Republic of the Philippine
TARLAC STATE UNIVERSITY
Romulo Blvd., San Vicente, Tarlac City
Tel. No.: (045) 982 4630
Website: www.tsu.edu.ph

# Bidding Documents

(This Bidding Documents is in conformance with the Sixth Edition of the Philippine Bidding Documents for the Procurement of Goods)

## For the Project

## Supply and Delivery of Laboratory and Simulation Equipment

**With an Approved Budget for the Contract (ABC) *of***
**Thirty-Eight Million Five Hundred Thirty Thousand Pesos**
**(₱38,530,000.00)**

## Invitation to Bid No. Goods 2025-041

**PhilGEPS Reference No.: 12614675**

**July 2020**
**6th Edition**

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# *Glossary of Acronyms, Terms, and Abbreviations*

**ABC** – Approved Budget for the Contract.

**BAC** – Bids and Awards Committee.

**Bid** – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender.* (2016 revised IRR, Section 5[c])

**Bidder** – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

**Bidding Documents –** The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

**Consulting Services** – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

**CDA -** Cooperative Development Authority.

**Contract** – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

**CIF –** Cost Insurance and Freight.

**CIP –** Carriage and Insurance Paid.

**CPI –** Consumer Price Index.

**DDP** – Refers to the quoted price of the Goods, which means "delivered duty paid."

**DTI** – Department of Trade and Industry.

**EXW** – Ex works.

**FCA** – "Free Carrier" shipping point.

**FOB** – "Free on Board" shipping point.

**Foreign-funded Procurement or Foreign-Assisted Project**– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

**Framework Agreement** – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as "Call-Offs," are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

**GFI** – Government Financial Institution.

**GOCC** – Government-owned and/or –controlled corporation.

**Goods** – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term "related" or "analogous services" shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

**GOP** – Government of the Philippines.

**GPPB** – Government Procurement Policy Board.

**INCOTERMS –** International Commercial Terms.

**Infrastructure Projects** – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

**LGUs –** Local Government Units.

**NFCC –** Net Financial Contracting Capacity.

**NGA –** National Government Agency.

**PhilGEPS -** Philippine Government Electronic Procurement System.

**Procurement Project** – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

**PSA –** Philippine Statistics Authority.

**SEC –** Securities and Exchange Commission.

**SLCC –** Single Largest Completed Contract.

**Supplier** – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

**UN –** United Nations.

# Section I. Invitation to Bid

Republic of the Philippine
TARLAC STATE UNIVERSITY
Romulo Blvd., San Vicente, Tarlac City
Tel. No.: (045) 982 4630
Website: www.tsu.edu.ph

## INVITATION TO BID

## For the Project

## Supply and Delivery of Laboratory and Simulation Equipment

### Invitation to Bid No. Goods 2025-041

1. The Tarlac State University, through Special Budget (SB) Fund intends to apply the sum of **Thirty-Eight Million Five Hundred Thirty Thousand Pesos (₱38,530,000.00)** to payments under the contracts for the project: **Supply and Delivery of Laboratory and Simulation Equipment.**

   Bids received in excess of the ABC for shall be automatically rejected at bid opening.

| Lot No. | Description | ABC, ₱ |
|---|---|---|
| 1. | Plastinated Specimens | 12,250,000.00 |
| 2. | Simulation Equipment for Basic Sciences | 26,280,000.00 |

2. The Tarlac State University now invites bids for the project **Supply and Delivery of Laboratory and Simulation Equipment**. Delivery of the Goods is required within **One Hundred Eighty (180) calendar days for lot 1 and Sixty (60) calendar days for lot 2** from the receipt of the Notice to Proceed. Bidders must have completed, within the last five (5) years prior to the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.

3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the "Government Procurement Reform Act".

   Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

4. Interested bidders may obtain further information from **Tarlac State University** and inspect the Bidding Documents at the address given below during Tuesday to Friday from 7:00 A.M. to 6:00 P.M:

   **BAC Secretariat**
   Motorpool and Administration Building
   Tarlac State University

Romulo Blvd., San Vicente, Tarlac City
Tel. No. (045) 606-8110-142 / 0998 846 0206
Email: **tsubacsec2025@gmail.com**

5. A complete set of Bidding Documents may be acquired by interested Bidders from **November 25, 2025, to December 16, 2025,** from the aforementioned address upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **₱ 25,000.00**.

   It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The Tarlac State University will hold a Pre-Bid Conference on **December 3, 2025 (3:00 P.M.)** at the Bids and Awards Committee Conference Room, 3rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City, which shall be open to prospective bidders.

7. Three (3) copies of the bid proposals (one original, and additional copy 1 and 2) must be submitted to the BAC which must be duly received by the BAC Secretariat through manual submission at the office address indicated in the bidding documents, on **December 16, 2025** at **2:30 P.M.** Failure of bidders to comply with the said request of additional copies shall not be a ground for disqualification.

   **Late submission shall not be accepted.**

   **BAC Secretariat**
   Motorpool and Administration Building
   Tarlac State University
   Romulo Blvd., San Vicente, Tarlac City
   Tel. No. (045) 606-8110-142 / 0998 846 0206
   Email: **bacsec@tsu.edu.ph**

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.

9. Bid opening shall be on **December 16, 2025,** at **3:00 P.M.**, at the Bids and Awards Committee Conference Room, 3rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City. Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below.

10. The Summary of the procurement activities is as follows:

| Activities | Date and Time | Venue |
|---|---|---|
| Posted to PhilGEPS | November 25, 2025 | N/A |
| Pre-Bid Conference | December 3, 2025 (3:00 PM) | BAC Conference Room, 3rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City |
| Deadline of Submission of Bids | December 16, 2025 (2:30 PM) | |
| Opening of Bids | December 16, 2025 (3:00 PM) | |

11. The Tarlac State University reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and

41 of the 2016 Revised IRR of RA 9184, without thereby incurring any liability to the affected bidder or bidders.

12. For further information, please refer to:

Ms. Mariel C. Santos
BAC Secretariat
Motorpool and Administration Building
Tarlac State University
Romulo Blvd., San Vicente, Tarlac City
Tel. No. (045) 606-8110-142 / 0998 846 0206
Email: **tsubacsec2025@gmail.com**

**ATTY. WILMARK J. RAMOS, *DBA***
BAC Chairperson – Goods and Services

# Section II. Instructions to Bidders

## 1. Scope of Bid

1.1. The Tarlac State University wishes to receive Bids for the project: **Supply and Delivery of Laboratory and Simulation Equipment**, with identification number **Invitation to Bid No. Goods 2025-041.**

1.2. The procurement project (referred to herein as "Project") is composed of 2 lots the details of which are described in Section VII. Technical Specifications.

## 2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2025** in the amount of **₱ 38,530,000.00**

2.2. The source of funding is the **Special Budget.**

## 3. Bidding Requirements

3.1. The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

3.2. Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or IB by the BAC through the issuance of a supplemental or bid bulletin.

3.3. The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

## 4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

## 5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder must have a SLCC that is similar to the Project, as described in the **BDS**, with a value, adjusted to current prices using the PSA's CPI, that is at least equivalent to **fifty percent (50%) of the total ABC of the project**.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

## 6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

## 7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that subcontracting is not allowed

## 8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and at the address indicated in paragraph 6 of the **IB.**

## 9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

## 10. Documents comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII. Checklist of Technical and Financial Documents**.

10.2. The Bidder's **SLCC** as indicated in **ITB** Clause 5.3 should have been completed **within five (5) years** prior to the deadline for the submission and receipt of bids.

10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

## 11. Documents comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII. Checklist of Technical and Financial Documents**.

11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.

11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

## 12. Bid Prices

12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:

a. For Goods offered from within the Procuring Entity's country:

i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);

ii. The cost of all customs duties and sales and other taxes already paid or payable;

iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and

iv. The price of other (incidental) services, if any, listed in e.

b. For Goods offered from abroad:

i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.

ii. The price of other (incidental) services, if any, as listed in **Section VII. Technical Specifications**.

## 13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in Philippine Pesos.

## 14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid until **April 15, 2026**. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

## 15. Sealing and Marking of Bids

15.1. Each Bidder shall submit one copy of the first and second components of its Bid.

15.2. The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

15.3. If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be

digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

## 16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB.**

## 17. Opening and Preliminary Examination of Bids

17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

## 18. Domestic Preference

18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

## 19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.

19.3. The descriptions of the lots or items are indicated in **Section VII. Technical Specifications**, and the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.

19.4. **The Project shall be awarded as one project having several items that shall be awarded as separate contracts**.

19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

## 20. Post-Qualification

20.1. Within a **non-extendible period of five (5) calendar days** from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

## 21. Signing of the Contract

21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

# Section III. Bid Data Sheet

<table>
<tr><th>ITB Clause</th><th></th></tr>
<tr><td>5.3</td><td>For this purpose, contracts similar to the Project shall be the supply and delivery of similar goods comprising the Project.</td></tr>
<tr><td>7.1</td><td>No further instructions.</td></tr>
<tr><td>12</td><td>The price of the Goods shall be quoted DDP Tarlac City, Philippines or the applicable International Commercial Terms (INCOTERMS) for this Project.</td></tr>
<tr><td>14.1</td><td>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:<br><br>a. The amount of not less than two percent (2 %) of ABC, if bid security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit; or<br><br>b. The amount of not less than five percent (5 %) of ABC if bid security is in Surety Bond.</td></tr>
<tr><td>19.3</td><td>The ABC for the project
<table>
<tr><td>Lot No.</td><td>ABC, Php</td></tr>
<tr><td>1.</td><td>12,250,000.00</td></tr>
<tr><td>2.</td><td>26,280,000.00</td></tr>
</table></td></tr>
<tr><td>20.2</td><td>No further requirements.</td></tr>
<tr><td>21.2</td><td>No further requirements.</td></tr>
</table>

# Section IV. General Conditions of Contract

## 1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC).**

## 2. Advance Payment and Terms of Payment

2.1. Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

## 3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184

## 4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC**, **Section IV. Technical Specifications** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

## 5. Warranty

6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.

6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the

defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

## 6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

# Section V. Special Conditions of Contract

| GCC Clause | |
|---|---|
| 1 | **Delivery and Documents –**<br><br>For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:<br><br>The delivery terms applicable to this Contract are delivered to Tarlac State University, Romulo Blvd., San Vicente, Tarlac City. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their destination."<br><br>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI. Schedule of Requirements. |
| | **Packaging –**<br><br>The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging 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.<br><br>The packaging, 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 below, and in any subsequent instructions ordered by the Procuring Entity.<br><br>The outer packaging must be clearly marked on at least four (4) sides as follows:<br><br>Name of the Procuring Entity<br>Name of the Supplier<br>Contract Description<br>Final Destination<br>Gross weight<br>Any special lifting instructions<br>Any special handling instructions<br>Any relevant HAZCHEM classifications<br><br>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging. |
| | **Transportation –**<br><br>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price. |

| | |
|---|---|
| | Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.<br><br>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.<br><br>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination. |
| | **Intellectual Property Rights –**<br><br>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof. |
| 4 | The inspections and tests that will be conducted are: visual and sensory inspection and test. |

# Section VI. Schedule of Requirements

The delivery date for the Goods covered by the Contract shall be within One Hundred Eighty (180) calendar days for lot 1 and Sixty (60) calendar days for lot 2 upon receipt of the Notice to Proceed.

# Section VII. Technical Specifications

| Item No. | Description |
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| **Lot No. 1 – Plastinated Specimens** | |
| 1. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>FEMALE GENDER OF PLASTINATED HUMAN CADAVER (VISCERA IN-SITU)<br><br>Skeletal muscle is an important portion of locomotive system and is also the emphases of teaching. After delicately dissected, the specimen displays the skeletal muscle of the whole human body and some cutaneous nerves and superficial arteries which are remained simultaneously. One side of the Specimen displays superficial layers muscles and the other side displays Deep layer muscles. By means of the contrast between the two sides, students can deeply understand and grasp the position and relationship of the muscles.<br><br>Abdominal Cavity. The remained organs are liver, pancreas, stomach (only fundus and pyloric part), duodenum, terminal part of ileum, caecum and vermiform appendix, ascending and descending colons (including left and right colic flexures), sigmoid colon, rectum, spleen, the two kidneys and suprarenal glands, the two ureter, urinary bladder (a window on it to display trigone of bladder), superior and inferior mesenteric arteries. In addition, testis, ductus defense, seminal vesicle, and penis are remained on a male specimen, while ovary, uterine tube and uterus are remained on a female specimen.<br><br>The inferior vena cava, renal veins, abdominal aorta, internal and external iliac veins and arteries are remained.<br><br>The diaphragm, iliopsoas, psoas minor and quadratus lumborum are remained. The superficial and deep layer muscles are displayed on the left and right limbs respectively.<br><br>Head. Both left and right muscles of head and face are superficial, and facial nerves and arteries are shown.<br><br>Abdominal Viscera. All abdominal organs cannot be removed or detachable. Half of the stomach is taken off to show gastric mucosa. Jejunum and ileum are all taken off in order to show superior and inferior mesenteric arteries. Transverse colon is cut to observe pancreas.<br><br>Thoracic Cavity. In order to clearly show mesenteric arteries, porta hepatis and porta lienis, splanchnic nerves are taken off and sympathetic trunks cannot be seen. Muscular structure of the posterior thoracic wall cannot be observed.<br>Abdominal Cavity. The bladder is not opened. Sympathetic trunk nerve cannot be seen due to some abdominal organs remained as well as the lumbosacral trunks, which is covered by pelvic organs. Muscular structure of the posterior abdominal wall cannot be seen.<br><br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers |

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| | - Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification |
| 2. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>HORIZONTAL SECTION OF THE WHOLE BRAIN (PLASTINATED)<br>Whole brain, accorded to canthomeatal line, Horizontal section, about 10 - 12 slices at 10mm Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 degC<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification |
| 3. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>CORONAL SECTION OF THE WHOLE BRAIN (PLASTINATED)<br>Whole brain, coronal section, about 9 - 10 slices at 15 mm Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification |

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| 4. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>THE BRAIN AND 12 PAIRS OF CRANIAL NERVES (PLASTINATED)<br>Dissected to show the whole brain and 12 pairs of cranial nerves roots intact<br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification |
| 5. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>ARTERIES AT THE BASE OF THE BRAIN (PLASTINATED)<br>Dissected to show the basilar artery, internal Carotid artery and the main branches<br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification |
| 6. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>SUPERFICIAL VEINS OF THE BRAIN (PLASTINATED)<br>Unilateral, dissected to show the veins of the lateral surface of cerebral hemisphere<br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color |

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| | - Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification |
| **Lot No. 2 – Simulation Equipment for Basic Sciences** | |
| 7. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>MEDICAL IMAGING SOLUTION<br>1 set<br>65” (Touchscreen) Visualization Table WITH TEN (10) years TERMINAL account<br>Allows access to 1,006 clinical cases<br>(418 CT scan, 29 MRI, 521 Slide Microscopy,<br>17 OT, 8 Xray Angiography, 11 Ultrasound, 2 MG) using the Education Portal and Anatomy Software<br><br>Includes:<br>- Visualization Table with large capacitive touch monitor and electrical tilt function<br>- A cadaver-based anatomy atlas<br>- 50 Digital Slides for Histology (ofine)<br>- 50 Digital Slides for Pathology (ofine)<br><br>KEY FEATURES & BENEFITS<br>- Large 65" monitor<br>- 4K resolution<br>- High performance graphics card<br>- Direct capacitive touchscreen<br>- Supports group discussions & collaborative learning<br>- Optimal touch interaction with our cloud-based library of real medical images<br>TECHNICAL SPECIFICATION SOFTWARE<br>- Has Secured cloud-based solution allowing the portability by being able to use it on different smart devices with instant deployment and should do back- ups and updates automatically.<br>- The Cloud follow the standards ISO 27001/27002/27017 & 27018 for secure storage of images and should be encrypted during transport with 128-bit AES encryption. The service's "endpoints" should be only TLS / SSL and received A-grade in SSL Labs tests.<br>- You can create intelligent cases lists based on filters where newly imported cases will accommodate automatically depending on the body part or modality.<br>- It is capable of doing 3D reconstruction from CT and MRI clinical images through DICOM data reconstruction without any format conversion of the file. The users can import and save any modality data which includes but not limited to: CT, MRI, Ultrasound, Angiograms, Mammograms, and<br>X-Rays. Once such files are imported, it should be instantly accessible from any smart device having access to the cloud.<br>- It features a touch user interface as well as a mouse/keyboard workspace support for advanced tools. The workspace should be included in the software and be able to access it without the need of a separate computer or monitor (built-in). |

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| | - It has touch interface and/or workspace with the facility of importing any DICOM images in dcm format, film clips in mpeg or avi format and documents in pdf format.<br>- It allows to measure, cut in plane and sphere and label structures in different colours in the 3D reconstruction without any additional program or application.<br>- The system can show 3D structures and 2D projection view (MPR) at the same time on the same screen. This view should allow to locate one point or coordinate in 3D structure and show it in the 2D projection view in the three planes simultaneously.<br>- It gives a view of the three planes transverse, sagittal and coronal without any 3D model, with possibility of measurements, text annotations and multiplanar synchronization.<br>- The interface presents a movable control/tool buttons for users to hand over commands to others in group discussions.<br>- The cloud has an online import tool to import histology slides and save it to the cloud, making them accessible by any user, supporting the following formats: .ndpi, .tif, .tiff, .svs. In such a tool there should be the possibility to check the space left in the cloud to upload your own cases.<br>Once such files are imported, it should be instantly accessible from any smart device having access to the cloud.<br>- Embryology 3D Atlas based on real data from embryos with at least 14 stages, with visualization of all systems, measurement tables, the possibility to select different structures of the embryo, CT scan of each embryo, and slices of each embryo.<br>- It allows linear measurement, text mark, polylines, orthogonal measurements, density areas, area, arrow, circle and ellipse and<br>should allow to create/export URL linking for integration with virtual campus platform.<br>- It is a web-based content guide with a selection of preferred cases to interact with, accessible from any device either Teacher or Student.<br>- It provides access to an online tool to administrate the credentials to access the cloud, including the possibility to send emails to students with a link to activate the account to the cloud.<br>- It allows to open the 3D volume and the MPR on the same screen and it localizes and synchronizes a point that has been touched in the 3D in the 3 planes and should add light/shadows from a customized angle in the 3D reconstruction.<br>- It includes lessons and dissection guides that allow students to understand the anatomy with the interactive 3D volume at the same time as photos from the dissected areas.<br>- It has a bookmarking feature allowing the Professor to prepare cases before the class and saving the work/bookmarks for a home access, homework or next class and should be able to segment structures from the 3D clinical cases. All segmented bones should be able to be saved and retrieved without further processing.<br>- It provides a fully labelled body atlas with at least 2000 body structures.<br>- It has histology library with digitalized images from physical pathology slides, with at least the following tools: zoom, annotate, measure area and distance, synchronize images from same block, mitotic activity, KI67 cell counting.<br>- It has histopathology library that englobes undergraduate normal curriculum, pathological and cytology curriculums with minimum over 500 cases.<br>It has a Software for surgery planning training that allows 3D visualization of traumatology cases with at least the following functions: segmentation of fracture, surgical templates in 3D modelled, re-alignment of bones, rotation in all axis of segmented structures, individual fragment segmentation and coloring.<br>- It has Cadaver Dissection Guide and embedded lessons with automatic link to colored anatomy models from a frozen cadaver.<br>- Teachers and students can access to an extensive library of clinical cases that have been fully anonymized, including patient identifiers like the face, tattoos, medical record number etc.<br>- The cloud contains high-resolution histology and cytology images that can be displayed in full screen and zoomed to microscopic resolution and can annotate. |

