

## **Tender # Proc/245**



Tender Document

Science Lab Chemicals & Equipment

July 2021

Last Date for Submission	July 31, 2021 @ 1:00 pm
Tender Opening Date	July 31, 2021 @ 1:30 pm

### **Sukkur IBA University**

Nisar Ahmed Siddiqui Road Sukkur  
Email: [info@iba-suk.edu.pk](mailto:info@iba-suk.edu.pk)  
Web: "[www.iba-suk.edu.pk](http://www.iba-suk.edu.pk)"  
Telephone No. 111-785-422

Please see the attachment for technical specifications and quantity.

Technical Information of Equipment:

S. No	Items	Product name	Model	Make of Equipment	Part No	Relationship with principle
01						
02						
03						
04						
05						

Cost Estimation of the Equipment:

S. No	Items	Qty	Product name	Model	Make of Equipment	Part No	Unit Price	Total Cost
01								
02								
03								
04								
05								

## **1. GENERAL TERMS AND CONDITIONS**

The following General Terms and Conditions apply to all the equipment/works under this tender.

The last date of receipt of Bids is as mentioned on face sheet of this document.

### Documents/Details Required.

1.1 Documents should be properly signed and stamped by competent authority.

1.2. Detail of repair & maintenance facilities

1.3. Structure/Organizational Chart.

1.4. Affidavit to the effect that the firm has not been blacklisted by any Government/Semi Government Organization.

1.5. The Bidder indemnify Sukkur IBA against all third-party claims of infringement of patent, trademark industrial design rights arising from use of the goods or any part thereof in Pakistan.

1.6. Sukkur IBA or its representative shall have the right to inspect and/or to test the equipment to confirm their conformity to the contract specifications.

The Technical Specifications shall specify what inspections and tests Sukkur IBA requires and where they are to be conducted. Sukkur IBA shall notify the contractor, in writing, of the identity of any representatives entrusted for this purpose.

1.7. It is mandatory that the Bidders provide the following documents and information with respect to its relationship with Principal.

1.7.1. Name and contact details of Principal/Manufacturer representative who is authorized to verify Vendor's local partnership

1.7.2. Duration and scope of association in the current capacity with the Principal

1.7.3. Copy of the Principal's Certification (along with its validity period), authorizing the Vendor as local partner/representative in Pakistan to Offer/Bid Principal's equipment and services

1.8. The Bidder/Vendor shall provide the following information with respect to its set up in Pakistan.

- 1.8.1. Number of Vendors offices and addresses, thereof, phone and fax numbers and e-mail address as well as names and designations of responsible persons.
- 1.8.2. Number of engineers and technical staff in Vendor's office
- 1.8.3. Profile of technical staff with relevant experience, resume and number of Customers and sites looked after /supported by each.
- 1.8.4. Problem reporting procedure and fault response time in hours for fault rectification, escalation procedures with respect to response or turnaround time in hours.
- 1.9. The Bidder shall provide following information with respect to its Company Profile
  - 1.9.1. Registered Name of the Organization.
  - 1.9.2. National Tax Number, Sales Tax Number and GST number
  - 1.9.3. Head Office address.
  - 1.9.4. Management structure & Organization Chart
  - 1.9.5. Name, Address with Telephone/Telex and Fax numbers of the contact Person
- 1.10. Financial status of the Vendor's/Bidder's Organization with supporting documents and last two years annual reports.
- 1.11. Provide a certificate from your bank certifying your sound financial position and credit limit from the bank.
- 1.12. List of clients and their Acceptance of deliverables, showing separately the items provided and value thereof
- 1.13. Sukkur IBA reserves the right to reject any or all Bids/Offeres without assigning any reason or cancel the process at anytime.
- 1.14. Sukkur IBA reserves the right to increase/decrease the quantity of items/scope of the work. Bidder has no right to challenge the decision in Court.
- 1.15 Documentary evidence of claims made in proposal regarding experience, relationship with principal etc.

## **2. PROPOSAL SUBMISSION REQUIREMENTS**

2.1. A bidder can submit bid for single, two or all equipment, however bid in each item will be treated and evaluated separately.

2.2. Sealed Bid clearly marked as "**ORIGINAL**" should consist of following two separate and independent parts i.e. **1) Technical Proposal 2) Financial Proposal** and should be clearly marked as Technical Proposal/Financial Proposal in bold and affixed to each envelope at a clearly visible location.

### **2.2.1. TECHNICAL PROPOSAL**

2.2.1.1. Technical Proposal must include the complete solution proposed by the Vendor with filled-in specification sheets.

2.2.1.2. After review of the Technical Proposal, promising Vendors will be selected and will be asked to give a demonstration/presentation on their solution.

