: M10007 (pH 7.01) M10032 (1382 ppm) M10442B 1500 ppm Conversion Factor: 0.68 Calibration: Manual at 1 point Temperature Compensation: Automatic from 0 to 50°C 	2

		 Probe: SE600 combination pH/EC/TDS probe Environment: 0 to 50°C / 32 to 122°F; max RH 95% Battery Type / Battery Life: 1 x 9V alkaline / 150 hours of use Auto-off: After 8 minutes of non-use Dimensions: 7.3 x 3.2 x 1.8 inches Weight: 5.8 ounces (with battery) 	
50	Dissecting Boxes	 Ipc Balo Pipe 4pc Steel Needles 1pc Scalpel Handle No 3 1pc Probe 1pc Razor 2pc Adson Forceps 1pc Iris Scissor 1pc Iris Scissor 1pc Chain Hook 1pc Surgical Blade 	20
51	Water deionizer (Di 425)	 Flow rate: 1/h 50 Capacity at 10°D TDS*, litres 425 Purified water quality, μS/cm 0,1 - 20 Max. feedwater temp.°C 30 Electrical requirements, V/Hz 230/50–60 Height** x diameter, mm 600 x 100 Approx. depth, mm 115 Approx. 	1
52	Glass Aquarium	Glass Aquarium with oxygen pump, heater and aquarium stand	5
53	CO 2 Cylinder with regulator	CO2 Cylinder along with Gauges and Gas filled 30kg	1
54	Digital Homogenizer	 Volume Processing Range: 0.05ml- 3.5L Power Rating: 576 Watts, RPM Range: 0-30,000 RPM Speed Control Digital Variable Speed 0- 30,000, Noise rating: 68 Db Weight with stand: 18 pounds, Dimensions: 14x12x24 in. Certifications: CE 	1

Note: All Equipment should be in warranty of minimum one year.

Section-IV: Bid Data Sheet

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

		A. Introduction	
BDS	ITB	Amendments of, and Supplements to, Clauses in the Instruction	
Clause Number	Number	to Bidders	
1.	2.1.1	Name of Procuring Agency: Baba Guru Nanak University, Nankana Sahib.	
		The subject of procurement: Purchase of Science Lab Equipment	
		Period for delivery of goods: 30 days	
		Commencement date for delivery of Goods: After Issuance of	
		Letter of Acceptance (Award Letter)	
2.	2.1.2	Financial year for the operations of the Procuring Agency:	
		2024-2025	
		Name of Project/ Grant (Development or Non-Development):	
		Development	
		Name of financing institution: Baba Guru Nanak University,	
		Nankana Sahib.	
3.		Ineligible country(s): NA	
4.	2.3.6(iii)	Demonstration of authorization by manufacturer: Not Required	
		B. Bidding Documents	
5.	2.2.2	The address for clarification of Bidding Documents:	
		Secretary Purchase Committee, Baba Guru Nanak University,	
		Nankana Sahib.	
6.	2.2.2	Pre-bid meeting will not be held	
	C. Bid Pr	ice, Currency, Language and Country of Origin	
8	2.3.1	Language: English	
10	2.3.4	The price quoted shall be Inclusive of all applicable Taxes	
11.	2.3.4	The price shall be fixed	

12.	2.1.4 (ii)	Country of origin:
40		D. Preparation and Submission of Bids
13.	2.1.3	Qualification Criteria/Knock down criteria
		Minimum requirement for a Bidder to participate in the Bidding process
		which, include the following:
		i. Minimum relevant experience of Three Years required for bidder,
		ii. At least three relevant Supply Orders received in the past.
		iii. Registration with relevant tax authority i.e., FBR/PRA etc. as
		active tax payer (Sales Tax and Income Tax).
		iv. Minimum average turn over for last three years = 8 million
		(Account statement for last three years)
		v. Affidavit to the effect that: -
		Bidder is neither currently blacklisted from any
		government department nor is any litigation pending in
		this regard.
		 The documents/photocopies provided with Bid are
		authentic. In case of any fake/bogus document found at
		any stage, the Bidder shall be blacklisted as per Law/
		Rules.
		• The provided information is correct.
		vi. Bidder is Manufacturer or authorized dealer / distributor for supply
		of science lab equipment (Manufacturer ISO Certificate and Authorize
		Delear/Distributor Certificate Required)
		vii. Post supply maintenance certificate required with details of
		qualified technical staff.
14.	2.3.6 & 2.3.7	Equipment required for No. of years of operation.: Not applicable
15.	2.2.2	Bid shall be Address to: Secretary Purchase Committee
		Original Bid security shall be Submitted at Accounts Office

		Baba Guru Nanak University, located at Danish Schools Hostel	
		Buildings, Nankana Sahib.	
16.	2.4.2	The deadline for online Bid submission is	
		a) Day: Wednesday	
		b) Date: 20-11-2024 Time: 11:00 AM	
17.	2.5.1	date/ Month/ Year/Time, and place for Bid opening. 20-11-2024 Time: 11:30 AM	
		Registrar Office, Baba Guru Nanak University, Nankana Sahib.	
18.	2.6.2	Amount of Performance Guarantee is: 5%	
19.	2.3.8	Estimated Contract Price: Rs 20 million	
		Amount of Bid security is @2% of the Estimated Cost: Rs. 400,000/-	
		The Bidder will submit Bid Security drawn in the name of " Treasurer Baba Guru Nanak University, Nankana Sahib."	
20.	2.3.9	Bid validity period after opening of the Bid is: 120 days.	
21.	2.3.9	Number of copies of the Bid to be provided are: Only One.	
		E. Opening and Evaluation of Bids	
22.	2.5.1	The Bid opening shall take place at:	
		Registrar Office, Baba Guru Nanak University, located at Danish School Hostel Buildings, Nankana Sahib.	
		Timing:	
		20-11-2024 Time: 11:30 AM	
23.	2.3.5	The currency that shall be used for Bid evaluation and comparison	
		purposes to convert all Bid prices expressed in various currencies is: PKR	
24	2.3.6	Sample of the Quoted item: N/A	
25.	2.5.8	BID EVALUATION SHEET	
		(All evaluation parameters defined below are mandatory for compliance)	

Sr. No.	Evaluation Parameters	M/S ABC
1 <u>1</u>	2% Bid Security of estimated cost. Bid security Original must be submitted at the time of Online Bid opening.	Yes / No

2	Active Registration with Income Tax Authorities (National Tax Number NTN).	Yes / No
3	Copy of active Registration with Sales Tax Authorities (GST).	Yes / No
4	Copy of active Professional sales Tax Certificate (PST).	Yes / No
5	At least <u>03 of experiences</u> (attach supply orders/proof) of similar nature in public organization during last 03 years.	Yes / No
6	Affidavit of non-black listing.	Yes / No
7	Bank Statement for last three year	Yes / No
9	Authorizes Manufacturer ISO certification	Yes / No
10	Authorized Dealership/Distribution certificate	Yes / No
11	Post Supply services/maintenance certificate	Yes / No
12	List of Technical Staff (training certificate must be provided by the bidder)	Yes / No
	Remarks	

G. Award of Contract

2.6.5	Percentage for quantity increase or decrease is: 15%
2.6.2	The Performance Guarantee shall be: 5% Withheld for one
	year
2.6.2	The Performance Security (or guarantee) shall be in the form
	of <i>CDR</i>

Section-V: General Conditions of Contract

1. Definitions	1.1	In th	is Contract, the following terms shall be interpreted as indicated:
		(a)	"The Contract" means the agreement entered into between Baba Guru Nanak University, Nankana Sahib and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
		(b)	"The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
		(c)	"The Goods" means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring Agency under the Contract.
		(d)	"The Services" means those services ancillary and related to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, maintenance & repair and other such obligations of the Supplier covered under the Contract.
		(e)	"GCC" means the General Conditions of Contract contained in this section.
		(f)	"SCC" means the Special Conditions of Contract.
		(g)	"The Procuring Agency" means Baba Guru Nanak University,
		(h)	Nankana Sahib. "The Procuring Agency's country" is Pakistan
		(i)	"The Supplier" means the Bidder or firm supplying the Goods and Services under this Contract.
		(j)	"The Project Site," where applicable, means the place or places named in SCC.
		(k)	"Day" means calendar day.

- **2. Application** 2.1. These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.
- **3. Country of Origin** 3.1. All Goods and Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules, as further [where applicable] elaborated in the SCC.

3.2. For purposes of this Clause, "origin" means the place where the Goods were mined, grown, or produced, or from where the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new product is obtained that is substantially different in basic characteristics or in purpose or utility from its components.

3.3. The origin of Goods and Services is distinct from the nationality of the Supplier. In any case, the requirements of rules 10 & 26, PPR-14, shall be followed.

4. Standards 4.1. The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the goods' country of origin. Such standards shall be the latest issued by the concerned institution.

5. Use of Contract
Documents and
Information;
Inspection and
Audit by the
procuring agency.
5.1. The Supplier shall not, without the Procuring Agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2. The Supplier shall not, without the Procuring Agency's prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of executing the Contract.

5.3. Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Procuring Agency and shall be returned (all copies) to the Procuring Agency on completion of the Supplier's performance under the Contract if so, required by the Procuring Agency.

5.4. The Supplier shall permit the Procuring Agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the donors, if so, required by the donors.

- **6. Patent Rights** 6.1. The Supplier shall indemnify the Procuring Agency against all thirdparty claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring Agency's country.
- 7. Performance
 7.1. Within fifteen (15) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring Agency the Performance Guarantee in the amount specified in SCC/Bid Data Sheet & clause 2.6.2 of ITB.

7.2. The proceeds of the Performance Guarantee shall be payable to the Procuring Agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

7.3. As per Rule-56 of PPR-14, the performance guarantee shall be denominated in the currency of the Contract acceptable to the Procuring Agency and shall be in one of the following forms:

- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring Agency's country, in the form provided in the Bidding documents or another form acceptable to the Procuring Agency; or
- (b) a Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker's cheque cashier's or certified cheque or CDR.

7.4. The performance guarantee will be discharged by the Procuring Agency and returned to the Supplier after one year following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.

8. Inspections and
 8.1. The Procuring Agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring Agency requires and where they are to be conducted. The

Procuring Agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives nominated for these purposes.

8.2. The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s) (if so, allowed by the Procuring Agency), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Agency.

8.3. Should any inspected or tested Goods fail to conform to the Specifications, the Procuring Agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring Agency.

8.4. The Procuring Agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring Agency's Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring Agency or its representative prior to the goods' shipment from site of the Supplier.

8.5. Nothing in GCC Clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

9. Packing 9.1. The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2. The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Procuring Agency.

10. Delivery and
Documents10.1. Delivery of the Goods shall be made by the Supplier in accordance
with the terms specified in the Schedule of Requirements. The details of

shipping and/or other documents to be furnished by the Supplier are specified in SCC.

10.2. Upon delivery, the Procuring Agency shall give receiving certificate to the supplier with the statement that, "completion certificate along with satisfactory report shall be issued after due inspection as per clause-8 of GCC, which will enable the supplier to put up the bill".

10.3. Documents to be submitted by the Supplier are specified in SCC.

11. Insurance Not Required

12. Transportation 12.1. The Supplier is required under the Contract to transport the Goods to a specified place of destination within the Procuring Agency's country, insurance and storage, as shall be specified in the Contract, and related costs shall be included in the Contract Price.

13. Incidental13.1. The Supplier may be required to provide any or all of the followingServicesservices, including additional services, if any, specified in SCC:

- (a) satisfactory performance for specified time/ quantity on-site and/or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (e) training of the Procuring Agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

13.2. Prices charged by the Supplier for incidental services shall be included in the Contract Price for the Goods and shall not exceed:

(i) the prevailing rates charged for other parties by the Supplier for similar services; and

- (ii) original price of goods.
- **14. Spare Parts** 14.1. As specified in SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
 - such spare parts as the Procuring Agency may choose to purchase from the Supplier, provided that this choice shall not relieve the Supplier of any warranty obligations under the Contract; and
 - (b) in the event of termination of production of the spare parts:
 - advance notification to the Procuring Agency of the pending termination, in sufficient time to permit the Procuring Agency to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the Procuring Agency, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty 15.1. The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models selected by the Procuring Agency, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring Agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

15.3. The Procuring Agency shall promptly notify the Supplier in writing of any claims arising under this warranty.

15.4. Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring Agency.

15.5. If the Supplier, having been notified, fails to rectify the defect(s) within the period specified in SCC, within a reasonable period, the Procuring Agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any

other rights which the Procuring Agency may have against the Supplier under the Contract/relevant provision of PPR-14 including Blacklisting.

16. Payment 16.1. The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.

16.2. The Supplier's request(s) for payment shall be made to the Procuring Agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.

16.3. As per rule-62 of PPR-14, payments shall be made promptly by the Procuring Agency, but in no case later than thirty (30) days after submission of an invoice or claim by the Supplier, provided the work is satisfactory.

16.4. The currency of payment is PKR

- 17. Prices 17.1. Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Bid, with the exception of any price adjustments authorized in SCC.
- 18. Change 18.1. The Procuring Agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the Contract, only if required for the successful completion of the job, in any one or more of the following:
 - drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Agency;
 - (b) the method of shipment or packing;
 - (c) the place of delivery; and/or
 - (d) the Services to be provided by the Supplier.

18.2. If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring Agency's change order. But, in no case, the overall impact of the change should exceed 15% of the contract cost and no provisions of PPR-14 should be violated.

- 19. Contract Amendments
 19.1. Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by the mutual consent through written amendment signed by the parties. No variation in finalized brands/ makes/models shall be allowed except in special conditions where the manufacturer has stopped producing or suspended that model or the latest model of similar series or version has been launched by the manufacturer or non-availability due to international mergers of the manufacturers or similar unavoidable constraints.
- **20.** Assignment 20.1. The Supplier shall not assign the whole of contract to anybody else. However, some parts of contract or its obligations may be assigned to subcontractors with the prior written approval of the procuring agency.
- **21. Sub-contracts** 21.1. The Supplier shall notify the Procuring Agency in the Bid of all subcontracts to be assigned under this Contract. Such notification, in the original Bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

21.2. Subcontracts must comply with the provisions of GCC Clause 20.

22. Delays in the
Supplier's22.1. Delivery of the Goods and performance of Services shall be made by
the Supplier in accordance with the time schedule prescribed by the
Procuring Agency in the Schedule of Requirements-

22.2. If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring Agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring Agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

22.3. Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless

an extension of time is agreed upon pursuant to GCC Clause 22.2 without the imposition of liquidated damages.

