

COMSATS University Islamabad, Lahore Campus

Defence Road, Off Raiwind Road, Lahore

Tender No. CUI, LC-TN-13-18-1072 Case **#** 2376

Single Stage Two Envelop Procedure

<u>Title of Tender:</u> Lab Equipment for Pharmacy Department

TERMS AND CONDITIONS

- 1. All pages of bidding documents are mandatory to be signed / stamped, meaning thereby bidder agrees to our terms & conditions mentioned herein, failing which the bid may be rejected.
- 2. Any addition, deletion or modification of any clause of the procurement terms & conditions/BoQs of CUI, Lahore Campus by any vendor will not be acceptable and may lead to rejection of the bid.
- 3. Only registered Suppliers, who are on Active Taxpayers List (ATL) of FBR, are eligible to participate in tender.
- 4. The contract will be executed and handed over in satisfactory conditions up to the entire satisfaction of COMSATS University Islamabad, Lahore Campus.
- Documents along with Pay Order / Demand Draft amounting to <u>Rs. 500/-</u> as a tender documents fee (Non-Refundable) shall be submitted in favor of COMSATS Institute of Information Technology, Lahore to the address given below. No bid will be accepted without tender documents' fee.
- 6. Part / Advance payments is not allowed.

7. <u>The exact completion/delivery time from the date of the purchase / work order will be 60 days. The handing over / completion time for this contract is of critical importance.</u>

- 8. Your bid proposal should be inclusive of freight and all other taxes and to be delivered at COMSATS University Islamabad, Lahore Campus's premises.
- 9. After opening of bids, COMSATS University Islamabad, Lahore Campus will examine the bids for completeness as per tender document.
- 10. Purchase order (s) will be awarded to the lowest or technically recommended bidder (s) on the basis of item wise / subtotal wise / grand total wise according to the nature of BoQs.
- 11. The bid should be submitted in a sealed envelope up to <u>June 13, 2018</u> on or before <u>1100hrs</u> and will be opened on the same date <u>at 1130hrs</u> in the presence of available bidders.
- 12. COMSATS University Islamabad, Lahore Campus, will follow the PPRA rule of <u>single stage two envelope</u> <u>procedure;</u>
 - i. The bid shall comprise a single package containing <u>two separate envelopes</u>. Each envelope shall contain separately the <u>financial proposal</u> and the <u>technical proposal</u>;

- iii. Initially, only the envelope marked <u>"TECHNICAL PROPOSAL"</u> shall be opened;
- iv. The envelope marked as <u>"FINANCIAL PROPOSAL"</u> shall be retained in the custody of the procuring agency without being opened;
- v. The procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;
- vi. During the technical evaluation no **amendments** in the technical proposal shall be permitted;
- vii. The financial proposals of bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;
- viii. After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically nonresponsive shall be returned un-opened to the respective bidders;
- ix. and

ii.

- x. The bid found to be the lowest evaluated bid shall be accepted.
- 13. The envelope should be marked as under;

Secretary, Purchase Committee COMSATS University Islamabad, Lahore Campus Defence Road, Off Raiwind Road, Lahore. Tel: 042-111-001-007, Ext: 875

- 14. The envelope shall also bear the word "CONFIDENTIAL" and following identification quotation of <u>"Lab</u> Equipment for Pharmacy Department".
- 15. The bid form (BoQs) must be duly filled in, stamped and signed by the authorized representative of the bidder.
- **16.** If the vendor fails to deliver the goods / services to CUI-Lahore Campus in time then the penalty will be charged as under:
 - a. 1% per day of the invoice price for 5 working days.
 - b. 2% per day of the invoice price for further 5 working days.
 - c. If the vendor fails to deliver the goods / services during the extended period then the purchase / work order may be cancelled, earnest money and payment may be forfeited.
- 17. If the delivered goods / services are not according to the required quality standards / specifications, the same shall be liable to be rejected after inspection. The vendor would be required to supply as per requirements mentioned in our BoQs, otherwise the purchase / work order will be cancelled after due date with confiscation of earnest money.
- 18. Deduction of Income Tax and any other tax will be deducted at source according to Government prevailing rules.