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| | - Through the collaborative network, institutions can share and review cases and knowledge with other users, institutions around the world and also have a private space between departments of same Institute.<br>- Teachers can access the library with full functionality to prepare content including 2D tools, 3D segmentation, 3D renderings or possibility to change colours according to Hounsfield Units from a PC and it will be synchronized in real time in other devices like the table, or student accounts.<br>- It can share the entire screen of the table with Zoom, Teams, Skype etc<br>- It has a cloud for the Institution with at least 50 GB of space available and unlimited space in the public cloud space.<br>- It has more than 50 cadaveric prosections. Each prosection should have also an explanatory video with voice narration and an explanatory PDF.<br>- It has one MRI scan acquired at 7 Tesla<br>- It can share screen with students through a secure viewer that also allows to ask for screen control.<br>- Start time and response time of the system should be no longer than 10 seconds.<br>- The software is certified according to CE regulations.<br><br>HARDWARE<br>- Has single industrial monitor of at least 65", with mutual capacitive touchscreen and resolution of at least 3840 X 2160 (4K) QLED technology with hardened clear glass and 10 simultaneous touch points<br>- It is adjustable in height to at least 1100 mm through an electrical allowing two<br>positions to be stored.<br>TECHNICAL DATA SHEET<br>Picture/ Display / Monitor Type: Industrial<br>Diagonal screen size: 65" (163 cm) Protection glass: 6mm hardened clear glass<br>Panel resolution: 3840 x 2160 (4K QLed UHD)<br>Optimum resolution: 3840 x 2160 @ 120Hz E-Led BLU Brightness: 600 cd/m² (peak 1500 cd/m²)<br>Contrast ratio (typical): 6000:01:00 Viewing angle (H / V): 178 / 178 degrees<br>Display colors: 1.07 Billion<br>Touch Technology<br>Touch Points : 10 simultaneous points (min separation 20 mm) Sensing Type: Mutual capacitance 2 layer<br>Response Time: 16ms Accuracy: ±1.5mm<br>Convenience<br>Easy access on table: 3 x USB3.0, 1 x HDMI<br>Inside cabinet: 1xPower cable, 1xRJ45 (Gb Ethernet), 6xUSB 2.0, 4xUSB 3.0, 1xMicrophone,<br>1xHeadphone, 3xDisplayPort, 1xHDMI, 1xDV0I<br>Placement: Vertical (Landscape), Horizontal (Table) Mobility: 4 pieces of heavy-duty wheels, with locks<br>Energy saving functions: Ambient light sensor, Energy Star® Certified Ports<br><br>Computer<br>CPU: Intel i7 8700 (3.2GHz – 4.60GHz) or higher<br>GPU: RTX 2080 8GB GDDR6 or better / higher GPU generation<br>Operating System: Windows 10 Pro 64-bit or higher<br><br>Software<br>Sectra PACS version: IDS7 19.2 or later<br>Operating system: Windows 10 Pro<br>Dimensions<br>Bezel thickness: 30 mm horizontal, 30 mm vertical<br>Set dimensions (W x H x D)<br>Width: 1547 mm<br>Height : min. 795 mm (in table mode)<br>Height : max. 1185 mm (in table mode)<br>Depth: 921 mm (in table mode)<br>Product weight: 220 kg including PC<br>Operating Conditions |

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| | Temperature range (operation): 10 - 35 °C<br>Relative humidity: 20 - 80 % (noncondensing)<br>Power<br>Consumption (Typical/Max): 144W (Typical), 850W (Max)<br>Standby Consumption: <1W<br>Power Options: 230V/100V<br>Miscellaneous<br>On-Screen Display Languages: English (US & UK), Simplified Chinese, Danish, Dutch, Finnish, French, German, Greek, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish & Turkish<br><br>Uninterrupted Power Supply Rated power in W : 900 W<br>Rated power in VA : 1600 VA Output connection : 4 x universal<br>Battery type : Lead-acid battery Network frequency 50/60 Hz +/- 5 Hz auto-sensing Input voltage limits 140 to 300 V 230 V AC Output frequency 50/60 Hz +/- 1 Hz sync to mains UPS type Line interactive Wave type : Stepped approximation to a sinewave IP degree of protection : IP20 Battery voltage : 24 V Battery life 3 to 5 year(s) Surge energy rate: 273 J Warranty : 2 years Local Supplier Warranty on UPS |
| 8. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory) EYE TRAINER<br><br>Includes 36 diabetic, common and less common retinal conditions to offer excellent 'hands-on' experience in examination of the eyes and the use of an ophthalmoscope.<br>- Simple to set up and use<br>- High resolution digital display<br>- Easy to use, individual digital control for each eye<br>- Examination cover to hide displays of condition numbers<br>- Battery or worldwide mains power compatible<br>- Sleep mode to conserve power<br>Eye conditions and diseases presented digitally for left and right eye: Diabetic Retinopathy<br>- Background Diabetic Retinopathy<br>- Maculopathy<br>- Pre-Proliferative Diabetic Retinopathy<br>- Proliferative Diabetic Retinopathy<br>- New Vessels Disc<br>- Laser<br>- Photocoagulation<br>- Ungradable--<br>Important and Common Retinal Conditions-<br>- Normal<br>- Glaucoma<br>- Papilloedema<br>- Optic Atrophy<br>- Age-related Macular Degeneration (Dry)<br>- Hypertensive Retinopahty<br>- Central Retinal Vein Occlusion<br>- Central Retinal Artery Occlusion<br>- Drusen<br>- Retinitis Pigmentosa<br>- Medulated Nerve Fibres<br>- High Myopia<br>- Branch Retinal Vein Occlusion--<br>Important and Less Common Retinal Conditions-<br>- Pre-Retinal Vein Occlusion<br>- Multiple Retinal Haemorrhages<br>- Retinal Detachment<br>- Angioid Streaks<br>- Benign Disc Neavus<br>- Malignant Melanoma |

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| | - Macular Hamorrhage<br>- Choroidal Naevus<br>- Macular Scar (Toxoplasma)<br>- Cytomegalovirus Retinitis<br>- Lipaemia Retinalis<br>- Medusa Head<br>- Myopic Crescent - Normal Choroidal Vessels<br>- Sub Hyaloid Haemorrhage Resolving<br>- Macular Burn |
| 9. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>DIGITAL EAR EXAMINATION TRAINER<br><br>Designed to facilitate the most realistic training experience in ear examination. Using high resolution digital screen technology, the trainer includes 48 common and less common ear conditions as well as an anatomically accurate ear structure to offer a comprehensive training solution for ear examination and use of an otoscope.<br><br>Simple to set up and use<br>Soft, flexible and realistic pinna and ear canal<br>High resolution digital display<br>Easy to use, digital control for ear conditions<br>Examination cover to hide displays of condition numbers<br>Battery or worldwide mains power compatible<br>Sleep mode to conserve power<br><br>Ear conditions and diseases presented digitally for the right patient ear:<br>- Normal I<br>- Normal II<br>- Ear Wax (Cerumen)<br>- Swimmer's Osteoma<br>- Fungal Ear I<br>- Fungal Ear II<br>- Acute Viral Ear<br>- Acute Secretory Otitis Media I<br>- Resolving Secretory Otitis Media<br>- Acute Secretory Otitis Media II<br>- Acute Secretory Otitis Media III<br>- Perforation following an Acute<br>Suppurative Otitis Media (ASOM)<br>- Childhood Glue Ear<br>- Glue Ear in a Child with a Dermoid Cyst in the Eardrum<br>- Adult Glue Ear<br>- A Standard Ventilation Tube in the Membrane<br>- Infected Mini Grommet with Otitis Externa Secondary to a Mucus Discharge<br>- Permanent Ventilation Tube in Place<br>- Large Perforation of the Tympanic Membrane<br>- A Posterior Perforation of the Tympanic Membrane<br>Two Small Traumatic Perforations following a Blow to the Ear<br>- Subtotal Perforation of the Tympanic Membrane<br>- Perforation with Tympanosclerosis<br>- Grommet Scar Healed<br>- Tympanosclerosis of Tympanic Membrane<br>- Posterior Retraction<br>- Retraction onto Long Process of the Incus<br>- Retraction with Loss of Long Process of the Incus and Keratin Trail<br>- Retraction with loss of Long Process of the Incus<br>- Posterior Retraction Pocket onto Jugular Bulb and with Middle Ear Fluid<br>- Retraction with Early Keratin Build Up<br>- Childhood Attic Retraction<br>- Deep Attic Retraction |

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| | - Attic retraction Accumulation Keratin – Underlying Cholesteatoma<br>- Extensive Accumulation with Cholesteatoma in Middle Ear<br>- Wet Cholesteatoma<br>- Clean Dry Reconstructed Mastoid Cavity<br>- Old Style Mastoid Cavity with Residual Cholesteatoma<br>- Mastoid Cavity with Fistula into Lateral Semicircular Canal<br>- Congenital Cholesteatoma<br>- Large Congenital Cholesteatoma<br>- Ear Canal Cholesteatoma I<br>- Ear Canal Cholesteatoma II<br>- Keratosis Obturans<br>- Glomus Tympanicum Tumours<br>- Glomus Jugulare Tumour<br>- Foreign bodies<br>- Aural Polyp<br><br>Includes<br>- Rigid Carrying Case<br>- Mains adaptor with worldwide plug fixings<br>- Instruction Manual |
| 10. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>TRINOCULAR DIGITAL BIOLOGICAL MICROSCOPE<br><br>Technical Data<br>Optical System: Infinite Optical System<br>Eyepiece: WF10x / 20mm, ANTI FUNGUS with pointer<br>Viewing Head: Seidentopf Trinocular Head, inclined at 30°, interpupillary 47-78mm ANTI FUNGUS<br>Objective: Infinite Semi-Plan Achromatic Objectives 4×, 10×, 40×, 100x ANTI FUNGUS<br>Nosepiece: Backward Quadruple<br>Nosepiece Stage: RACKLESS Double Layers Mechanical Stage 150mm×139mm,<br>Moving Range 75mm×52mm Condenser: Abbe Condenser NA1.25 Focusing: Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 25mm<br>Illumination: SLED with rechargeable battery<br>A HDMI Microscope Camera is a 1080P economic HDMI digital camera. It can be connected to a LCD monitor or HD TV via HDMI cable and operated independently without connecting to PC. The image/video capture and operate can be controlled by mouse, so no shaking when you take images and videos. It also can be connected to a PC via USB2.0 cable and operate with the software. KEY FEATURES Use mouse to control the Camera Record image and video to SD card High frame rate of 15fps 3D Noise Reduction Set Exposure Time Capability 1080P Video Recording Image Comparison Function TECHNICAL DATA SHEET Image Sensor : CMOS, Aptina MT9P031 Sensor Size : 1/2.5" Pixel Size : 2.2um × 2.2um Video Resolution : 1920 × 1080 Capture Resolution : 2592 × 1944 Frame Rate : 1920 × 1080 15fps via USB2.0 1920 × 1080 15fps via HDMI Data Record : SD Card (4G) Video Record : 1080p 15fps @ SD Card 1080p 15fps @ PC Scan Mode : Progressive Electronic Shutter : Electronic Rolling Shutter A/D conversion : 8 bit Color Depth : 24bit Dynamic Range : 60dB S/N ratio : 40.5dB Exposure time : 0.001 sec ~ 10.0 sec Exposure : Automatic & Manual White balance : Automatic Settings : Gain, Gamma, Saturation,Contrast Built- in software : Cloud 1.0 version PC software : ISCapture |

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| | Output model 1 : USB2.0 Output model 2 : HDMI System Compatible : Windows XP/Vista/ Win 7/Win 8/Win 10 (32 and 64-bit), MAC OSX Optical port : C- Mount Power Supply : DC 12V /2A Operational Temp : 0°C~60°C Humidity : 45%-85% Storage Temperature : -20°C~70°C Dimension & Weight : 74.4*67.2*90.9mm, 0.8kg |
| 11. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>BINOCULAR BIOLOGICAL MEDICAL MICROSCOPE<br><br>Technical Data<br>Optical System: Infinite optical system<br>Viewing Head: Seidentopf Binocular Head, 30°Inclined, Interpupillary Distance 47-78 mm, ANTI-FUNGUS<br>Eyepiece: WF 10X/20mm with pointer, ANTI-FUNGUS Nosepiece: Backward Quadruple Nosepiece Objective: Infinite Plan Achromatic Objectives<br>4× NA: 0.10, W.D.: 17.3mm;<br>10× NA: 0.25, W.D: 10mm;<br>40× NA: 0.65, W.D.: .54mm;<br>100×Oil NA: 1.25, W.D.: 0.13mm, ANTI- FUNGUS<br>Focusing: Coaxial Coarse and Fine Adjustment, Moving Range 0.002mm, Fine Division<br>20mm<br>Condenser: Abbe Condenser, NA1.25<br>Stage: Rackless Double Layers Mechanical Stage, 150mm×139mm, Moving Range<br>75mm×52mm<br>Illumination: S-LED Illumination, Brightness adjustable with Rechargeable battery Power : 220VAC, 50/60Hz,<br>Inclusive: Dust Cover, Fuse, Green Filter<br>Package: 1pc/carton, 36*26*46mm, gross weight: 8kg |
| 12. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>SKELETON MODEL WITH MUSCLE AND LIGAMENTS - HANGING STAND<br><br>Weight: 10.348 kg/12.133 kg Dimensions: 176.5 cm/192.5 cm<br><br>Description<br>Can also demonstrate the movements of the skull via the head joints, and thanks to the fully flexible spine, you can adjust the model to place it in natural body postures. The unique combination of muscle origins and insertions, the numbered bones, flexible ligaments and flexible spine with a slipped disc between the 3rd and 4th lumbar vertebrae clearly the show medical and anatomical interest of this top model's more than 600 structures. Now available on a stable metal stand with 5 casters!<br><br>Comes with metal stand and transparent dust cover/ Comes with metal hanging stand and transparent dust cover. Stand is 6' 3" (192cm).<br><br>- 3 part assembled skull<br>- Individually inserted teeth<br>- Limbs can be removed quickly and easily<br><br>Comes with metal hanging stand and transparent dust cover. Stand is 6' 3" (192cm). |
| 13. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>PREPARED SLIDES – HISTOLOGY (SET OF 100) |

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| | Must INCLUDE:<br>Epithelial tissue<br>Simple columnar epithelium of Human sec.<br>Simple cuboidal epithelium of Human sec.<br>Pseudostratified ciliated columnar epithelium of Human sec.<br>Simple columnar ciliated epithelium of Human sec.<br>Stratified squamous epithelium of Human sec.<br>Epithelium cells of cavitas oris of Human W.M. Connective tissue<br>Blood of Human smear (HE)<br>Blood of Human smear (stained with Giemsa)<br>Blood of Human A.B.O. smear<br>Loose connective tissue of Human sec.<br>Dense connective tissue of Human sec.<br>Adipose tissue of Human sec.<br>Hyaline cartilage of Human sec.<br>Fibrous cartilage of Human sec.<br>Elastic cartilage of Human sec.<br>Finger of Human L.S.<br>Human bone grinding W.M.<br>Hard bone of Human T.S. (thionin-picric acid staining)<br>Hard bone of Human L.S. (thionin-picric acid staining)<br>Human toe bone l.s.<br>Human red bone marrow smear. Muscular tissue<br>Smooth muscle isolated of Human W.M.<br>Skeletal muscle of Human T.S.and L.S. (hematoxylin staining)<br>Skeletal muscle of Human T.S.and L.S. (H.E.<br>Staining)<br>Skeletal muscle isolated of Human W.M.<br>Cardiac muscle of Human sec. (hematoxylin staining) Nervous System<br>Spinal cord of Human T.S.<br>Spinal ganglion of Human sec.<br>Tactile corpuscle of Human sec.<br>Lamellar corpuscle of Human sec.<br>Cerebrum of Human sec. (silver staining)<br>Cerebrum of Human sec. (HE)<br>Cerebellum of Human sec. (silver staining)<br>Cerebellum of Human sec. (HE) Circulation system<br>Heart of Human sec.<br>Cardiac muscle of Human sec.<br>Cardiac valve of Human sec.<br>Human Medium-sized artery and vein sec.<br>Large artery of Human sec.<br>Large vein of Human sec.<br>Human Heart sec. (showing Purkinje cell) Immune System<br>Lymphoid node of Human sec.<br>Spleen of Human sec.<br>Thymus of Human sec.<br>Palatine tonsil of Human sec. Endocrine System<br>Thyroid gland of Human sec.<br>Parathyroid gland of Human sec.<br>Adrenal gland of Human sec.<br>Human Pituitary sec. Digestive System<br>Liver of Human sec. (show bile canaliculus of liver)<br>Human tooth l.s.<br>Tongue of Human L.S. (show internal structure)<br>Oesophagus of Human T.S.<br>Stomach of Human T.S.<br>Gastric section of stomach of Human sec.<br>Small intestine of Human T.S.<br>Small intestine of Human L.S.<br>Jejunum of Human sec.<br>Duodenum of Human sec.<br>Ileum of Human sec.<br>Colon of Human sec. |