2.2.1.3. Based on the Technical Proposal and the presentations, Vendors will be selected in order of preference and their Technical Solution will be rated on a scale of 100. The criteria considered will be compliance with equipment specifications, capability of integration, references, after sales support etc.

2.2.1.4. Financial Proposal of only those Vendors will be considered whose Technical Proposal qualify.

### **2.2.2. FINANCIAL PROPOSAL**

2.2.2.1. Financial Proposal will include the prices quoted on individual item/Equipment basis

2.2.2.2. For each category the quoted prices must include all taxes, customs and freight charges for delivery at the required locations at own risk and cost.

2.2.2.3. This Equipment is required for educational institution. Sukkur IBA, therefore, expects significant educational and volume discounts.

2.2.2.4 the Bidder/Vendor shall furnish **separate earnest money** equivalent to **2%** of the total value of Bid in the form of Pay Order /Bank Draft issued by a scheduled bank of

Pakistan in favor of "**Sukkur IBA University**" valid for 28 days beyond the bid validity period.

2.3. **No Bid shall be entertained without earnest money.** Earnest money of the successful bidder will be released at the time of submission of Ten percent (10%) Performance Guarantee of the total contract value.

2.4. Bid security is required to compensate Sukkur IBA against the consequences of:

2.4.1. Subsequent unauthorized variations and/or modifications of the terms of bid.

2.4.2. Pre-mature withdrawal of the bid before the completion of the bid evaluation

2.4.3. Failure of the bidder to sign the resultant Contract, in the event of such Contract being awarded to it.

2.5. Successful bidder is required to deposit **Ten percent 10%** of total contract value as **Performance Guarantee** in the form of **Bank Draft** issued by a scheduled bank of Pakistan in favor of "**Sukkur IBA**" at the time of signing of contract agreement and will be released at the time of delivery of equipment at site.

2.6. Proposals sent to Sukkur IBA by fax or email will not be accepted.

2.7. An effort by a Bidder to influence Sukkur IBA, directly or indirectly THROUGH UNFAIR MEANS may result in the rejection of Bidder's Proposal and blacklisting for any future tender of Sukkur IBA.

2.8. Prices quoted will be firm for the entire period of Contract. All prices to be quoted in **Pak Rupees**, and must clearly state all applicable taxes which must be included in quoted price.

2.9. Bids should be valid for 90 days from the date of opening of tender.

### **3. HARDWARE AND SERVICE REQUIREMENTS**

Following are the minimum requirements which the bidder/vendor for the equipment:

3.1 The Vendor must install all equipment and components and must ensure that the proposed equipment is fully operational and function properly at all variables.

3.2 Vendor must furnish components, wires, connectors, materials and parts, equipment for the complete installation of the system, in accordance with recommendations of the equipment manufacturer. Installation shall follow standard broadcast wiring and installation practice and shall meet or exceed industry standards for such work.

3.3 Vendor must ensure that all systems are in first class working condition and free of short circuits, ground loops, video noise and excessive system noise or any fault affecting its efficiency/quality/life.

3.4 At time of installation, Vendor must provide owner's manuals, manufacturer's data sheets, and a complete equipment list.

3.5 At the time of installation, Vendor must provide comprehensive system schematics, labeling and showing detailed connections to all equipment.

#### **4. SELECTION PROCEDURE**

Sukkur IBA intent in issuing this RFP is to award a contract to the lowest and best responsive Vendor/Bidder who meets required standard of specifications and other factors. The Vendor's past performance, cooperation, and ability to provide service and training are general factors that will be weighed in the selection process.

All Vendors will provide demo (proof of concept) to verify the claims in the Technical Specifications of the Brochures. This would also determine the quality and specifications of the equipment.

Bids will be evaluated as per evaluation criteria mentioned below.

**EVALUATION CRITERIA**

**Technical Evaluation Criteria**

S. No	Bidder Name	Max Score	Achieved Score	Remarks
1	Meeting Specifications	40		
2	Relevant Experience (Years)	5		
3	Experience with Academic Institutions	5		
4	Relationship with Manufacturer	10		
5	Quoted Products Origin	5		
6	International Quality Certifications	5		
7	Warranty/ Guarantee	5		
8	Complains Response Time	5		
9	After Sale Service (Local Expertise)	5		
10	Lead Time (Order to Delivery Time)	5		
11	Company Profile	5		
12	Cliental Served Profile	5		
	Total	<b>100</b>		

Note: Please attach documentary evidence in support of your claims in technical proposal.

Note: Minimum score to technically qualify is 70 out of 100.



## **5. DELIVERY & INSTALLATION**

Delivery and Installation should be at the Sites/Locations at the risk and cost of successful bidder.