- 19. Payment will be made on submission of Invoice in the name of "COMSATS University Islamabad, Lahore Campus" with a copy of delivery challan (s) after the complete order has been supplied, inspected and accepted which includes delivery / installation, and COMSATS acceptance / inspection thereof.
- 20. All prices should be quoted on **F.O.R (Pak Rupees) inclusive of all taxes.**
- 21. All prices should be valid for at least <u>90 days.</u> Withdrawal or any modification of the original offer within the validity period shall entitle CUI-Lahore Campus to forfeit the earnest money in favor of the CUI-Lahore Campus and / or put a ban on such vendor participation in CUI tenders / works.
- 22. It is the sole responsibility of the agent / supplier / manufacturer to comply with the applicable laws, be national or international.
- 23. In case of any dispute or grievance, the matter shall be addressed as per PPRA rules.
- 24. The CUI-Lahore Campus reserves the right to modify the quantities of goods / services at any time before the award of purchase / work order.
- 25. <u>05%</u> of the total value of the <u>Invoice</u> will be retained as security by COMSATS University Isalamabad, Lahore <u>Campus Only for Warranty Items as mentioned in BoQs</u>, and will be released after warranty period <u>(One Year)</u> which will be counted from the date of delivery / completion of work / supply.
- 26. The bidder is required to furnish in form of <u>Bank deposit/ CDR / Pay order equivalent to 2% of the total Bid price as Earnest Money crossed in favor of "COMSATS Institute of Information Technology, Lahore Campus"</u>. Any bid not accompanied by Earnest Money shall be rejected without any right of appeal.
- 27. COMSATS University Islamabad, Lahore Campus reserves the rights to accept or reject the bid if;
 - i. Received without earnest money
 - ii. Received later than the date and time fixed for tender submission
 - iii. The tender is unsigned/ unstamped
 - iv. The offer is ambiguous
 - v. The offer is conditional
 - vi. The offer is from a firm, which is black listed by any Govt. Office.
 - vii. The offer is received by telephone/telex/fax/telegram.
 - viii. Any unsigned / ambiguous erasing, cutting / overwriting etc. is made.
- 28. The bidder should furnish a certificate as worded below in token of acceptance of all the terms and conditions of the tender otherwise the tender will not be considered under any circumstances.
- 29. The undersigned affirm that the terms and conditions as contained in this document have been read and accepted and that in the event of selection of my/our rate the agreement in the prescribed form will be entered into:
 - <u>Company / Vendor Name:</u>.....
 - <u>Postal Address:</u>.....
 - <u>Tel. / Mobile:</u>.....
 - <u>NTN# :</u>.....<u>GST#:</u>.....
 - <u>Signature:</u>

BoQs of Lab Equipment for Pharmacy Department

<u>Technical Portion (Please mention the quoted model/ brand in technical portion with no mention of price otherwise the bid will be rejected)</u>

No change in the BoQs (Specs & Qty.) of CUI-Lahore Campus, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CUI-Lahore Campus BoQ may lead to rejection of bid (fully or partially). Rates to be quoted inclusive of all (applicable) taxes

| Sr. # | Item Name & Specifications | Qty | Quoted Model Brand with meeting the all specifications Yes / No |
|-------|---|---------|---|
| | Lab Equipment for Pharmacognosy Lab | | |
| 1 | Centrifuge Machine:LMC-3000 or equivalentMax RCF (bottom of tube)g-force 1700 x gSpeed (centrifuge tubes)rpmMax RCF microplate rotorg-forceSpeed (microtiter plates)rpm100 to 2000Centrifugation timeup to 90 minutes (1 minincrement)Temperature setting range°C-Temperature control range°C-or C10 to 25Temperature control range°C-or C10 to 10 belowambientSpeed increment rpm100Chamber diametermm335Display2 line x 16 character LCDNominal operating voltage V ac 120 or 230 (50-60Hz)Power consumptionW110 (0.5A) / 120(1A)Ambient temperature range°C+4 to 40Maximum noisedBA59.4Warranty One Year | 02 Nos. | |
| 2 | Integrated Digital MicroscopeSpecification:Model B300e320/B300e500 or equivalentDigital Chip3.2MP, 1/2 ", color CMOS5MP,1/2.5 ", color CMOSResolution2048×1536 Pixels(Maximum)2952×1944 Pixels(Maximum)Frame Rate15~30 fps 15~30 fps | 07 Nos. | |

| | | | CITT-LIIK-I UK-Telluet-001 |
|---|---|----------|----------------------------|
| | C-mount 0.5× | | |
| | Data Transmission USB2.0, Transmission rate: | | |
| | 480mps, | | |
| | external power supply is not necessary | | |
| | Operating System Available for Windows 2000 / XP / 7 | | |
| | Image Analysis Software Digital Image Analysis software for microscope | | |
| | Integrated body with digital head, dust-proof, moisture | | |
| | proof and anti-demolition | | |
| | Warranty One Year | | |
| | Oven: | | |
| | Dimensions (w x d x h cm):89.6 x 56.6 x 47.8 | | |
| | Rated voltage/Frequency (V~Hz):220-240 | | |
| 1 | Input power (W):3050 | | |
| | Bottom Element Power (W):1750 | | |
| 1 | Fan Element Power (W):2500 | | |
| 3 | Grilling Power (W):2400 | 02 Nos. | |
| | Lighting:1 x 25W Halogen | | |
| | Main Oven Gross Capacity (L):84 | | |
| | Top Element Power (W):1200 | | |
| | Current (A):13.2 | | |
| | Or equivalent | | |
| | Warranty One Year | | |
| | Water Bath 4 Holes | | |
| | Capacity: 12L (chamber of one single piece) | | |
| | Digital selection of temperature/time | | |
| | Hermetically sealed membrane keyboard T range: RT+5°C - 100°C (+/-1°C) | | |
| | Timer: $1' - 9999'$ | | |
| 4 | Acoustic signal indicates overheating: > 10°C | 06 Nos. | |
| - | Useful dimensions aprox.: 32x30x10cm | VU 11US. | |
| | Lid and reduction rings included (removables) | | |
| | Holes N°: 4 | | |
| | Electric draining pump | | |
| | Or equivalent | | |
| | Warranty One Year | | |
| L | | | |

