INVITATION FOR QUOTATION ONLINE

FOR

AIIMS - RAEBARELI
ANATOMY
BIOCHEMISTRY & PHYSIOLOGY

HSCC (INDIA) LTD

(A GOVERNMENT OF INDIA ENTERPRISE)

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INVITATION FOR QUOTATION ON LINE

HSCC/PUR/Low Value/ Anatomy/Physiology/Biochemistry/06 25th November 2020

To,

All Bidders

Subject: Invitation for **on line** Quotations for supply of Low Value Equipment For **Anatomy, Biochemistry & Physiology** for Medical College AIIMS, Raebareli

Dear Sirs,

1. HSCC (India) Ltd. for and on behalf of AIIMS, Raebareli, Autonomous Body under Ministry of Health & Family Welfare, Government of India invites your on line most competitive quotation for the following goods of the respective departments quantity mentioned the **section I** and technical specification mentioned in the **section II.**

2. Quotation:
   - 2.1 The contract shall be for the full quantity as described above.
   - 2.2 Corrections, if any, shall be made by crossing out, initialling, dating and rewriting.
   - 2.3 The **on line** prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
   - 2.4 The unit price/ rate of the item should be clearly indicated in the quotation. Rates/Prices quoted shall be including of forwarding, and insurance & transportation, warranty, inclu**ding GST** up to the consignee **AIIMS Raebareli, Uttar Pradesh.**

3. Each bidder may quote one item or more than one item as per **section IV (Price format) with equipment technical literature along with Catalogue / Literature as per Section - III.**

4. Evaluation of Quotations:
   The Purchaser shall evaluate and compare the quotations determined to be substantially responsive i.e. which;
   - 4.1 are properly signed; and
   - 4.2 confirm to the terms and conditions, and specifications.
   - 4.3 final considerations of equipments shall be based on the quality of equipments during demonstration / inspection.
   - 4.4 The quotation will be evaluated and compared separately for each item.
   - 4.5 The Purchaser reserves the right to ask for a free demonstration/ sample approval of the quoted equipment at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications during Technical evaluation process, failing which bid may not be consider further.

5. The Quotations would be evaluated item wise.

6. Award of contract:
   The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest rate for the item subject to technical acceptance of the items during demonstration / inspection.
   - 6.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and cancel the bidding process and reject all quotations at any time prior to the issue of Purchase Order/contract, without assigning any reason.
   - 6.2 At the time of awarding the contract, the purchaser reserves the right to increase or decrease the quantity of goods and services mentioned in the schedule (s) in the

"List of Requirements without any change in the unit price and other terms & conditions quoted by the tenderer.

7. Delivery period shall be within **8 days** from date of placement of order at Consignee i.e. **AIIMS Raebareli**, Uttar Pradesh.

8. Payment shall be made only in Indian Rupees as follows:

Satisfactory Acceptance - 100% of total cost

100% Payment on submission of following documents (Duly signed & stamped at your end):-

- Copy of Purchase order.
- Consignee Receipt Certificate / Final acceptance certificate issued by Consignee/ Client/HSCC
- Invoice in favour of consignee i. e AIIMS RAEBARELI through HSCC (I) Ltd
- Warranty Certificate in original.
- Copy of Insurance Certificate.

9. All supplied items shall be under **one year warranty** from the date of successful acceptance by **AIIMS RAEBARELI**.

10. You are requested to provide your lowest offer as follows:

Sr. No.	Item no	Name of items	Closing date & time for submission	Date and time of Opening of Techno
1.	**Dept. of Anatomy, Biochemistry, Physiology,**	**As per list**	**07.12.2020 at 11:00 AM**	**07.12.2020 at 11:30 AM**

NOTE: (Under any unforeseen circumstances if the due date for submission of Tender is declared as holiday then the tender shall be submitted & opened on the next working day at the scheduled time).

The Online quotations will be opened in HSCC office, NOIDA as mentioned above in the presence of bidders or their authorized agents as they may choose to attend.

11. Information brochures/ Product catalogue, if any, must be accompanied with the quotation clearly indicating the model quoted for.

12. Online quotation to be uploaded along with the mentioned below:

I. PRODUCT SPECIFICATIONS: (As per Section – III)

- Brand/model name and type of Product being offered by the Firm must be clearly mentioned in the offer.

- Tenderer should confirm that the stores offered conform to relevant specifications asked in this Tender Enquiry Document at **Section-III**. The firms are advised to submit the compliance statement with respect to technical specification asked in the tender enquiry in the following format as per **Section - III** along with Technical bid failing which their offer will **be treated as incomplete and are liable to be ignored.**

- Deviations, if any, are to be clearly mentioned. Complete product specifications, technical details, illustrations, literature, printed pamphlets/leaflets etc. must accompany the Online quotation.