23. Liquidated Damages 23.1. Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to GCC Clause 24 along with other remedies available under PPR-14.

24. Termination24.1. The Procuring Agency, without prejudice to any other remedy for
breach of Contract, by written notice of default sent to the Supplier, may
terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency pursuant to GCC Clause 22;
- (b) if the Supplier fails to perform any other obligation(s) under the Contract; or
- (c) if the Supplier, in the judgment of the Procuring Agency has engaged in corrupt practices in competing for or in executing the Contract. For the purpose of this clause, corrupt practices will be defined as per Section-2 (d) of The PPRA Act, 2009.

24.2. In the event the Procuring Agency terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Procuring Agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

25. Force 25.1. Notwithstanding the provisions of GCC Clauses 22, 23, and 24, the Supplier shall not be liable for forfeiture of its Performance Guarantee, liquidated damages, or termination for default if and to the extent that its

delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

25.2. For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes. Both, the Procuring Agency and the Supplier, may agree to exclude certain widespread conditions e.g.: epidemics, pandemics, quarantine restrictions etc. from the purview of "Force Majeure".

25.3. If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. Any difference of opinion concerning "Force Majeure" may be decided through means given herein below.

- 26. Termination for Insolvency 26.1. The Procuring Agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Agency.
- 27. Termination for Convenience 27.1. The Procuring Agency, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring Agency's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

27.2. The Goods that are complete and ready for shipment (if applicable) within thirty (30) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring Agency on the Contract terms and prices. For the remaining Goods, the Procuring Agency may choose:

(a) to have any portion completed and delivered at the Contract terms and prices; and/or

(b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.
 28.1. After signing the contract or issuance of purchase order, The

28. Resolution 28.1. After signing the contract or issuance of purchase order, The of Disputes Procuring Agency and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

28.2. If, after thirty (30) days from the commencement of such informal negotiations, the Procuring Agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed and/or arbitration as per rule 68 of PPR-14 and in accordance with Arbitration Act-1940.

- 29. Governing
 Language
 29.1. The Contract shall be written in the language specified in SCC.
 Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.
- **30.** Applicable30.1. The Contract shall be interpreted in accordance with the laws ofLawPunjab (Pakistan) unless otherwise specified in SCC.
- **31. Notices** 31.1. Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by any information technology mean for the time being in use and acceptable in ordinary course of business to the other party's address specified in SCC.

31.2. A notice shall be effective when delivered or on the notice's effective date, whichever is later.

32. Taxes and
 32.1. Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods & Services to the Procuring Agency. In case of imposition of new taxes/duties or concession thereof after the deadlines for the submission of bids the effect thereof shall be borne or availed by the procuring agency as the case may be.

Section-VI. Special Conditions of Contract

Special Conditions of Contract

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

1. Definitions (GCC Clause 1)

GCC 1.1 (g)—The Procuring Agency is: Baba Guru Nanak University, Nankana Sahib. Supplier is:

2. Country of Origin (GCC Clause 3):

3. Performance Guarantee (GCC Clause 7)

GCC 7.1—As per rule 56 of PPR-14, the amount of Performance Guarantee, as a percentage of the Contract Price, shall be: **5% (will be withheld for one year)**

GCC 7.4—the Performance Guarantee shall be retained for to cover the Supplier's warranty obligations or defect liability period in accordance with Clause GCC 15.2 for minimum one year.

4. Inspections and Tests (GCC Clause 8)

Inspection will be conducted at the site of the Supplier prior to the delivery or after the delivery of items at the final destination.

5. Packing (GCC Clause 9)

GCC 9.2— Original Packing by the manufacturer

6. Delivery

Delivery of items will be made to following Location(s):

Baba Guru Nanak University, located at Danish Schools Hostel Buildings, Nankana Sahib.

The Supplier shall provide Delivery Challan showing goods' description, quantity to the Procuring Agency.

7. Warranty

(GCC Clause 15): The supplier warrants that the goods supplied are original, new and as per specifications given in the bid document. All items should be in warranty of minimum one year.

8. Sample provision

Sample not required.

9. Payment (GCC Clause 16)

GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

Payment for Goods supplied:

GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

- After the signing of Inspection / Satisfactory Report Supplier shall provide the invoice showing goods' description, quantity, unit price, and total amount along with the Sales Tax invoice and Import documents (if applicable)
- Payment may be made in Pak. Rupees in the following manner:

Lump sum modality.

10. Prices (GCC Clause 17)

GCC 17.1—Prices shall be fixed and shall not be adjusted.

11. Liquidated Damages (GCC Clause 23)

GCC 23.1—Applicable rate: Maximum 10 Percent

Maximum deduction: Applicable rate shall be **one-half (0.5) percent per week**, and the maximum shall not exceed ten (10) percent of the Contract Price after that Procuring Agency may proceed for the termination of contract along-with other remedies available under PPR-14.]

12. Resolution of Disputes (GCC Clause 28)

GCC 28.2—The dispute resolution mechanism to be applied pursuant to GCC Clause 28.2 shall be as follows:

As per rule-68 of PPR-14, in the case of a dispute between the Procuring Agency and the Supplier, the dispute shall be referred for arbitration in accordance with the Arbitration Act 1940.

13. Governing Language (GCC Clause 29)

GCC 29.1—The Governing Language shall be: English

14. Applicable Law (GCC Clause 30)

GCC 30.1-The Contract shall be interpreted in accordance with the laws applicable in the jurisdiction of the province of Punjab (Pakistan):

15. Notices (GCC Clause 31)

GCC 31.1—Procuring Agency's address for notice purposes: Secretary Purchase Committee Baba Guru Nanak University, located at Danish Schools Hostel Buildings, Nankana Sahib.

-Supplier's address for notice purposes:

Section-VII. Schedule of Requirements

7.1 Schedule of Requirements

Delivery Period will be 30 days after issuance of Letter of Acceptance.

Sr no	Item name	Specifications	Quantity
1	Compound Microscope	 Compound Biological Trinocular Digital Microscope with Camera and Software (2.0MP), Touch Screen LCD and infinite Optical System, Viewing Head Siedentop Trinocular Viewing Head, Inclined at 30, 360° Rotatable, Interpupillary 50 75mm, Light Distribution: 20:80, Eyepiece WF10K/20 Nosepiece Backward Quadruple Nosepiece Objective Infinity E-Plan objectives 4X, 10X, 40X (s), 100X 100 (s) inclined 45" interpupillary distance 5-4-75mm, Siedentop f type. Eyepiece/camera port (standard): 100/0 80/20, Fluorescence: 100/00/100 	2
2	Inverted Digital Microscope	100/00/100Optical System Infinite Optical System ViewingHead Siedentop f Trinocular Head, Inclined at45°, Interpupillary Distance 48-76mm, Lightdistribution (both): 100: 0 (100% for eyepiece),80:20 (80% for trinocular head, and 20% foreyepiece), Eyepiece Tube Diameter 30mmEyepiece Wide Field Eyepiece WF10×/ 22mmObjective Long Working Distance Infinite PlanAchromatic Objective 4×/0.11, W.D.=12.1mmLong Working Distance Infinite Plan AchromaticPhase Contrast Objective 10×/0.25, W.D.=8.3mm20×/0.40, W.D.=7.2mm40×/0.60, W.D.=3.4mmNosepiece Backward Quintuple NosepieceCondenser Long Working Distance Condenser,N.A. 0.3, Working Distance 72mm (withcondenser), 195mm (without condenser) PhaseAnnulus 10×, 20×, 40× Phase Annulus PlateStage Plain Stage 210(X)×240mm(Y), round slideplate: Φ110mmAttachable Mechanical Stage, X-YY Coaxial Control, Moving Rang: 128mm×80mmPetri Dish Holder Φ54mmPetri Dish Holder Φ54mmOo2mm, Moving Range 10mmKoehlerIllumination 6V/30W Halogen Lamp, BrightnessAdjustable, input voltage: 100V-240VFilterBlue Filter, Diameter 32mmGreen Filter,Diameter 32mmC-mount 0.5× C-mountAdapter (focus adjustable)Epi-FluorescentAttachment Epi-fluorescence attachment with100W mercury lamp and B, G fluorescent filters,field diaphragm, center adjustable.	1

3	CO 2 Incubator	 STC1D-830C 8.3M/IMX274(C) 1/2.5"(6.22×3.50) 1.62×1.62 236mV 70dB 43dB 30@3840×2160 30@1920×1080 30@1280×720 30@960×540 1×1 1×1 1×1 0.1-20 Capacity: 50L Heating: Air jacket Temp. Range: RT+5~60°C Control Type: Temperature and humidity transmitter Temp. Fluctuation: ≤±0.2°C (at 37°C) Temp. Uniformity: ≤±0.3°C (at 37°C) Time Setting: 999h or continuous Alarm: Audible and visual alarm; Overtemperature alarm; CO2 Concentration alarm. Shelves: 2 pcs/ adjustable Material: External cold-rolled steel with painting; Internal stainless steel Door: With inner door and external door CO2 Cantrol Resolution: 0.1% Humidification Type: Water reservoir in the bottom chamber ensures high humidity (90%srelative humidity≤99%) Sterilization Type: With 90°C moist heat decontamination function (95%≤humidity≤99%RH) Ambient Temp. & Humidity: 18~30°C, suggest 25±2°C; Relative humidity ≤80% Caster: Foot master caster Consumption: 300W Power Supply: AC220V±10%, 50/60Hz (Standard); AC110V±10%, 60Hz (Optional) Internal Size(W*D*H) mm: 308*392*442 External Size(W*D*H) mm: 681*843*840 Gross Weight(kg): 85 	1
4	Top Loading Balance	100gm to 12kg	3
5	Analytical Balance	 (0.0001mg-220) gm Pan size 90mm Internal calibrated Glass winds 	3
6	Laboratory Freezer	 13.60 Cubic Feet 385 Liters Dimensions (H*W*D mm): 895x1242x745 Temp Ref: 0 to 6 Balance Cooling Super Freeze Function Ref & DF Adjustable Type: Chest Freezer 	2

		• 160V – 260V	
		Refrigerant: R600a	
		• 7Food Basket: 1	
		• LED Lights: 2	
		Power On Indicator	
		Climate Class: T	
		Copper Evaporator: 5 sides	
		Capacity: 158L	
		Type: Vertical	
		• Temperature Range: -40 °c ~86 °c	
		• Temp. Accuracy 0.1 °c	
		• External Size: 700x700x1580	
		 Internal Size: 458x430x788 	
	-86°C Ultra Low	Control System: Microprocessor control,	
-	Temperature Lab	LED Display and Lockable Door	
7	Medical Freezer	Gross Weight: 155kg	
		Compressor: 1 Set	1
		Condenser and Evaporator: Made of	
		copper	
		• Caster: 4 casters	
		Chamber with Inner Door: 3	
		• Shelf: 2 pcs	
		Power Supply: AC110V/220+10% 50/50Hz.	
		Glass Door Series Refrigerator	
		Capacity: 9.4 Cu Feet / 267 Liters	
		 Technology: Static refrigeration 	
		technology, suitable for high-temperature	
		areas	
		 Quality: Robust construction, adhering to 	
		European quality standards	
		 Compartment Design: Organized 	
		compartments to prevent mixing of odors	
	Defrigeneter &	drawers total)	
8	Refrigerator &	• Unit Dimensions: Width: 600 mm, Depth:	2
	Freezer	650 mm, Height: 1720 mm	
		• Weight: 83 kg	
		Refrigerant: R600a (environmentally friendly refrigerent)	
		friendly refrigerant)	
		Warranty: 12 Years on Compressor	
		1 Year on Parts Climate Class: Transal	
		Climate Class: Tropical	
		Condenser Type: Rear condenser with wing type design	
		wire type design	
		Foaming Type: Cyclopentane for	
		insulation	
		• Voltage / Frequency: 160V - 260V	
		• Bench top model, micro mill with double	
		head to crush fibrous substances and	
0		cutting hard materials.	
9		• To crush, grind and pulverize dry and	
	Plant compling grinding	brittle plant and other hard samples.	
	Plant sampling grinding	• Motor speed: 0-6000 rpm.	1
L	mill	1 1	

 Sieves: Mesh size 1.0, 1.5, 2.0mm, stainless steel. Safety device: Door contact, Overload protection. External dimensions (W × D × H) 1800 × 750 × 2040 mm Internal dimensions (W × D × H) 1700 × 645 × 610 mm Average airflow speed 0.3 ~ 0.5 m/s 	
• Safety device: Door contact, Overload protection. • External dimensions (W × D × H) 1800 × 750 × 2040 mm • Internal dimensions (W × D × H) 1700 × 645 × 610 mm • Average airflow speed 0.3 ~ 0.5	
protection.• External dimensions (W × D × H) 1800 × 750 × 2040 mm• Internal dimensions (W × D × H) 1700 × 645 × 610 mm• Average airflow speed0.3 ~ 0.5	
 External dimensions (W × D × H) 1800 × 750 × 2040 mm Internal dimensions (W × D × H) 1700 × 645 × 610 mm Average airflow speed 0.3 ~ 0.5 	
$1800 \times 750 \times 2040 \text{ mm}$ • Internal dimensions (W × D × H) 1700 × 645 × 610 mm • Average airflow speed 0.3 ~ 0.5	
 Internal dimensions (W × D × H) 1700 × 645 × 610 mm Average airflow speed 0.3 ~ 0.5 	
1700 × 645 × 610 mm • Average airflow speed 0.3 ~ 0.5	
• Average airflow speed 0.3 ~ 0.5	
0	
m/s	
• HEPA filter efficiency 99.999 % at 0.3	
μm	
• Noise level < 65 dB	
10 Laminar Flow Hood • LED lamp 16 W × 1	1
• UV lamp 40 W × 1	1
UV light emission 253.7 nm	
Power consumption 450 W	
Work surface height 750 mm	
• Waterproof socket ≤ 500 W	
Window glass thickness 5 mm	
Maximum window opening 430 mm	
 Power supply AC 220 V ± 10 %, 50 Hz / 	
60 Hz	
110 V ± 10 %; 60 Hz	
• Voltage V: 110-220	
• Frequency Hz: 50-60	
• Power w: 550	
Working Plate Material	
Cast Aluminum +Ceramic Spraying	
Base Material: Plastic	
Working Size cm: 150*150	
Max Stirring Volume L: 5	
Heating Function: Yes	
11 • Display Mode: LCD	
Motor Type: Dc Brushless Motor	
Hot Plate Magnetic • Speed Range rpm: 100-1600	8
• Speed Control Accuracy rpm: ±10	Ũ
• Timing: 1-99h59min	
 Temperature Control Range °C: RT-300 Temperature Control Accuracy °C: Tray 	
±3	
• Solution: ±0.5	
PT1000: Standard	
Voltage110-120V/220-230V, 50/60Hz	
• Power 60W	
Mixing Motion Orbital	
Orbital Diameter 4mm	
Touch operation or continuous mode	
12 • Variable speed control from 0 to	
2500rpm	7
Vortex Mixers • Suitable for various tube types and	7
mixing applications with optional	
adapters	