| | 1 | | | CIIT-LHR-PUR-Tender-001 |
|---|---|-------------------------|---------|-------------------------|
| | <u>Rota Evaporator + Chiller</u> | | | |
| | 1 | RE2 | | |
| | 51 | Manual | | |
| | 21 | Vertical/Horizontal | | |
| | Rotation Speed (RPM) 2 | 0-320 | | |
| | Vapour Tube S | ingle piece with Sleeve | | |
| | for Easy Removal | | | |
| | Integrated Combi-Clip Y | /es | | |
| | e 1 | 0-5000 ml | | |
| | Rotation speed setting LED Dis | plav | | |
| | Motor Power (W) 6 | | 03 Nos. | |
| | | 300 | (Evapor | |
| | | 360 | ator) | |
| 5 | | 20 - 210 | + | |
| | Temperature Accuracy (oC) 1 | | 01 | |
| | Overheat Protection Safety cu | | Chiller | |
| | 5 | 1011 over +3 (0C) | Chiner | |
| | Temperature Setting | | | |
| | Digital LED, Temperature Con | | | |
| | PID Control, Secondary Protect | | | |
| | Material Heating BathCeramic | | | |
| | Volume Heating bath (L) 4.5L - Dia 255mm Suitable | | | |
| | 50- 5000ml | | | |
| | Bath Position, Flexible to exten | | | |
| | Sealing ring, Graphite filled PTFE | | | |
| | Power Supply 230 VAC, 50Hz | | | |
| | Or equivalent, Warranty One Y | ear | | |
| | <u>Aspirator</u> | | | |
| | aspirator - models and specification | ations | | |
| | FTA-1 or equivalent | | | |
| | Aspirator with trap flask, | | | |
| | Vacuum mbar -500 | | | |
| (| Trap Flask volume1 | | 01 | |
| 6 | Input voltage V dc 12 | | No. | |
| | External power supply | | | |
| | Input AC 120-230V, 50/60Hz (| Output DC 12V | | |
| | Flow rate (aqueous solution) m | | | |
| | aspiration tip 666 without aspir | | | |
| | Or equivalent Warranty One Ye | - | | |
| | Microtome | | | |
| | Supplied complete with one kni | ife 120 mm long with | | |
| | back and handle in wooden box | | | |
| | bottle of lubrication oil, dust co | | | |
| | Spare Accessories | | | |
| 7 | 1 | | 04 | |
| 7 | Special Alloy Steel Knife | nm 200 mm | Nos. | |
| | Size :- 120 mm, 150 mm, 180 m | 1111, 200 IIIII | | |
| | Stainless Steel Back for Knife | | | |
| | Block Holder/Specimen Holder | [| | |
| | Size :- 37 mm, 25 mm, 20 mm | ~ | | |
| | Embedding Moulds made of S. | S. | | |