## **6. WARRANTY**

Following Warranty clauses are applicable:

The successful Bidders shall warrant the equipment and its components to be free from any sort of defects in material and workmanship for a minimum period of 1 year from date of completed installation and shall repair or replace on a timely basis any defective component, assembly or portion free of cost. Technical support should be available on call basis. Competent staff of the bidder will attend each and every call within 3-4 hours of its notification either on phone or in writing during business hours (9am -5pm). Delay in attending the call and delay in rectification of fault will lead to consequential financial damages to the Vendor/Bidder.

## **7. SERVICES**

8.1. Sukkur IBA shall promptly notify the supplier in writing of any claims arising under this warranty and the Vendor/Supplier will repair/replace the defective stores at reasonable speed but within the specified period and time & without any additional cost, specifications, and/or other Contract commitments

## **8. LIQUIDATED DAMAGES**

Liquidated damages shall be applicable as under:

- a) Delay of one week to handover the Equipment  
As per specifications = 0.5% of the total cost
- b) Delay of two weeks to handover the equipment  
As per specifications = 1.0% of the total cost
- c) Delay of three weeks to handover the  
Equipment as per specifications = 2.0% of the total cost
- d) Delay of four weeks to handover the equipment  
As per specifications =4.0% of the total cost

Note: In case of delay beyond four weeks, Sukkur IBA reserves the right to cancel the order and impose penalty up to 10% of ordered value.

## **9. TERMS OF PAYMENT**

Payment shall be made in the following manner:

Within 30 days from satisfactory delivery and receipt of invoice and other supporting documents.

## **10. Bid Validity Period**

Bid Validity Period 90 days from the last date of submission of bids.

## **11. OTHER TERMS AND CONDITIONS**

1. Warranty/Guarantee and Product Origin must be mentioned clearly
2. Sukkur IBA reserves the right to increase or decrease the quantities at the time of order placement as per provision of SPP rules 2010
3. Installation and transportation must be mentioned clearly.

## **TECHNICAL SPECIFICATIONS & QUANTITY**

### Science Lab Chemicals & Equipment

#### **Important Note:**

- Wherever in above list, brand name is mentioned, please read with “or equivalent “after brand name.
- Sukkur IBA University reserves the right to increase or decrease the quantity of items as per provision of SPP Rules 2010.

#### **CLARIFICATION AND AMENDMENT IN RFP DOCUMENT**

A bidder requiring any clarification of the RFP Document may so notify to contact given below in writing or via email.

Hari Lal Nathani  
Director Procurement  
Sukkur IBA University  
Airport Road Sukkur  
Email : hari@iba-suk.edu.pk

**Integrity Pact**  
**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.**  
**PAYABLE BY THE SUPPLIERS/CONTRACTORS/CONSULTANTS.**

Contract Number: \_\_\_\_\_ Dated: \_\_\_\_\_  
Contract Value: \_\_\_\_\_ Contract Title \_\_\_\_\_

[Name of Supplier/Contractor/Consultant] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

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

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

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

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

Procuring Agency

Supplier/Contractor/Consultant

**DRAFT AGREEMENT**

**THIS AGREEMENT** is made on date \_\_\_\_\_ between:

**M/s** \_\_\_\_\_ (**vendor name**) having presently its office at \_\_\_\_\_ (vendor's address) (hereinafter referred to as the "Vendor" which expression shall unless repugnant to the context so deemed to mean and include his heirs, general representatives and assigns) of the one part,

**AND**

**SUKKUR IBA UNIVERSITY (CLIENT)**, a chartered institute established under the laws of Pakistan, and having its head office at Nisar Ahmed Siddiqui Road ,Sukkur (hereinafter referred to as the "Client" which expression shall where the context so requires or permits include its successors and assigns) of the other part. Hereinafter collectively referred to as the "**Parties**";

WHEREAS the Vendor is in the business of awarded work along with fittings and fixtures (hereinafter referred to as "business set up"),

**AND WHEREAS** the Client is in the service of providing quality education and is desirous to get awarded products/works/services as per details given in Bill of Quantity (BOQ)/purchase / work order along with quality, economy and value for money.

AND WHEREAS the Vendor has agreed to provide the Products /Works/Services to the Client on the terms and Conditions contained in this Agreement and in the tender document issued for this task.