		 Specially designed vacuum suction feet 	
		for stability Robust cast aluminum construction 	
		Small footprint	
		Production (kg/24h) 250	
		• Storage (kg) 60	
		• Working ambient temperature +10	
		°C ~+43 °C	
		• Working voltage 220V / 110V± 10%,	
		50/60Hz, single phase	
		• External material 18/8 stainless steel	
		Interior material Food grade ABS	
		Insulation of storage bin PU foamed	
		Compressor SecopRefrigerant CFC-Free, R134a	
13	Ice Machine	 Refrigerant CFC-Free, R134a Bin full alarm Yes 	
		Water interruption alarm Yes	1
		Sensor failure alarm Yes	
		• Water low alarm Yes	
		• External dimension (W/D/H) (mm)	
		682X610X1050	
		Packing dimension (W/D/H)	
		740X670X1080	
		• Net weight/gross weight (kg) 87/93	
		Standard Accessories Ice scoop, water inlet/outlet pipe	
		•Standard Soil Hydrometer	
		• symmetrical bulb with accurate	
		calibration, to read in grams of	
14		soil colloids per liter (Bouyoucos	
	Hydrometer	Scale)	1
	v	•Range: -5-60gm	
		Length: 280mm	
		• Distillate output 4 liters per hour,	
		single distilled	
		Water Supply Requirement 1 liter / min (Min pressure 3 p.s.i)(0.2 x 105	
		NM-2)	
1 -	Single Distillation	pH 5.0 to 6.5	
15	Apparatus	 Conductivity 3.0 to 4.0 μs/cm 	
		Temperature 35 to 50 °C	3
		Pyrogen Content Pyrogen free	3
		Power Requirement 220/240v, 50/60	
		Hz single phase, 13A fused	
		Dimension (d x w x h) 50 x 15 x45 cm • Maximum Speed: 500-7000 rpm	
		induinden operationer i ere i più	
		 Temperature Range: 5 to 40 °C Time Range: 1 to 99 min 	
		 Display: LCD 	
16			
10		 Motor: DC 24V/DC permanent magnet motor 	
	Bench top, Micro	Lid Lock: Automatic electrical lid lock	
	Centrifuge	 Power supply: AC 100-250V, 50/60Hz 	1
		Package dimension (W*D*H): 194x229x120m	
		1 uchage uniterioron (W D 11), 177A447A140111	

			1
		• Maximum Speed: 16000 rpm	
		Maximum Capacity: 4x250ml	
		• Temperature Range: -20 to -40 °C	
		• Time Range: 1 to 99 min	
		Controller: Microprocessor	
		• Display: LED	
1 -		 Motor: Brushless frequency motor 	
17		Lid Lock: Automatic electrical lid lock	
		Froteetion. Over speed and over	
	Refrigerator Centrifuge	temperature protectionPower supply: AC 200/110V, 50/60Hz	1
		 Package dimension (W*D*H): 620x600x360mm 	
		Gross weight: 105Kg Timing range 1~99h59min (0 is forever)	
		Temp. range RT.+5°C~100°C	
		Temp. accuracy $\pm 0.5^{\circ}$ C	
		Temp. Uniformity@37°C ±0.5°C	
		Number of holes 1	
18		Volume 5L×1	
10	Water Bath	Workspace 276×118×98mm×1	1
	Water Dath	Voltage AC 220V 50Hz	1
		Power 700W	
		Dimensions W.360×D.286×H.245mm	
		Net weight 5.1kgs	
		•Lighting: White LED array	
		•Digital display: 3-digit LED	
		•Count: 0 to 999	
		•Dimensions (w x d x h): 12" x 12" x 5.5"	
		•Mass, lbs.: 3.3	
19			
	Colony Counter	•Electrical supply: 120 to 230V, 50	1
	coony counter	/ 60Hz, 70W	-
		Supplied with two Wolffhuegel graticules and dish centering adapters to facilitate use with	
		50mm to 90mm dishes	
		• 0.5-10µl (Accuracy Range + 0.04 µl)	
20		• $10-100\mu$ l (Accuracy Range + 0.15 μ l) • $20,200\mu$ l (Accuracy Range + 0.20 μ l)	
20	Dimette sata	• $20-200\mu$ l (Accuracy Range + 0.30 μ l)	1
	Pipette sets	• 100-1000µ (Accuracy Range + 1.5 µl)	1 set
		Autoclave able	
		• 1. Electrophoresis Apparatus	
		• Type: Horizontal or vertical gel	
		electrophoresis system	
		• Material: High-quality, non-corrosive	
	TT	plastic or glass	
21	Western blotting	• Dimensions: Suitable for standard gel	1
	complete set	sizes (e.g., 10 x 7 cm)	
		Gel Casting Tray: Integrated casting tray	
		with a secure gel comb placement	
		• Electrode Configuration: High-resolution	
		electrode design for uniform current	
		distribution	

 Cooling System: Optional integrated cooling system for heat dissipation Accessories: Include gel combs, casting trays, and sample loading tools Safety Features: Safety lid with an interlock mechanism to prevent operation without closure User Manual: Comprehensive user manual with assembly instructions and troubleshooting guidelines 2. Power Supply Output Voltage: Adjustable range (e.g., 0- 300V) Output Current: Adjustable range (e.g., 0- 1000 mA) Power Rating: Minimum 200W Display: Digital display for voltage and current readings Control Features: Programmable settings for time, voltage, and current Protection: Over-voltage and over-current protection Connectivity: Compatible with standard electrophoresis apparatus Size and Weight: Compact design for easy storage and portability 3. Transfer Membrane Type: Nitrocellulose or PVDF (Polyvinylidene fluoride) Size: Standard sizes (e.g., 0.2 µm pore size, 7 x 8 cm) Binding Capacity: High protein binding capacity 	
-	
•	
• • •	
• -	
• Stability: Chemically stable and	
compatible with various detection	
methods	
 Ease of Use: Pre-cut and ready-to-use membranes 	
 Packaging: Individually sealed to maintain 	
sterility and integrity	
SDS-PAGE Apparatus	
• Type: Vertical SDS-PAGE electrophoresis	
system	
• Material: Durable, non-corrosive materials	
for long-term use	
• Gel Size Compatibility: Supports standard gel sizes (e.g., 10 x 10 cm or 15 x 15 cm)	
 Gel Casting: Easy gel casting system with 	
 Get Casting. Easy get casting system with leak-proof design 	
Sample Loading: User-friendly sample	
loading system with multiple wells	
Cooling System: Integrated cooling option	
to minimize heating during runs	

23	Media Suction pump	 Internal capacity: 92L Door: Single door, silicon rubber packing Shelf plate / bracket (stainless steel): 2pcs. / 4pcs. Power supply (50/60Hz) rated current AC115V / AC220V Configuration: portable Flow: 18 1/min, (4.76 us gal/min) Pressure: Max.: 0.08 MPa Min.: 0.02 MPa Suction jar capacity: 1 1: (0.3 gal) Number of decibels: 65 dB Incubator 115 (UL and CSA) or 230V (CE marked) versions with see through clear polycarbonate or solid stainless- steel doors 	1
22	Dry Oven	 interlock mechanism Accessories: Include gel combs, spacers, and a buffer reservoir User Manual: Detailed instructions for setup, operation, and maintenance Operating temp. range: RT+5~250°C Interior material: Stainless steel Exterior material: Cold rolled steel plate with chemical proofing coating Temp. display Measured temp. display: Green 4-digit LED digital display Timer 1min-99 hr. 59 min and 100 hr- 999 hr. 50 min (with time wait function) Operation functions: Fixed temperature, auto stop, auto start, quick auto stop Additional functions: Deviation correction, Key lock, Power outage compensation Internal dimensions (W*D*H mm): 450×450×450 External dimensions (W*D*H mm): 504×562×820 Internal capacity: 92L 	1

		 um in 2.0 µm increments, from 20.0-60.0 µm in 5.0 µm increments Specimen feed approx. 24 mm 2 mm Vertical stroke: 70 mm Max. sectioning range without retraction: 69 mm (without specimen orientation at 1 µm) Max. sectioning range with retraction: 62 mm The specimen retraction can be turned off manually: 200 µm Width (including handwheel): 413 mm Depth (including waste tray): 618 mm Height (total): 305 mm (with tray on the hood) Working height (knife blade): 168 mm (measured from the table) 	1
26	Fume hood	 Weight (without accessories): approx. 37 kg External size (W*D*H) mm: 1040x800x2200 Internal size (W*D*H) mm: 820x670x730 Work surface height: 850mm Max. Opening: 500mm Air Velocity: 0.3~0.8 m/s Noise: ≤60dB Exhaust Duct: PVC, Standard length 4 m, Ø300mm Fluorescent Lamp: 14W*1 UV Lamp: Emition of 253.7 nm Front Window: 5mm toughened glass, motorized, height adjustable Consumption: 400W Standard Accessory: UV lamp*2, Fluorescent lamp, Water tap, Gas tap, Water sink, Base cabinet, Total load of 2 waterproof sockets 500W, 4-meter PVC exhaust duct, pipe strap. Range (°C / °F): Amb. +5 to 80 / Amb. +9 to 176 	1
27	Orbital Shaking Incubator	 Fluctuation at 37°C (±°C / °F) in flask: 0.1 / 0.18 Variation at 37°C (±°C / °F) in flask: 0.5 / 0.90 Motion type: Orbital Speed range (rpm): 30 to 500 	1
28	Sonicator	 Speed Tange (TpH): 30 to 300 Cooling fan for prolonged operation: 6L and above volume machine. Stamped Stainless Steel 304 tank without welding. Drain pipe on side for easy draining and cleaning. Tank and other metal parts are grounded (ESD-safe). 	3

		 Ceramic heaters for beer heating effect. Side handles for easy handling :3L and above machines. Degas mode to get the cleaning started faster. Adjustable power for maximum versality: for DS-P series machines. Adjustable Heating. Handle. Drain. Lid/Basket. Stainless Steel. Temperature range 0 to 80 c Capacity 6liter 	
29	Autoclave	 Chamber (Inner size capacity): 400x505mmx60 Inner Capacity: 60 Liters Sterilization Temperature: 105-138oC Range of Sterilization time: 1-300 minutes Melting Temperature: 60-100 C Warming temperature: 45-60 C Preset range for cooling lock open temperature: 40-90oC for solid and agar modes and 40-80oC for liquid and waste Preset range for steam exhausting temperature: 73-104oC Exhausting System: Fully automatic internal discharging Embedded with a steam trapping bottle Way of opening lid: Flip type Preset range of timer: 0 minutes- 6 days delayed Preset range of timer: 0.27MPa Controller: Microprocessor controller, Graphic display Chamber and lid: Stainless steel, Shiny polished, Molded silicone rubber Power: AC220/230/240V, 1phase, 50Hz/60Hz Chamber and lid: Stainless steel, Shiny polished, Molded silicone rubber Power: AC220/230/240V, 1phase, 50Hz/60Hz Chamber Dimension: 400x505 Rate power (W): 2900 Auto. Water Supply: Automatic water supply system Rapid Cooling System: Chamber cooling system by 1~2 fans Accessories: Drainage hose, water plate, Exhaust bottle, two stainless steel baskets. 	1
30	Biosafety Cabinet	Biosafety Cabinet Using ECM blower technology, the Logic+ uses the Constant Airflow Profile (CAP) to maintain a precise volume of air as the filters load. In addition, the cabinet will continuously display the HEPA Filter life remaining and cabinet status	1

		Motorial, III -1	
		• Material: High-quality, optically clear	
		quartzPath Length: Standard options (e.g., 1 cm,	
		2 cm) available	
		 Dimensions: 	
		• Width: 10 mm (standard for most	
		applications)	
		• Height: 45 mm (standard size)	
		• Volume: Suitable for small sample	
		volumes (e.g., 3.5 mL for standard	
		cuvettes)	
31	Quartz cuvettes	• Transparency: Excellent UV and visible	5
		light transmission (200 nm to 2000 nm)	
		Surface Quality: Low scattering with	
		polished surfaces to ensure high optical clarity	
		Compatibility: Compatible with standard	
		UV-Vis's spectrophotometers and	
		fluorometers	
		• Cleaning: Resistant to common solvents;	
		easy to clean with appropriate solvents	
		Durability: Scratch-resistant and stable under	
		repeated use	
		• Watts: 75 Watts	
		• Length: 1554 mm	
		• Base: B16	
32		 Base Description: 4 Pin Single Ended (B16) 	
52		• Qtz. OD: 15 mm	
	UV Lamps wired	Wiring: Instant Start	3
	_	Output: Standard	U
		Category: Instant Start	
		• Cell Constants: 0.1, 1.0, 10	
		Reference Temperature: 15-25° user	
		selectable in 0.1° increments	
		• Reference Coefficient: 0.00-4.00%	
		 user selectable at 0.01% increments Ambient Temperature Range: 0 to 50°C 	
33		 Ambient Temperature Range: 0 to 50°C Automatic Temperature Compensation: 	
00		10K NTC	
	Benchtop Conductivity	• Dimensions: 5.9 in (150 mm) x 8.0 in (203	
	Meter	mm)	1
		x 2.8 in (72 mm)	
		Power Supply: 6 x AAA batteries or 115/230 V AC	
		adapter for round-bottom flasks 500 ml	
		Maximum operation temperature 0	
		+450 °C	
		Voltage Supply 230 V AC / 50 Hz	6
34	Heating Mentals	Power 250 W	3
		Operation time continuous	
		Operating temperature +5 + 40 °C	
1		Operating humidity 0 90 % H.r.	