| | | | | | CIIT-LHR-PUR-Tender-001 |
|----|---|--|---|---------|-------------------------|
| | L × W × D Size :- a. $16 \times 16 \times 12 \text{ mm b. } 22 \times 22 \times 12 \text{ mm c. } 32 \times 25 \times 12 \text{ mm}$ L-Moulds made of brass Size :- a. $37 \times 25 \times 15 \text{ mm pair b. } 50 \times 25 \times 15 \text{ mm}$ pair c. $75 \times 30 \times 19 \text{ mm pair}$ Disposable Embedding Ring. Or equivalent Warranty One Year | | | | |
| | Lab Equipn | nent for Pharn | nacognosy Lab | | |
| | Autoclave: | | | | |
| | Chamber Dimensions Ø x L (mm) | 384 x 758 | 384 x 758 | | |
| | Chamber Volume (Liters) | 85L | 85L | | |
| | No. of Trays | 2 | 2 | | |
| 8 | Tray Dimensions W x H x D (mm) | Small: 286 x 25 x 675 Large: 350 x | Small: 286 x 25 x 675 Large: 350 x 25 | 02 Nos. | |
| | | 25 x 675 | x 675 | | |
| | Overall Dimensions W x H x D (mm) | s 720 x 1365 x 1180 | 720 x 1365 x 1180 | | |
| | Autoclave Weight (kg) | 180 kg | 180 kg | | |
| | Or equivalent | | | | |
| 9 | Cool IncubatorTemperature Display Resolution: 0.1°CTemperature Stability: HIGH 0.3°C, LOW 0.5°CHeating type: Stainless steel electric heaterCooling type: Enclosed fluorine-free compressor,R134a refrigerantInterior Dimension: 480*390*780 mmShelves: 2 PCSVolume (L): 150 LiterTiming Range: 1~9999minOr equivalent Warranty One Year | | | 01 No. | |
| 10 | Laminar Air Flow Horizontal Air velocity: 0.25-0.45m/s(Adjustable) Noise: ≤62dB(A) Illuminance: ≥300Lx Power Supply: AC220V,50Hz(Customized) Rated power: 250~800W Dimension: Customized Size/Standard Size Material: Powder coated steel plate and SUS304 work table Or equivalent Warranty One Year | | 01 No. | | |

| | | | CIII-LHK-PUK-Iender-001 |
|----|---|---------|-------------------------|
| 11 | OvenDimensions (w x d x h cm):89.6 x 56.6 x 47.8Rated voltage/Frequency (V~Hz):220-240•Input power (W):3050•Bottom Element Power (W):1750•Fan Element Power (W):2500•Grilling Power (W):2400•Lighting:1 x 25W Halogen•Main Oven Gross Capacity (L):84•Top Element Power (W):1200•Current (A):13.2Or equivalentWarranty One Year | 02 Nos. | |
| 12 | Integrated Digital Microscope Specification: Model B300e320 / B300e500 or equivalent Digital Chip 3.2MP, 1/2 ", color CMOS 5MP, 1/2.5 ", color CMOS Resolution 2048×1536 Pixels (Maximum) 2952×1944 Pixels (Maximum) Frame Rate 15~30 fps 15~30 fps C-mount 0.5× Data Transmission USB2.0, Transmission rate: 480mps, external power supply is not necessary Operating System Available for Windows 2000 / XP / 7 Image Analysis Software Digital Image Analysis software for microscope Integrated body with digital head, dust-proof, moisture proof and anti-demolition Or equivalent Warranty One Year | 10 Nos. | |
| 13 | Reciprocating Shaker Capacity:8pcs * 2L/pcLoaded Vessels: Separatory funnels / measuring cylinderShake type: Vertical shaker Dimension: 535*475*690MM Weight: 45kgFunction: oil and water separator Power supply: AC 220V / 50 HZ Operation: Automatic Or equivalent Warranty One Year | 01 No. | |

| | | 1 | CIII-LHK-PUK-Iender-001 |
|----|---|---------|-------------------------|
| 14 | Freezer Cabinet temperature: 0-10/-5 -18 Power: 390w/490w Voltage: 220v/50hz Refrigerant: R134a/R404 Oem: yes Or equivalent Warranty One Year | 01 No. | |
| | Lab Equipment Pharmacology/ Physiology Laborat | ory | |
| 15 | Tissue organ bath Manual, tank 5 Liters, Chambers 5 mL, Stainless steel or equivalent. | 09 Nos. | |
| 16 | Kymograph Aluminium, 230 V, 50 Hz, speed selection 1.00, 1.25 mm/sec | 09 Nos. | |
| 17 | Digital balance Capacity: 220 gm. Readability: 0.1 mg Minimum Load: 10 mg, Minimum Sample WT as per USP: 200 mg, Operating temperature: 18℃ to 30℃. | | |
| 18 | Oven (170 L, natural convection, Temperature range 5 °C above ambient up to $+300$ °C. Temperature Percision: 0.1 Degree Temperature Fluctuation: ± 0.5 °C Timer Range: 1 ~ 9999 min Shelves: 2 Or equivalent Warranty One Year | 01 No. | |
| 19 | BurnerBunsen burner or equivalentNickel plated burner of brass 12 mmBrass tube 100 x 12 mmBase 70 mm diameterOverall Height 145 mm. | 15 Nos. | |
| 20 | E.S.R stand JP Selecta (Spain) or equivalent Stainless steel, coated, 6 pipettes. | 10 Nos. | |
| 21 | Spiro Meter Plastic Body | 02 Nos. | |
| 22 | Glass Test Tubes Borosilicate test tubes 15-17 mm | 75 Nos. | |
| 23 | Test Tub standsAluminium or stinless steel test tube racks40 holes for 15-17 mm tubes. | 13 Nos. | |
| 24 | Neubar Chamber 0.0025mm ² Thick glass slide 30 x 70 x 4mm Or equivalent | 05 Nos. | |