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| | Vermiform appendix of Human sec.<br>Large intestinal of Human L.S.<br>Large intestinal of Human T.S.<br>Parotid gland of Human sec.<br>Submandibular gland of Human sec.<br>Salivary gland of Human sec.<br>Sublingual gland of Human sec.<br>Liver of Human sec.<br>Gall Bladder of Human sec. Respiratory System<br>Trachea of Human T.S.<br>Trachea of Human L.S.<br>Human Lung sec.<br>Epiglottic cartilage of Human sagittal section Urinary System<br>Urinary bladder of Human<br>Kidney of Human sec.<br>Ureter of Human T.S.<br>Kidney of Human through renal cortex T.S.<br>Genital System<br>Testis of Human sec.<br>Spermatozoon of Human smear.<br>Epididymis of Human sec.<br>Prostate of Human sec.<br>Ductus deferens of Human T.S.<br>Glandula vesiculosa of Human sec.<br>Penis of Human sec. (infant)<br>Human Uterus (proliferative phase) sec.<br>Human Uterus (secretory phase) sec.<br>Uterine cervix of Human sec.<br>Oviduct of Human T.S.<br>Ampulla of uterine tube of Human T.S.<br>Vagina of Human sec.<br>Human mammary gland (active phase) sec.<br>Placenta of Human sec.<br>Umbilical cord of Fetus T.S.<br>Human Corpus luteum sec. Sensory Organs<br>Skin of Human (show hair follicle) sec.<br>Human Eyelid sec.<br>Human Eyeball sec.<br>Skin of Human (show stratum corneum) sec.<br>Hair of Human W.M. |
| 14. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Physiology)<br>PHYSIOLOGY PHARMACOLOGY TEACHING SYSTEM<br><br>Includes<br><br>1 Set Data Acquisition Unit<br>The data acquisition unit (DAQ) features 4 general purpose inputs (DIN), a dual Bio Amp, isolated stimulator, trigger input and an analog output (non-isolated). It also includes an I2C port for connection to data acquisition unit range of Front Ends. This features a durable aluminum enclosure and ships with a Stimulating Bar Electrode, Pulse Transducer, Shielded Bio Amp Cable, Shielded Lead Wires (5), BNC-DIN Smart Adapter (2), and BNC to DIN Cable (2m). It uses a USB interface for connection to Windows and has an aggregate sampling rate of 400k samples/s (100k samples/s per channel). The Bio Amp and Isolated Stimulator are certified safe for human connection, BF rated. General purpose inputs 3 & 4 are shared with the built-in dual Bio Amp.<br><br>1 set Physiology Accessory Kit<br>The Physiology Accessory Kit contains all the components required to perform standard physiology experiments using a teaching Data Acquisition Unit.<br>Includes:<br>- Grip Force Transducer<br>- Finger Pulse Transducer |

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| | - Push Button Switch<br>- Respiratory Belt<br>- Reusable ECG Electrodes (3)<br>- Dry Earth Strap<br>- EEG Flat Electrodes (5)<br>- Electrode Cream<br>- Electrode Paste (3)<br>- Abrasive Gel<br>- Disposable ECG Electrodes (100)<br>- Cardio Microphone<br>- Sphygmomanometer<br>- 12-Lead ECG Switch Box<br>- Tendon Hammer<br>- Skin Temperature Probe<br>- Thermistor Pod<br>1 set Human Respiratory Kit<br>The Human Respiratory Kit allows recording and analysis of respiratory parameters such as minute ventilation and tidal volume along with the calculation of PIF, PEF, FVC and FEV1 using the Spirometry Extension software(Win & Mac).<br>The kit includes:<br>- Spirometer Pod<br>- Respiratory Flow Head<br>- Student Disposable Respiratory Kit (5)<br>- Clean Bore<br>- Disposable Filters (50pcs) 1 Set Nerve & Muscle Kit II<br>The Nerve and Muscle Kit II is ideal for conducting teaching experiments using isolated animal nerve, skeletal, smooth and cardiac muscle preparations.<br>The Nerve and Muscle Kit II should include:<br>- Teaching Force Transducer (0-500g)<br>- Animal Nerve Stimulating Electrode<br>- B Nerve Chamber (includes a Stimulator Cable, two Differential Pod Input Cables)<br>- Shielded Lead Wires (5 Micro-Hooks, 25cm)<br>Muscle Holder<br>- Manipulator with Stand<br><br>1 set Advanced Pharmacology Kit<br>The Advanced Pharmacology Kit is ideal for student laboratories conducting isolated tissue and pharmacological experiments while maintaining high-quality glassware. The dual heating system delivers improved temperature maintenance. The Hot Plate Universal and Circulation Pump can both run on 115V or 220V. This kit also includes a Teaching Force Transducer (0-50g).<br><br>The Kit contains:<br>- Student Tissue Bath (Dual Heating)<br>- 25 mL Radnoti Single Tissue Organ Bath Chamber<br>- Glass Tissue Hook for tissue strip samples<br>- Glass "L" and Triangle Supports for tissue ring samples (<20 mm length)<br>Transducer Positioner<br>Dual heating temperature maintenance system<br>- Teaching Force Transducer (0-50 g)<br><br>1 Unit Branded Laptop with installation of licensed software<br><br>Developed using the same technology as the online learning solution, the software gives educators and their students a modern lab experience.<br><br>TECHNICAL DATA OF BRANDED LAPTOP<br>Processor: i5 Storage: 512 SSD Memory: 8GB Display: 15.6”Full HD OS: Windows 11<br>Experiments That Can Be Performed Are:<br>- Human Physiology<br>Airflow<br>Autonomic Nervous System |

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| | Blood Counting<br>Blood Clotting<br>Blood Pressure<br>Breathing<br>Cardiovascular Effect of Exercise<br>Cardiorespiratory Effects of Exercise<br>Introduction to Fitness Testing<br>Diving Response<br>Electroencephalography<br>Endocrine Physiology<br>Glucose Absorption<br>Heart & ECG Lab<br>Heart & Peripheral Circulation<br>Heart Sounds<br>Kidney & Urine<br>Mechanics of Ventilation<br>Muscle & EMG<br>Peripheral Nerve Function<br>Reflexes & Reaction Times<br>Sensory Illusion<br>Sensory Physiology<br>Skeletal Muscle Function<br>Brain Structures & Reflexes<br>Water Balance<br>- Animal Physiology<br>Earthworm Smooth Muscle<br>Earthworm Action Potential<br>Frog Heart<br>Frog Nerve<br>Frog Neuromuscular Junction<br>Frog Skeletal Muscle<br>Gin Trap Closure Reflex<br>- Pharmacology<br>Airway Resistance<br>Chick Biventer Cervicis<br>Mammalian Atria<br>Mammalian Diaphragm<br>Mammalian Heart<br>Mammalian Jejunum<br>Mammalian Uterus<br>Stimulated Ileum<br>Stimulated Rat Vas Deferens<br>Toad Rectus Abdominis<br>Unstimulated Ileum<br>Vascular Resistance<br>Vascular Smooth Muscle<br>50 licenses for 50 students for Five (5) years Access to Physiology/Pharmacology Content Pack (web-based) allows access to all software features, including standard lesson templates, authoring tools for content creation and analytics and assessment tools for evaluating and documenting student progress.<br>This will include content pack that gives you access to Physiology and Pharmacology content including Human, Animal and Exercise Physiology. |
| 15. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Microbiology)<br>PARASITOLOGY SLIDES (SET OF 50)<br>Includes<br><br>1 Fasciola hepatica, wm<br>2 Fasciola hepatica, ova<br>3 Entamoeba coli, troph, wm<br>4 Endolimax nana, cysts, smear<br>5 Giardia lamblia, cysts, wm<br>6 Trichomonas vaginalis, sm |

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| | 7 Trypanosoma cruzi, blood, wm<br>8 Leishmania tropica major, sm<br>9 Balantidium coli, cysts, wm<br>10 Balantidium coli, trophs, wm<br>11 Plasmodium falciparum, smear<br>12 Ascaris lumbricoides ova, wm<br>13 Enterobius vermicularis, wm<br>14 Ancylostoma caninum female wm<br>15 Necator americanus ova, wm<br>16 Trichinella spiralis, female, wm<br>17 Diphyllobothrium ova, wm<br>18 Taenia saginata, mature, cs<br>19 Dipylidium caninum, comp, wm<br>20 Trichuris trichiura – adult worm (female)<br>21 Trichuris trichiura – ovum<br>22 Trichinella spiralis – ova<br>23 Enterobius vermicularis – ova<br>24 Fasciolopsis buski ova<br>25 Clonorchis sinensis ova<br>26 Schistosoma mansoni, male<br>27 Schistosoma mansoni female<br>28 Diphyllobothrium latum ova<br>29 Taenia saginata ova<br>30 Dipylidium caninum, scolex, w.m<br>31 Dipylidium caninum, comp, w.m<br>32 Trichomonas Vaginalis<br>33 Giardia lamblia, Trophozoite<br>34 Trypanosoma gambiense<br>35 Leishmania (donovani)<br>36 Trypomastigote Ceratium<br>37. Taenia solium, ova in faeces w.m.<br>38. Leishmania donovani, amastigote, smear causes kala-azar,<br>39. Trichomonas vaginalis, smear<br>40. Entamoeba histolytica cyst, smear<br>41. Entamoeba histolytica trophozoites, smear<br>42. Plasmodium vivax blood smear<br>43. Toxoplasma gondii smear with parasites<br>44. Angiostrongyloides Cantonensis, Adult Female w.m<br>45. Eggs of schistosoma japonicum w.m.<br>46. Cercaria of schistosoma japonicum w.m.<br>47. Miracidium of schistosoma japonicum w.m.<br>48. Schistosoma japonicum, adult male w.m.<br>49. Schistosoma japonicum, adult female w.m.<br>Schistosoma japonicum, adult female in copula w.m |
| 16. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Microbiology)<br>MICROBIOLOGY SLIDES (SET OF 50)<br>Includes<br><br>Fungi<br>Penicillium w.m.<br>Aspergillus w.m.<br>Actinomycets w.m.<br>Rhizopus nigrocans w.m. 05 Saccharomyces w.m.<br>Macroconidia w.m.<br>Microconidia w.m. 08 Septa hypha w.m. |

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| | 09 Nonseptate hypha w.m. Bacteria<br>Bacteria three types smear (Staphylococcus, Pseudonmonas and Spirillum smear)<br><br>Coccus<br>Candida albicans Smear<br>Terads smear<br>Sarcina smear<br>Staphylococcus aureus smear<br>Pneumococcus smear<br>Group A Streptococcus smear<br>Group B Streptococcus smear<br>Branhamella catarrhalis smear<br>Neisseria gonorrhoeae smear<br>Cryptococcus neoformans smear<br>Bacillus<br>Escherichia coli smear<br>Pseudomonas aeruginosa smear<br>Typhoid Bacilli smear<br>Dysentery bacillus smear<br>Neisseria meningitidis smear<br>Brucella abortus smear<br>Salmonella smear<br>Proteus smear<br>Bacillus anthracis smear<br>Perlschnurtest smear<br>Corynebacterium diphtheriae smear<br>Clostridium tetani smear<br>Clostridium botulinum smear<br>Bacillis cereus smear<br>Bacillus subtilis smear<br>Lactobacillus smear<br>Bacterium rhusiopathiae suis smear<br>Bordetetella pertrussis smear<br>Bifidobacterium smear<br>Mycobacterium tuberculosis smear<br>Clostridium perfringens smear<br>Bacterium pestis smear<br><br>Special Structure<br>Endospore smear<br>Capsule smear<br>Single Polar flagella smear<br>Peritrichous flagella smear<br>Lophotrichous smear<br><br>Spirillar Bacterium<br>Vibrio cholerae smear<br>Helicobacter pylori smear<br>Leptospira w.m. |
| 17. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Pathology)<br>PREPARED SLIDES – PATHOLOGY (SET OF 100)<br>Includes<br>Injury and Repair of Cell and Tissue<br>1 Human myocardial hypertrophy sec.<br>2 Squamous metaplasia of bronchus sec.<br>3 Human liver cell fatty degeneration sec.<br>4 Human fibrinoid degeneration sec.<br>5 Liquefactive Necrosis of Brain sec.<br>6 Human granulation tissue sec.<br>7 Human bronchiectasis sec.<br>Disturbances of Blood Circulation |

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| | 8 Chronic pulmonary congestion of the lung sec.<br>9 Hemorrhagic infarct of lung sec.<br>10 Pulmonary edema sec.<br>11 Human thrombus sec.<br><br>Diseases of Immunity<br>12 Human Necrotizing lymphadenitis sec.<br>13 Malignant lymphoma sec.<br>14 Lymph node tuberculosis sec.<br>15 Metastatic carcinoma of lymph node sec.<br>Inflammation<br>16 Fibrinous pleurisy sec.<br>17 Phlegmon of appendix sec.<br>18 Liver abscess sec.<br>19 Granuloma sec.<br>20 Lung abscess sec.<br>21 Chronic glomerulonephritis sec.<br>22 Chronic pyelonephritis sec.<br>23 Human aortitis sec.<br>24 Rheumatic endocarditis sec.<br>25 Bacterial myocarditis sec.<br>Tumor<br>26 Polypous adenoma of intestine sec.<br>Diseases of Cardiovascular System<br>27 Atherosclerosis sec.<br>28 Angioma sec.<br><br>Diseases of Respiratory System<br>29 Squamous cell carcinoma of nasopharynx sec.<br>30 Chronic bronchitis sec.<br>31 Diffuse pulmonary emphysema sec.<br>32 Lobar pneumonia (red liver period) sec.<br>33 Lobar pneumonia (grey liver period) sec.<br>34 Bronchial pneumonia (lobular pnermonia) sec.<br>35 Silicosis sec.<br>Disease of Digestive System<br>36 Esophagus cancer sec.<br>37 Chronic atrophic gastritis sec.<br>38 Chronic gastric ulcer sec.<br>39 Adenocarcinoma of stomach sec.<br>40 Acute simple appendicitis sec.<br>41 Carcinoid of colon sec.<br>42 Intestinal cancer sec.<br>43 Chronic active hepatitis sec.<br>44 Alcoholic hepatitis sec.<br>45 Laennec's cirrhosis sec.<br>46 Liver cancer sec.<br>47 Hepatic congestion sec.<br>Diseases of Haemopoietic System<br>48 Non-Hodgkin lymphoma sec.<br>49 Hodgkin lymphoma sec.<br>Diseases of Urinary System<br>50 Diffuse sclerosing glomerular nephritis sec.<br>51 Renal clear cell carcinoma sec. |

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| | 52 Wilms' tumor sec.<br>53 Transitional cell carcinoma of bladder (1st-degree) sec.<br>54 Kidney stone w.m.<br>Disease of Genital System<br>55 Carcinoma in-situ of cervix sec.<br>56 Ovarian Yolk Sac Tumor sec.<br>57 Endometrial Leiomyoma sec.<br>58 Cervical squamous cancer sec.<br>59 Adenocarcinoma of cervix sec.<br>60 Endometrial hyperplasia sec.<br>61 Adenocarcinoma of endometrium sec.<br>62 Choriocarcinoma sec.<br>63 Papillary adenofibroma of ovary sec.<br>64 Mucous cystadenofibroma of ovary sec.<br>65 Endodermal sinus tumor sec.<br>66 Invasive ductal carcinoma sec.<br>67 Medullary carcinoma of breast sec.<br>68 Seminoma sec.<br>69 Congenital agenesis of testis (47-XXYtype)<br>70 Prostatic cancer (well-differentiated)<br>71 Teratoma sec.<br>72 Prostatic cancer (poorly differentiated)<br>73 Breast cancer sec.<br>74 Hydatidiform mole sec.<br>75 Polyp of cervix sec.<br>76 Ovarian cyst sec.<br>77 Chronic endometritis sec.<br>78 Pointed condyloma sec.<br>Diseases of Endocrine System<br>79 Endemic goiter sec.<br>80 Papillary adenocarcinoma of thyroid gland sec.<br>81 Follicular adenocarcinoma sec.<br>82 Adrenal cortical adenomas sec.<br>83 Thyroid adenocarcinoma sec.<br>84 Chondrosarcoma sec.<br>85 Adenomyosis sec.<br>86 Adrenal Pheochromocytoma sec.<br>87 Adrenal cortical carcinoma sec.<br>88 Hypophyseal adenoma sec.<br>89 Simple goiter sec.<br>90 Fibrous thyroiditis sec.<br>Thyroid adenocarcinoma sec.<br>Diseases of Nervous System<br>92 Purulent meningitis sec.<br>93 Epidemic encephalitis B sec.<br>94 Meningeoma sec.<br>95 Neurinoma sec.<br>96 Neurofibroma sec.<br>97 Neuroastrocytoma sec.<br>Diseases of Muscular and Skeletal System<br>98 Osteochondroma sec.<br>99 Osteogenic sarcoma sec.<br>100 Giant cell tumor of bone sec |

# Section VIII. Bid Documents Checklist

This Bid Documents Checklist is provided to guide the Bidder in preparing his/her bid. The checklist may be used by the Bidder to verify if the Bid includes all the prescribed documents.

The Bidder, in submitting the required documents, must use the prescribed forms found in Section X. Bidding Forms. However, should a bidder choose to use a different formatting style for a required document, the bidder must ensure that the substance in the form given in Section X for that particular document is substantially captured in the equivalent document.

## I. TECHNICAL COMPONENT ENVELOPE

***Class "A" Documents***

*Legal Documents*

☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;

*Technical Documents*

☐ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and

☐ (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; and

☐ (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission or Original copy of Notarized Bid Securing Declaration; and

☐ (e) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; and

☐ (f) Original duly signed Omnibus Sworn Statement (OSS) and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

*Financial Documents*

☐ (g) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

***Class "B" Documents***

☐ (h) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

## II. FINANCIAL COMPONENT ENVELOPE

☐ (i) Original of duly signed and accomplished Financial Bid Form; and

☐ (j) Original of duly signed and accomplished Price Schedule(s).

# Section IX. Bidding Forms

## TABLE OF CONTENTS

# [*Bidder's Letterhead*]

[*Date*]

To: Tarlac State University
Re: Invitation to Bid No.

**List of All Ongoing Government and Private Contracts, Including Contracts Awarded But Not Yet Started**

| Row 1: Name of Contract<br>Row 2: Location of Project<br>Row 3: Contract Price | Row 1: Procuring Entity<br>Row 2: Contact Person/Address<br>Row 3: Telephone No. | Description of Goods | Row 1: Date of Award<br>Row 2: Date Started<br>Row 3: Contract Duration | Value of Outstanding Goods |
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Attached herewith are the following documents: Notice of Award, Notice to Proceed, and Official Receipts/Invoices, as evidences in support of the foregoing information.