		 Housing Cold rolled steel with painted surface Dimensions inner Ø 105 × 65 mm Dimensions outer Ø 200 x 170 mm Weight approx. 1.5 kg Bio-rad Agarose gel electrophoresis system from 	
35	Agarose gel electrophoresis system	20& amp;ndash: 20.000 bp long. Precast agarose gels are 37 available with TAE or TBE buffer, 1% or 3% agarose, with or without ethidium bromide, and in a range of well configurations from B. wells to 4 rows x 26 wells.	1
36	Spectrophotometer/ Eliza Plate Reader	 Wavelength range: 150 to 1100nm Wavelength scan speed 10, 100, 200, 400, 800, 1,200 2,400, 3,600nm/min Spectral band width: 4 nm (UV 1100)1 nm (UV 1101)2 nm (UV 1102) Optics: Ratio beam principle 	1
37	Field scout soil moisture meter	04 No. Field scout soil moisture meter, 02 No. Hydrocarbon Test kit. 05 No. Waterproof pH meter, 05 Na. Hydro-thermometer	1
38	Sound Level Meter	 Noise dosimeter Ranges: 30 to 130 Db Resolution 0.1 48, Accuracy ±1.0 Dimension: 180×28×27(mm) Display: Dual color LED 	1
39	Air borne particle counter	 Built-in camera for capturing videos and photos that are stored onto internal memory or a microSD card Particle size: 0.3、0.5、1.0、2.5、5.0、10.0µm Counting efficiency: 0.3µm: 50%; >0.5µm : 100% Sampling flowrate: 1CFM (28.3L/min) , Error±2%FS Battery working time: ≥8 hours Charging time: About 5 hours Size: (L320×W220×H210) mm Weight: About 6kg 	1
40	Sludge level detector	Sludge level detector, C910055, Mfr. No. MIC113- 6EA, Description SALMONELLA SLUDGE 3 LEVELS 6EA	1
41	Multichannel Micro Pipettes 8 channel	• 50-300 ul Autoclave able	1
42	Gel Documentation	Gel Documentation System for both DNA and protein, ultra slim, dark room and control unit, CCD camera, Zoom lenses and filters, thermal printer and PC with capturing software	1
43	Dry Bath	Temp/running time can be programmedindividuallyThermo Stat Plus Temp:	1

		-5 to 99	
44	Mini Tank Electro blotter	 chamber with platinum wire electrode panels; safety interlocking lid with attached power supply leads four blotting cassettes with foam pads 16 sheets of 9 x 9 cm blotting filter paper. Transfer area (W x H. cm): 99; footprint (W*L*H, cm): 13 x 18 16.5 	1
45	DNA thermal cycler	 0.2 ml x96 well aluminum block, temperature range of block: 3-99, heating rate: 4/s, cooling rate: 3/s 	1
46	Lux Meter	 Range 0.000 to 1999 Lux 2000 to 19999 Lux 20000 to 50000 Lux Range Setting manual through key buttons 	1
47	Filtration Unit with Suction	 Autofill 50 ml Funnel Only with 0.2 um PES Membrane, 48/pk 40mm Filter Diameter, Permanent vacuum hose connection to minimize set-up time, Made from Class VI Materials, manufactured in a Class 100,000 Clean Room, Manufactured according to 150 13485 standards 	1
48	BOD Analyzer	 Measurement range: 0-4000mg/L Resolution: 2mg/L Measurement time: 5, 7 days optional Measure amount: 6 Culture bottle volume: 580ml Data storage: 5 days Culture temperature: 20±1 Working power: AV220V±10%/50-60Hz Rated power: 20W 	1
49	EC Meter	 pH Range: 0.00 to 14.00 pH EC Range: 0.00 to 6.00 mS/cm TDS Range: 0 to 4000 ppm pH Resolution: 0.1 pH EC Resolution: 0.01 mS/cm TDS Resolution: 10 ppm pH Accuracy: ±0.20 EC/TDS Accuracy: ±2% Full Scale Calibration Solutions: M10007 (pH 7.01) M10032 (1382 ppm) M10442B 1500 ppm Conversion Factor: 0.68 Calibration: Manual at 1 point Temperature Compensation: Automatic from 0 to 50°C 	2

		Probe: SE600 combination pH/EC/TDS	
		probe	
		• Environment: 0 to 50°C / 32 to 122°F;	
		max RH 95%	
		• Battery Type / Battery Life: 1 x 9V	
		alkaline / 150 hours of use	
		• Auto-off: After 8 minutes of non-use	
		• Dimensions: 7.3 x 3.2 x 1.8 inches	
		Weight: 5.8 ounces (with battery)	
		1pc Balo Pipe	
		• 4pc Steel Needles	
		• 1pc Scalpel Handle No 3	
		• 1pc Probe	
50		• 1pc Razor	
50	Dissocting Poppa	2pc Adson Forceps	
	Dissecting Boxes	1pc Dressing Scissor	20
		1pc Iris Scissor	20
		• 1pc Chain Hook	
		1pc Surgical Blade	
		• Flow rate: 1/h 50	
		• Capacity at 10°D TDS*, litres 425	
		• Purified water quality, μ S/cm 0,1	
		- 20	
		 Max. feedwater temp.°C 30 	
51	Water deionizer (Di 425)		
51		• Electrical requirements, V/Hz	
		230/50-60	1
		• Height** x diameter, mm 600 x	1
		100	
		• Approx. depth, mm 115 Approx.	
		weight, kg 3	
		Glass Aquarium with oxygen pump,	_
52	Glass Aquarium	heater and	5
		aquarium stand	
53	CO 2 Cylinder with	CO2 Cylinder along with Gauges and Gas filled	1
	regulator	30kg	_
		• Volume Processing Range: 0.05ml- 3.5L	
		• Power Rating: 576 Watts,	
		RPM Range: 0-30,000 RPM	
54	Digital Homogenizer	• Speed Control Digital Variable Speed 0-	1
		30,000, Noise rating: 68 Db	
		 Weight with stand: 18 pounds, Dimensions: 14x12x24 in. 	
L		Certifications: CE	

NOTE: Supplier will have to deliver the items at Baba Guru Nanak University, Nankana Sahib

Section-VIII: Sample Forms

Notes on the Sample Forms

The Bidder shall complete and submit with its Bid the **Bid Form** and **Price Schedules** pursuant to ITB Clause 2.2.3 & 2.3.4 and in accordance with the requirements included in the Bidding documents.

When requested in the Bid Data Sheet, the Bidder should provide the **Bid Security**, either in the form included hereafter or in another form acceptable to the Procuring Agency, pursuant to ITB Clause 2.3.8

The **Contract Form**, when it is finalized at the time of contract award, should incorporate any corrections or modifications to the accepted Bid resulting from price corrections pursuant to ITB Clause 2.5.6 and GCC Clause 17, acceptable deviations e.g., payment schedule pursuant to GCC 16, spare parts pursuant to ITB Clause 2.3.6 & 2.3.7, or quantity variations pursuant to ITB Clause 2.6.5. The Price Schedule and Schedule of Requirements, deemed to form part of the contract, should be modified accordingly.

The **Performance Guarantee** and **Bank Guarantee for Advance Payment** forms should not be completed by the Bidders at the time of their Bid preparation. Only the successful Bidder will be required to provide Performance Guarantee and bank guarantee for advance payment in accordance with one of the forms indicated herein or in another form acceptable to the Procuring Agency and pursuant to GCC Clause 7.3 and SCC 10, respectively.

The **Manufacturer's Authorization** form should be completed by the Manufacturer, as appropriate, pursuant to ITB Clause 2.3.6(iii).

8.1 Bid Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with the Bid, in case of Single Stage One Envelope Procedure and with the Financial Bid, in case of Single Stage Two Envelope Procedure]

Date: _____

To: Secretary Purchase Committee Baba Guru Nanak University, Nankana Sahib.

Gentleman:

Having examined the Bidding documents including Addenda Nos. *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver *[description of goods and services]* in conformity with the said Bidding documents for the sum of *[total Bid amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to 5 percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring Agency.

We agree to a Bid by this Bid for a period of 90 days from the date fixed to Bid opening under Clause 2.3.9 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.

Until a 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.

We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this ______ day of ______ 20____.

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

8.4. Bidder Profile Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

Sr.#	Particulars		
1.	Name of the company:		
2.	Registered Office:		
Address:			
Office Telephone Numbe	er:		
Fax Number:			
3.	Contact Person:		
Name:			
Personal Telephone Nun	nber:		
Email Address:			
4.	Local office if any:		
Address:	Address:		
Office Telephone Number:			
Fax Number:			
5.	Registration Details:		

a) Audited Financial Statement Attachment/Income Tax Returns (Last _____ years)

Yes No

b) Details of Experience (Last 03 Years)

(i)	Similar Project	Item Name	
	(Agency/Department)		
(ii)	Value of total Projects/Tenders/POs	Amount	

С

8.5. General Information Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

	Particulars		
Company Name			
Abbreviated Name			
National Tax No.	Sales Tax Registration No		
PRA Tax No.			
No. of Employees	Company's Date of		
	Formation		

*Please attach copies of NTN, GST Registration & Professional Tax Certificate

Registered Office	State/Province	
Address		
City/Town	Postal Code	
Phone	Fax	
Email Address	Website Address	

8.6. Affidavit

[To be printed on PKR 100 Stamp Paper, duly attested by oath commissioner. To be attached with Technical Bid]

Name: _____

(Applicant)

I, the undersigned, do hereby certify that all the statements made in the Bidding document and in the supporting documents are true, correct and valid to the best of my knowledge and belief and may be verified by employer if the Employer, at any time, deems it necessary. The undersigned hereby authorize and request the bank, person, company or corporation to furnish any additional information requested by the *[name of Procuring Agency]* of the Punjab deemed necessary to verify this statement regarding my (our) competence and general reputation.

The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the *[name of Procuring Agency]*. The undersigned further affirms on behalf of the firm that:

- (i) The firm is neither currently blacklisted by any Department nor any litigation is pending before PPRA or any other court of law competence in this regard against any such blacklisting order.
- (ii) The documents/photocopies provided with Bid are authentic. In case, any fake/bogus document was found at any stage, the firm shall be blacklisted as per Law/ Rules.
- (iii) Affidavit for correctness of information.
- (iv) Contractor/firm is not blacklisted or subject to any pending litigation with any Government or Public Department

[Name of the Contractor/ Bidder/ Supplier] undertakes to treat all information provided as confidential.

Signed by an authorized Officer of the company

Title of Officer: _____

Name of Company:	
------------------	--

Date:		

8.7. Performance Guarantee Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

Τo,

Baba Guru Nanak University, Nankana Sahib

1. [Please insert details].

(Here in after called "the Contract").

AND WHEREAS it has been stipulated by you in the Contract that the Contractor shall furnish you with a bank guarantee by a scheduled bank for the sum specified therein as security for compliance with the Contractor's performance obligations in accordance with the Contract; **AND WHEREAS** we have agreed to give the Contractor a Guarantee;

THEREFORE WE hereby affirm that we are Guarantor and responsible to you, on behalf of the Contractor, up to a total of _________(Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the Contract, and without cavil or argument, any sum or sums as specified by you, within the limits of _______(Amount of Guarantee) as aforesaid without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until ______ day of _____, 20__, or ______ [insert number of days] after the rectification of the Defects, whichever is later.

[NAME OF GUARANTOR]

Signature	
Name	
Title	
Address	
Seal	
Date	

8.8. Technical Bid Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

Sr no	Item name	Specifications	Quantity	Specifications Quoted by Bidder
1	Compound Microscope	 Compound Biological Trinocular Digital Microscope with Camera and Software (2.0MP), Touch Screen LCD and infinite Optical System, Viewing Head Siedentop Trinocular Viewing Head, Inclined at 30, 360° Rotatable, Interpupillary 50 75mm, Light Distribution: 20:80, Eyepiece WF10K/20 Nosepiece Backward Quadruple Nosepiece Objective Infinity E- Plan objectives 4X, 10X, 40X (s), 100X 100 (s) inclined 45" interpupillary distance 5-4- 75mm, Siedentop f type. Eyepiece/camera port (standard): 100/0 	2	
2	Inverted Digital Microscope	80/20, Fluorescence: 100/00/100 Optical System Infinite Optical System Viewing Head Siedentop f Trinocular Head, Inclined at 45°, Interpupillary Distance 48-76mm, Light distribution (both): 100: 0 (100% for eyepiece), 80:20 (80% for trinocular head, and 20% for eyepiece), Eyepiece Tube Diameter 30mm Eyepiece Wide Field Eyepiece WF10×/ 22mm Objective Long Working Distance Infinite Plan Achromatic Objective 4×/0.11, W.D.=12.1mm Long Working Distance Infinite Plan Achromatic Phase Contrast Objective 10×/0.25, W.D.=8.3mm 20×/0.40, W.D.=7.2mm 40×/0.60, W.D.=3.4mm Nosepiece Backward Quintuple Nosepiece Condenser Long Working Distance 72mm (with condenser), 195mm (without condenser) Phase Annulus 10×, 20×, 40× Phase Annulus Plate Stage Plain Stage 210(X)×240mm(Y), round slide plate: Φ110mm Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 128mm×80mm Petri Dish Holder	1	

				ı
		Φ54mm Focusing Coaxial Coarse and		
		Fine Adjustment, Fine Division		
		0.002mm, Moving Range 10mm		
		Koehler Illumination 6V/30W Halogen		
		Lamp, Brightness Adjustable, input		
		voltage: 100V-240V Filter Blue Filter,		
		Diameter 32mm Green Filter, Diameter		
		32mm C-mount 0.5× C-mount Adapter		
		(focus adjustable) Epi-Fluorescent		
		Attachment Epi-fluorescence attachment		
		with 100W mercury lamp and B, G		
		fluorescent filters, field diaphragm,		
		center adjustable.		
		STC1D-830C 8.3M/IMX274(C)		
		1/2.5"(6.22×3.50) 1.62×1.62 236mV		
		70dB 43dB 30@3840×2160		
		30@1920×1080 30@1280×720		
		30@960×540 1×1 1×1 1×1 0.1-20		
		Capacity: 50L		
		Heating: Air jacket		
		• Temp. Range: RT+5~60°C		
		• Control Type: Temperature and		
		humidity transmitter		
		• Temp. Fluctuation: ≤±0.2℃ (at		
		37°C)		
		• Temp. Uniformity: ≤±0.3℃ (at		
		37°C)		
		• Time Setting: 999h or continuous		
		• Alarm: Audible and visual alarm;		
		Over-temperature alarm; CO2		
		Concentration alarm.		
		• Shelves: 2 pcs/ adjustable		
		Material: External cold-rolled		
		steel with painting; Internal		
		stainless steel		
		• Door: With inner door and		
3	CO 2 Incubator	external door	1	
		CO2 Range: Infrared sensor,		
		range 0~20%		
		CO2 Control Resolution: 0.1%		
		Humidification Type: Water		
		reservoir in the bottom chamber		
		ensures high humidity		
		 (90%≤relative humidity≤99%) 		
		 Sterilization Type: With 90°C 		
		moist heat decontamination		
		function (95%≤humidity≤99%RH)		
		Ambient Temp. & Humidity:		
		18~30°C, suggest 25±2°C; Relative		
		humidity ≤80%		
		Caster: Foot master caster		
		Consumption: 300W		
		• Power Supply: AC220V±10%,		
		50/60Hz (Standard);		
		AC110V±10%, 60Hz (Optional)		