| 25 | Meter Rod | 10 Nos. | |
|-------|--|-----------------------|--|
| 26 | Sphygmomanometer Manual sphygmomanometer with Mercury. | 05 Nos. | |
| 27 | Stethoscope Measuring tip: approx. 16.5 cm Earpieces made of soft plastic Total length: approx. 1 m Tight ear clips Or equivalent | 05 Nos. | |
| 28 | <u>Wet Spiro meter</u> Portable, accuracy $\pm 3\%$, temperature 0 to 40 °C. | 05 Nos. | |
| 29 | ECG machine Digital 12 Channel ECG Input Way: Floating and defibrillation protection Lead: Standard 12 leads. Patient leak currentL <10 μ A Patient impedance: > 50 MQ Frequency response: 0.05 Hz ~ 150 Hz (~3dB) Time constant: Time constant > 3.2 sec CMRR: > 60dB, > 100 dB (Adding filter) EMG interference filter: 35 Hz (-3dB) Or equivalent Warranty One Year | 01 No. | |
| 30 | Wattmann Filter paper or equivalent Grade 1: 11 μm 460 mm x 570 mm sheets | 10 Packs | |
| 31 | Antiserum A B & D Monoclonal human IgM Or equivalent | 5 Complet e Set | |
| Lab E | Equipment Pharmacology/ Physiology Laboratory | | |

| 32 | Water Bath Single HoleDimension: $280 \times 160 \times 170 \text{ mm}$ Temperature is controlled accurately automaticallywith digital displayTemperature rang: RT-100 degreesHeating power: $300W$ Temperature precision: $\leq \pm 0.5$ degrees, anti-cauterizationOr equivalent Warranty One Year | 10 Nos. | |
|----|--|---------|--|
| 33 | <u>Triple Beam Balance</u> Stainless Steel Plate, 610g Capacity, 0.1g Readability | 05 Nos. | |
| 34 | Melting Point Appartus Up to 300°C, Resolution 1°C, Programmable, Sample Capacity 3 Samples Automatic and visual determination, PID-controlled temperature ramping | 05 Nos. | |
| 35 | Spectrophotometer Thermo Scientific GENESYS 10S UV-Vis or equivalent Spectrophotometer, Dual Beam, Single cell holder and automated 6-cell changer standard, Dual Silicon Photodiodes, Drift <0.0005A/hr, Graphical with LCD backlight Warranty One Year | 02 Nos. | |
| 36 | Digital Weight Balance Digital display, measuring chamber size: 180*175*200 mm, Repeatability error (standard error) ±0.002 g, Spirit bubble in front, Multi-combination wind shield-5 pieces of glassess, transparent wighing chamber, Micro loads weigh display, Auto reset Or equivalent Warranty One Year | 02 Nos. | |
| 37 | <u>Water Bath (Multiple Holes)</u> Stainless Steel Boiling bath 8.81 Litres (Approx), with simmer to boil control, Heat protection, Integral constant level device to regulate the level of water Or equivalent Warranty One Year | 06 Nos. | |

<u>Financial Portion (Price and Brand/Model to be mention only in Financial</u> <u>Proposal in a separate sealed envelope)</u>

| Camp inform model | hange in the BoQs (Specs & Qty.) of C bus, as detailed below, is allowed. Any nation may be mentioned in the blank col l / brand or Price). Any modification in C bus BoQ may lead to rejection of bid ully). | additional lumns (i.e. UI-Lahore | IRates to be quoted inclusive of (applicable) taxes | | |
|-------------------------|--|--|--|---------------------|----------------------|
| Sr. # | Item Name & Specifications | Qty | Quoted Model / Brand / Make | Unit Price (Rs.) | Total Price (Rs.) |
| | Lab Equipment for Pharmacognosy Lab |) | | | |
| 1 | Centrifuge Machine:LMC-3000 or equivalentMax RCF (bottom of tube)g-force 1700x gSpeed (centrifuge tubes)rpm3000Max RCF microplate rotorg-force560 x gSpeed (microtiter plates)rpm100 to 2000Centrifugation timeup to 90 minutes (1 minincrement)Temperature setting range°C-00Chamber diameterSpeed increment rpm100Chamber diameterMaxinup operating voltage V ac 120 or 230(50-60 Hz)Power consumption W110(0.5A) / 120 (1A)Ambient temperature range°C +4 to 40Maximum noisedBA59.4Warranty One YearIntegrated Digital Microscope | 02 Nos. | | | |
| 2 | Specification: Model B300e320/B300e500 or equivalent Digital Chip 3.2MP, 1/2 ", color CMOS 5MP, 1/2.5 ", color CMOS Resolution 2048×1536 Pixels (Maximum) 2952×1944 Pixels | 07 Nos. | | | |