I/We certify that the foregoing information and all of the supporting documents are true and correct.

[*Signature*]
[*Name of Bidder or Authorized Representative*]
[*Position or Title*]

# [*Bidder's Letterhead*]

[*Date*]

To: Tarlac State University
Re: Invitation to Bid No.

**Statement of Single Largest Completed Contract Similar to the Contract to be Bid**

| Row 1: Name of Contract<br>Row 2: Location | Contract Price | Row 1: Procuring Entity<br>Row 2: Address<br>Row 3: Contact Person/Tel. No. | Description of Goods | Date of Award | Date Completed |
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Attached herewith are the following documents: Contract Agreement, Notice of Award, Notice to Proceed, Official Receipt/Invoice, Certificate of Final Inspection, and Certificate of Acceptance, as evidences in support of the foregoing information.

I/We certify that the foregoing information and all of the supporting documents are true and correct.

[*Signature*]
[*Name of Bidder or Authorized Representative*]
[*Position or Title*

**BID SECURING DECLARATION**

REPUBLIC OF THE PHILIPPINES)

CITY OF _____) S.S.

**Project Invitation to Bid No.:** ***[Insert number]***

To: Tarlac State University

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.

2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.

3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:

    a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;

    b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and

    c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month] [year]* at *[place of execution]*.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]*
*[Insert signatory's legal capacity]*

Affiant

***[Jurat]***

*[Format shall be based on the latest Rules on Notarial Practice]*

# [*Bidder's Letterhead*]

[*Date*]

To: Tarlac State University
Re: Invitation to Bid No.

**Compliance to the Technical Specifications**

| **Item No.** | **Description** | **Bidder's Compliance** State "Comply" below *if your offer is complying with the specifications, otherwise state* "We are offering the same goods with the following specifications [*State the complete specifications of the alternative offer*] |
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| **Lot No. 1 – Plastinated Specimens** | | |
| 1. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>FEMALE GENDER OF PLASTINATED HUMAN CADAVER (VISCERA IN-SITU)<br><br>Skeletal muscle is an important portion of locomotive system and is also the emphases of teaching. After delicately dissected, the specimen displays the skeletal muscle of the whole human body and some cutaneous nerves and superficial arteries which are remained simultaneously. One side of the Specimen displays superficial layers muscles and the other side displays Deep layer muscles. By means of the contrast between the two sides, students can deeply understand and grasp the position and relationship of the muscles.<br><br>Abdominal Cavity. The remained organs are liver, pancreas, stomach (only fundus and pyloric part), duodenum, terminal part of ileum, caecum and vermiform appendix, ascending and descending colons (including left and right colic flexures), sigmoid colon, rectum, spleen, the two kidneys and suprarenal glands, the two ureter, urinary bladder (a window on it to display trigone of bladder), superior and inferior mesenteric arteries. In addition, testis, ductus defense, seminal vesicle, and penis are remained on a male specimen, while ovary, uterine tube and uterus are remained on a female specimen.<br><br>The inferior vena cava, renal veins, abdominal aorta, internal and external iliac veins and arteries are remained.<br><br>The diaphragm, iliopsoas, psoas minor and quadratus lumborum are remained. The superficial and deep layer muscles are displayed on the left and right limbs respectively.<br><br>Head. Both left and right muscles of head and face are superficial, and facial nerves and arteries are shown.<br><br>Abdominal Viscera. All abdominal organs cannot be removed or detachable. Half of the stomach is taken off to show gastric mucosa. Jejunum and ileum are all taken off in order to show superior and inferior mesenteric arteries. Transverse colon is cut to observe pancreas. | |

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| | Thoracic Cavity. In order to clearly show mesenteric arteries, porta hepatis and porta lienis, splanchnic nerves are taken off and sympathetic trunks cannot be seen. Muscular structure of the posterior thoracic wall cannot be observed.<br>Abdominal Cavity. The bladder is not opened. Sympathetic trunk nerve cannot be seen due to some abdominal organs remained as well as the lumbosacral trunks, which is covered by pelvic organs. Muscular structure of the posterior abdominal wall cannot be seen.<br><br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | |
| 2. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>HORIZONTAL SECTION OF THE WHOLE BRAIN (PLASTINATED)<br>Whole brain, accorded to canthomeatal line, Horizontal section, about 10 - 12 slices at 10mm Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 degC<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged. | |

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| | - Distributor should have an actual demo unit during post qualification | |
| 3. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>CORONAL SECTION OF THE WHOLE BRAIN (PLASTINATED)<br>Whole brain, coronal section, about 9 - 10 slices at 15 mm<br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | |
| 4. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>THE BRAIN AND 12 PAIRS OF CRANIAL NERVES (PLASTINATED)<br>Dissected to show the whole brain and 12 pairs of cranial nerves roots intact<br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | |

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| 5. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>ARTERIES AT THE BASE OF THE BRAIN (PLASTINATED)<br>Dissected to show the basilar artery, internal Carotid artery and the main branches Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | |
| 6. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>SUPERFICIAL VEINS OF THE BRAIN (PLASTINATED)<br>Unilateral, dissected to show the veins of the lateral surface of cerebral hemisphere<br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | |
| **Lot No. 2 – Simulation Equipment for Basic Sciences** | | |

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| 7. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>MEDICAL IMAGING SOLUTION<br>1 set<br>65” (Touchscreen) Visualization Table WITH TEN (10) years<br>TERMINAL account<br>Allows access to 1,006 clinical cases<br>(418 CT scan, 29 MRI, 521 Slide Microscopy,<br>17 OT, 8 Xray Angiography, 11 Ultrasound, 2 MG) using the Education Portal and Anatomy Software<br><br>Includes:<br>- Visualization Table with large capacitive touch monitor and electrical tilt function<br>- A cadaver-based anatomy atlas<br>- 50 Digital Slides for Histology (ofine)<br>- 50 Digital Slides for Pathology (ofine)<br><br>KEY FEATURES & BENEFITS<br>- Large 65" monitor<br>- 4K resolution<br>- High performance graphics card<br>- Direct capacitive touchscreen<br>- Supports group discussions & collaborative learning<br>- Optimal touch interaction with our cloud-based library of real medical images<br>TECHNICAL SPECIFICATION SOFTWARE<br>- Has Secured cloud-based solution allowing the portability by being able to use it on different smart devices with instant deployment and should do back- ups and updates automatically.<br>- The Cloud follow the standards ISO 27001/27002/27017 & 27018 for secure storage of images and should be encrypted during transport with 128-bit AES encryption. The service's "endpoints" should be only TLS / SSL and received A-grade in SSL Labs tests.<br>- You can create intelligent cases lists based on filters where newly imported cases will accommodate automatically depending on the body part or modality.<br>- It is capable of doing 3D reconstruction from CT and MRI clinical images through DICOM data reconstruction without any format conversion of the file. The users can import and save any modality data which includes but not limited to: CT, MRI, Ultrasound, Angiograms, Mammograms, and<br>X-Rays. Once such files are imported, it should be instantly accessible from any smart device having access to the cloud.<br>- It features a touch user interface as well as a mouse/keyboard workspace support for advanced tools. The workspace should be included in the software and be able to access it without the need of a separate computer or monitor (built-in).<br>- It has touch interface and/or workspace with the facility of importing any DICOM images in dcm format, film clips in mpeg or avi format and documents in pdf format.<br>- It allows to measure, cut in plane and sphere and label structures in different colours in the 3D reconstruction without any additional program or application.<br>- The system can show 3D structures and 2D projection view (MPR) at the same time on the same screen. This view should allow to locate one point or coordinate in 3D structure and show it in the 2D projection view in the three planes simultaneously.<br>- It gives a view of the three planes transverse, sagittal and coronal without any 3D model, with possibility of measurements, text annotations and multiplanar synchronization.<br>- The interface presents a movable control/tool buttons for users to hand over commands to others in group discussions. | |

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| | - The cloud has an online import tool to import histology slides and save it to the cloud, making them accessible by any user, supporting the following formats: .ndpi, .tif, .tiff, .svs. In such a tool there should be the possibility to check the space left in the cloud to upload your own cases.<br>Once such files are imported, it should be instantly accessible from any smart device having access to the cloud.<br>- Embryology 3D Atlas based on real data from embryos with at least 14 stages, with visualization of all systems, measurement tables, the possibility to select different structures of the embryo, CT scan of each embryo, and slices of each embryo.<br>- It allows linear measurement, text mark, polylines, orthogonal measurements, density areas, area, arrow, circle and ellipse and should allow to create/export URL linking for integration with virtual campus platform.<br>- It is a web-based content guide with a selection of preferred cases to<br>interact with, accessible from any device either Teacher or Student.<br>- It provides access to an online tool to administrate the credentials to access the cloud, including the possibility to send emails to students with a link to activate the account to the cloud.<br>- It allows to open the 3D volume and the MPR on the same screen and it localizes and synchronizes a point that has been touched in the 3D in the 3 planes and should add light/shadows from a customized angle in the 3D reconstruction.<br>- It includes lessons and dissection guides that allow students to understand the anatomy with the interactive 3D volume at the same time as photos from the dissected areas.<br>- It has a bookmarking feature allowing the Professor to prepare cases before the class and saving the work/bookmarks for a home access, homework or next class and should be able to segment structures from the 3D clinical cases. All segmented bones should be able to be saved and retrieved without further processing.<br>- It provides a fully labelled body atlas with at least 2000 body structures.<br>- It has histology library with digitalized images from physical pathology slides, with at least the following tools: zoom, annotate, measure area and distance, synchronize images from same block, mitotic activity, KI67 cell counting.<br>- It has histopathology library that englobes undergraduate normal curriculum, pathological and cytology curriculums with minimum over 500 cases.<br>It has a Software for surgery planning training that allows 3D visualization of traumatology cases with at least the following functions: segmentation of fracture, surgical templates in 3D modelled, re-alignment of bones, rotation in all axis of segmented structures, individual fragment segmentation and coloring.<br>- It has Cadaver Dissection Guide and embedded lessons with automatic link to colored anatomy models from a frozen cadaver.<br>- Teachers and students can access to an extensive library of clinical cases that have been fully anonymized, including patient identifiers like the face, tattoos, medical record number etc.<br>- The cloud contains high-resolution histology and cytology images that can be displayed in full screen and zoomed to microscopic resolution and can annotate.<br>- Through the collaborative network, institutions can share and review cases and knowledge with other users, institutions around the world and also have a private space between departments of same Institute.<br>- Teachers can access the library with full functionality to prepare content including 2D tools, 3D segmentation, 3D renderings or possibility to change colours according to Hounsfield Units from a PC and it will be synchronized in real time in other devices like the table, or student accounts. | |

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| | - It can share the entire screen of the table with Zoom, Teams, Skype etc<br>- It has a cloud for the Institution with at least 50 GB of space available and unlimited space in the public cloud space.<br>- It has more than 50 cadaveric prosections. Each prosection should have also an explanatory video with voice narration and an explanatory PDF.<br>- It has one MRI scan acquired at 7 Tesla<br>- It can share screen with students through a secure viewer that also allows to ask for screen control.<br>- Start time and response time of the system should be no longer than 10 seconds.<br>- The software is certified according to CE regulations.<br><br>HARDWARE<br>- Has single industrial monitor of at least 65", with mutual capacitive touchscreen and resolution of at least 3840 X 2160 (4K) QLED technology with hardened clear glass and 10 simultaneous touch points<br>- It is adjustable in height to at least 1100 mm through an electrical allowing two<br>positions to be stored.<br>TECHNICAL DATA SHEET<br>Picture/ Display / Monitor Type: Industrial<br>Diagonal screen size: 65" (163 cm) Protection glass: 6mm hardened clear glass Panel resolution: 3840 x 2160 (4K QLed UHD)<br>Optimum resolution: 3840 x 2160 @ 120Hz E-Led BLU Brightness: 600 cd/m² (peak 1500 cd/m²)<br>Contrast ratio (typical): 6000:01:00 Viewing angle (H / V): 178 / 178 degrees<br>Display colors: 1.07 Billion<br>Touch Technology<br>Touch Points : 10 simultaneous points (min separation 20 mm)<br>Sensing Type: Mutual capacitance 2 layer<br>Response Time: 16ms Accuracy: ±1.5mm<br>Convenience<br>Easy access on table: 3 x USB3.0, 1 x HDMI<br>Inside cabinet: 1xPower cable, 1xRJ45 (Gb Ethernet), 6xUSB 2.0, 4xUSB 3.0, 1xMicrophone,<br>1xHeadphone, 3xDisplayPort, 1xHDMI, 1xDV0I<br>Placement: Vertical (Landscape), Horizontal (Table) Mobility: 4 pieces of heavy-duty wheels, with locks<br>Energy saving functions: Ambient light sensor, Energy Star® Certified Ports<br><br>Computer<br>CPU: Intel i7 8700 (3.2GHz – 4.60GHz) or higher<br>GPU: RTX 2080 8GB GDDR6 or better / higher GPU generation<br>Operating System: Windows 10 Pro 64-bit or higher<br><br>Software<br>Sectra PACS version: IDS7 19.2 or later<br>Operating system: Windows 10 Pro<br>Dimensions<br>Bezel thickness: 30 mm horizontal, 30 mm vertical<br>Set dimensions (W x H x D)<br>Width: 1547 mm<br>Height : min. 795 mm (in table mode)<br>Height : max. 1185 mm (in table mode)<br>Depth: 921 mm (in table mode)<br>Product weight: 220 kg including PC<br>Operating Conditions<br>Temperature range (operation): 10 - 35 °C<br>Relative humidity: 20 - 80 % (noncondensing) | |

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| | Power<br>Consumption (Typical/Max): 144W (Typical), 850W (Max)<br>Standby Consumption: <1W<br>Power Options: 230V/100V<br>Miscellaneous<br>On-Screen Display Languages: English (US & UK), Simplified Chinese, Danish, Dutch, Finnish, French, German, Greek, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish & Turkish<br><br>Uninterrupted Power Supply Rated power in W : 900 W<br>Rated power in VA : 1600 VA Output connection : 4 x universal Battery type : Lead-acid battery Network frequency 50/60 Hz +/- 5 Hz auto-sensing Input voltage limits 140 to 300 V 230 V AC Output frequency 50/60 Hz +/- 1 Hz sync to mains UPS type Line interactive Wave type : Stepped approximation to a sinewave IP degree of protection : IP20 Battery voltage : 24 V Battery life 3 to 5 year(s) Surge energy rate: 273 J Warranty : 2 years Local Supplier Warranty on UPS | |
| 8. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory) EYE TRAINER<br><br>Includes 36 diabetic, common and less common retinal conditions to offer excellent 'hands-on' experience in examination of the eyes and the use of an ophthalmoscope.<br>- Simple to set up and use<br>- High resolution digital display<br>- Easy to use, individual digital control for each eye<br>- Examination cover to hide displays of condition numbers<br>- Battery or worldwide mains power compatible<br>- Sleep mode to conserve power<br>Eye conditions and diseases presented digitally for left and right eye:<br>Diabetic Retinopathy<br>- Background Diabetic Retinopathy<br>- Maculopathy<br>- Pre-Proliferative Diabetic Retinopathy<br>- Proliferative Diabetic Retinopathy<br>- New Vessels Disc<br>- Laser<br>- Photocoagulation<br>- Ungradable--<br>Important and Common Retinal Conditions-<br>- Normal<br>- Glaucoma<br>- Papilloedema<br>- Optic Atrophy<br>- Age-related Macular Degeneration (Dry)<br>- Hypertensive Retinopahty<br>- Central Retinal Vein Occlusion<br>- Central Retinal Artery Occlusion<br>- Drusen<br>- Retinitis Pigmentosa<br>- Medulated Nerve Fibres<br>- High Myopia<br>- Branch Retinal Vein Occlusion--<br>Important and Less Common Retinal Conditions-<br>- Pre-Retinal Vein Occlusion<br>- Multiple Retinal Haemorrhages<br>- Retinal Detachment<br>- Angioid Streaks<br>- Benign Disc Neavus<br>- Malignant Melanoma<br>- Macular Hamorrhage<br>- Choroidal Naevus | |

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| | - Macular Scar (Toxoplasma)<br>- Cytomegalovirus Retinitis<br>- Lipaemia Retinalis<br>- Medusa Head<br>- Myopic Crescent - Normal Choroidal Vessels<br>- Sub Hyaloid Haemorrhage Resolving<br>- Macular Burn | |
| 9 | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>DIGITAL EAR EXAMINATION TRAINER<br><br>Designed to facilitate the most realistic training experience in ear examination. Using high resolution digital screen technology, the trainer includes 48 common and less common ear conditions as well as an anatomically accurate ear structure to offer a comprehensive training solution for ear examination and use of an otoscope.<br><br>Simple to set up and use<br>Soft, flexible and realistic pinna and ear canal<br>High resolution digital display<br>Easy to use, digital control for ear conditions<br>Examination cover to hide displays of condition numbers<br>Battery or worldwide mains power compatible<br>Sleep mode to conserve power<br><br>Ear conditions and diseases presented digitally for the right patient ear:<br>- Normal I<br>- Normal II<br>- Ear Wax (Cerumen)<br>- Swimmer's Osteoma<br>- Fungal Ear I<br>- Fungal Ear II<br>- Acute Viral Ear<br>- Acute Secretory Otitis Media I<br>- Resolving Secretory Otitis Media<br>- Acute Secretory Otitis Media II<br>- Acute Secretory Otitis Media III<br>- Perforation following an Acute<br>Suppurative Otitis Media (ASOM)<br>- Childhood Glue Ear<br>- Glue Ear in a Child with a Dermoid Cyst in the Eardrum<br>- Adult Glue Ear<br>- A Standard Ventilation Tube in the Membrane<br>- Infected Mini Grommet with Otitis Externa Secondary to a<br>Mucus Discharge<br>- Permanent Ventilation Tube in Place<br>- Large Perforation of the Tympanic Membrane<br>- A Posterior Perforation of the Tympanic Membrane<br>Two Small Traumatic Perforations following a Blow to the Ear<br>- Subtotal Perforation of the Tympanic Membrane<br>- Perforation with Tympanosclerosis<br>- Grommet Scar Healed<br>- Tympanosclerosis of Tympanic Membrane<br>- Posterior Retraction<br>- Retraction onto Long Process of the Incus<br>- Retraction with Loss of Long Process of the Incus and Keratin<br>Trail<br>- Retraction with loss of Long Process of the Incus<br>- Posterior Retraction Pocket onto Jugular Bulb and with Middle<br>Ear Fluid<br>- Retraction with Early Keratin Build Up<br>- Childhood Attic Retraction<br>- Deep Attic Retraction | |