4	Top Loading Balance Analytical Balance	 Internal Size(W*D*H) mm: 308*392*442 External Size(W*D*H) mm: 551*713*765 Packing Size(W*D*H) mm: 681*843*840 Gross Weight(kg): 85 100gm to 12kg (0.0001mg-220) gm Pan size 90mm Internal calibrated Glass winds 	3 3
6	Laboratory Freezer	 13.60 Cubic Feet 385 Liters Dimensions (H*W*D mm): 895x1242x745 Temp Ref: 0 to 6 Balance Cooling Super Freeze Function Ref & DF Adjustable Type: Chest Freezer 160V - 260V Refrigerant: R600a 7Food Basket: 1 LED Lights: 2 Power On Indicator Climate Class: T Copper Evaporator: 5 sides 	2
7	-86°C Ultra Low Temperature Lab Medical Freezer	 Capacity: 158L Type: Vertical Temperature Range: -40 °c ~86 °c Temp. Accuracy 0.1 °c External Size: 700x700x1580 Internal Size: 458x430x788 Control System: Microprocessor control, LED Display and Lockable Door Gross Weight: 155kg Compressor: 1 Set Condenser and Evaporator: Made of copper Caster: 4 casters Chamber with Inner Door: 3 Shelf: 2 pcs Power Supply: AC110V/220+10% 50/50Hz. 	1
8	Refrigerator & Freezer	 Glass Door Series Refrigerator Capacity: 9.4 Cu Feet / 267 Liters 	2

		 Technology: Static refrigeration technology, suitable for high- temperature areas Quality: Robust construction, adhering to European quality standards Compartment Design: Organized compartments to prevent mixing of odors Drawers: Easy-to-clean sliding drawers (7 drawers total) Unit Dimensions: Width: 600 mm, Depth: 650 mm, Height: 1720 mm Weight: 83 kg Refrigerant: R600a (environmentally friendly refrigerant) Warranty: 12 Years on Compressor 1 Year on Parts Climate Class: Tropical Condenser Type: Rear condenser with wire type design Foaming Type: Cyclopentane for insulation Voltage / Frequency: 160V - 260V 	
9	Plant sampling grinding mill	 Bench top model, micro mill with double head to crush fibrous substances and cutting hard materials. To crush, grind and pulverize dry and brittle plant and other hard samples. Motor speed: 0-6000 rpm. Sieves: Mesh size 1.0, 1.5, 2.0mm, stainless steel. Safety device: Door contact, Overload protection. 	1
10	Laminar Flow Hood	 External dimensions (W × D × H) 1800 × 750 × 2040 mm Internal dimensions (W × D × H) 1700 × 645 × 610 mm Average airflow speed 0.3 ~ 0.5 m/s HEPA filter efficiency 99.999 % at 0.3 µm Noise level < 65 dB LED lamp 16 W × 1 UV lamp 40 W × 1 UV light emission 253.7 nm Power consumption 450 W 	1

		 Work surface height 750 mm Waterproof socket ≤ 500 W Window glass thickness 5 	
		mmMaximum window opening	
		430 mm • Power supply AC 220 V ± 10 %,	
		50 Hz / 60 Hz	
		110 V ± 10 %; 60 Hz • Voltage V: 110-220	
		• Frequency Hz: 50-60	
		Power w: 550 Warking Plate Material	
		Working Plate Material Cast Aluminum +Ceramic	
		Spraying	
		Base Material: Plastic	
		• Working Size cm: 150*150	
		 Max Stirring Volume L: 5 Heating Function: Yes 	
		Display Mode: LCD	
11		Motor Type: Dc Brushless	
	Hot Plate	Motor	
	Magnetic	Speed Range rpm: 100-1600Speed Control Accuracy rpm:	8
	Stirrer	±10	
		• Timing: 1-99h59min	
		• Temperature Control Range °C:	
		RT-300Temperature Control Accuracy	
		°C: Tray ±3	
		• Solution: ±0.5	
		PT1000: Standard	
		 Voltage110-120V/220-230V, 50/60Hz 	
		• Power 60W	
		Mixing Motion Orbital	
		Orbital Diameter 4mm	
		Touch operation or continuous mode	
		Variable speed control from 0 to	
12		2500rpm	
	X7	Suitable for various tube types and mining applications with	7
	Vortex Mixers	and mixing applications with optional adapters	7
		 Specially designed vacuum 	
		suction feet for stability	
		Robust cast aluminum	
		construction Small footprint	
		Production (kg/24h) 250	
13	Ice Machine	• Storage (kg) 60	
15	ice machine	• Working ambient temperature	1
		+10 °C ~+43 °C	

		 Working voltage 220V /110V± 10%, 50/60Hz, single phase External material 18/8 	
		stainless steelInterior material Food grade ABS	
		 Insulation of storage bin PU foamed Compressor Secop Refrigerant CFC-Free, R134a Bin full alarm Yes Water interruption alarm Yes Sensor failure alarm Yes 	
		 Water low alarm Yes External dimension (W/D/H) (mm) 682X610X1050 Packing dimension (W/D/H) 740X670X1080 Net weight/gross weight (kg) 	
		87/93 Standard Accessories Ice scoop, water inlet/outlet pipe	
14	Hydrometer	• Standard Soil Hydrometer • symmetrical bulb with accurate calibration, to read in grams of soil colloids per liter (Bouyoucos Scale) • Range: -5-60gm Length: 280mm	1
15	Single Distillation Apparatus	 Distillate output 4 liters per hour, single distilled Water Supply Requirement 1 liter / min (Min pressure 3 p.s.i) (0.2 x 105 NM-2) pH 5.0 to 6.5 Conductivity 3.0 to 4.0 µs/cm Temperature 35 to 50 °C Pyrogen Content Pyrogen free Power Requirement 220/240v, 50/60 Hz single phase, 13A fused Dimension (d x w x h) 50 x 15 x45 cm 	3
16	Bench top, Micro Centrifuge	 Maximum Speed: 500-7000 rpm Temperature Range: 5 to 40 °C Time Range: 1 to 99 min Display: LCD Motor: DC 24V/DC permanent magnet motor Lid Lock: Automatic electrical lid lock 	1

		• Power supply: AC 100-250V,	
		50/60Hz	
		Package dimension (W*D*H): 194x229x120m	
		Maximum Speed: 16000 rpm	
		 Maximum Speed. 10000 Ipin Maximum Capacity: 4x250ml 	
		• Temperature Range: -20 to -40 °C	
		 Time Range: 1 to 99 min 	
		-	
		• Display: LED	
		• Motor: Brushless frequency motor	
		Lid Lock: Automatic electrical lid	
17		lock	
		Protection: Over speed	
	Refrigerator	and over temperature	
	Centrifuge	protectionPower supply: AC 200/110V,	1
		50/60Hz	
		Package dimension	
		(W*D*H):	
		620x600x360mm	
		Gross weight: 105Kg	
		Timing range 1~99h59min (0 is	
		forever)	
		Temp. range RT.+5°C~100°C	
		Temp. accuracy ±0.5℃	
		Temp. Uniformity@37°C ±0.5°C	
18		Number of holes 1	
	Water Bath	Volume 5L×1 Workspace 276×118×98mm×1	1
		Voltage AC 220V 50Hz	
		Power 700W	
		Dimensions W.360×D.286×H.245mm	
		Net weight 5.1kgs	
		•Lighting: White LED array	
		•Digital display: 3-digit LED	
		•Count: 0 to 999	
		•Dimensions (w x d x h): 12" x	
		12" x 5.5"	
19		•Mass, lbs.: 3.3	
	Colony Counter	•Electrical supply: 120 to	1
	Colony Counter	230V, 50 / 60Hz, 70W	1
		Supplied with two Wolffhuegel graticules	
		and dish centering adapters to facilitate	
		use with 50mm to 90mm dishes	
		• 0.5-10µl (Accuracy Range + 0.04	
		μ1)	
00		• 10-100µl (Accuracy Range + 0.15	
20	Dinotto coto	μl)	1 act
	Pipette sets		1 set
		 20-200µl (Accuracy Range + 0.30 	

		• 100-1000µ (Accuracy Range + 1.5	
		μl) Autoclave able	
		 I. Electrophoresis Apparatus Type: Horizontal or vertical gel 	
		electrophoresis system	
		Material: High-quality, non-	
		corrosive plastic or glass	
		Dimensions: Suitable for	
		standard gel sizes (e.g., 10 x 7	
		cm)	
		Gel Casting Tray: Integrated	
		casting tray with a secure gel	
		comb placement	
		Electrode Configuration: High-	
		resolution electrode design for	
		uniform current distribution	
		Cooling System: Optional	
		integrated cooling system for heat	
		dissipationAccessories: Include gel combs,	
		casting trays, and sample loading	
		tools	
		Safety Features: Safety lid with	
		an interlock mechanism to	
		prevent operation without closure	
	Westore	User Manual: Comprehensive	
21	Western blotting	user manual with assembly	
21	complete set	instructions and troubleshooting	
	complete set	guidelines	
		• 2. Power Supply	
		Output Voltage: Adjustable range	
		(e.g., 0-300V)	
		• Output Current: Adjustable	
		range (e.g., 0-1000 mA)Power Rating: Minimum 200W	
		 Display: Digital display for 	
		voltage and current readings	
		Control Features: Programmable	
		settings for time, voltage, and	
		current	
		Protection: Over-voltage and	
		over-current protection	
		Connectivity: Compatible with	
		standard electrophoresis	
		apparatus	
		Size and Weight: Compact design	
		for easy storage and portability	
		• 3. Transfer Membrane	
1		Type: Nitrocellulose or PVDF (Debrainwidden o fluoride)	
		(Polyvinylidene fluoride)	
		 Size: Standard sizes (e.g., 0.2 μm pore size, 7 x 8 cm) 	

		Binding Capacity: High protein	
		binding capacity	
		• Stability: Chemically stable and	
		compatible with various detection	
		methods	
		• Ease of Use: Pre-cut and ready-	
		to-use membranes	
		 Packaging: Individually sealed to 	
		maintain sterility and integrity	
		SDS-PAGE Apparatus	
		• Type: Vertical SDS-PAGE	
		electrophoresis system	
		• Material: Durable, non-corrosive	
		materials for long-term use	
		Gel Size Compatibility: Supports	
		standard gel sizes (e.g., 10 x 10	
		cm or 15 x 15 cm)	
		Gel Casting: Easy gel casting	
		system with leak-proof design	
		• Sample Loading: User-friendly	
		sample loading system with	
		multiple wells	
		Cooling System: Integrated	
		cooling option to minimize	
		heating during runs	
		Safety Features: Safety lid with	
		an interlock mechanism	
		Accessories: Include gel combs,	
		spacers, and a buffer reservoir	
		User Manual: Detailed instructions for	
		setup, operation, and maintenance	
		• Operating temp. range:	
		RT+5~250°C	
		Interior material: Stainless steel	
		Exterior material: Cold rolled	
		steel plate with chemical	
		proofing coating	
		• Temp. display Measured	
		temp. display: Green 4-	
		digit LED digital display	
00		• Timer 1min-99 hr. 59 min and	1
22		100 hr-999 hr. 50 min (with	1
	Dry Oven	time wait function)	
		Operation functions: Fixed temperature oute step	
		temperature, auto stop,	
		auto start, quick auto stop	
		Additional functions: Dariation correction: Kay	
		Deviation correction, Key lock, Power outage	
		compensation	
		 Internal dimensions (W*D*H 	
		mm): 450×450×450	
		11111J. +50^+50^+50	

			Г Γ Γ
		 External dimensions (W*D*H 	
		mm): 504×562×820	
		Internal capacity: 92L	
		Door: Single door, silicon	
		rubber packing	
		Shelf plate / bracket	
		(stainless steel): 2pcs. / 4pcs.	
		Power supply (50/60Hz) rated current	
		AC115V / AC220V	
		Configuration: portable	
		• Flow: 18 l/min, (4.76 us gal/min)	
23		Pressure: Max.: 0.08 MPa	
	Media Suction	Min.: 0.02 MPa	1
	pump	 Suction jar capacity: 1 l: (0.3 gal) 	1
		Number of decibels: 65 dB	
		Incubator 115 (UL and CSA) or 230V (CE	
0.4		marked) versions with see through clear	
24	Laboratory	polycarbonate or solid stainless- steel	
	Incubator	doors	1
		Operating temperature range: +10	
		°C to	
		+35 °C	
		Temperature range during	
		storage: 5 °C to +50°C	
		Relative humidity: max.	
		80% non- condensing	
		 Storage humidity min. 10% 	
		r.H., max. 85% r.H	
		 Section thickness range: 1.0- 	
		60.0 um, Section thickness	
		settings: from 1.0-10.0 µm in	
		1.0 μπ increments, from 10.0-	
		20.0 um in 2.0 µm increments,	
		from 20.0-60.0 µm in 5.0 µm	
		increments	
		Specimen feed approx. 24 mm 2	
25	Microtome	mm	
		• Vertical stroke: 70 mm	
		Max. sectioning range	
		without retraction: 69 mm	
		(without specimen	
		orientation at 1 µm)	
		 Max. sectioning range with 	
		retraction: 62 mm	1
		• The specimen retraction can be	
		turned	
		• off manually: 200 μm	
		• Width (including handwheel): 413	
		mm	
		• Depth (including waste tray): 618	
		mm	
		• Height (total): 305 mm (with	
		tray on the hood)	
L	1		

		- 117-11-1 - 1 - 1 - (1 - 1 - 1 - 1 - 1		
		• Working height (knife blade):		
		168 mm (measured from the table)		
		Weight (without accessories): approx. 37		
		kg		
		• External size (W*D*H) mm:		
		1040x800x2200		
		 Internal size (W*D*H) mm: 		
		820x670x730		
		• Work surface height: 850mm		
		• Max. Opening: 500mm		
		• Air Velocity: 0.3~0.8 m/s		
		• Noise: ≤60dB		
		• Exhaust Duct: PVC, Standard		
26	Fume hood	length 4 m, Ø300mmFluorescent Lamp: 14W*1	1	
20	Funce noou	 UV Lamp: Emition of 253.7 nm 	L	
		Front Window: 5mm toughened		
		glass, motorized, height		
		adjustable		
		Consumption: 400W		
		Standard Accessory: UV lamp*2,		
		Fluorescent lamp, Water tap, Gas tap,		
		Water sink, Base cabinet, Total load of 2		
		waterproof sockets 500W, 4-meter PVC		
		exhaust duct, pipe strap.		
		 Range (°C / °F): Amb. +5 to 80 / Amb. 		
		+9 to 176 • Fluctuation at 37°C (±°C / °F) in		
		flask:		
27				
21	Orbital Shaking	0.1 / 0.18 • Variation at 37℃ (±℃ / ℉) in		
	Incubator	 Variation at 37℃ (±℃ / °F) in flask: 0.5 	1	
	incubator			
		/ 0.90Motion type: Orbital		
		Speed range (rpm): 30 to 500		
		Cooling fan for prolonged operation: 6L		
		and above volume machine.		
		Stamped Stainless Steel 304 tank		
		without welding.		
		• Drain pipe on side for easy draining		
		and cleaning.		
		• Tank and other metal parts are		
~~		grounded (ESD-safe).		
28	Sonicator	• Ceramic heaters for beer heating effect.	3	
		• Side handles for easy handling :3L and above machines.		
		 Degas mode to get the cleaning started 		
		faster. • Adjustable power for maximum		
		versality: for DS-P series machines.		
		Adjustable Heating.		
		• Handle.		
		• Drain.		