**NOW THIS AGREEMENT WITNESSES AS FOLLOWS:**

1. The agreement will be valid for a period commencing from \_\_\_\_\_ and ending on completion of Warranty/Guarantee period.
2. As per this agreement "Client" may give an advance as mentioned in the payment terms and conditions ("Advance") to Vendor against Bank Guarantee for the advance equivalent amount in rare cases if agreed by the client.
3. Vendor will start the work immediately of Sign of this agreement or from receipt of Purchase Order whichever comes first, otherwise client will claim for advance repayment from bank against bank guarantee. Vendor will complete the work within specified time communicated through emails & handover and obtain the satisfactory completion certificate from the client.
4. All payments to be made by the Client to the Vendor under this agreement shall be subject to deduction of all prevailing taxes, duties, charges, liquidated damages etc and as per terms and conditions mentioned in this agreement.
5. The Vendor shall pay and discharge at all times during the period all assessments, taxes, penalties, fines and charges of every description including tests charges etc. which are now or may at any time hereafter during the period, be assessed, imposed or charged upon the Vendor by Sukkur IBA University, any Local, Provincial or Federal Government Agency, Department or Authority.
6. One calendar month notice in writing shall be given by either party to terminate this agreement earlier than the expiry of the period. In case of an early termination under this clause, the Vendor undertakes to refund the advance paid for the agreement immediately on demand along with any penalty imposed by the client against provision of Bank Guarantee submitted by Vendor.
7. Vendor shall exercise reasonable care and diligence to prevent any actions or conditions, which could result in a conflict with CLIENT's best interests. This obligation shall apply to the activities of the employees and agents of Vendor in their relations with the employees and their families, of CLIENT's vendors and third parties arising from this agreement and accomplishing services hereunder. Vendor's efforts shall include, but not be limited to establishing precautions to prevent its employees or agents from making, receiving, providing or offering substantial gifts, entertainment, payments, loans or other consideration for the purpose of influencing individuals to act contrary to CLIENT best interest.
8. **Dispute Resolution**
  - a. Any dispute or difference arising out of or in connection with this Agreement, or the implementation of any of the provisions hereof which cannot be settled amicably, shall be referred to arbitration under the provision of the Pakistan Arbitration Act, 1940 as amended or substituted from time to time, of two arbitrators, one to be nominated

by CLIENT and the other by Vendor and the two arbitrators shall appoint an umpire before entering upon the reference. The unanimous decision of the two arbitrators, or, in the case of difference between them, the decision of the umpire, will be final and binding on the parties. The venue of the arbitration proceedings shall be Sukkur, Pakistan. Notwithstanding the reference of any dispute to arbitration, CLIENT and Vendor shall be obliged to fulfill their respective obligations under this Agreement.

- b. Subject to the above, should any recourse to Courts of Law become necessary, the parties hereto submit to the jurisdiction of the Courts of law at Sukkur, Pakistan which courts shall have exclusive jurisdiction to settle any claims and/or dispute arising out of this Agreement or any acts done in pursuance thereof regardless of the location or place of business of parties hereto. However, CLIENT may at its own option also proceed against Vendor in the court of law for any claims it may have.
  - c. Notwithstanding any disagreement, dispute, protest, request for arbitration, or arbitration proceeding arising out of or in connection with this Agreement or its performance, at all times, Vendor shall proceed with the Services, unless CLIENT agrees otherwise in writing.
- 9. This agreement can be amended at any time during the subsistence/continuance/ period of the agreement, subject to mutual consent and the terms and conditions then agreed upon between the Parties.
  - 10. The Vendor hereby warrants that the terms of the agreement has been read to him and understood by him.
  - 11. The vendor shall conduct his business in a professional ethical manner. The vendor shall be responsible for compliance with all laws, rules and regulations for the time being in force on its own behalf and with regard to his employees.
  - 12. Nothing in this agreement shall be deemed to create an agency or an employer/employee relationship between the vendor (his employees) and the client. The vendor shall at all times remain solely responsible for all responsibilities and liabilities whatsoever with regard to his employees.
  - 13. Vendor shall hold in strict confidence any information provided by CLIENT to Vendor to perform the Services and stated by CLIENT to be confidential information. Such information shall be given to employees of Vendor strictly as needed to discharge their responsibilities in respect of the performance of the Services by Vendor. CLIENT may require employees of Vendor to sign a separate secrecy agreement to protect its interests in such confidential information. Vendor shall be liable for disclosures of any such information, which is not in accordance with the provisions of this Agreement or with the prior written approval of CLIENT.
  - 14. The vendor agrees to indemnify and keep indemnified the client against all claims, damages, costs, expenses and/or liabilities which arise due to any direct or indirect act or omission either by the vendor or his employees/representatives.
  - 15. The Vendor indemnify Sukkur IBA University against all third-party claims of infringement of patent, trade mark industrial design rights arising from use of the goods or any part thereof in Pakistan.
  - 16. Sukkur IBA University or its representative shall have the right to inspect and/or to test the equipment to confirm their conformity to the contract/agreement specifications. The Technical Specifications shall specify what inspections and tests Sukkur IBA University requires and where they are to be conducted. Sukkur IBA University shall notify the Vendor, in writing, of the identity of any representatives entrusted for this purpose.
  - 17. Problem reporting procedure and fault response time in hours for fault rectification, escalation procedures with respect to response or turnaround time in hours.
  - 18. An effort by a Vendor to influence Sukkur IBA University, directly or indirectly THROUGH UNFAIR MEANS may result in the termination of the agreement and vendor black listing for any future tender of Sukkur IBA University.
  - 19. The value of agreement will be firm for the entire period of Contract for the scope of work defined in the agreement. The agreement amount includes all applicable taxes.
  - 20. **SERVICE REQUIREMENTS**  
Following are the minimum requirements which the vendor/vendor for the equipment:
  - 21. The Vendor must ensure that the work assignment is done as per requirement of the client and must ensure timely delivery with accuracy, secrecy, confidentiality, and quality at all stages from beginning to end of the assigned work.
  - 22. **DELIVERY & INSTALLATION**
  - 23. Delivery and Installation should be at the Sites/Locations at the risk and cost of vendor.