| | | | | -PUK-Tender-001 |
|---|---|---------|--|-----------------|
| | (Maximum) | | | |
| | Frame Rate 15~30 fps | | | |
| | 15 ~ 30 fps | | | |
| | C-mount $0.5 \times$ | | | |
| | Data Transmission | | | |
| | USB2.0, Transmission rate: | | | |
| | 480mps, | | | |
| | external power supply is not necessary | | | |
| | Operating System Available for | | | |
| | Windows 2000 / XP / 7 | | | |
| | Image Analysis Software Digital Image | | | |
| | Analysis software for microscope | | | |
| | Integrated body with digital head, dust- | | | |
| | proof, moisture proof and anti-demolition | | | |
| | Warranty One Year | | | |
| | Oven: | | | |
| | Dimensions (w x d x h cm):89.6 x 56.6 x | | | |
| | 47.8 | | | |
| | Rated voltage/Frequency (V~Hz):220-240 | | | |
| | Input power (W):3050 | | | |
| | Bottom Element Power (W):1750 | | | |
| 3 | Fan Element Power (W):2500 | 02 Nos. | | |
| | Grilling Power (W):2400 | | | |
| | Lighting:1 x 25W Halogen | | | |
| | Main Oven Gross Capacity (L):84 | | | |
| | Top Element Power (W):1200 | | | |
| | Current (A):13.2 | | | |
| | Or equivalent Warranty One Year | | | |
| | Water Bath 4 Holes | | | |
| | Capacity: 12L (chamber of one single piece) | | | |
| | Digital selection of temperature/time | | | |
| | Hermetically sealed membrane keyboard | | | |
| | T range: RT+5°C - 100°C (+/-1°C) | | | |
| | Timer: 1'- 9999' | | | |
| 4 | Acoustic signal indicates overheating: > | 06 Nos. | | |
| _ | 10°C | | | |
| | Useful dimensions aprox.: 32x30x10cm | | | |
| | Lid and reduction rings included | | | |
| | (removables) | | | |
| | Holes N°: 4 | | | |
| | Electric draining pump | | | |
| | Or equivalent Warranty One Year | | | |

| | | | CIII-LHK | -PUR-Tender-001 |
|---|---|---|--------------|-----------------|
| 5 | Rota Evaporator + ChillerDescriptionRE2Lift TypeManualCondenser TypeVertical/HorizontalRotation Speed (RPM)20-320Vapour TubeSingle piecewith Sleeve for Easy RemovalIntegrated Combi-ClipIntegrated Combi-ClipYesSuitable flask size (ml)50-5000 mlRotation speed setting LED DisplayMotor Power (W)60Heating Capacity (W)1300Total Power (W)1360Temperature Range (oC)20 – 210Temperature Range (oC)1Overheat ProtectionSafety cutoff over+5 (oC)Temperature SettingDigital LEDTemperature Control ElectronicPID ControlSecondary Protection CutoffSecondary Protection Cutoff250oCMaterial Heating BathCeramic Coated /SS316LVolume Heating bath (L) 4.5L - Dia 255mmVolume Heating bath (L) 4.5L - Dia 255mmSuitable 50- 5000mlBath PositionFlexible to extend to suit flask sizeSealing ringGraphite filled PTFE, Power Supply230 VAC, 50Hz , Or equivalentWarranty One YearAspirator | 03 Nos. (Evapor ator) + 01 Chiller | | |
| 6 | aspirator - models and specifications FTA-1 or equivalent Aspirator with trap flask Vacuum mbar -500 Trap Flask volume1 Input voltage V dc 12 External power supply Input AC 120-230V, 50/60Hz Output DC 12V Flow rate (aqueous solution) ml/min 72 with aspiration tip 666 without aspiration tip Or equivalent Warranty One Year | 01 No. | | |

| | | | -r | CIII-EIIK | -PUK-Tender-001 |
|---|--|---|------------|-----------|-----------------|
| 7 | MicrotomeSupplied complete with one knife 120 mmlong with back and handle in wooden box, 2block holders, One bottle of lubrication oil,dust coverSpare AccessoriesSpecial Alloy Steel KnifeSize :- 120 mm, 150 mm, 180 mm, 200 mmStainless Steel Back for Knife7Block Holder/Specimen HolderSize :- 37 mm, 25 mm, 20 mmEmbedding Moulds made of S.S.L × W × D Size :- a. 16 × 16 × 12 mm b. 22× 22 × 12 mm c. 32 × 25 × 12 mmL-Moulds made of brassSize :- a. 37 × 25 × 15 mm pair b. 50 × 25 ×15 mm pair c. 75 × 30 × 19 mm pairDisposable Embedding Ring.Or equivalent Warranty One Year | | 04 Nos. | | |
| | Lab Equipment for P | harmacognosy La | ıb | | |
| | Autoclave: | | | | |
| | Chamber Dimensions Ø 384 x 758 x L (mm) | 384 x 758 | | | |
| | Chamber Volume 85L (Liters) | 85L | | | |
| 0 | No. of Trays 2 | 2 | | | |
| 8 | Dimensions W ²⁵ x 675 | 6 x Small: 286 x 25 x 675 50 x Large: 350 x 25 x 675 | 02 Nos. | | |
| | Overall Dimensions W x H x D (mm) | 5 x 720 x 1365 x 1180 | | | |
| | Autoclave Weight (kg) 180 kg | 180 kg | | | |
| | Or equivalent | | | | |