29	Autoclave	 Lid/Basket. Stainless Steel. Temperature range 0 to 80 c Capacity 6liter Chamber (Inner size capacity): 400x505mmx60 Inner Capacity: 60 Liters Sterilization Temperature: 105- 138oC Range of Sterilization time: 1-300 minutes Melting Temperature: 60-100 C Warming temperature: 45-60 C Preset range for cooling lock open temperature: 40-90oC for solid and agar modes and 40-80oC for liquid and waste Preset range for steam exhausting temperature: 73- 104oC Exhausting System: Fully automatic internal discharging Embedded with a steam trapping bottle Way of opening lid: Flip type Preset range of timer: 0 minutes- 6 days delayed Preset range of timer: 0.27MPa Controller: Microprocessor controller, Graphic display Chamber and lid: Stainless steel, Shiny polished, Molded silicone rubber Power: AC220/230/240V, 1phase, 50Hz/60Hz Chamber Dimension: 400x505 Rate power (W): 2900 Auto. Water Supply: Automatic water supply: Automatic 	1
		Chamber Dimension: 400x505Rate power (W): 2900	
30	Biosafety Cabinet	Biosafety Cabinet Using ECM blower technology, the Logic+ uses the Constant Airflow Profile (CAP) to maintain a precise volume of air as the filters load. In addition, the cabinet will continuously display the HEPA Filter life remaining and cabinet status	1

31	Quartz cuvettes	 Material: High-quality, optically clear quartz Path Length: Standard options (e.g., 1 cm, 2 cm) available Dimensions: Width: 10 mm (standard for most applications) Height: 45 mm (standard size) Volume: Suitable for small sample volumes (e.g., 3.5 mL for standard cuvettes) Transparency: Excellent UV and visible light transmission (200 nm to 2000 nm) Surface Quality: Low scattering with polished surfaces to ensure high optical clarity Compatibility: Compatible with standard UV-Vis's spectrophotometers and fluorometers Cleaning: Resistant to common solvents; easy to clean with appropriate solvents Durability: Scratch-resistant and stable under repeated use 	5
32	UV Lamps wired	 Watts: 75 Watts Length: 1554 mm Base: B16 Base Description: 4 Pin Single Ended (B16) Qtz. OD: 15 mm Wiring: Instant Start Output: Standard Category: Instant Start 	3
33	Benchtop Conductivity Meter	 Cell Constants: 0.1, 1.0, 10 Reference Temperature: 15-25° user selectable in 0.1° increments Reference Coefficient: 0.00- 4.00% user selectable at 0.01% increments Ambient Temperature Range: 0 to 50°C Automatic Temperature Compensation: 10K NTC Dimensions: 5.9 in (150 mm) x 8.0 in (203 mm) x 2.8 in (72 mm) Power Supply: 6 x AAA batteries or 115/230 V AC adapter 	1
34	Heating Mentals	for round-bottom flasks 500 ml Maximum operation temperature 0 +450 °C	3

			· · · · · · · · · · · · · · · · · · ·
		Voltage Supply 230 V AC / 50 Hz Power 250 W	
		Operation time continuous	
l		Operating temperature +5 + 40 °C	
		Operating humidity 0 90 % H.r.	
		Housing Cold rolled steel with	
		painted surface	
		Dimensions inner	
		Ø 105 × 65 mm	
		Dimensions outer	
		Ø 200 x 170 mm	
		Weight approx. 1.5 kg	
		Bio-rad Agarose gel electrophoresis	
		system from 20& amp;ndash:	
		20.000 bp long. Precast agarose gels	
35	Agarose gel	are 37 available with TAE or TBE	
	electrophoresis	buffer, 1% or 3% agarose, with or without ethidium bromide, and in a	
	system	range of well configurations from B.	1
		wells to 4 rows x 26 wells.	
		Wavelength range: 150 to	
		1100nm	
		• Wavelength scan speed 10, 100,	
		200,	
06	Spectrophotom	400, 800, 1,200 2,400,	
36	eter/	3,600nm/min	
	Eliza Plate	• Spectral band width: 4 nm	1
	Reader	(UV 1100)1 nm (UV 1101)2	
		nm (UV 1102)	
		Optics: Ratio beam principle	
	Field scout soil	04 No. Field scout soil moisture	
37	moisture	meter, 02 No. Hydrocarbon Test kit.	
	meter	05 No. Waterproof pH meter, 05 Na.	1
		Hydro-thermometer • Noise dosimeter Ranges: 30 to	
		Noise dosimeter Ranges: 30 to 130 Db	
38	Sound Level	 Resolution 0.1 48, Accuracy ±1.0 	1
00	Meter	• Dimension: 180×28×27(mm)	-
		Display: Dual color LED	
		Built-in camera for capturing	
		videos and photos that are stored	
		onto internal memory or a	
		microSD card	
	Air borne	• Particle size: 0.3、0.5、1.0、2.5	
39	particle	、5.0、10.0μm	1
0,	counter	• Counting efficiency: 0.3μm:	-
		50%; >0.5μm: 100%	
		Sampling flowrate: 1CFM	
		(28.3L/min), Error±2%FS	
		• Battery working time: ≥8 hours	
		Charging time: About 5 hours	

		• Size: (L320×W220×H210) mm	
40	Sludge level detector	Weight: About 6kg Sludge level detector, C910055, Mfr. No. MIC113-6EA, Description SALMONELLA SLUDGE 3 LEVELS 6EA	1
41	Multichannel Micro Pipettes 8 channel	• 50-300 ul Autoclave able	1
42	Gel Documentation	Gel Documentation System for both DNA and protein, ultra slim, dark room and control unit, CCD camera, Zoom lenses and filters, thermal printer and PC with capturing software	1
43	Dry Bath	Temp/running time can be programmed individually Thermo Stat Plus Temp: -5 to 99	1
44	Mini Tank Electro blotter	 chamber with platinum wire electrode panels; safety interlocking lid with attached power supply leads four blotting cassettes with foam pads 16 sheets of 9 x 9 cm blotting filter paper. Transfer area (W x H. cm): 99; footprint (W*L*H, cm): 13 x 18 16.5 	1
45	DNA thermal cycler	 0.2 ml x96 well aluminum block, temperature range of block: 3-99, heating rate: 4/s, cooling rate: 3/s 	1
46	Lux Meter	 Range 0.000 to 1999 Lux 2000 to 19999 Lux 20000 to 50000 Lux Range Setting manual through key buttons 	1
47	Filtration Unit with Suction	 Autofill 50 ml Funnel Only with 0.2 um PES Membrane, 48/pk 40mm Filter Diameter, Permanent vacuum hose connection to minimize set- up time, Made from Class VI Materials, manufactured in a Class 100,000 Clean Room, Manufactured according to 150 13485 standards 	1

48	BOD Analyzer	 Measurement range: 0-4000mg/L Resolution: 2mg/L Measurement time: 5, 7 days optional Measure amount: 6 Culture bottle volume: 580ml Data storage: 5 days Culture temperature: 20±1 Working power: AV220V±10%/50-60Hz Rated power: 20W pH Range: 0.00 to 14.00 pH 	1	
49	EC Meter	 EC Range: 0.00 to 6.00 mS/cm TDS Range: 0 to 4000 ppm pH Resolution: 0.1 pH EC Resolution: 0.01 mS/cm TDS Resolution: 10 ppm pH Accuracy: ±0.20 EC/TDS Accuracy: ±2% Full Scale Calibration Solutions: M10007 (pH 7.01) M10032 (1382 ppm) M10442B 1500 ppm Conversion Factor: 0.68 Calibration: Manual at 1 point Temperature Compensation: Automatic from 0 to 50°C Probe: SE600 combination pH/EC/TDS probe Environment: 0 to 50°C / 32 to 122°F; max RH 95% Battery Type / Battery Life: 1 x 9V alkaline / 150 hours of use Auto-off: After 8 minutes of non- use Dimensions: 7.3 x 3.2 x 1.8 inches Weight: 5.8 ounces (with battery) 	2	
50	Dissecting Boxes	 1pc Balo Pipe 4pc Steel Needles 1pc Scalpel Handle No 3 1pc Probe 1pc Razor 2pc Adson Forceps 1pc Dressing Scissor 1pc Iris Scissor 1pc Chain Hook 1pc Surgical Blade 	20	
51	Water deionizer (Di 425)	 Flow rate: 1/h 50 Capacity at 10°D TDS*, liters 425 	1	

		 Purified water quality, μS/cm 0,1 - 20 Max. feedwater temp °C 30 Electrical requirements, V/Hz 230/50-60 Height** x diameter, mm 600 x 100 Approx. depth, mm 115 Approx. weight, kg 3 	
52	Glass Aquarium	 Glass Aquarium with oxygen pump, heater and aquarium stand 	5
53	CO 2 Cylinder with regulator	CO2 Cylinder along with Gauges and Gas filled 30kg	1
54	Digital Homogenizer	 Volume Processing Range: 0.05ml- 3.5L Power Rating: 576 Watts, RPM Range: 0-30,000 RPM Speed Control Digital Variable Speed 0-30,000, Noise rating: 68 Db Weight with stand: 18 pounds, Dimensions: 14x12x24 in. Certifications: CE 	1

Stamp & Signature of Bidder _____

8.9. Contract Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

THIS AGREEMENT made on the _____ day of _____ 20____ between [name of Procuring Agency] of [country of Procuring Agency] (hereinafter called "the Procuring Agency") on the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called "the Supplier") on the other part:

WHEREAS the Procuring Agency invited Bids for certain goods and ancillary services, viz., [brief description of goods and services] and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of [contract price in words and figures] (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH 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 construed 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; and
- (f) the Procuring Agency's Notification of Award.
- (g) Contract agreement
- (h) Complete Bidding document

3. In consideration of the payments to be made by the Procuring Agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Agency to provide the goods and services and to rectify defects therein in conformity with all respects in accordance with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the rectification 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 mentioned above.

Signed, sealed, delivered by	the	(for	the	Procuring
Agency)				
Signed, sealed, delivered by	the	(for the	ne Sup	plier)

8.10. Financial Bid Form/Price Schedule

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Financial Bid]

Sr no	Item name	Specifications	Quantity	Unit Price	Total price (inclusive of all taxes & duties etc.)
1	Compound Microscope	 Compound Biological Trinocular Digital Microscope with Camera and Software (2.0MP), Touch Screen LCD and infinite Optical System, Viewing Head Siedentop Trinocular Viewing Head, Inclined at 30, 360° Rotatable, Interpupillary 50 75mm, Light Distribution: 20:80, Eyepiece WF10K/20 Nosepiece Backward Quadruple Nosepiece Objective Infinity E-Plan objectives 4X, 10X, 40X (s), 100X 100 (s) inclined 45" interpupillary distance 5-4- 75mm, Siedentop f type. Eyepiece/camera port (standard): 100/0 80/20, Fluorescence: 100/00/100 	2		
2	Inverted Digital Microscope	Optical System Infinite Optical System Viewing Head Siedentop f Trinocular Head, Inclined at 45°, Interpupillary Distance 48-76mm, Light distribution (both): 100: 0 (100% for eyepiece), 80:20 (80% for trinocular head, and 20% for eyepiece), Eyepiece Tube Diameter 30mm Eyepiece Wide Field Eyepiece WF10×/ 22mm Objective Long Working Distance Infinite Plan Achromatic Objective 4×/0.11, W.D.=12.1mm Long Working Distance Infinite Plan Achromatic Phase Contrast Objective 10×/0.25, W.D.=8.3mm 20×/0.40, W.D.=7.2mm 40×/0.60, W.D.=3.4mm Nosepiece Backward Quintuple Nosepiece Condenser Long Working Distance Condenser, N.A. 0.3, Working Distance 72mm (with condenser), 195mm (without condenser) Phase Annulus 10×, 20×, 40× Phase Annulus Plate Stage Plain Stage 210(X)×240mm(Y), round slide plate: Φ110mm Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 128mm×80mm Petri Dish Holder Φ54mm Focusing Coaxial Coarse and	1		