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| | - Attic retraction Accumulation Keratin – Underlying Cholesteatoma<br>- Extensive Accumulation with Cholesteatoma in Middle Ear<br>- Wet Cholesteatoma<br>- Clean Dry Reconstructed Mastoid Cavity<br>- Old Style Mastoid Cavity with Residual Cholesteatoma<br>- Mastoid Cavity with Fistula into Lateral Semicircular Canal<br>- Congenital Cholesteatoma<br>- Large Congenital Cholesteatoma<br>- Ear Canal Cholesteatoma I<br>- Ear Canal Cholesteatoma II<br>- Keratosis Obturans<br>- Glomus Tympanicum Tumours<br>- Glomus Jugulare Tumour<br>- Foreign bodies<br>- Aural Polyp<br><br>Includes<br>- Rigid Carrying Case<br>- Mains adaptor with worldwide plug fixings<br>- Instruction Manual | |
| 10 | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>TRINOCULAR DIGITAL BIOLOGICAL MICROSCOPE<br><br>Technical Data<br>Optical System: Infinite Optical System<br>Eyepiece: WF10x / 20mm, ANTI FUNGUS with pointer<br>Viewing Head: Seidentopf Trinocular Head, inclined at 30°, interpupillary 47-78mm ANTI FUNGUS<br>Objective: Infinite Semi-Plan Achromatic Objectives 4×, 10×, 40×, 100x ANTI FUNGUS<br>Nosepiece: Backward Quadruple<br>Nosepiece Stage: RACKLESS Double Layers Mechanical Stage 150mm×139mm,<br>Moving Range 75mm×52mm Condenser: Abbe Condenser NA1.25<br>Focusing: Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 25mm<br>Illumination: SLED with rechargeable battery<br>A HDMI Microscope Camera is a 1080P economic HDMI digital camera. It can be connected to a LCD monitor or HD TV via HDMI cable and operated independently without connecting to PC. The image/video capture and operate can be controlled by mouse, so no shaking when you take images and videos. It also can be connected to a PC via USB2.0 cable and operate with the software. KEY FEATURES Use mouse to control the Camera Record image and video to SD card High frame rate of 15fps 3D Noise Reduction Set Exposure Time Capability 1080P Video Recording Image Comparison Function TECHNICAL DATA SHEET Image Sensor : CMOS, Aptina MT9P031 Sensor Size : 1/2.5" Pixel Size : 2.2um × 2.2um Video Resolution : 1920 × 1080 Capture Resolution : 2592 × 1944 Frame Rate : 1920 × 1080 15fps via USB2.0 1920 × 1080 15fps via HDMI Data Record : SD Card (4G) Video Record : 1080p 15fps @ SD Card 1080p 15fps @ PC Scan Mode : Progressive Electronic Shutter : Electronic Rolling Shutter A/D conversion : 8 bit Color Depth : 24bit Dynamic Range : 60dB S/N ratio : 40.5dB Exposure time : 0.001 | |

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| | sec ~ 10.0 sec Exposure : Automatic & Manual White balance : Automatic Settings : Gain, Gamma, Saturation,Contrast Built-in software : Cloud 1.0 version PC software : ISCapture Output model 1 : USB2.0 Output model 2 : HDMI System Compatible : Windows XP/Vista/ Win 7/Win 8/Win 10 (32 and 64-bit), MAC OSX Optical port : C- Mount Power Supply : DC 12V /2A Operational Temp : 0°C~60°C Humidity : 45%-85% Storage Temperature : -20°C~70°C Dimension & Weight : 74.4*67.2*90.9mm, 0.8kg | |
| 11 | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>BINOCULAR BIOLOGICAL MEDICAL MICROSCOPE<br><br>Technical Data<br>Optical System: Infinite optical system<br>Viewing Head: Seidentopf Binocular Head, 30°Inclined, Interpupillary Distance 47-78 mm, ANTI-FUNGUS<br>Eyepiece: WF 10X/20mm with pointer, ANTI-FUNGUS Nosepiece: Backward Quadruple Nosepiece Objective: Infinite Plan Achromatic Objectives<br>4× NA: 0.10, W.D.: 17.3mm;<br>10× NA: 0.25, W.D: 10mm;<br>40× NA: 0.65, W.D.: .54mm;<br>100×Oil NA: 1.25, W.D.: 0.13mm, ANTI- FUNGUS<br>Focusing: Coaxial Coarse and Fine Adjustment, Moving Range 0.002mm, Fine Division<br>20mm<br>Condenser: Abbe Condenser, NA1.25<br>Stage: Rackless Double Layers Mechanical Stage, 150mm×139mm, Moving Range<br>75mm×52mm<br>Illumination: S-LED Illumination, Brightness adjustable with Rechargeable battery<br>Power : 220VAC, 50/60Hz,<br>Inclusive: Dust Cover, Fuse, Green Filter<br>Package: 1pc/carton, 36*26*46mm, gross weight: 8kg | |
| 12 | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>SKELETON MODEL WITH MUSCLE AND LIGAMENTS - HANGING STAND<br><br>Weight: 10.348 kg/12.133 kg Dimensions: 176.5 cm/192.5 cm<br><br>Description<br>Can also demonstrate the movements of the skull via the head joints, and thanks to the fully flexible spine, you can adjust the model to place it in natural body postures. The unique combination of muscle origins and insertions, the numbered bones, flexible ligaments and flexible spine with a slipped disc between the 3rd and 4th lumbar vertebrae clearly the show medical and anatomical interest of this top model's more than 600 structures. Now available on a stable metal stand with 5 casters!<br><br>Comes with metal stand and transparent dust cover/ Comes with metal hanging stand and transparent dust cover. Stand is 6' 3" (192cm).<br><br>- 3 part assembled skull<br>- Individually inserted teeth | |

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| | - Limbs can be removed quickly and easily<br><br>Comes with metal hanging stand and transparent dust cover. Stand is 6' 3" (192cm). | |
| 13 | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology<br>Laboratory)<br>PREPARED SLIDES – HISTOLOGY (SET OF 100)<br><br>Must INCLUDE:<br>Epithelial tissue<br>Simple columnar epithelium of Human sec.<br>Simple cuboidal epithelium of Human sec.<br>Pseudostratified ciliated columnar epithelium of Human sec.<br>Simple columnar ciliated epithelium of Human sec.<br>Stratified squamous epithelium of Human sec.<br>Epithelium cells of cavitas oris of Human W.M. Connective tissue<br>Blood of Human smear (HE)<br>Blood of Human smear (stained with Giemsa)<br>Blood of Human A.B.O. smear<br>Loose connective tissue of Human sec.<br>Dense connective tissue of Human sec.<br>Adipose tissue of Human sec.<br>Hyaline cartilage of Human sec.<br>Fibrous cartilage of Human sec.<br>Elastic cartilage of Human sec.<br>Finger of Human L.S.<br>Human bone grinding W.M.<br>Hard bone of Human T.S. (thionin-picric acid staining)<br>Hard bone of Human L.S. (thionin-picric acid staining)<br>Human toe bone l.s.<br>Human red bone marrow smear. Muscular tissue<br>Smooth muscle isolated of Human W.M.<br>Skeletal muscle of Human T.S.and L.S. (hematoxylin staining)<br>Skeletal muscle of Human T.S.and L.S. (H.E.<br>Staining)<br>Skeletal muscle isolated of Human W.M.<br>Cardiac muscle of Human sec. (hematoxylin staining) Nervous System<br>Spinal cord of Human T.S.<br>Spinal ganglion of Human sec.<br>Tactile corpuscle of Human sec.<br>Lamellar corpuscle of Human sec.<br>Cerebrum of Human sec. (silver staining)<br>Cerebrum of Human sec. (HE)<br>Cerebellum of Human sec. (silver staining)<br>Cerebellum of Human sec. (HE) Circulation system<br>Heart of Human sec.<br>Cardiac muscle of Human sec.<br>Cardiac valve of Human sec.<br>Human Medium-sized artery and vein sec.<br>Large artery of Human sec.<br>Large vein of Human sec.<br>Human Heart sec. (showing Purkinje cell) Immune System<br>Lymphoid node of Human sec.<br>Spleen of Human sec.<br>Thymus of Human sec.<br>Palatine tonsil of Human sec. Endocrine System<br>Thyroid gland of Human sec.<br>Parathyroid gland of Human sec.<br>Adrenal gland of Human sec.<br>Human Pituitary sec. Digestive System<br>Liver of Human sec. (show bile canaliculus of liver)<br>Human tooth l.s.<br>Tongue of Human L.S. (show internal structure) | |

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| | Oesophagus of Human T.S.<br>Stomach of Human T.S.<br>Gastric section of stomach of Human sec.<br>Small intestine of Human T.S.<br>Small intestine of Human L.S.<br>Jejunum of Human sec.<br>Duodenum of Human sec.<br>Ileum of Human sec.<br>Colon of Human sec.<br>Vermiform appendix of Human sec.<br>Large intestinal of Human L.S.<br>Large intestinal of Human T.S.<br>Parotid gland of Human sec.<br>Submandibular gland of Human sec.<br>Salivary gland of Human sec.<br>Sublingual gland of Human sec.<br>Liver of Human sec.<br>Gall Bladder of Human sec. Respiratory System<br>Trachea of Human T.S.<br>Trachea of Human L.S.<br>Human Lung sec.<br>Epiglottic cartilage of Human sagittal section Urinary System<br>Urinary bladder of Human<br>Kidney of Human sec.<br>Ureter of Human T.S.<br>Kidney of Human through renal cortex T.S.<br>Genital System<br>Testis of Human sec.<br>Spermatozoon of Human smear.<br>Epididymis of Human sec.<br>Prostate of Human sec.<br>Ductus deferens of Human T.S.<br>Glandula vesiculosa of Human sec.<br>Penis of Human sec. (infant)<br>Human Uterus (proliferative phase) sec.<br>Human Uterus (secretory phase) sec.<br>Uterine cervix of Human sec.<br>Oviduct of Human T.S.<br>Ampulla of uterine tube of Human T.S.<br>Vagina of Human sec.<br>Human mammary gland (active phase) sec.<br>Placenta of Human sec.<br>Umbilical cord of Fetus T.S.<br>Human Corpus luteum sec. Sensory Organs<br>Skin of Human (show hair follicle) sec.<br>Human Eyelid sec.<br>Human Eyeball sec.<br>Skin of Human (show stratum corneum) sec.<br>Hair of Human W.M. | |
| 14 | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Physiology) PHYSIOLOGY PHARMACOLOGY TEACHING SYSTEM<br><br>Includes<br><br>1 Set Data Acquisition Unit<br>The data acquisition unit (DAQ) features 4 general purpose inputs (DIN), a dual Bio Amp, isolated stimulator, trigger input and an analog output (non-isolated). It also includes an I2C port for connection to data acquisition unit range of Front Ends. This features a durable aluminum enclosure and ships with a Stimulating Bar Electrode, Pulse Transducer, Shielded Bio Amp Cable, Shielded Lead Wires (5), BNC-DIN Smart Adapter (2), and BNC to DIN Cable (2m). It uses a USB interface for | |

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| | connection to Windows and has an aggregate sampling rate of 400k samples/s (100k samples/s per channel). The Bio Amp and Isolated Stimulator are certified safe for human connection, BF rated. General purpose inputs 3 & 4 are shared with the built-in dual Bio Amp.<br><br>1 set Physiology Accessory Kit<br>The Physiology Accessory Kit contains all the components required to perform standard physiology experiments using a teaching Data Acquisition Unit.<br>Includes:<br>- Grip Force Transducer<br>- Finger Pulse Transducer<br>- Push Button Switch<br>- Respiratory Belt<br>- Reusable ECG Electrodes (3)<br>- Dry Earth Strap<br>- EEG Flat Electrodes (5)<br>- Electrode Cream<br>- Electrode Paste (3)<br>- Abrasive Gel<br>- Disposable ECG Electrodes (100)<br>- Cardio Microphone<br>- Sphygmomanometer<br>- 12-Lead ECG Switch Box<br>- Tendon Hammer<br>- Skin Temperature Probe<br>- Thermistor Pod<br>1 set Human Respiratory Kit<br>The Human Respiratory Kit allows recording and analysis of respiratory parameters such as minute ventilation and tidal volume along with the calculation of PIF, PEF, FVC and FEV1 using the Spirometry Extension software(Win & Mac).<br>The kit includes:<br>- Spirometer Pod<br>- Respiratory Flow Head<br>- Student Disposable Respiratory Kit (5)<br>- Clean Bore<br>- Disposable Filters (50pcs) 1 Set Nerve & Muscle Kit II<br>The Nerve and Muscle Kit II is ideal for conducting teaching experiments using isolated animal nerve, skeletal, smooth and cardiac muscle preparations.<br>The Nerve and Muscle Kit II should include:<br>- Teaching Force Transducer (0-500g)<br>- Animal Nerve Stimulating Electrode<br>- B Nerve Chamber (includes a Stimulator Cable, two Differential Pod Input Cables)<br>- Shielded Lead Wires (5 Micro-Hooks, 25cm)<br>Muscle Holder<br>- Manipulator with Stand<br><br>1 set Advanced Pharmacology Kit<br>The Advanced Pharmacology Kit is ideal for student laboratories conducting isolated tissue and pharmacological experiments while maintaining high-quality glassware. The dual heating system delivers improved temperature maintenance. The Hot Plate Universal and Circulation Pump can both run on 115V or 220V. This kit also includes a Teaching Force Transducer (0-50g).<br><br>The Kit contains:<br>- Student Tissue Bath (Dual Heating)<br>- 25 mL Radnoti Single Tissue Organ Bath Chamber<br>- Glass Tissue Hook for tissue strip samples<br>- Glass "L" and Triangle Supports for tissue ring samples (<20 mm length) | |

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| | Transducer Positioner<br>Dual heating temperature maintenance system<br>- Teaching Force Transducer (0-50 g)<br><br>1 Unit Branded Laptop with installation of licensed software<br><br>Developed using the same technology as the online learning solution, the software gives educators and their students a modern lab experience.<br><br>TECHNICAL DATA OF BRANDED LAPTOP<br>Processor: i5 Storage: 512 SSD Memory: 8GB Display: 15.6"Full HD<br>OS: Windows 11<br>Experiments That Can Be Performed Are:<br>- Human Physiology<br>Airflow<br>Autonomic Nervous System<br>Blood Counting<br>Blood Clotting<br>Blood Pressure<br>Breathing<br>Cardiovascular Effect of Exercise<br>Cardiorespiratory Effects of Exercise<br>Introduction to Fitness Testing<br>Diving Response<br>Electroencephalography<br>Endocrine Physiology<br>Glucose Absorption<br>Heart & ECG Lab<br>Heart & Peripheral Circulation<br>Heart Sounds<br>Kidney & Urine<br>Mechanics of Ventilation<br>Muscle & EMG<br>Peripheral Nerve Function<br>Reflexes & Reaction Times<br>Sensory Illusion<br>Sensory Physiology<br>Skeletal Muscle Function<br>Brain Structures & Reflexes<br>Water Balance<br>- Animal Physiology<br>Earthworm Smooth Muscle<br>Earthworm Action Potential<br>Frog Heart<br>Frog Nerve<br>Frog Neuromuscular Junction<br>Frog Skeletal Muscle<br>Gin Trap Closure Reflex<br>- Pharmacology<br>Airway Resistance<br>Chick Biventer Cervicis<br>Mammalian Atria<br>Mammalian Diaphragm<br>Mammalian Heart<br>Mammalian Jejunum<br>Mammalian Uterus<br>Stimulated Ileum<br>Stimulated Rat Vas Deferens<br>Toad Rectus Abdominis<br>Unstimulated Ileum<br>Vascular Resistance<br>Vascular Smooth Muscle<br>50 licenses for 50 students for Five (5) years Access to Physiology/Pharmacology Content Pack (web-based) allows access to | |

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| | all software features, including standard lesson templates, authoring tools for content creation and analytics and assessment tools for evaluating and documenting student progress.<br>This will include content pack that gives you access to Physiology and Pharmacology content including Human, Animal and Exercise Physiology. | |
| 15 | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Microbiology) PARASITOLOGY SLIDES (SET OF 50)<br>Includes<br><br>37 Fasciola hepatica, wm<br>38 Fasciola hepatica, ova<br>39 Entamoeba coli, troph, wm<br>40 Endolimax nana, cysts, smear<br>41 Giardia lamblia, cysts, wm<br>42 Trichomonas vaginalis, sm<br>43 Trypanosoma cruzi, blood, wm<br>44 Leishmania tropica major, sm<br>45 Balantidium coli, cysts, wm<br>46 Balantidium coli, trophs, wm<br>47 Plasmodium falciparum, smear<br>48 Ascaris lumbricoides ova, wm<br>49 Enterobius vermicularis, wm<br>50 Ancylostoma caninum female wm<br>51 Necator americanus ova, wm<br>52 Trichinella spiralis, female, wm<br>53 Diphyllobothrium ova, wm<br>54 Taenia saginata, mature, cs<br>55 Dipylidium caninum, comp, wm<br>56 Trichuris trichiura – adult worm (female)<br>57 Trichuris trichiura – ovum<br>58 Trichinella spiralis – ova<br>59 Enterobius vermicularis – ova<br>60 Fasciolopsis buski ova<br>61 Clonorchis sinensis ova<br>62 Schistosoma mansoni, male<br>63 Schistosoma mansoni female<br>64 Diphyllobothrium latum ova<br>65 Taenia saginata ova<br>66 Dipylidium caninum, scolex, w.m<br>67 Dipylidium caninum, comp, w.m<br>68 Trichomonas Vaginalis<br>69 Giardia lamblia, Trophozoite<br>70 Trypanosoma gambiense<br>71 Leishmania (donovani)<br>72 Trypomastigote Ceratium<br>37. Taenia solium, ova in faeces w.m.<br>38. Leishmania donovani, amastigote, smear causes kala-azar,<br>39. Trichomonas vaginalis, smear<br>40. Entamoeba histolytica cyst, smear<br>41. Entamoeba histolytica trophozoites, smear<br>42. Plasmodium vivax blood smear<br>43. Toxoplasma gondii smear with parasites<br>44. Angiostrongyloides Cantonensis, Adult Female w.m | |