| r | | | | -PUK-Tender-001 |
|----|--|---------|--|-----------------|
| 9 | Cool Incubator Temperature Display Resolution: 0.1°C Temperature Stability: HIGH 0.3°C, LOW 0.5°C Heating type: Stainless steel electric heater Cooling type: Enclosed fluorine-free compressor, R134a refrigerant Interior Dimension: 480*390*780 mm Shelves: 2 PCS Volume (L): 150 Liter Timing Range: 1~9999min Or equivalent Warranty One Year | 01 No. | | |
| 10 | Laminar Air Flow Horizontal Air velocity: 0.25-0.45m/s(Adjustable) Noise: ≤62dB(A) Illuminance: ≥300Lx Power Supply: AC220V,50Hz(Customized) Rated power: 250~800W Dimension: Customized Size/Standard Size Material: Powder coated steel plate and SUS304 work table Or equivalent Warranty One Year | 01 No. | | |
| 11 | OvenDimensions (w x d x h cm):89.6 x 56.6 x47.8Rated voltage/Frequency (V~Hz):220-240•Input power (W):3050•Bottom Element Power (W):1750•Fan Element Power (W):2500•Grilling Power (W):2400•Lighting:1 x 25W Halogen•Main Oven Gross Capacity (L):84•Top Element Power (W):1200•Current (A):13.2Or equivalent Warranty One Year | 02 Nos. | | |
| 12 | Integrated Digital MicroscopeSpecification:Model B300e320 / B300e500 or equivalentDigital Chip3.2MP, 1/2 ", color CMOS5MP, 1/2.5 ", color CMOSResolution 2048×1536 Pixels(Maximum)2952×1944 Pixels(Maximum)Frame Rate15~30 fps15~30 fpsC-mount0.5× | 10 Nos. | | |

| - | | r | CIII-LIIN | -PUR-Tender-001 |
|-----|---|---------|-----------|-----------------|
| | Data Transmission USB2.0, Transmission rate: 480mps, external power supply is not necessary Operating System Available for Windows 2000 / XP / 7 | | | |
| | Image Analysis Software Digital Image Analysis software for microscope Integrated body with digital head, dust- proof, moisture proof and anti-demolition Or equivalent Warranty One Year | | | |
| 13 | Reciprocating Shaker Capacity:8pcs * 2L/pc Loaded Vessels: Separatory funnels / measuring cylinder Shake type: Vertical shaker Dimension: 535*475*690MM Weight: 45kg Function: oil and water separator Power supply: AC 220V / 50 HZ Operation: Automatic Or equivalent Warranty One Year | 01 No. | | |
| 14 | Freezer Cabinet temperature: 0-10/-5 -18 Power: 390w/490w Voltage: 220v/50hz Refrigerant: R134a/R404 Oem: yes Or equivalent Warranty One Year | 01 No. | | |
| Lal | b Equipment Pharmacology/ Physiology Lab | oratory | | |
| | Tissue organ bath | | | |
| 15 | Manual, tank 5 Liters, Chambers 5 mL, Stainless steel or equivalent. | 09 Nos. | | |
| 16 | Kymograph Aluminium, 230 V, 50 Hz, speed selection 1.00, 1.25 mm/sec | 09 Nos. | | |
| 17 | Digital balance Capacity: 220 gm. Readability: 0.1 mg Minimum Load: 10 mg, Minimum Sample WT as per USP: 200 mg, Operating temperature: 18℃ to 30℃. | | | |
| 18 | Oven (170 L, natural convection, Temperature range 5 $^{\circ}$ above ambient up to +300 $^{\circ}$. Temperature Percision: 0.1 Degree Temperature Fluctuation: $\pm 0.5 ^{\circ}$ Timer Range: 1 ~ 9999 min Shelves: 2 Or equivalent Warranty One Year | 01 No. | | |