	Fine Adjustment, Fine Division 0.002mm, Moving Range 10mm Koehler Illumination 6V/30W Halogen Lamp, Brightness Adjustable, input voltage: 100V-240V Filter Blue Filter, Diameter 32mm Green Filter, Diameter 32mm C- mount 0.5× C-mount Adapter (focus adjustable) Epi-Fluorescent Attachment Epi-fluorescence attachment with 100W mercury lamp and B, G fluorescent filters, field diaphragm, center adjustable. STC1D-830C 8.3M/IMX274(C) 1/2.5"(6.22×3.50) 1.62×1.62 236mV 70dB 43dB 30@3840×2160 30@1920×1080 30@1280×720 30@960×540 1×1 1×1 1×1 0.1-20		
3 CO 2 Incubator	 Capacity: 50L Heating: Air jacket Temp. Range: RT+5~60°C Control Type: Temperature and humidity transmitter Temp. Fluctuation: ≤±0.2°C (at 37°C) Temp. Uniformity: ≤±0.3°C (at 37°C) Time Setting: 999h or continuous Alarm: Audible and visual alarm; Over-temperature alarm; CO2 Concentration alarm. Shelves: 2 pcs/ adjustable Material: External cold-rolled steel with painting; Internal stainless steel Door: With inner door and external door CO2 Range: Infrared sensor, range 0~20% CO2 Control Resolution: 0.1% Humidification Type: Water reservoir in the bottom chamber ensures high humidity (90%≤relative humidity≤99%) Sterilization Type: With 90°C moist heat decontamination function (95%≤humidity≤99%RH) Ambient Temp. & Humidity: 18~30°C, suggest 25±2°C; Relative humidity ≤80% Caster: Foot master caster Consumption: 300W Power Supply: AC220V±10%, 50/60Hz (Standard); AC110V±10%, 60Hz (Optional) Internal Size(W*D*H) mm: 308*392*442 	1	

		• External Size(W*D*H) mm:		
		 External Size(W D H) IIIII. 551*713*765 Packing Size(W*D*H) mm: 681*843*840 Gross Weight(kg): 85 		
4	Top Loading Balance	100gm to 12kg • (0.0001mg-220) gm	3	
5	Analytical Balance	 Pan size 90mm Internal calibrated Glass winds 	3	
6	Laboratory Freezer	 13.60 Cubic Feet 385 Liters Dimensions (H*W*D mm): 895x1242x745 Temp Ref: 0 to 6 Balance Cooling Super Freeze Function Ref & DF Adjustable Type: Chest Freezer 160V - 260V Refrigerant: R600a 7Food Basket: 1 LED Lights: 2 Power On Indicator Climate Class: T Copper Evaporator: 5 sides 	2	
7	-86°C Ultra Low Temperature Lab Medical Freezer	 Capacity: 158L Type: Vertical Temperature Range: -40 °c ~86 °c Temp. Accuracy 0.1 °c External Size: 700x700x1580 Internal Size: 458x430x788 Control System: Microprocessor control, LED Display and Lockable Door Gross Weight: 155kg Compressor: 1 Set Condenser and Evaporator: Made of copper Caster: 4 casters Chamber with Inner Door: 3 Shelf: 2 pcs Power Supply: AC110V/220+10% 	1	
8	Refrigerator	 50/50Hz. Glass Door Series Refrigerator Capacity: 9.4 Cu Feet / 267 Liters Technology: Static refrigeration technology, suitable for high- temperature areas Quality: Robust construction, adhering to European quality standards 	2	

		 Compartment Design: Organized compartments to prevent mixing of odors Drawers: Easy-to-clean sliding drawers (7 drawers total) Unit Dimensions: Width: 600 mm, Depth: 650 mm, Height: 1720 mm Weight: 83 kg Refrigerant: R600a (environmentally friendly refrigerant) Warranty: 12 Years on Compressor 1 Year on Parts Climate Class: Tropical Condenser Type: Rear condenser with wire type design Foaming Type: Cyclopentane for insulation 		
9	Plant sampling grinding mill	 Voltage / Frequency: 160V - 260V Bench top model, micro mill with double head to crush fibrous substances and cutting hard materials. To crush, grind and pulverize dry and brittle plant and other hard samples. Motor speed: 0-6000 rpm. Sieves: Mesh size 1.0, 1.5, 2.0mm, stainless steel. Safety device: Door contact, Overload 	1	
10	Laminar Flow Hood	 protection. External dimensions (W × D × H) 1800 × 750 × 2040 mm Internal dimensions (W × D × H) 1700 × 645 × 610 mm Average airflow speed 0.3 ~ 0.5 m/s HEPA filter efficiency 99.999 % at 0.3 μm Noise level < 65 dB LED lamp 16 W × 1 UV lamp 40 W × 1 UV light emission 253.7 nm Power consumption 450 W Work surface height 750 mm Waterproof socket ≤ 500 W Window glass thickness 5 mm Maximum window opening 430 mm 	1	

				1	
		• Power supply AC 220 V \pm 10 %,			
		50 Hz / 60 Hz			
		110 V ± 10 %; 60 Hz			
		• Voltage V: 110-220			
		• Frequency Hz: 50-60			
		• Power w: 550			
		Working Plate Material			
		Cast Aluminum +Ceramic			
		Spraying			
		Base Material: Plastic			
		 Working Size cm: 150*150 			
		 Max Stirring Volume L: 5 			
		Heating Function: Yes Display Made: LCD			
11		Display Mode: LCD			
		Motor Type: Dc Brushless Motor			
	Hot Plate	• Speed Range rpm: 100-1600	_		
	Magnetic Stirrer	Speed Control Accuracy rpm:	8		
	Surrer	±10			
		Timing: 1-99h59min			
		 Temperature Control Range °C: 			
		RT-300			
		Temperature Control Accuracy			
		°C: Tray ±3			
		• Solution: ±0.5			
		PT1000: Standard			
		• Voltage110-120V/220-230V,			
		50/60Hz			
		• Power 60W			
		Mixing Motion Orbital			
		Orbital Diameter 4mm			
		Touch operation or continuous			
		mode			
		 Variable speed control from 0 to 			
12		2500rpm			
		 Suitable for various tube types 			
	Vortex Mixers	and mixing applications with	7		
	· or con miners	optional adapters	,		
		Specially designed vacuum			
		suction feet for stability			
		Robust cast aluminum			
		construction			
		Small footprint			
		• Production $(kg/24h)$ 250			
		• Storage (kg) 60			
		Working ambient temperature			
		+10 °C ~+43 °C			
		Working voltage 220V			
		/110V± 10%, 50/60Hz, single			
13	Ice Machine	phase	1		
		• External material 18/8	1		
		stainless steel			
		Interior material Food grade			
		ABS			
		Insulation of storage bin PU			
		foamed			
L	I			I	

			[<u>τ</u>	
		 Compressor Secop 			
		• Refrigerant CFC-Free, R134a	1		
		Bin full alarm Yes			
		Water interruption alarm Yes			
		Sensor failure alarm Yes			
		Water low alarm Yes			
		• External dimension (W/D/H) (mm)			
		682X610X1050			
		 Packing dimension (W/D/H) 			
		740X670X1080			
		 Net weight/gross weight (kg) 87/93 			
		Standard Accessories Ice scoop, water inlet/outlet pipe			
				<u> </u>	
		• Standard Soil Hydrometer	1		
		•symmetrical bulb with	1		
		accurate calibration, to	1		
14		read in grams of soil	1		
	TT days t	colloids per liter	1		
	Hydrometer	(Bouyoucos Scale)	1		
		•Range: -5-60gm			
		Length: 280mm	1		
		Distillate output 4 liters per			
		hour, single distilled	1		
		Water Supply Requirement 1	1		
			1		
		liter / min (Min pressure 3 p.s.i)	1		
	_	(0.2 x 105 NM-2)	1		
	Single	pH 5.0 to 6.5	1		
15	Distillation	 Conductivity 3.0 to 4.0 μs/cm 	1		
	Apparatus	Temperature 35 to 50 °C	1		
		Pyrogen Content Pyrogen free	3		
		Power Requirement 220/240v,	1		
		50/60 Hz single phase, 13A			
		fused	1		
		Dimension (d x w x h) 50 x 15 x45 cm	1		
		Maximum Speed: 500-7000 rpm		<u> </u>	
			1		
		• Temperature Range: 5 to 40 °C	1		
		• Time Range: 1 to 99 min	1		
		• Display: LCD	1		
		• Motor: DC 24V/DC permanent	1		
1.0		magnet motor	1		
16		Lid Lock: Automatic electrical lid	1		
	Bench top,		1		
	Micro	lock	1		
	Centrifuge	• Power supply: AC 100-250V,	1		
	Continuge	50/60Hz	1		
		Package dimension (W*D*H):	1		
		194x229x120m	1		
		Maximum Speed: 16000 rpm			
			1		
		Maximum Capacity: 4x250ml	1		
17		• Temperature Range: -20 to -40 °C	1		
17		• Time Range: 1 to 99 min			
17		• Time Range: 1 to 99 min			
17					

	Refrigerator	Motor: Brushless frequency motor	1	
	Centrifuge	 Lid Lock: Automatic electrical lid 	-	
		lock		
		Protection: Over speed		
		and over temperature		
		protection		
		• Power supply: AC 200/110V,		
		50/60Hz		
		Package dimension		
		(W*D*H):		
		620x600x360mm		
		Gross weight: 105Kg		
		Timing range 1~99h59min (0 is forever) Temp. range RT.+5°C~100°C		
		Temp. accuracy ±0.5°C		
		Temp. Uniformity@37°C ±0.5°C		
		Number of holes 1		
18		Volume 5L×1		
	Water Bath	Workspace 276×118×98mm×1	1	
		Voltage AC 220V 50Hz		
		Power 700W Dimensions W.360×D.286×H.245mm		
		Net weight 5.1kgs		
		•Lighting: White LED array		
		•Digital display: 3-digit LED		
		•Count: 0 to 999		
	Colony	•Dimensions (w x d x h): 12" x 12"		
		x 5.5"		
19		•Mass, lbs.: 3.3		
		•Electrical supply: 120 to	1	
	Counter	230V, 50 / 60Hz, 70W	-	
		Supplied with two Wolffhuegel graticules		
		and dish centering adapters to facilitate		
		use with 50mm to 90mm dishes • 0.5-10μl (Accuracy Range + 0.04		
		• 0.5-10µ1 (Accuracy Range + 0.04 µl)		
		• 10-100µl (Accuracy Range + 0.15		
20		• 20-200µl (Accuracy Range + 0.30		
	Pipette sets		1 set	
	•	• 100-1000µ (Accuracy Range + 1.5		
		μl)		
		Autoclave able		
		• 1. Electrophoresis Apparatus		
		• Type: Horizontal or vertical gel		
	Western	electrophoresis system		
21	blotting	• Material: High-quality, non-	1	
	complete set	corrosive plastic or glass		
		• Dimensions: Suitable for standard		
L		gel sizes (e.g., 10 x 7 cm)		

	Gel Casting Tray: Integrated	
	casting tray with a secure gel	
	comb placement	
	Electrode Configuration: High-	
	resolution electrode design for	
	uniform current distribution	
	Cooling System: Optional	
	integrated cooling system for heat	
	dissipation	
	Accessories: Include gel combs,	
	casting trays, and sample loading	
	tools	
	Safety Features: Safety lid with an	
	interlock mechanism to prevent	
	operation without closure	
	User Manual: Comprehensive user	
	manual with assembly	
	instructions and troubleshooting	
	guidelines	
	• 2. Power Supply	
	Output Voltage: Adjustable range	
	(e.g., 0-300V)	
	Output Current: Adjustable range	
	(e.g., 0-1000 mA)	
	Power Rating: Minimum 200W	
	Display: Digital display for voltage	
	and current readings	
	Control Features: Programmable	
	settings for time, voltage, and	
	current	
	Protection: Over-voltage and over-	
	current protection	
	Connectivity: Compatible with	
	standard electrophoresis	
	apparatus	
	Size and Weight: Compact design	
	for easy storage and portability	
	3. Transfer Membrane	
	Type: Nitrocellulose or PVDF	
	(Polyvinylidene fluoride)	
	 Size: Standard sizes (e.g., 0.2 μm 	
	pore size, 7 x 8 cm)	
	Binding Capacity: High protein	
	binding capacity	
	Stability: Chemically stable and	
	compatible with various detection	
	methods	
	• Ease of Use: Pre-cut and ready-to-	
	use membranes	
	Packaging: Individually sealed to	
	maintain sterility and integrity	
	SDS-PAGE Apparatus	
LL		

		 Type: Vertical SDS-PAGE electrophoresis system Material: Durable, non-corrosive materials for long-term use Gel Size Compatibility: Supports standard gel sizes (e.g., 10 x 10 cm or 15 x 15 cm) Gel Casting: Easy gel casting 		
		 system with leak-proof design Sample Loading: User-friendly sample loading system with multiple wells Cooling System: Integrated cooling option to minimize heating during runs Safety Features: Safety lid with an 		
		 interlock mechanism Accessories: Include gel combs, spacers, and a buffer reservoir User Manual: Detailed instructions for setup, operation, and maintenance 		
22	Dry Oven	 Operating temp. range: RT+5~250°C Interior material: Stainless steel Exterior material: Cold rolled steel plate with chemical proofing coating Temp. display Measured temp. display: Green 4-digit LED digital display Timer 1min-99 hr. 59 min and 100 hr-999 hr. 50 min (with time wait function) Operation functions: Fixed temperature, auto stop, auto start, quick auto stop Additional functions: Deviation correction, Key lock, Power outage compensation Internal dimensions (W*D*H mm): 450×450×450 External dimensions (W*D*H mm): 504×562×820 Internal capacity: 92L Door: Single door, silicon rubber packing Shelf plate / bracket (stainless steel): 2pcs. / 4pcs. Power supply (50/60Hz) rated current AC115V / AC220V 	1	
23	Media Suction pump	 Configuration: portable Flow: 18 l/min, (4.76 us gal/min) Pressure: Max.: 0.08 MPa Min.: 0.02 MPa 	1	

		• Subtion ion consistent 1 i: $(0.2 - 1)$		
		• Suction jar capacity: 1 l: (0.3 gal)		
24	Laboratory Incubator	Number of decibels: 65 dBIncubator 115 (UL and CSA) or 230V (CEmarked) versions with see through clearpolycarbonate or solid stainless- steeldoors	1	
25	Microtome	 Operating temperature range: +10 °C to +35 °C Temperature range during storage: 5 °C to +50°C Relative humidity: max. 80% non- condensing Storage humidity min. 10% r.H., max. 85% r.H Section thickness range: 1.0-60.0 um, Section thickness range: 1.0-60.0 um, Section thickness settings: from 1.0-10.0 µm in 1.0 µπ increments, from 10.0-20.0 um in 2.0 µm increments, from 20.0- 60.0 µm in 5.0 µm increments Specimen feed approx. 24 mm 2 mm Vertical stroke: 70 mm Max. sectioning range without retraction: 69 mm (without specimen orientation at 1 µm) Max. sectioning range with retraction: 62 mm The specimen retraction can be turned off manually: 200 µm Width (including handwheel): 413 mm Depth (including waste tray): 618 mm Height (total): 305 mm (with tray on the hood) Working height (knife blade): 168 mm (measured from the table) Weight (without accessories): approx. 37 kg 	1	
26	Fume hood	 External size (W*D*H) mm: 1040x800x2200 Internal size (W*D*H) mm: 820x670x730 Work surface height: 850mm Max. Opening: 500mm Air Velocity: 0.3~0.8 m/s Noise: ≤60dB Exhaust Duct: PVC, Standard 	1	