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| | 45. Eggs of schistosoma japonicum w.m.<br>46. Cercaria of schistosoma japonicum w.m.<br>47. Miracidium of schistosoma japonicum w.m.<br>48. Schistosoma japonicum, adult male w.m.<br>49. Schistosoma japonicum, adult female w.m.<br>Schistosoma japonicum, adult female in copula w.m | |
| 16 | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Microbiology) MICROBIOLOGY SLIDES (SET OF 50) Includes<br><br>Fungi<br>Penicillium w.m.<br>Aspergillus w.m.<br>Actinomycets w.m.<br>Rhizopus nigrocans w.m. 05 Saccharomyces w.m.<br>Macroconidia w.m.<br>Microconidia w.m. 08 Septa hypha w.m.<br>09 Nonseptate hypha w.m. Bacteria<br>Bacteria three types smear (Staphylococcus, Pseudonmonas and Spirillum smear)<br><br>Coccus<br>Candida albicans Smear<br>Terads smear<br>Sarcina smear<br>Staphylococcus aureus smear<br>Pneumococcus smear<br>Group A Streptococcus smear<br>Group B Streptococcus smear<br>Branhamella catarrhalis smear<br>Neisseria gonorrhoeae smear<br>Cryptococcus neoformans smear<br>Bacillus<br>Escherichia coli smear<br>Pseudomonas aeruginosa smear<br>Typhoid Bacilli smear<br>Dysentery bacillus smear<br>Neisseria meningitidis smear<br>Brucella abortus smear<br>Salmonella smear<br>Proteus smear<br>Bacillus anthracis smear<br>Perlschnurtest smear<br>Corynebacterium diphtheriae smear<br>Clostridium tetani smear<br>Clostridium botulinum smear<br>Bacillis cereus smear<br>Bacillus subtilis smear<br>Lactobacillus smear<br>Bacterium rhusiopathiae suis smear<br>Bordetetella pertrussis smear<br>Bifidobacterium smear<br>Mycobacterium tuberculosis smear<br>Clostridium perfringens smear<br>Bacterium pestis smear<br><br>Special Structure<br>Endospore smear<br>Capsule smear<br>Single Polar flagella smear<br>Peritrichous flagella smear<br>Lophotrichous smear | |

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| | Spirillar Bacterium<br>Vibrio cholerae smear<br>Helicobacter pylori smear<br>Leptospira w.m. | |
| 17 | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Pathology)<br>PREPARED SLIDES – PATHOLOGY (SET OF 100)<br>Includes<br>Injury and Repair of Cell and Tissue<br>1 Human myocardial hypertrophy sec.<br>2 Squamous metaplasia of bronchus sec.<br>3 Human liver cell fatty degeneration sec.<br>4 Human fibrinoid degeneration sec.<br>5 Liquefactive Necrosis of Brain sec.<br>6 Human granulation tissue sec.<br>7 Human bronchiectasis sec.<br>Disturbances of Blood Circulation<br>8 Chronic pulmonary congestion of the lung sec.<br>9 Hemorrhagic infarct of lung sec.<br>10 Pulmonary edema sec.<br>11 Human thrombus sec.<br><br>Diseases of Immunity<br>12 Human Necrotizing lymphadenitis sec.<br>13 Malignant lymphoma sec.<br>14 Lymph node tuberculosis sec.<br>15 Metastatic carcinoma of lymph node sec.<br>Inflammation<br>16 Fibrinous pleurisy sec.<br>17 Phlegmon of appendix sec.<br>18 Liver abscess sec.<br>19 Granuloma sec.<br>20 Lung abscess sec.<br>21 Chronic glomerulonephritis sec.<br>22 Chronic pyelonephritis sec.<br>23 Human aortitis sec.<br>24 Rheumatic endocarditis sec.<br>25 Bacterial myocarditis sec.<br>Tumor<br>26 Polypous adenoma of intestine sec.<br>Diseases of Cardiovascular System<br>27 Atherosclerosis sec.<br>28 Angioma sec.<br><br>Diseases of Respiratory System<br>29 Squamous cell carcinoma of nasopharynx sec.<br>30 Chronic bronchitis sec.<br>31 Diffuse pulmonary emphysema sec.<br>32 Lobar pneumonia (red liver period) sec.<br>33 Lobar pneumonia (grey liver period) sec.<br>34 Bronchial pneumonia (lobular pnermonia) sec.<br>35 Silicosis sec.<br>Disease of Digestive System<br>36 Esophagus cancer sec.<br>37 Chronic atrophic gastritis sec. | |

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| | 38 Chronic gastric ulcer sec.<br>39 Adenocarcinoma of stomach sec.<br>40 Acute simple appendicitis sec.<br>41 Carcinoid of colon sec.<br>42 Intestinal cancer sec.<br>43 Chronic active hepatitis sec.<br>44 Alcoholic hepatitis sec.<br>45 Laennec's cirrhosis sec.<br>46 Liver cancer sec.<br>47 Hepatic congestion sec.<br>Diseases of Haemopoietic System<br>48 Non-Hodgkin lymphoma sec.<br>49 Hodgkin lymphoma sec.<br>Diseases of Urinary System<br>50 Diffuse sclerosing glomerular nephritis sec.<br>51 Renal clear cell carcinoma sec.<br>52 Wilms' tumor sec.<br>53 Transitional cell carcinoma of bladder (1st-degree) sec.<br>54 Kidney stone w.m.<br>Disease of Genital System<br>55 Carcinoma in-situ of cervix sec.<br>56 Ovarian Yolk Sac Tumor sec.<br>57 Endometrial Leiomyoma sec.<br>58 Cervical squamous cancer sec.<br>59 Adenocarcinoma of cervix sec.<br>60 Endometrial hyperplasia sec.<br>61 Adenocarcinoma of endometrium sec.<br>62 Choriocarcinoma sec.<br>63 Papillary adenofibroma of ovary sec.<br>64 Mucous cystadenofibroma of ovary sec.<br>65 Endodermal sinus tumor sec.<br>66 Invasive ductal carcinoma sec.<br>67 Medullary carcinoma of breast sec.<br>68 Seminoma sec.<br>69 Congenital agenesis of testis (47-XXYtype)<br>70 Prostatic cancer (well-differentiated)<br>71 Teratoma sec.<br>72 Prostatic cancer (poorly differentiated)<br>73 Breast cancer sec.<br>74 Hydatidiform mole sec.<br>75 Polyp of cervix sec.<br>76 Ovarian cyst sec.<br>77 Chronic endometritis sec.<br>78 Pointed condyloma sec.<br>Diseases of Endocrine System<br>79 Endemic goiter sec.<br>80 Papillary adenocarcinoma of thyroid gland sec.<br>81 Follicular adenocarcinoma sec.<br>82 Adrenal cortical adenomas sec.<br>83 Thyroid adenocarcinoma sec.<br>84 Chondrosarcoma sec.<br>85 Adenomyosis sec.<br>86 Adrenal Pheochromocytoma sec.<br>87 Adrenal cortical carcinoma sec. | |

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| | 88 Hypophyseal adenoma sec.<br>89 Simple goiter sec.<br>90 Fibrous thyroiditis sec.<br>Thyroid adenocarcinoma sec.<br>Diseases of Nervous System<br>92 Purulent meningitis sec.<br>93 Epidemic encephalitis B sec.<br>94 Meningeoma sec.<br>95 Neurinoma sec.<br>96 Neurofibroma sec.<br>97 Neuroastrocytoma sec.<br>Diseases of Muscular and Skeletal System<br>98 Osteochondroma sec.<br>99 Osteogenic sarcoma sec.<br>100 Giant cell tumor of bone sec | |

**Note:** Bidders must state in the Statement of Compliance either **"Comply"** or **"Not Comply"** against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provision of **ITB** Clause 4.

Attached herewith are the manufacturer's product literature(s) and certification(s) that we are authorized to sell the goods.

We certify that the foregoing information and the supporting documents are true and correct.

[*Signature*]
[Name of Authorized Signatory]
[*Position/Title of Authorized Signatory*]

## Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES )
CITY/MUNICIPALITY OF _____ ) S.S.

**A F F I D A V I T**

I, [*Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and residing at *[Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

1. ***Select one, delete the other:***

    b. *If a sole proprietorship:* I am the sole proprietor or authorized representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

    c. *If a partnership, corporation, cooperative, or joint venture:* I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

2. ***Select one, delete the other:***

    *a. If a sole proprietorship:* As the owner and sole proprietor, or authorized representative of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney*;

    b. *If a partnership, corporation, cooperative, or joint venture:* I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity],* as shown in the attached *[state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)]*;

3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. ***Select one, delete the rest:***

    a. *If a sole proprietorship:* The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

    b. *If a partnership or cooperative:* None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of

the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

c. *If a corporation or joint venture:* None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:

   a. Carefully examine all of the Bidding Documents;
   b. Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Made an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquire or secure Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. In case advance payment was made or given, failure to perform or deliver any of obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to delivery certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

_____
Bidder's Representative/Authorized Signatory

**SUBSCRIBED AND SWORN** to before me this ___ day of *[month] [year]* at *[place of execution],* Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this ___ day of *[month] [year]*.

**NAME OF NOTARY PUBLIC**
Serial No. of Commission _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. _____ *[date issued], [place issued]*
IBP No. _____ *[date issued], [place issued]*

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

[*Bidder's Letterhead*]

[*Date*]

To: Tarlac State University
Re: Invitation to Bid No.

**NET FINANCIAL CONTRACTING CAPACITY**

Based on our Income Tax Return and Audited Financial Statement for the Fiscal Year [*YEAR*], duly submitted to the Bureau of Internal Revenue, and which form part of our Bid, the summary of our firm's financial condition is as given below:

| | | Year [*YEAR*] |
|---|---|---|
| 1. | Total Assets | |
| 2. | Current Assets | |
| 3. | Total Liabilities | |
| 4. | Current Liabilities | |
| 5. | Net Worth (1-3) | |
| 6. | Net Working Capital (2-4) | |

Based on the aforementioned data and the Value of Outstanding Works from the Statement of All Ongoing Government and Private Contracts, which also form part of our Bid, our Net Financial Contracting Capacity (NFCC) is:

> **NFCC** = *[(current asset minus current liabilities*) (**15**)] minus [*value of all outstanding or uncompleted portions of the projects under ongoing contracts including awarded contracts yet to be started coinciding with the contract to be bid*].
>
> **NFCC** =

I/We certify that the foregoing information and all of the supporting documents are true and correct.

**[***Signature*]
[*Name of Bidder or Authorized Representative*]
[*Position or Title*]

# [*Bidder's Letterhead*]

[*Date*]

**FINANCIAL BID FORM**

To: Tarlac State University
Re: Invitation to Bid No.

Date : _____

Project Invitation to Bid No. : _____

To: Tarlac State University

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers],* the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform] [description of the Goods]* in conformity with the said PBDs for the sum of *[total Bid amount in words and figures]* or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties],* which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);

b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;

c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

*[Insert this paragraph if Foreign-Assisted Project with the Development Partner:*

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address Amount and Purpose
of agent Currency Commission or gratuity

_____
_____
_____

[(if none, state "None")*]*

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

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

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of *[name of the bidder]* as evidenced by the attached *[state the written authority]*.

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Name: _____

Legal capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

# [*Bidder's Letterhead*]

[*Date*]

To: Tarlac State University
Re: Invitation to Bid No.

**SCHEDULE OF PRICES**

| Item No. | Description | Qty. | Unit | Unit Price | Total Price |
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| **Lot No. 1 – Plastinated Specimens** | | | | | |
| 1. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>FEMALE GENDER OF PLASTINATED HUMAN CADAVER (VISCERA IN-SITU)<br><br>Skeletal muscle is an important portion of locomotive system and is also the emphases of teaching. After delicately dissected, the specimen displays the skeletal muscle of the whole human body and some cutaneous nerves and superficial arteries which are remained simultaneously. One side of the Specimen displays superficial layers muscles and the other side displays Deep layer muscles. By means of the contrast between the two sides, students can deeply understand and grasp the position and relationship of the muscles.<br><br>Abdominal Cavity. The remained organs are liver, pancreas, stomach (only fundus and pyloric part), duodenum, terminal part of ileum, caecum and vermiform appendix, ascending and descending colons (including left and right colic flexures), sigmoid colon, rectum, spleen, the two kidneys and suprarenal glands, the two ureter, urinary bladder (a window on it to display trigone of bladder), superior and inferior mesenteric arteries. In addition, testis, ductus defense, seminal vesicle, and penis are remained on a male specimen, while ovary, uterine tube and uterus are remained on a female specimen.<br><br>The inferior vena cava, renal veins, abdominal aorta, internal and external iliac veins and arteries are remained.<br><br>The diaphragm, iliopsoas, psoas minor and quadratus lumborum are remained. The superficial and deep layer muscles are displayed on the left and right limbs respectively.<br><br>Head. Both left and right muscles of head and face are superficial, and facial nerves and arteries are shown.<br><br>Abdominal Viscera. All abdominal organs cannot be removed or detachable. Half of the stomach is taken off to show gastric mucosa. Jejunum and ileum are all taken off in order to show superior and inferior | 1 | set | | |

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| | mesenteric arteries. Transverse colon is cut to observe pancreas.<br><br>Thoracic Cavity. In order to clearly show mesenteric arteries, porta hepatis and porta lienis, splanchnic nerves are taken off and sympathetic trunks cannot be seen. Muscular structure of the posterior thoracic wall cannot be observed.<br>Abdominal Cavity. The bladder is not opened. Sympathetic trunk nerve cannot be seen due to some abdominal organs remained as well as the lumbosacral trunks, which is covered by pelvic organs. Muscular structure of the posterior abdominal wall cannot be seen.<br><br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | | | | |
| 2. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>HORIZONTAL SECTION OF THE WHOLE BRAIN (PLASTINATED)<br>Whole brain, accorded to canthomeatal line, Horizontal section, about 10 - 12 slices at 10mm<br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color | 1 | set | | |

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| | Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 degC<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | | | | |
| 3. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>CORONAL SECTION OF THE WHOLE BRAIN (PLASTINATED)<br>Whole brain, coronal section, about 9 - 10 slices at 15 mm Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | 1 | set | | |
| 4. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology | 1 | set | | |

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| | Laboratory)<br>THE BRAIN AND 12 PAIRS OF CRANIAL NERVES (PLASTINATED)<br>Dissected to show the whole brain and 12 pairs of cranial nerves roots intact<br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | | | | |
| 5. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>ARTERIES AT THE BASE OF THE BRAIN (PLASTINATED)<br>Dissected to show the basilar artery, internal Carotid artery and the main branches Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above. | 1 | unit | | |

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| | - Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | | | | |
| 6. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>SUPERFICIAL VEINS OF THE BRAIN (PLASTINATED)<br>Unilateral, dissected to show the veins of the lateral surface of cerebral hemisphere<br>Specifications:<br>- Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.<br>- Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.<br>- Plastinates should have a life-like natural color<br>- Plastinates should be completely dry to touch not gluey, sticky or watery.<br>- Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers<br>- Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.<br>- Plastinates should be portable i.e not heavy with<br>- Distributor should replace specimen when it does not conform to the conditions above.<br>- Plastinates should have a 3-Dimensional feature<br>- Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 deg C<br>- Distributor should render free aftersales and preventive maintenance service for at least 5 years.<br>- Distributor should be able to provide repair when specimens are damaged.<br>- Distributor should have an actual demo unit during post qualification | 1 | set | | |
| **Lot No. 2 – Simulation Equipment for Basic Sciences** | | | | | |
| 7. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>MEDICAL IMAGING SOLUTION<br>1 set<br>65” (Touchscreen) Visualization Table WITH TEN (10) years TERMINAL account<br>Allows access to 1,006 clinical cases<br>(418 CT scan, 29 MRI, 521 Slide Microscopy, 17 OT, 8 Xray Angiography, 11 Ultrasound, 2 MG) using the Education Portal and Anatomy Software | 1 | set | | |

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| | Includes:<br>- Visualization Table with large capacitive touch monitor and electrical tilt function<br>- A cadaver-based anatomy atlas<br>- 50 Digital Slides for Histology (ofine)<br>- 50 Digital Slides for Pathology (ofine)<br><br>KEY FEATURES & BENEFITS<br>- Large 65" monitor<br>- 4K resolution<br>- High performance graphics card<br>- Direct capacitive touchscreen<br>- Supports group discussions & collaborative learning<br>- Optimal touch interaction with our cloud-based library of real medical images<br>TECHNICAL SPECIFICATION SOFTWARE<br>- Has Secured cloud-based solution allowing the portability by being able to use it on different smart devices with instant deployment and should do back- ups and updates automatically.<br>- The Cloud follow the standards ISO 27001/27002/27017 & 27018 for secure storage of images and should be encrypted during transport with 128-bit AES encryption. The service's "endpoints" should be only TLS / SSL and received A-grade in SSL Labs tests.<br>- You can create intelligent cases lists based on filters where newly imported cases will accommodate automatically depending on the body part or modality.<br>- It is capable of doing 3D reconstruction from CT and MRI clinical images through DICOM data reconstruction without any format conversion of the file. The users can import and save any modality data which includes but not limited to: CT, MRI, Ultrasound, Angiograms, Mammograms, and X-Rays. Once such files are imported, it should be instantly accessible from any smart device having access to the cloud.<br>- It features a touch user interface as well as a mouse/keyboard workspace support for advanced tools. The workspace should be included in the software and be able to access it without the need of a separate computer or monitor (built-in).<br>- It has touch interface and/or workspace with the facility of importing any DICOM images in dcm format, film clips in mpeg or avi format and documents in pdf format.<br>- It allows to measure, cut in plane and sphere and label structures in different colours in the 3D reconstruction without any additional program or application.<br>- The system can show 3D structures and 2D projection view (MPR) at the same time on the same screen. This view should allow to locate one point or coordinate in 3D structure and show it in the 2D projection view in the three planes simultaneously.<br>- It gives a view of the three planes transverse, sagittal and coronal without any 3D model, with possibility of measurements, text annotations and multiplanar synchronization. | | | | |