| | | | 1 | CITI-LIIN | -PUR-Tender-001 |
|----|--|---------|---|-----------|-----------------|
| 19 | Burner Bunsen burner or equivalent Nickel plated burner of brass 12 mm Brass tube 100 x 12 mm Base 70 mm diameter Overall Height 145 mm. | 15 Nos. | | | |
| 20 | <u>E.S.R stand</u> JP Selecta (Spain) or equivalent Stainless steel, coated, 6 pipettes. | 10 Nos. | | | |
| 21 | Spiro Meter Plastic Body | 02 Nos. | | | |
| 22 | Glass Test Tubes Borosilicate test tubes 15-17 mm | 75 Nos. | | | |
| 23 | Test Tub stands Aluminium or stinless steel test tube racks 40 holes for 15-17 mm tubes. | 13 Nos. | | | |
| 24 | Neubar Chamber 0.0025mm ² Thick glass slide 30 x 70 x 4mm Or equivalent | 05 Nos. | | | |
| 25 | Meter Rod | 10 Nos. | | | |
| 26 | Sphygmomanometer Manual sphygmomanometer with Mercury. | 05 Nos. | | | |
| 27 | Stethoscope Measuring tip: approx. 16.5 cm Earpieces made of soft plastic Total length: approx. 1 m Tight ear clips Or equivalent | 05 Nos. | | | |
| 28 | <u>Wet Spiro meter</u> Portable, accuracy $\pm 3\%$, temperature 0 to 40 °C. | 05 Nos. | | | |
| 29 | ECG machineDigital 12 Channel ECGInput Way: Floating and defibrillationprotectionLead: Standard 12 leads.Patient leak currentL <10 μ APatient impedance: > 50 MQFrequency response: 0.05 Hz ~ 150 Hz(~3dB)Time constant: Time constant > 3.2 secCMRR: > 60dB, > 100 dB (Adding filter)EMG interference filter: 35 Hz (-3dB)Or equivalent Warranty One Year | 01 No. | | | |

| | | CIII-LIIN | -PUR-Tender-001 | |
|-------|---|-----------|-----------------|--|
| | Wattmann Filter paper or equivalent | 10 5 5 | | |
| 30 | Grade 1: 11 µm | 10 Packs | | |
| | 460 mm x 570 mm sheets | | | |
| 31 | Antiserum A B & D | 5 | | |
| | Monoclonal human IgM | Complet | | |
| | Or equivalent | e Set | | |
| Lab E | Equipment Pharmacology/ Physiology Labor | atory | | |
| 32 | Water Bath Single HoleDimension: $280 \times 160 \times 170$ mmTemperature is controlled accuratelyautomatically with digital displayTemperature rang: RT-100 degreesHeating power: 300WTemperature precision: $\leq \pm 0.5$ degrees, anti-cauterizationOr equivalent Warranty One Year | 10 Nos. | | |
| 33 | Triple Beam Balance Stainless Steel Plate, 610g Capacity, 0.1g Readability | 05 Nos. | | |
| 34 | Melting Point Appartus Up to 300°C, Resolution 1°C, Programmable, Sample Capacity 3 Samples Automatic and visual determination, PID-controlled temperature ramping | 05 Nos. | | |
| 35 | Spectrophotometer Thermo Scientific GENESYS 10S UV-Vis or equivalent Spectrophotometer, Dual Beam, Single cell holder and automated 6-cell changer standard, Dual Silicon Photodiodes, Drift <0.0005A/hr, Graphical with LCD backlight Warranty One Year | 02 Nos. | | |
| 36 | Digital Weight Balance Digital display, measuring chamber size: 180*175*200 mm, Repeatability error (standard error) ±0.002 g, Spirit bubble in front, Multi-combination wind shield-5 pieces of glassess, transparent wighing chamber, Micro loads weigh display, Auto reset Or equivalent Warranty One Year | 02 Nos. | | |
| 37 | Water Bath (Multiple Holes) Stainless Steel Boiling bath 8.81 Litres (Approx), with simmer to boil control, Heat protection, Integral constant level device to regulate the level of water Or equivalent Warranty One Year | 06 Nos. | | |

Special Terms and conditions;

- 1. Please quote the rates on our BoQs and clearly mention the quoted model / brands, otherwise your bid / items may be rejected.
- 2. Purchase / work order (s) will be awarded on Item Wise Basis as mentioned in BoQs.
- 3. In Addition to filling of the attached BoQs, supporting literature of the quoted model must be attached for verification & technical evaluation of the required specification by the technical committee. In case of any clash is found between the quoted model and the literature model. So the item/bid may be rejected.
- 4. Kindly attach the Tender fee with Technical Bid and Bid money / CDR with Financial Bid.
- 5. Please submit the technical and financial bid (s) on our prescribed BoQs and clearly mention the quoted model / brands, otherwise your bid (s) may be rejected and also attach the terms and conditions (signed, stamped) with both bids.
- 6. <u>Multiple rates of an item may also lead to the rejection of bid / item.</u>