24. Delivery period will be as communicated through emails to the vendor by client.
25. **WARRANTY, MAINTENANCE AND ASSURANCE**
26. The Vendors shall warrant that the assigned work will be done as per timelines given by the client through email(s) with accuracy, secrecy, confidentiality, and quality at all stages from beginning to end of the assigned work.
27. **SERVICES**
28. Sukkur IBA University shall promptly notify the supplier in writing of any claims arising under this warranty and the Vendor/Supplier will repair/replace the defective stores at reasonable speed but within the specified period and time & without any additional cost.
29. **LIQUIDATED DAMAGES / PENALTIES FOR VIOLATIONS.**
- Sukkur IBA University may cancel the purchase order/ work order and may impose penalty as liquidating damages up to 10% of the contract/purchase order where it deems fit in case of violations by vendor in case of delay in delivery/completion of the ordered items/works/services or supply of substandard/ inferior quality items/works/services.
30. **FORCE MAJEURE**
- Vendor will not be considered to be in default in the execution of their contractual obligations or any of them to the extent that the execution of such obligations or any of them is delayed or omitted by cause of Force Majeure. The term Force Majeure employed herein shall mean acts of public enemy, wars (whether declared or not) invasion, hostilities, revolution, epidemics, riots, fires, floods, earth quake, and other causes similar in kind to those herein mentioned, not under the control of either party, which makes the performance of this agreement unfeasible and which by the exercise of due diligence the party seeking excuse from performance is unable to overcome.
- 31 **TERMS OF PAYMENT**
- Payment of contract price shall be made in the following manner.
- Payment will be made as agreed.
32. Following Documents will be part of this agreement and will be bounding on the vendor.
- Tender Notice, Tender Documents issued, Technical & Commercial Proposal submitted by the vendor and agreed by the Client, Purchase Orders, Emails by the client to the vendor etc.
33. Above conditions are General Conditions, Actual Agreement will have some more Work specific conditions.
34. **IN WITNESS WHEREOF** the Vendor and Client have signed this Agreement at Sukkur on the day, month and year first above mentioned, in the presence of the following witnesses: -

\_\_\_\_\_  
**Vendor :**  
**CNIC #** \_\_\_\_\_  
**Address:** \_\_\_\_\_

\_\_\_\_\_  
**Client: For and on behalf of**  
**Sukkur IBA University**

**Witnesses:**

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
CNIC # \_\_\_\_\_  
Address: \_\_\_\_\_

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
CNIC # \_\_\_\_\_  
Address \_\_\_\_\_





**Sukkur IBA University**

www.iba-suk.edu.pk

## TENDER NOTICE

Tender # PROC/245

Sealed bids are invited from Manufactures/Authorized Distributors/Authorized Dealers registered with Income Tax & Sales Tax Department having vast experience in respective fields for following items on **"Single stage two envelope basis"** for BBSIMS Dadu and Sukkur IBA University.

S.#	ITEMS
1	Reverse Vending Machine (for Plastics, Plastic Bottles Recycling etc.)
2	Desktop Computers
3	Security Walk through Gate
4	Networking (Active and Passive)
5	Photocopier Machine
6	Generators
7	Ballpoint Pen Packets
8	Paper Reams
9	Furniture & Fixture
10	UPS
11	Gym Equipment
12	Mineral Injection System
13	Event Management Services (Tents, Chairs etc.)
14	Wireless Setup
15	Multimedia Projector
16	IP Telephony System
17	Security and User Management Setup
18	Surveillance/IP Camera Setup
19	OMR Software
20	R.O. Plant
21	AC Unit for Mobile Science Lab Bus
22	ATS Panel
23	Cables
24	Science Lab Chemicals & Equipments
25	Uniforms for Support Staff
26	Heavy Duty Scanners

Details of specifications and quantity are mentioned in the tender documents, which can be obtained on provision of demand draft/pay order for each item **Rs. 1000/=** (Non-refundable) in favor of **Sukkur IBA University**, from the office of the Procurement Department Sukkur IBA University on any working day from **14<sup>th</sup> July 2021** to **30<sup>th</sup> July, 2021**. The Last date for the submission of bids is **31<sup>st</sup> July, 2021** up to 1300 Hours. The technical bids will be opened on the same day at 1330 Hours in the presence of bidders or their authorized representatives (who may choose to be present). The Financial proposals of only technically eligible firms will be accepted/Opened. Bid security i.e. **2%** of the tender amount (Refundable) in the shape of bank draft/pay order in the name of Sukkur IBA University must be attached with the bid documents. The Procuring Agency may reject any bid subject to relevant provisions of SPP Rules 2010 and may cancel the bidding process at any time prior to acceptance of bid or proposal as per Rule-25(1) of said rules and as per PPRA rules.