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| | - The interface presents a movable control/tool buttons for users to hand over commands to others in group discussions.<br>- The cloud has an online import tool to import histology slides and save it to the cloud, making them accessible by any user, supporting the following formats: .ndpi, .tif, .tiff, .svs. In such a tool there should be the possibility to check the space left in the cloud to upload your own cases.<br>Once such files are imported, it should be instantly accessible from any smart device having access to the cloud.<br>- Embryology 3D Atlas based on real data from embryos with at least 14 stages, with visualization of all systems, measurement tables, the possibility to select different structures of the embryo, CT scan of each embryo, and slices of each embryo.<br>- It allows linear measurement, text mark, polylines, orthogonal measurements, density areas, area, arrow, circle and ellipse and<br>should allow to create/export URL linking for integration with virtual campus platform.<br>- It is a web-based content guide with a selection of preferred cases to<br>interact with, accessible from any device either Teacher or Student.<br>- It provides access to an online tool to administrate the credentials to access the cloud, including the possibility to send emails to students with a link to activate the account to the cloud.<br>- It allows to open the 3D volume and the MPR on the same screen and it localizes and synchronizes a point that has been touched in the 3D in the 3 planes and should add light/shadows from a customized angle in the 3D reconstruction.<br>- It includes lessons and dissection guides that allow students to understand the anatomy with the interactive 3D volume at the same time as photos from the dissected areas.<br>- It has a bookmarking feature allowing the Professor to prepare cases before the class and saving the work/bookmarks for a home access, homework or next class and should be able to segment structures from the 3D clinical cases. All segmented bones should be able to be saved and retrieved without further processing.<br>- It provides a fully labelled body atlas with at least 2000 body structures.<br>- It has histology library with digitalized images from physical pathology slides, with at least the following tools: zoom, annotate, measure area and distance, synchronize images from same block, mitotic activity, KI67 cell counting.<br>- It has histopathology library that englobes undergraduate normal curriculum, pathological and cytology curriculums with minimum over 500 cases.<br>It has a Software for surgery planning training that allows 3D visualization of traumatology cases with at least the following functions: segmentation of fracture, surgical templates in 3D modelled, re-alignment of bones, rotation in all axis of segmented structures, individual fragment segmentation and coloring. | | | | |

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| | - It has Cadaver Dissection Guide and embedded lessons with automatic link to colored anatomy models from a frozen cadaver.<br>- Teachers and students can access to an extensive library of clinical cases that have been fully anonymized, including patient identifiers like the face, tattoos, medical record number etc.<br>- The cloud contains high-resolution histology and cytology images that can be displayed in full screen and zoomed to microscopic resolution and can annotate.<br>- Through the collaborative network, institutions can share and review cases and knowledge with other users, institutions around the world and also have a private space between departments of same Institute.<br>- Teachers can access the library with full functionality to prepare content including 2D tools, 3D segmentation, 3D renderings or possibility to change colours according to Hounsfield Units from a PC and it will be synchronized in real time in other devices like the table, or student accounts.<br>- It can share the entire screen of the table with Zoom, Teams, Skype etc<br>- It has a cloud for the Institution with at least 50 GB of space available and unlimited space in the public cloud space.<br>- It has more than 50 cadaveric prosections. Each prosection should have also an explanatory video with voice narration and an explanatory PDF.<br>- It has one MRI scan acquired at 7 Tesla<br>- It can share screen with students through a secure viewer that also allows to ask for screen control.<br>- Start time and response time of the system should be no longer than 10 seconds.<br>- The software is certified according to CE regulations.<br><br>HARDWARE<br>- Has single industrial monitor of at least 65”, with mutual capacitive touchscreen and resolution of at least 3840 X 2160 (4K) QLED technology with hardened clear glass and 10 simultaneous touch points<br>- It is adjustable in height to at least 1100 mm through an electrical allowing two positions to be stored.<br>TECHNICAL DATA SHEET<br>Picture/ Display / Monitor Type: Industrial<br>Diagonal screen size: 65” (163 cm) Protection glass: 6mm hardened clear glass Panel resolution: 3840 x 2160 (4K QLed UHD)<br>Optimum resolution: 3840 x 2160 @ 120Hz E-Led<br>BLU Brightness: 600 cd/m² (peak 1500 cd/m²)<br>Contrast ratio (typical): 6000:01:00 Viewing angle (H / V): 178 / 178 degrees<br>Display colors: 1.07 Billion<br>Touch Technology<br>Touch Points : 10 simultaneous points (min separation 20 mm) Sensing Type: Mutual capacitance 2 layer<br>Response Time: 16ms Accuracy: ±1.5mm<br>Convenience | | | | |

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| | Easy access on table: 3 x USB3.0, 1 x HDMI<br>Inside cabinet: 1xPower cable, 1xRJ45 (Gb Ethernet), 6xUSB 2.0, 4xUSB 3.0, 1xMicrophone, 1xHeadphone, 3xDisplayPort, 1xHDMI, 1xDV0I<br>Placement: Vertical (Landscape), Horizontal (Table)<br>Mobility: 4 pieces of heavy-duty wheels, with locks<br>Energy saving functions: Ambient light sensor, Energy Star® Certified Ports<br><br>Computer<br>CPU: Intel i7 8700 (3.2GHz – 4.60GHz) or higher<br>GPU: RTX 2080 8GB GDDR6 or better / higher GPU generation<br>Operating System: Windows 10 Pro 64-bit or higher<br><br>Software<br>Sectra PACS version: IDS7 19.2 or later<br>Operating system: Windows 10 Pro<br>Dimensions<br>Bezel thickness: 30 mm horizontal, 30 mm vertical<br>Set dimensions (W x H x D)<br>Width: 1547 mm<br>Height : min. 795 mm (in table mode)<br>Height : max. 1185 mm (in table mode)<br>Depth: 921 mm (in table mode)<br>Product weight: 220 kg including PC<br>Operating Conditions<br>Temperature range (operation): 10 - 35 °C<br>Relative humidity: 20 - 80 % (noncondensing)<br>Power<br>Consumption (Typical/Max): 144W (Typical), 850W (Max)<br>Standby Consumption: <1W<br>Power Options: 230V/100V<br>Miscellaneous<br>On-Screen Display Languages: English (US & UK), Simplified Chinese, Danish, Dutch, Finnish, French, German, Greek, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish & Turkish<br><br>Uninterrupted Power Supply Rated power in W : 900 W<br>Rated power in VA : 1600 VA Output connection : 4 x universal<br>Battery type : Lead-acid battery Network frequency 50/60 Hz +/- 5 Hz auto-sensing Input voltage limits 140 to 300 V 230 V AC Output frequency 50/60 Hz +/- 1 Hz sync to mains UPS type Line interactive<br>Wave type : Stepped approximation to a sinewave IP degree of protection : IP20 Battery voltage : 24 V<br>Battery life 3 to 5 year(s) Surge energy rate: 273 J<br>Warranty : 2 years Local Supplier Warranty on UPS | | | | |
| 8. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory) EYE TRAINER<br><br>Includes 36 diabetic, common and less common retinal conditions to offer excellent ‘hands-on’ experience in examination of the eyes and the use of an ophthalmoscope.<br>- Simple to set up and use<br>- High resolution digital display | 1 | set | | |

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| | - Easy to use, individual digital control for each eye<br>- Examination cover to hide displays of condition numbers<br>- Battery or worldwide mains power compatible<br>- Sleep mode to conserve power<br>Eye conditions and diseases presented digitally for left and right eye: Diabetic Retinopathy<br>- Background Diabetic Retinopathy<br>- Maculopathy<br>- Pre-Proliferative Diabetic Retinopathy<br>- Proliferative Diabetic Retinopathy<br>- New Vessels Disc<br>- Laser<br>- Photocoagulation<br>- Ungradable--<br>Important and Common Retinal Conditions-<br>- Normal<br>- Glaucoma<br>- Papilloedema<br>- Optic Atrophy<br>- Age-related Macular Degeneration (Dry)<br>- Hypertensive Retinopahty<br>- Central Retinal Vein Occlusion<br>- Central Retinal Artery Occlusion<br>- Drusen<br>- Retinitis Pigmentosa<br>- Medulated Nerve Fibres<br>- High Myopia<br>- Branch Retinal Vein Occlusion--<br>Important and Less Common Retinal Conditions-<br>- Pre-Retinal Vein Occlusion<br>- Multiple Retinal Haemorrhages<br>- Retinal Detachment<br>- Angioid Streaks<br>- Benign Disc Neavus<br>- Malignant Melanoma<br>- Macular Hamorrhage<br>- Choroidal Naevus<br>- Macular Scar (Toxoplasma)<br>- Cytomegalovirus Retinitis<br>- Lipaemia Retinalis<br>- Medusa Head<br>- Myopic Crescent - Normal Choroidal Vessels<br>- Sub Hyaloid Haemorrhage Resolving<br>- Macular Burn | | | | |
| 9. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>DIGITAL EAR EXAMINATION TRAINER<br><br>Designed to facilitate the most realistic training experience in ear examination. Using high resolution digital screen technology, the trainer includes 48 common and less common ear conditions as well as an anatomically accurate ear structure to offer a comprehensive training solution for ear examination and use of an otoscope.<br><br>Simple to set up and use<br>Soft, flexible and realistic pinna and ear canal<br>High resolution digital display<br>Easy to use, digital control for ear conditions | 1 | set | | |

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| | Examination cover to hide displays of condition numbers<br>Battery or worldwide mains power compatible<br>Sleep mode to conserve power<br><br>Ear conditions and diseases presented digitally for the right patient ear:<br>- Normal I<br>- Normal II<br>- Ear Wax (Cerumen)<br>- Swimmer's Osteoma<br>- Fungal Ear I<br>- Fungal Ear II<br>- Acute Viral Ear<br>- Acute Secretory Otitis Media I<br>- Resolving Secretory Otitis Media<br>- Acute Secretory Otitis Media II<br>- Acute Secretory Otitis Media III<br>- Perforation following an Acute Suppurative Otitis Media (ASOM)<br>- Childhood Glue Ear<br>- Glue Ear in a Child with a Dermoid Cyst in the Eardrum<br>- Adult Glue Ear<br>- A Standard Ventilation Tube in the Membrane<br>- Infected Mini Grommet with Otitis Externa Secondary to a Mucus Discharge<br>- Permanent Ventilation Tube in Place<br>- Large Perforation of the Tympanic Membrane<br>- A Posterior Perforation of the Tympanic Membrane<br>Two Small Traumatic Perforations following a Blow to the Ear<br>- Subtotal Perforation of the Tympanic Membrane<br>- Perforation with Tympanosclerosis<br>- Grommet Scar Healed<br>- Tympanosclerosis of Tympanic Membrane<br>- Posterior Retraction<br>- Retraction onto Long Process of the Incus<br>- Retraction with Loss of Long Process of the Incus and Keratin Trail<br>- Retraction with loss of Long Process of the Incus<br>- Posterior Retraction Pocket onto Jugular Bulb and with Middle Ear Fluid<br>- Retraction with Early Keratin Build Up<br>- Childhood Attic Retraction<br>- Deep Attic Retraction<br>- Attic retraction Accumulation Keratin – Underlying Cholesteatoma<br>- Extensive Accumulation with Cholesteatoma in Middle Ear<br>- Wet Cholesteatoma<br>- Clean Dry Reconstructed Mastoid Cavity<br>- Old Style Mastoid Cavity with Residual Cholesteatoma<br>- Mastoid Cavity with Fistula into Lateral Semicircular Canal<br>- Congenital Cholesteatoma<br>- Large Congenital Cholesteatoma<br>- Ear Canal Cholesteatoma I<br>- Ear Canal Cholesteatoma II<br>- Keratosis Obturans | | | | |

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| | - Glomus Tympanicum Tumours<br>- Glomus Jugulare Tumour<br>- Foreign bodies<br>- Aural Polyp<br><br>Includes<br>- Rigid Carrying Case<br>- Mains adaptor with worldwide plug fixings<br>- Instruction Manual | | | | |
| 10. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>TRINOCULAR DIGITAL BIOLOGICAL MICROSCOPE<br><br>Technical Data<br>Optical System: Infinite Optical System<br>Eyepiece: WF10x / 20mm, ANTI FUNGUS with pointer<br>Viewing Head: Seidentopf Trinocular Head, inclined at 30°, interpupillary 47-78mm ANTI FUNGUS<br>Objective: Infinite Semi-Plan Achromatic Objectives 4×, 10×, 40×, 100x ANTI FUNGUS<br>Nosepiece: Backward Quadruple<br>Nosepiece Stage: RACKLESS Double Layers Mechanical Stage 150mm×139mm,<br>Moving Range 75mm×52mm Condenser: Abbe Condenser NA1.25 Focusing: Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 25mm<br>Illumination: SLED with rechargeable battery<br>A HDMI Microscope Camera is a 1080P economic HDMI digital camera. It can be connected to a LCD monitor or HD TV via HDMI cable and operated independently without connecting to PC. The image/video capture and operate can be controlled by mouse, so no shaking when you take images and videos. It also can be connected to a PC via USB2.0 cable and operate with the software. KEY FEATURES Use mouse to control the Camera Record image and video to SD card High frame rate of 15fps 3D Noise Reduction Set Exposure Time Capability 1080P Video Recording Image Comparison Function TECHNICAL DATA SHEET Image Sensor : CMOS, Aptina MT9P031 Sensor Size : 1/2.5" Pixel Size : 2.2um × 2.2um Video Resolution : 1920 × 1080 Capture Resolution : 2592 × 1944 Frame Rate : 1920 × 1080 15fps via USB2.0 1920 × 1080 15fps via HDMI Data Record : SD Card (4G) Video Record : 1080p 15fps @ SD Card 1080p 15fps @ PC Scan Mode : Progressive Electronic Shutter : Electronic Rolling Shutter A/D conversion : 8 bit Color Depth : 24bit Dynamic Range : 60dB S/N ratio : 40.5dB Exposure time : 0.001 sec ~ 10.0 sec Exposure : Automatic & Manual | 1 | set | | |

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| | White balance : Automatic Settings : Gain, Gamma, Saturation,Contrast Built- in software : Cloud 1.0 version PC software : ISCapture Output model 1 : USB2.0 Output model 2 : HDMI System Compatible : Windows XP/Vista/ Win 7/Win 8/Win 10 (32 and 64-bit), MAC OSX Optical port : C- Mount Power Supply : DC 12V /2A Operational Temp : 0°C~60°C Humidity : 45%-85% Storage Temperature : -20°C~70°C Dimension & Weight : 74.4*67.2*90.9mm, 0.8kg | | | | |
| 11. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>BINOCULAR BIOLOGICAL MEDICAL MICROSCOPE<br><br>Technical Data<br>Optical System: Infinite optical system<br>Viewing Head: Seidentopf Binocular Head, 30°Inclined, Interpupillary Distance 47-78 mm, ANTI-FUNGUS<br>Eyepiece: WF 10X/20mm with pointer, ANTI-FUNGUS Nosepiece: Backward Quadruple Nosepiece Objective: Infinite Plan Achromatic Objectives<br>4× NA: 0.10, W.D.: 17.3mm;<br>10× NA: 0.25, W.D: 10mm;<br>40× NA: 0.65, W.D.: .54mm;<br>100×Oil NA: 1.25, W.D.: 0.13mm, ANTI- FUNGUS<br>Focusing: Coaxial Coarse and Fine Adjustment, Moving Range 0.002mm, Fine Division 20mm<br>Condenser: Abbe Condenser, NA1.25<br>Stage: Rackless Double Layers Mechanical Stage, 150mm×139mm, Moving Range 75mm×52mm<br>Illumination: S-LED Illumination, Brightness adjustable with Rechargeable battery<br>Power : 220VAC, 50/60Hz,<br>Inclusive: Dust Cover, Fuse, Green Filter<br>Package: 1pc/carton, 36*26*46mm, gross weight: 8kg | 5 | set | | |
| 12. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>SKELETON MODEL WITH MUSCLE AND LIGAMENTS - HANGING STAND<br><br>Weight: 10.348 kg/12.133 kg Dimensions: 176.5 cm/192.5 cm<br><br>Description<br>Can also demonstrate the movements of the skull via the head joints, and thanks to the fully flexible spine, you can adjust the model to place it in natural body postures. The unique combination of muscle origins and insertions, the numbered bones, flexible ligaments and flexible spine with a slipped disc between the 3rd and 4th lumbar vertebrae clearly the | 1 | Set | | |

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| | show medical and anatomical interest of this top model's more than 600 structures. Now available on a stable metal stand with 5 casters!<br><br>Comes with metal stand and transparent dust cover/ Comes with metal hanging stand and transparent dust cover. Stand is 6' 3" (192cm).<br><br>- 3 part assembled skull<br>- Individually inserted teeth<br>- Limbs can be removed quickly and easily<br><br>Comes with metal hanging stand and transparent dust cover. Stand is 6' 3" (192cm). | | | | |
| 13. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Anatomy and Histology Laboratory)<br>PREPARED SLIDES – HISTOLOGY (SET OF 100)<br><br>Must INCLUDE:<br>Epithelial tissue<br>Simple columnar epithelium of Human sec.<br>Simple cuboidal epithelium of Human sec.<br>Pseudostratified ciliated columnar epithelium of Human sec.<br>Simple columnar ciliated epithelium of Human sec.<br>Stratified squamous epithelium of Human sec.<br>Epithelium cells of cavitas oris of Human W.M.<br>Connective tissue<br>Blood of Human smear (HE)<br>Blood of Human smear (stained with Giemsa)<br>Blood of Human A.B.O. smear<br>Loose connective tissue of Human sec.<br>Dense connective tissue of Human sec.<br>Adipose tissue of Human sec.<br>Hyaline cartilage of Human sec.<br>Fibrous cartilage of Human sec.<br>Elastic cartilage of Human sec.<br>Finger of Human L.S.<br>Human bone grinding W.M.<br>Hard bone of Human T.S. (thionin-picric acid staining)<br>Hard bone of Human L.S. (thionin-picric acid staining)<br>Human toe bone l.s.<br>Human red bone marrow smear. Muscular tissue<br>Smooth muscle isolated of Human W.M.<br>Skeletal muscle of Human T.S.and L.S. (hematoxylin staining)<br>Skeletal muscle of Human T.S.and L.S. (H.E. Staining)<br>Skeletal muscle isolated of Human W.M.<br>Cardiac muscle of Human sec. (hematoxylin staining)<br>Nervous System<br>Spinal cord of Human T.S.<br>Spinal ganglion of Human sec.<br>Tactile corpuscle of Human sec.<br>Lamellar corpuscle of Human sec.<br>Cerebrum of Human sec. (silver staining)<br>Cerebrum of Human sec. (HE)<br>Cerebellum of Human sec. (silver staining)<br>Cerebellum of Human sec. (HE) Circulation system<br>Heart of Human sec.<br>Cardiac muscle of Human sec. | 1 | set | | |