		 Fluorescent Lamp: 14W*1 UV Lamp: Emition of 253.7 nm Front Window: 5mm toughened glass, motorized, height adjustable Consumption: 400W Standard Accessory: UV lamp*2, Fluorescent lamp, Water tap, Gas tap, Water sink, Base cabinet, Total load of 2 waterproof sockets 500W, 4-meter PVC exhaust duct, pipe strap. 		
27	Orbital Shaking Incubator	 Range (°C / °F): Amb. +5 to 80 / Amb. +9 to 176 Fluctuation at 37°C (±°C / °F) in flask: 0.1 / 0.18 Variation at 37°C (±°C / °F) in flask: 0.5 / 0.90 Motion type: Orbital Speed range (rpm): 30 to 500 	1	
28	Sonicator	 Cooling fan for prolonged operation: 6L and above volume machine. Stamped Stainless Steel 304 tank without welding. Drain pipe on side for easy draining and cleaning. Tank and other metal parts are grounded (ESD-safe). Ceramic heaters for beer heating effect. Side handles for easy handling :3L and above machines. Degas mode to get the cleaning started faster. Adjustable power for maximum versality: for DS-P series machines. Adjustable Heating. Handle. Drain. Lid/Basket. Stainless Steel. Temperature range 0 to 80 c Capacity 6liter 	3	
29	Autoclave	 Chamber (Inner size capacity): 400x505mmx60 Inner Capacity: 60 Liters Sterilization Temperature: 105- 138oC Range of Sterilization time: 1-300 minutes Melting Temperature: 60-100 C Warming temperature: 45-60 C 	1	

		 Preset range for cooling lock open temperature: 40-90oC for solid and agar modes and 40-80oC for liquid and waste Preset range for steam exhausting temperature: 73-104oC Exhausting System: Fully automatic internal discharging Embedded with a steam trapping bottle Way of opening lid: Flip type Preset range of timer: 0 minutes- 6 days delayed Preset range of timer: 0-0.6MPa Rated working pressure: 0.27MPa Controller: Microprocessor controller, Graphic display Chamber and lid: Stainless steel, Shiny polished, Molded silicone rubber Power: AC220/230/240V, 1phase, 50Hz/60Hz Chamber Dimension: 400x505 Rate power (W): 2900 Auto. Water Supply: Automatic water supply system Rapid Cooling System: Chamber cooling system by 1~2 fans Accessories: Drainage hose, water plate, Exhaust bottle, two stainless steel baskets. 			
30	Biosafety Cabinet	 Biosafety Cabinet Using ECM blower technology, the Logic+ uses the Constant Airflow Profile (CAP) to maintain a precise volume of air as the filters load. In addition, the cabinet will continuously display the HEPA Filter life remaining and cabinet status 	1		
31	Quartz cuvettes	 Material: High-quality, optically clear quartz Path Length: Standard options (e.g., 1 cm, 2 cm) available Dimensions: Width: 10 mm (standard for most applications) Height: 45 mm (standard size) Volume: Suitable for small sample volumes (e.g., 3.5 mL for standard cuvettes) Transparency: Excellent UV and visible light transmission (200 nm to 2000 nm) 	5		

		 Surface Quality: Low scattering with polished surfaces to ensure high optical clarity Compatibility: Compatible with standard UV-Vis's spectrophotometers and fluorometers Cleaning: Resistant to common solvents; easy to clean with appropriate solvents Durability: Scratch-resistant and stable under repeated use 		
32	UV Lamps wired	 Watts: 75 Watts Length: 1554 mm Base: B16 Base Description: 4 Pin Single Ended (B16) Qtz. OD: 15 mm Wiring: Instant Start Output: Standard Category: Instant Start 	3	
33	Benchtop Conductivity Meter	 Cell Constants: 0.1, 1.0, 10 Reference Temperature: 15-25° user selectable in 0.1° increments Reference Coefficient: 0.00- 4.00% user selectable at 0.01% increments Ambient Temperature Range: 0 to 50°C Automatic Temperature Compensation: 10K NTC Dimensions: 5.9 in (150 mm) x 8.0 in (203 mm) x 2.8 in (72 mm) Power Supply: 6 x AAA batteries or 115/230 V AC adapter 	1	
34	Heating Mentals	for round-bottom flasks 500 ml Maximum operation temperature 0 +450 °C Voltage Supply 230 V AC / 50 Hz Power 250 W Operation time continuous Operating temperature +5 + 40 °C Operating humidity 0 90 % H.r. Housing Cold rolled steel with painted surface Dimensions inner Ø 105 × 65 mm Dimensions outer Ø 200 x 170 mm Weight approx. 1.5 kg	3	

35	Agarose gel electrophores is system	Bio-rad Agarose gel electrophoresis system from 20& amp;ndash: 20.000 bp long. Precast agarose gels are 37 available with TAE or TBE buffer, 1% or 3% agarose, with or without ethidium bromide, and in a range of well configurations from B. wells to 4 rows x 26 wells.	1	
36	Spectrophoto meter/ Eliza Plate Reader	 Wavelength range: 150 to 1100nm Wavelength scan speed 10, 100, 200, 400, 800, 1,200 2,400, 3,600nm/min Spectral band width: 4 nm (UV 1100)1 nm (UV 1101)2 nm (UV 1102) Optics: Ratio beam principle 	1	
37	Field scout soil moisture meter	 04 No. Field scout soil moisture meter, 02 No. Hydrocarbon Test kit. 05 No. Waterproof pH meter, 05 Na. Hydro- thermometer Noise dosimeter Ranges: 30 to 130 	1	
38	Sound Level Meter	 Db Resolution 0.1 48, Accuracy ±1.0 Dimension: 180×28×27(mm) Display: Dual color LED 	1	
39	Air borne particle counter	 Built-in camera for capturing videos and photos that are stored onto internal memory or a microSD card Particle size: 0.3、0.5、1.0、2.5、5.0、10.0µm Counting efficiency: 0.3µm: 50%; >0.5µm: 100% Sampling flowrate: 1CFM (28.3L/min), Error±2%FS Battery working time: ≥8 hours Charging time: About 5 hours Size: (L320×W220×H210) mm Weight: About 6kg 	1	
40	Sludge level detector	Sludge level detector, C910055, Mfr. No. MIC113-6EA, Description SALMONELLA SLUDGE 3 LEVELS 6EA	1	
41	Multichannel Micro Pipettes 8 channel	• 50-300 ul Autoclave able	1	
42	Gel Documentati on	Gel Documentation System for both DNA and protein, ultra slim, dark room and control unit, CCD camera, Zoom lenses and filters, thermal printer and PC with capturing software	1	

		Temp/running time can be		
		programmed individually		
43		Thermo Stat Plus		
10	Dry Bath	Temp:	1	
	Diy Bath	-5 to 99	L	
		chamber with platinum wire electrode panels; safety interlocking		
44	Mini Tank Electro blotter	 lid with attached power supply leads four blotting cassettes with foam pads 16 sheets of 9 x 9 cm blotting filter paper. Transfer area (W x H. cm): 99; footprint (W*L*H, cm): 13 x 18 16.5 	1	
45	DNA thermal cycler	 0.2 ml x96 well aluminum block, temperature range of block: 3-99, heating rate: 4/s, cooling rate: 3/s 	1	
46	Lux Meter	 Range 0.000 to 1999 Lux 2000 to 19999 Lux 20000 to 50000 Lux Range Setting manual through key buttons 	1	
47	Filtration Unit with Suction	 Autofill 50 ml Funnel Only with 0.2 um PES Membrane, 48/pk 40mm Filter Diameter, Permanent vacuum hose connection to minimize set- up time, Made from Class VI Materials, manufactured in a Class 100,000 Clean Room, Manufactured according to 150 13485 standards 	1	
48	BOD Analyzer	 Measurement range: 0-4000mg/L Resolution: 2mg/L Measurement time: 5, 7 days optional Measure amount: 6 Culture bottle volume: 580ml Data storage: 5 days Culture temperature: 20±1 Working power: AV220V±10%/50-60Hz Rated power: 20W 	1	
49	EC Meter	 pH Range: 0.00 to 14.00 pH EC Range: 0.00 to 6.00 mS/cm TDS Range: 0 to 4000 ppm pH Resolution: 0.1 pH EC Resolution: 0.01 mS/cm TDS Resolution: 10 ppm 	2	

		• pH Accuracy: ±0.20		
		 pH Accuracy: ±0.20 EC/TDS Accuracy: ±2% Full Scale Calibration Solutions: M10007 (pH 7.01) M10032 (1382 ppm) M10442B 1500 ppm Conversion Factor: 0.68 Calibration: Manual at 1 point Temperature Compensation: Automatic from 0 to 50°C Probe: SE600 combination pH/EC/TDS probe Environment: 0 to 50°C / 32 to 122°F; max RH 95% Battery Type / Battery Life: 1 x 9V alkaline / 150 hours of use Auto-off: After 8 minutes of non- use Dimensions: 7.3 x 3.2 x 1.8 inches Weight: 5.8 ounces (with battery) 		
50	Dissecting Boxes	 lpc Balo Pipe 4pc Steel Needles 1pc Scalpel Handle No 3 1pc Probe 1pc Razor 2pc Adson Forceps 1pc Iris Scissor 1pc Chain Hook 1pc Surgical Blade 	20	
51	Water deionizer (Di 425)	 Flow rate: 1/h 50 Capacity at 10°D TDS*, liters 425 Purified water quality, µS/cm 0,1 - 20 Max. feedwater temp °C 30 Electrical requirements, V/Hz 230/50-60 Height** x diameter, mm 600 x 100 Approx. depth, mm 115 Approx. weight, kg 3 	1	
52	Glass Aquarium	Glass Aquarium with oxygen pump, heater and aquarium stand	5	
53	CO 2 Cylinder with regulator	CO2 Cylinder along with Gauges and Gas filled 30kg	1	
54	Digital Homogenizer	 Volume Processing Range: 0.05ml- 3.5L Power Rating: 576 Watts, 	1	

 RPM Range: 0-30,000 RPM Speed Control Digital Variable Speed 0-30,000, Noise rating: 68 Db Weight with stand: 18 pounds, Dimensions: 14x12x24 in. Certifications: CE 		
Total price in figures		
Total price in words		

Total Bid value (against which a Bid shall be evaluated) in figure. Total Bid value (against which a Bid shall be evaluated) in words.

Note:

In case of difference between unit price and total price, unit price shall prevail and total price shall be "final". (*Please refer ITB clause 2.5.6*).

In case of difference between amount in "words" and amount in "figures", amount in "words" shall be considered final.

Stamp & Signature of Bidder _____

8.11. Bid Security Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Financial Bid]

Whereas [name of the Bidder] (hereinafter called "the Bidder") has submitted its Bid dated [date of submission of Bid] for the supply of [name and/or description of the goods] (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE [name of bank] of [name of country], having our registered office at [address of bank] (hereinafter called "the Bank"), are bound unto [name of Procuring Agency] (hereinafter called "the Procuring Agency") in the sum of for which payment well and truly to be made to the said Procuring Agency, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of ______20____.

THE CONDITIONS of this obligation are:

- 1. If the Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Bid Form; or
- 2. If the Bidder, having been notified of the acceptance of its Bid by the Procuring Agency during the period of Bid validity:
 - (a) fails or refuses to execute the Contract Form, if required; or
 - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the Instructions to Bidders;

we undertake to pay to the Procuring Agency up to the above amount upon receipt of its first written demand, without the Procuring Agency having to substantiate its demand, provided that in its demand the Procuring Agency will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including thirty (30) days after the period of Bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

[Signature of the bank]

Section IX- Check List

[To be signed and stamped and presented on Bidder's letter head pad]

The provision of this checklist is essential prerequisite along with submission of tenders (with technical proposal).

Sr.	Deteil	Desnonsivo	
#	Detail	Responsive	Non-responsive
1	2% Bid Security of estimated cost of articles / items given by		
	the department. The Original Bid security must be submitted		
	at the time of online bid opening.		
2	Active Registration with Income Tax Authorities (National		
	Tax Number NTN) at least three years old		
3	Copy of active Registration with Sales Tax Authorities (STRN)		
4	Copy of active Registration (Professional Tax Certificate)		
5	Technical Bid Form (as per form 8.8 of Bidding documents)		
	on letter head of the firm duly signed and stamped.		
6	Financial Bid Form (as per form 8.10 of Bidding documents)		
_	on letter head of the firm, duly signed and stamped.		
7	Bid Security Form (as per form 8.11 of Bidding documents)		
0	on letter head of the firm, duly signed and stamped.		
8	Performance Guarantee Form (as per form 8.7 of Bidding		
	documents) on letter head of the firm, duly signed and stamped.		
9	General Information Form (as per form 8.5 of Bidding		
	documents) on letter head of the firm duly signed and		
	stamped.		
10	Affidavit (as per form 8.6) on non-judicial Stamp Paper of		
	Minimum Rs. 100/-		
	(i) The firm is not blacklisted from any Department.		
	(ii) The documents/photocopies provided with Bid are		
	authentic. In case of any fake/bogus document look		
	at any stage. They shall be black listed as per Rules /		
	Laws.		
	(iii) Affidavit for correctness of information.		
	(iv) Contractor/firm is not blacklisted or subject to any		
	pending litigation with any Government or Public		
	Department.		
	Affidavit for correction of information Form (as per		
	form of Bidding documents) on letter head of the firm, duly		
11	signed and stamped. i. Work order / supply order / purchase order of previous		
11	relevant experience.		
	וכובימות בתקבוובוונב.		

ii.	Company profile. Staff list along with location and address [where applicable].	
iii.	Bidders profile Form (as per form of Bidding	
	documents) on letter head of the firm, duly signed and stamped.	

Stamp & Signature of Bidder _____