Please send your queries: hari@iba-suk.edu.pk

**REGISTRAR**

PID(H) 184/2021

**SUKKUR IBA UNIVERSITY**

Nisar Ahmed Siddiqui Road, Sukkur.

Ph: 071-5644141, 5644140 Fax: 071-5804419

## Scientific Material Required For Practicals of Class IX, XI and XII (Chemistry)

S.NO	ITEM	QUANTITY
01	Beaker 100 cm <sup>3</sup>	31
02	Beaker 250 cm <sup>3</sup>	18
03	Beaker 50 cm <sup>3</sup>	14
04	Beaker 500 Cm <sup>3</sup>	04
05	Capillary Tube 1000	05
06	Conical Flask 250 cm	09
07	Conical Flask 100	08
08	Corks	02
09	Delivery Tube	08
10	Dropper	10
11	Dry Battery Cell	15
12	Filter Paper	18 Box
13	Funnel	15
14	Fusion Tube	10
15	Gas Burner	07
16	Glass Plates	05
17	Glass Sitter	10
18	Graduated Cylinder 100	19
19	Graduated Cylinder 250	30
20	Graduated Cylinder 50	100
21	Graduated Cylinder 500	09
22	Graduated Cylinder 1000	10
23	Graduated Cylinder 25	30
24	Graduated Cylinder 10	20
25	Iron Stand	17
26	Knife	08
27	Litmus Paper Blue	05
28	Litmus Paper Red	08
29	Magnet	14
30	Match Box	12
31	PH Paper	09
32	Physical balance	03
33	Pipet 10 cm <sup>3</sup>	08
34	Pipet 5 Cm <sup>3</sup>	10

35	Platinum Wire	
36	Round Bottom flask	50 m
37	Rubber Tubing	15
38	Sand Baths	10
39	Spatulas	10
40	Stopper Rubber	10
41	Test Tubes	20
42	Test Tubes Holder	<del>22</del> 5 Dozens
43	Test Tube Racks	08
45	Thermometer 100 cc	100
46	Tripod Stand	18
47	Volumetric Flask 250	10
48	Volumetric Flask 100	13
49	Watch Glass	18
50	Wire Gauge	16
51	Burrate 50m	05
52	Wolf Bottle	18
53	Condenser	04
54	Separating Funnel	09
55	Glass Test tube Delivery	04
56	Pair Loung <sup>e</sup>	10
57	Thisil funnel	12
58	2.4 Di-Nitro phenyl Hydrazine	08
59	Acetic Acid	200 gm
60	Acetone	2 litre
61	Aluminum Chloride	1 litre
62	Aluminum foil	600 gm
63	Barium Chloride	250 gm
64	Bromothymol Blue	1.9 kg
65	Calcium Carbonate	1 litre
66	Calcium Chloride	400 gm
67	Calcium Hydroxide	430 gm
68	Calcium Sulphate	2 litre
69	Cinnamic Acid	1.8 kg
70	Citrus Fruit	300 gm
		1 kg

71	Copper Chloride	500 gm
72	Copper Sulphate	300 gm
73	Distilled Water	30 litre
74	Ethanol	0.5 Litre
75	Feling solution A.B	900 ml
76	Ferric Chloride	350 gm
77	Fructose	700 gm
78	Glucose	900 gm
79	Hydro Chloric Acid	1 litre
80	Iron filing	200 gm
81	Iodine	450 gm
82	Iron	400 gm
83	Isopropyl alcohol	500 ml
84	Iron Strip	500
85	KMno <sub>4</sub> solution	400 cm <sup>3</sup>
86	Lime water	1.5 Litre
87	Magnesium Hydroxide	100 gm
88	Methyl Alcohol	1 litre
89	Methyl Orange	420 gm
90	Nitric Acid	1 litre
91	Paraffin Oil	1.5 litre
92	Oxalic Acid	200 gm
93	Phenol Solution	1 litre
94	Phenol phthalein	300 gm
95	Potassium chloride	1 kg
96	Sand	1 kg
97	Silver Nitrate	440 gnm
98	Soap liquid	5
99	Sodium chloride	1.5 Kg
100	Sodium hydroxide	400 gm
101	Sodium metal	1.5 Kg
102	Sodium sulphate	200 gm
103	Stronium chloride	400 gm
104	Sucrose	900 gm
105	Sugar	2 kg