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| | Cardiac valve of Human sec.<br>Human Medium-sized artery and vein sec.<br>Large artery of Human sec.<br>Large vein of Human sec.<br>Human Heart sec. (showing Purkinje cell) Immune System<br>Lymphoid node of Human sec.<br>Spleen of Human sec.<br>Thymus of Human sec.<br>Palatine tonsil of Human sec. Endocrine System<br>Thyroid gland of Human sec.<br>Parathyroid gland of Human sec.<br>Adrenal gland of Human sec.<br>Human Pituitary sec. Digestive System<br>Liver of Human sec. (show bile canaliculus of liver)<br>Human tooth l.s.<br>Tongue of Human L.S. (show internal structure)<br>Oesophagus of Human T.S.<br>Stomach of Human T.S.<br>Gastric section of stomach of Human sec.<br>Small intestine of Human T.S.<br>Small intestine of Human L.S.<br>Jejunum of Human sec.<br>Duodenum of Human sec.<br>Ileum of Human sec.<br>Colon of Human sec.<br>Vermiform appendix of Human sec.<br>Large intestinal of Human L.S.<br>Large intestinal of Human T.S.<br>Parotid gland of Human sec.<br>Submandibular gland of Human sec.<br>Salivary gland of Human sec.<br>Sublingual gland of Human sec.<br>Liver of Human sec.<br>Gall Bladder of Human sec. Respiratory System<br>Trachea of Human T.S.<br>Trachea of Human L.S.<br>Human Lung sec.<br>Epiglottic cartilage of Human sagittal section Urinary System<br>Urinary bladder of Human<br>Kidney of Human sec.<br>Ureter of Human T.S.<br>Kidney of Human through renal cortex T.S.<br>Genital System<br>Testis of Human sec.<br>Spermatozoon of Human smear.<br>Epididymis of Human sec.<br>Prostate of Human sec.<br>Ductus deferens of Human T.S.<br>Glandula vesiculosa of Human sec.<br>Penis of Human sec. (infant)<br>Human Uterus (proliferative phase) sec.<br>Human Uterus (secretory phase) sec.<br>Uterine cervix of Human sec.<br>Oviduct of Human T.S.<br>Ampulla of uterine tube of Human T.S.<br>Vagina of Human sec.<br>Human mammary gland (active phase) sec.<br>Placenta of Human sec.<br>Umbilical cord of Fetus T.S.<br>Human Corpus luteum sec. Sensory Organs<br>Skin of Human (show hair follicle) sec.<br>Human Eyelid sec. | | | | |

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| | Human Eyeball sec.<br>Skin of Human (show stratum corneum) sec.<br>Hair of Human W.M. | | | | |
| 14. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Physiology) PHYSIOLOGY PHARMACOLOGY TEACHING SYSTEM<br><br>Includes<br><br>1 Set Data Acquisition Unit<br>The data acquisition unit (DAQ) features 4 general purpose inputs (DIN), a dual Bio Amp, isolated stimulator, trigger input and an analog output (non-isolated). It also includes an I2C port for connection to data acquisition unit range of Front Ends. This features a durable aluminum enclosure and ships with a Stimulating Bar Electrode, Pulse Transducer, Shielded Bio Amp Cable, Shielded Lead Wires (5), BNC-DIN Smart Adapter (2), and BNC to DIN Cable (2m). It uses a USB interface for connection to Windows and has an aggregate sampling rate of 400k samples/s (100k samples/s per channel). The Bio Amp and Isolated Stimulator are certified safe for human connection, BF rated. General purpose inputs 3 & 4 are shared with the built-in dual Bio Amp.<br><br>1 set Physiology Accessory Kit<br>The Physiology Accessory Kit contains all the components required to perform standard physiology experiments using a teaching Data Acquisition Unit.<br>Includes:<br>- Grip Force Transducer<br>- Finger Pulse Transducer<br>- Push Button Switch<br>- Respiratory Belt<br>- Reusable ECG Electrodes (3)<br>- Dry Earth Strap<br>- EEG Flat Electrodes (5)<br>- Electrode Cream<br>- Electrode Paste (3)<br>- Abrasive Gel<br>- Disposable ECG Electrodes (100)<br>- Cardio Microphone<br>- Sphygmomanometer<br>- 12-Lead ECG Switch Box<br>- Tendon Hammer<br>- Skin Temperature Probe<br>- Thermistor Pod<br>1 set Human Respiratory Kit<br>The Human Respiratory Kit allows recording and analysis of respiratory parameters such as minute ventilation and tidal volume along with the calculation of PIF, PEF, FVC and FEV1 using the Spirometry Extension software(Win & Mac).<br>The kit includes:<br>- Spirometer Pod<br>- Respiratory Flow Head<br>- Student Disposable Respiratory Kit (5)<br>- Clean Bore<br>- Disposable Filters (50pcs) 1 Set Nerve & Muscle Kit II | 1 | set | | |

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| | The Nerve and Muscle Kit II is ideal for conducting teaching experiments using isolated animal nerve, skeletal, smooth and cardiac muscle preparations.<br>The Nerve and Muscle Kit II should include:<br>- Teaching Force Transducer (0-500g)<br>- Animal Nerve Stimulating Electrode<br>- B Nerve Chamber (includes a Stimulator Cable, two Differential Pod Input Cables)<br>- Shielded Lead Wires (5 Micro-Hooks, 25cm)<br>Muscle Holder<br>- Manipulator with Stand<br><br>1 set Advanced Pharmacology Kit<br>The Advanced Pharmacology Kit is ideal for student laboratories conducting isolated tissue and pharmacological experiments while maintaining high-quality glassware. The dual heating system delivers improved temperature maintenance. The Hot Plate Universal and Circulation Pump can both run on 115V or 220V. This kit also includes a Teaching Force Transducer (0-50g).<br><br>The Kit contains:<br>- Student Tissue Bath (Dual Heating)<br>- 25 mL Radnoti Single Tissue Organ Bath Chamber<br>- Glass Tissue Hook for tissue strip samples<br>- Glass "L" and Triangle Supports for tissue ring samples (<20 mm length)<br>Transducer Positioner<br>Dual heating temperature maintenance system<br>- Teaching Force Transducer (0-50 g)<br><br>1 Unit Branded Laptop with installation of licensed software<br><br>Developed using the same technology as the online learning solution, the software gives educators and their students a modern lab experience.<br><br>TECHNICAL DATA OF BRANDED LAPTOP<br>Processor: i5 Storage: 512 SSD Memory: 8GB<br>Display: 15.6”Full HD OS: Windows 11<br>Experiments That Can Be Performed Are:<br>- Human Physiology<br>Airflow<br>Autonomic Nervous System<br>Blood Counting<br>Blood Clotting<br>Blood Pressure<br>Breathing<br>Cardiovascular Effect of Exercise<br>Cardiorespiratory Effects of Exercise<br>Introduction to Fitness Testing<br>Diving Response<br>Electroencephalography<br>Endocrine Physiology<br>Glucose Absorption<br>Heart & ECG Lab<br>Heart & Peripheral Circulation<br>Heart Sounds<br>Kidney & Urine<br>Mechanics of Ventilation<br>Muscle & EMG | | | | |

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| | Peripheral Nerve Function<br>Reflexes & Reaction Times<br>Sensory Illusion<br>Sensory Physiology<br>Skeletal Muscle Function<br>Brain Structures & Reflexes<br>Water Balance<br>- Animal Physiology<br>Earthworm Smooth Muscle<br>Earthworm Action Potential<br>Frog Heart<br>Frog Nerve<br>Frog Neuromuscular Junction<br>Frog Skeletal Muscle<br>Gin Trap Closure Reflex<br>- Pharmacology<br>Airway Resistance<br>Chick Biventer Cervicis<br>Mammalian Atria<br>Mammalian Diaphragm<br>Mammalian Heart<br>Mammalian Jejunum<br>Mammalian Uterus<br>Stimulated Ileum<br>Stimulated Rat Vas Deferens<br>Toad Rectus Abdominis<br>Unstimulated Ileum<br>Vascular Resistance<br>Vascular Smooth Muscle<br>50 licenses for 50 students for Five (5) years Access to Physiology/Pharmacology Content Pack (web-based) allows access to all software features, including standard lesson templates, authoring tools for content creation and analytics and assessment tools for evaluating and documenting student progress.<br>This will include content pack that gives you access to Physiology and Pharmacology content including Human, Animal and Exercise Physiology. | | | | |
| 15. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Microbiology) PARASITOLOGY SLIDES (SET OF 50)<br>Includes<br><br>1 Fasciola hepatica, wm<br>2 Fasciola hepatica, ova<br>3 Entamoeba coli, troph, wm<br>4 Endolimax nana, cysts, smear<br>5 Giardia lamblia, cysts, wm<br>6 Trichomonas vaginalis, sm<br>7 Trypanosoma cruzi, blood, wm<br>8 Leishmania tropica major, sm<br>9 Balantidium coli, cysts, wm<br>10 Balantidium coli, trophs, wm<br>11 Plasmodium falciparum, smear<br>12 Ascaris lumbricoides ova, wm<br>13 Enterobius vermicularis, wm<br>14 Ancylostoma caninum female wm<br>15 Necator americanus ova, wm<br>16 Trichinella spiralis, female, wm | 1 | set | | |

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| | 17 Diphyllobothrium ova, wm<br>18 Taenia saginata, mature, cs<br>19 Dipylidium caninum, comp, wm<br>20 Trichuris trichiura – adult worm (female)<br>21 Trichuris trichiura – ovum<br>22 Trichinella spiralis – ova<br>23 Enterobius vermicularis – ova<br>24 Fasciolopsis buski ova<br>25 Clonorchis sinensis ova<br>26 Schistosoma mansoni, male<br>27 Schistosoma mansoni female<br>28 Diphyllobothrium latum ova<br>29 Taenia saginata ova<br>30 Dipylidium caninum, scolex, w.m<br>31 Dipylidium caninum, comp, w.m<br>32 Trichomonas Vaginalis<br>33 Giardia lamblia, Trophozoite<br>34 Trypanosoma gambiense<br>35 Leishmania (donovani)<br>36 Trypomastigote Ceratium<br>37. Taenia solium, ova in faeces w.m.<br>38. Leishmania donovani, amastigote, smear causes kala-azar,<br>39. Trichomonas vaginalis, smear<br>40. Entamoeba histolytica cyst, smear<br>41. Entamoeba histolytica trophozoites, smear<br>42. Plasmodium vivax blood smear<br>43. Toxoplasma gondii smear with parasites<br>44. Angiostrongyloides Cantonensis, Adult Female w.m<br>45. Eggs of schistosoma japonicum w.m.<br>46. Cercaria of schistosoma japonicum w.m.<br>47. Miracidium of schistosoma japonicum w.m.<br>48. Schistosoma japonicum, adult male w.m.<br>49. Schistosoma japonicum, adult female w.m.<br>Schistosoma japonicum, adult female in copula w.m | | | | |
| 16. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Microbiology) MICROBIOLOGY SLIDES (SET OF 50)<br>Includes<br><br>Fungi<br>Penicillium w.m.<br>Aspergillus w.m.<br>Actinomycets w.m.<br>Rhizopus nigrocans w.m. 05 Saccharomyces w.m.<br>Macroconidia w.m.<br>Microconidia w.m. 08 Septa hypha w.m.<br>09 Nonseptate hypha w.m. Bacteria<br>Bacteria three types smear (Staphylococcus, Pseudonmonas and Spirillum smear)<br><br>Coccus<br>Candida albicans Smear<br>Terads smear<br>Sarcina smear<br>Staphylococcus aureus smear | 1 | set | | |

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| | Pneumococcus smear<br>Group A Streptococcus smear<br>Group B Streptococcus smear<br>Branhamella catarrhalis smear<br>Neisseria gonorrhoeae smear<br>Cryptococcus neoformans smear<br>Bacillus<br>Escherichia coli smear<br>Pseudomonas aeruginosa smear<br>Typhoid Bacilli smear<br>Dysentery bacillus smear<br>Neisseria meningitidis smear<br>Brucella abortus smear<br>Salmonella smear<br>Proteus smear<br>Bacillus anthracis smear<br>Perlschnurtest smear<br>Corynebacterium diphtheriae smear<br>Clostridium tetani smear<br>Clostridium botulinum smear<br>Bacillis cereus smear<br>Bacillus subtilis smear<br>Lactobacillus smear<br>Bacterium rhusiopathiae suis smear<br>Bordetetella pertrussis smear<br>Bifidobacterium smear<br>Mycobacterium tuberculosis smear<br>Clostridium perfringens smear<br>Bacterium pestis smear<br><br>Special Structure<br>Endospore smear<br>Capsule smear<br>Single Polar flagella smear<br>Peritrichous flagella smear<br>Lophotrichous smear<br><br>Spirillar Bacterium<br>Vibrio cholerae smear<br>Helicobacter pylori smear<br>Leptospira w.m. | | | | |
| 17. | LABORATORY EQUIPMENT-SCHOOL OF MEDICINE, (Pathology) PREPARED SLIDES – PATHOLOGY (SET OF 100)<br>Includes<br>Injury and Repair of Cell and Tissue<br>1 Human myocardial hypertrophy sec.<br>2 Squamous metaplasia of bronchus sec.<br>3 Human liver cell fatty degeneration sec.<br>4 Human fibrinoid degeneration sec.<br>5 Liquefactive Necrosis of Brain sec.<br>6 Human granulation tissue sec.<br>7 Human bronchiectasis sec.<br>Disturbances of Blood Circulation<br>8 Chronic pulmonary congestion of the lung sec.<br>9 Hemorrhagic infarct of lung sec.<br>10 Pulmonary edema sec.<br>11 Human thrombus sec.<br><br>Diseases of Immunity<br>12 Human Necrotizing lymphadenitis sec.<br>13 Malignant lymphoma sec.<br>14 Lymph node tuberculosis sec. | 1 | set | | |

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| | 15 Metastatic carcinoma of lymph node sec.<br>Inflammation<br>16 Fibrinous pleurisy sec.<br>17 Phlegmon of appendix sec.<br>18 Liver abscess sec.<br>19 Granuloma sec.<br>20 Lung abscess sec.<br>21 Chronic glomerulonephritis sec.<br>22 Chronic pyelonephritis sec.<br>23 Human aortitis sec.<br>24 Rheumatic endocarditis sec.<br>25 Bacterial myocarditis sec.<br>Tumor<br>26 Polypous adenoma of intestine sec.<br>Diseases of Cardiovascular System<br>27 Atherosclerosis sec.<br>28 Angioma sec.<br><br>Diseases of Respiratory System<br>29 Squamous cell carcinoma of nasopharynx sec.<br>30 Chronic bronchitis sec.<br>31 Diffuse pulmonary emphysema sec.<br>32 Lobar pneumonia (red liver period) sec.<br>33 Lobar pneumonia (grey liver period) sec.<br>34 Bronchial pneumonia (lobular pnermonia) sec.<br>35 Silicosis sec.<br>Disease of Digestive System<br>36 Esophagus cancer sec.<br>37 Chronic atrophic gastritis sec.<br>38 Chronic gastric ulcer sec.<br>39 Adenocarcinoma of stomach sec.<br>40 Acute simple appendicitis sec.<br>41 Carcinoid of colon sec.<br>42 Intestinal cancer sec.<br>43 Chronic active hepatitis sec.<br>44 Alcoholic hepatitis sec.<br>45 Laennec's cirrhosis sec.<br>46 Liver cancer sec.<br>47 Hepatic congestion sec.<br>Diseases of Haemopoietic System<br>48 Non-Hodgkin lymphoma sec.<br>49 Hodgkin lymphoma sec.<br>Diseases of Urinary System<br>50 Diffuse sclerosing glomerular nephritis sec.<br>51 Renal clear cell carcinoma sec.<br>52 Wilms' tumor sec.<br>53 Transitional cell carcinoma of bladder (1st-degree) sec.<br>54 Kidney stone w.m.<br>Disease of Genital System<br>55 Carcinoma in-situ of cervix sec.<br>56 Ovarian Yolk Sac Tumor sec.<br>57 Endometrial Leiomyoma sec.<br>58 Cervical squamous cancer sec.<br>59 Adenocarcinoma of cervix sec.<br>60 Endometrial hyperplasia sec.<br>61 Adenocarcinoma of endometrium sec.<br>62 Choriocarcinoma sec.<br>63 Papillary adenofibroma of ovary sec.<br>64 Mucous cystadenofibroma of ovary sec.<br>65 Endodermal sinus tumor sec.<br>66 Invasive ductal carcinoma sec.<br>67 Medullary carcinoma of breast sec.<br>68 Seminoma sec. | | | | |

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| | 69 Congenital agenesis of testis (47-XXYtype)<br>70 Prostatic cancer (well-differentiated)<br>71 Teratoma sec.<br>72 Prostatic cancer (poorly differentiated)<br>73 Breast cancer sec.<br>74 Hydatidiform mole sec.<br>75 Polyp of cervix sec.<br>76 Ovarian cyst sec.<br>77 Chronic endometritis sec.<br>78 Pointed condyloma sec.<br>Diseases of Endocrine System<br>79 Endemic goiter sec.<br>80 Papillary adenocarcinoma of thyroid gland sec.<br>81 Follicular adenocarcinoma sec.<br>82 Adrenal cortical adenomas sec.<br>83 Thyroid adenocarcinoma sec.<br>84 Chondrosarcoma sec.<br>85 Adenomyosis sec.<br>86 Adrenal Pheochromocytoma sec.<br>87 Adrenal cortical carcinoma sec.<br>88 Hypophyseal adenoma sec.<br>89 Simple goiter sec.<br>90 Fibrous thyroiditis sec.<br>Thyroid adenocarcinoma sec.<br>Diseases of Nervous System<br>92 Purulent meningitis sec.<br>93 Epidemic encephalitis B sec.<br>94 Meningeoma sec.<br>95 Neurinoma sec.<br>96 Neurofibroma sec.<br>97 Neuroastrocytoma sec.<br>Diseases of Muscular and Skeletal System<br>98 Osteochondroma sec.<br>99 Osteogenic sarcoma sec.<br>100 Giant cell tumor of bone sec | | | | |
| **Aggregate Bid Amount** | | | | | |

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