## Scientific Material Required For Practicals of Class IX, XI and XII (Chemistry)

106	KMnO <sub>4</sub>	920 gm
107	Sulphur	300 gm
108	Sulphuric Acid	1 litre
109	Tollen reagent	500 ml
110	Vinegar	500 cm <sup>3</sup>
111	Zinc Powder	200 gm
112	Benzene	500 gm
113	Bi-Phenyl	2 litre
114	Sodium Metal	0.5 Kg
115	Zinc Metal	0.5 Kg
116	Sodium Poly Citrate	500 gm
117	Anal. Normaphous	500 gm
118	Silver Nitrate	400 gm
119	Empty Bottle Reagent Bottles 500 ml	20 Bottle
120	Burette 50ml	20
121	Whatman filter paper no 42, no. 01	01 Each
122	Desiccators	
123	Potassium chromate	500g
124	Chromatographic chamber	
125	Mohar Salt	500gq
126	n-b Utamol	1 litre
127	Beehive shelf	06
128	MnO <sub>2</sub>	100 gm
129	Bomb calorimeter	02
130	Glass calorimeter	06
131	Hot plate and magnetic stirrer	
132	FeSO <sub>4</sub>	500gm
133	K <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	500 gm
134	K <sub>2</sub> SO <sub>4</sub>	500 gm
135	Ammonium hydroxide solution	1 litre
136	Mg <sup>2+</sup> , Zn <sup>2+</sup> , Co <sup>2+</sup> , Br <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup>	
137	Saccharin	200Gm
138	Aniline	500ml
139	Glycerol	500ml
140	Dichloromethane	500ml

**Scientific Material Required For Practicals of Class IX, XI and XII  
(Chemistry)**

141	Benzenanlfonyl Chloride	500gm
142	Sodium Nitrate	500gm
143	2 Naphthol	500gm
144	Bendits solution	250ml
145	Limtus Solution	250ml
146	Tollen's Reafenl	250ml
147	Sodium nitroprusside	250g



**Scientific Material Required For Practicals Of Class IX, XI  
And XII (Botany).**

S.No	Items	SIZE/ Quantity	NO.
01	Sucrose, Wool and Agar.	=	500 gram of each
02	Acetone, Ether mixture, Hydrochloric acid, Carnoys solution, Acetocarmine solution, Pasture's solution Sodium hydroxide, and Neutral red stain. Crystal violet, Pigment solution, 80% acetone, 90% acetone-petroleum, ether mixture, ethyl alcohol and immersion oil. (100 ml), Vaseline (03 bottles),	500ml of each	=
03	Short stem funnel	75mm	10
04	Plane slide and Cover slip		05 packs of each
05	Test tube.	=	30
06	Autoclave.	=	01
07	<b><u>Permanent slides of</u></b> Amoeba, Transverse section of villi, Paramecium, Cocci, Bacilli, Vibrio and Spirillum Bacteria, Chlamydomonas, Rhizopus, Animal Epithelial, Connective, Muscular and Nervous tissues, Plant Epidermal, Collenchyma, Sclerenchyma, Parenchyma, Xylem and Phloem tissues, Nostoc, Ustilago tritici, Penicillium, yeast, Vertical section of male and female receptacles of Marchantia, Gametophyte of Funaria, Gametophyte and Prothallus of Adiantum, Chlorella, Euglena, Volvox, Ulothrix, Polytene chromosome of Drosophila, Nymphae lotus (water lily) morphological and anatomical slides of leaves, stem and roots, Euphorbia morphological and anatomical slides of leaves, stem and roots and Sunflower morphological and anatomical slides of leaves, stems and roots. Spirogyra, Mushroom, male cones of Pinus, T.S of dicotyledonous stem. Budding in yeast,	=	15 of each
08	Funaria sporophyte and gametophyte, Marchantia male and female, Adiantum sporophyte plant with mature sporophyllus, Pteris, Ulva, Dryopteris, Pinus branch with cones (male and female) and leaves. Fresh material of Nostoc, Flowers of Rosa indica, Cassia fistula, Acacia nilotica, Solanum nigrum/ Datura alba and Avena sativa/ Clitoria ternatea, Dicotyledonous plant, Fresh aquatic plant (e.g. Hydrilla), Monocotyledonous plant, Ginger	=	02 of each
09	Wide mouth bottle, Curved glass tube used in experiment of respiration, Delivery tube, Thistle funnel with semi permeable membrane, Reagent	=	08 of each

	bottle, Stopper of Test tubes and Glass rod.		
10	Watch glass and Petri dish.		
11	Pair of tongs, Measuring taps, Sieves of different number of meshes, Retort stand, Collection nets, Metallic chains with hooks, Test tube stand, Cork borer and Iron stand with clamp. test tube holder, wire gauze, graduated pipettes, P.H meter, Nichrome Wire, Glass lid, Ruler	=	25
12	P.H paper and Chromatography paper, Tracing paper	=	06 of each
13	Compound microscope (digital binocular high power magnification and resolution).	=	10 of each
14	Seeds of Gram, Maize, Pea and Oat seed.		12
15	Corks.	=	250 grams of each
16	Ocular micrometer.	Biggest size	15
17	Pestle and mortar	=	10
18	Alcohol	=	04
19	Amylase and Indole acetic acid ( IAA).	2000ml	=
20	Water bath and Ice bath		250 gram of each
21	Aprons		10
22	Dessicator.	Free size	20
23	Cobalt chloride paper.		04
24	Paper clip	=	10 packs
25	Fire extinguisher	=	01 packs
26	Human Skeleton Adult	=	01
27	Human Body Skeleton Baby		01
28	Excretory System Model		01
29	Circulatory System Model		01
30	Respiratory System Model		01
31	Nervous System Model		01
32	Digestive System Model		01
33	Reproductive System Model		01
34	Urinary System Model		01
35	Endocrine System Model		01
			01



### Material list for Physics Lab from class IX to XII

S.N o	Apparatus/Equipment Name	Quantity
1	Micrometer Screw Gauge	24 pc
2	Vernier Calipers (15 cm long)	12 pc
3	Free fall apparatus mechanical and electrical	06 pc each
4	Spherometer	12 pc
5	Plane mirrors strips	12 pc
6	Convex mirrors	12 pc
7	Concave mirrors	12 pc
8	Convex lenses	12 pc
9	Concave lenses	12 pc
10	Steel ball bearings of 6.5 mm and 12.5 mm diameter	12 pc each
11	Gravesend's Apparatus with pulleys	12 pc
12	Slotted weight with hangers (20 g )	12 sets
13	Ticker-tape vibrator	04 pc
14	Roll of ticker-tape	02 pc
15	Slotted weight with hangers (500 g)	30 pc
16	Sellotape	02 pc
17	Transformer (12Volt)	06 pc
18	Electronic timer with power supply	06 pc
19	Plum lines	12 pc
20	Melde's Apparatus	03 pc
21	Step-down transformer (6volt)	06 pc
22	Ticker-tape timer	06 pc
23	Wooden wedges	12 pc
24	Thread	06 spoils
25	Physical/digital balance	02 pc
26	Resonance apparatus with tube	08 pc
27	Rubber pad (Hammer)	06 pc
28	White papers packet	01
29	Weight box	06 pc
30	Set squares	06 pc
31	Electrical calorimeter	06 pc
32	Wooden bench	12 pc
33	Scissors	12 pc
34	Stop watch	12 pc
35	Iron Stands with clams	12 pc
36	Spring balance	24 pc
37	Weight pan	06 pc
38	Iron ball	12 pc
39	NPN Transistor Characteristics Apparatus	03 pc
40	P-N junction Diode Characteristics Apparatus	03 pc
41	Meter rod/Scale	12 pc
42	Metallic bob with hook (Aluminum/brass/iron/steel)	12 sets
43	Split corks	24 pc
44	Solid cylinder	24 pc
45	Burglar's alarm	06 pc

46	Capacitor (10, 20, 30, 40, 50, 60, 70, 80, 90 and 100 microfarad)	12 pc each
47	Car bulb with holder (12 V)	6 pc
48	Electric oscillator/Vibrator	06 pc
49	Dry cell (1.5 V)	24 pc
50	Heat sensor	06 pc
51	Jockey	06 pc
52	Micro and Milli Ammeter	06 pc each
53	NPN Transistor	12 pc
54	Photocell	03 pc
55	Potentiometer	03 pc
56	Resistance box ( 0 ohm to 500 ohm)	03 pc
57	Resistance box ( 0 ohm to 10 kilo ohm)	03 pc
58	Semi-conductor diode	12 pc
59	Shunt wire	06 pc
60	Slide wire bridge	03 pc
61	Smoke sensor	06 pc
62	Sonometer	03 pc
63	Spherical glass plate	12 pc
64	Test tube (small)	12 pc
65	Tuning forks	03 boxes
66	Unknown resistance	12 pc
67	Rheostat (500 ohm)	06 pc
68	Wires (Diameter 0.125mm, 0.25mm, 0.35mm)	2 m each
69	Key plug	12 pc
70	Resistor ( 10 $\Omega$ , 50 $\Omega$ , 500 $\Omega$ , 1k $\Omega$ , 2.2k $\Omega$ and 100k $\Omega$ )	12 pc each
71	Connecting wires	4 m
72	Speakers for Projector (Medium size)	1 set