13. Quoted amount should be in Indian Rupees only and as per section –IV price Schedule format.

14. For all items, the Technical Evaluation Committee may opt for Demonstration of the items. The expenditure incurred for demonstrating the items will be borne by the supplier. The Committee may also ask for Demonstration / Inspection before supply / during delivery of the items at site for technical acceptance.

15. **LIQUIDATED DAMAGES:**

In the event of placement of an order, if the Supplier fails to deliver, install and commission the stores in full or part thereof within the delivery period as stipulated time i.e 8 days, the Purchaser reserves the right to levy Liquidated Damages @ 0.5% per week of the amount of the undelivered stores for delay in supplies subject to maximum 10% of value of the supply Order. Once the maximum is reached, the purchaser may consider termination of the contract and purchase the same from elsewhere, at the risk and cost of the Supplier.

The details of Online Invitation for Quotation has been made available at www.hsccltd.co.in, www.tenderwizard.com/HSCC, CPPP Portal and prospective bidders are advised to reguraly scan through HSCC E-tender portal www.tenderwizard.com/HSCC, www.hsccltd.co.in, CPPP Portal as corrigendum/modification/amendments, if any, will be notified on these portal only.

We look forward to receiving your quotation and thank you for your interest in this project.

Chief General Manager (Proc)
On behalf of AIIMS, Raebareli

SECTION - III

Format of compliance statement:

Sr. No.	Para of Tender Enquiry specification	Make	Model	Compliance to Tender enquiry Specification Yes/ No	In case of non Compliance deviation From T/E Specification to be indicated in Unambiguous terms
1.					
2.					
3.					
4.					

SECTION -I

LIST OF ITEMS & QUANTITIES

Sl. No.	Name of the Article	Quantity
1	Embalming Machine	2
2	U V Transluminator	1
3	Gas Analysis Apparatus, Haldane's student Type	1
4	Polygraph with PC	1
5	ECG Machine (a. Single Channel, b. 12 Channel)	a. Single Channel ECG – 2 Nos. b. 12 Channel – 1 No.
6	Hemocytometer	50
7	Apparatus for Passive Movement	1
8	Electric Sterilizer	1
9	Jaeger's Chart	1
10	Van Slyke's Apparatus Manometric	1

DEPARTMENT OF ANATOMY

Embalming Machine

Technical Specifications for Embalming Machine:

1. Fluid delivery rate should be 10 ltrs/hr.
2. Inner tank to store embalming fluid with capacity 5-7 ltrs. should be of stainless steel.
3. Pump: pump should be of ELECTROMAGNETIC DOSING PUMP with capacity 0-5 ltrs. per hour and pressure 3 kg/cm square.
4. The equipment should be mounted on castors for easy movement and the hand grip should be provided for lifting.
5. I.V. stand fixed for mounting cannula tubing and mains cable.
6. Indicator for mains on & in use should be present.
7. The outer body should be of complete stainless steel.

DEPARTMENT OF BIOCHEMISTRY

UV TRANSLUMINATOR

UV Wavelength (nm) (nm)	312
Type of illuminator	Benchtop Type
Intensity control - High/Medium/Low	Yes
Cooling system	by fan air cooling
Warranty (years)	3
Size of Filter screen(Length xWidth) in mmxmm	200 X 200
List of accessories to be supplied	UV Tubes
Dimensions of Equipment(LxWxH),	275 x 225 x175 cm
Input Voltage,V (V)	230
Selection of Intensity	Variable Intensity
Min. Detection (ng)	0.1
Weight of equipment,kg (kg)	8
UV safety screen	Yes
No. of UV Tubes (Nos)	6
Application Range	To view DNA/RNA migration on the the agarose gel in microbiology laboratory
Wavelength type	Dual
UV Tube wattage (W)	8

Gas Analysis Apparatus, Haldane's student type

- The computerized metabolic system provides all vital parameters such as ECG,Heart Rate,Pulmonary Volumes and capacities, Respiratory gases and metabolic measurements.
- It should have software to calculate VE Expired minute volume, V02 oxygen consumption, VC02, carbondioxide production, RER respiratory exchange ratio, ECG, HRV, Body Temperature and Pressure Saturate BTPS, Standard Temperature and Pressure Dry STPD, (VE / V02), (VE / VC02) etc. and should generates a number of graphs like Metabolic Log Window, VE (BTPS) vs. V02, VE (BTPS) vs.VC02, VC02 vs. V02, RER vs. time, V02 vs. time, VC02 vs. time, VE (BTPS) vs. time.
- It should plot real time flow and volume loops.
- Should be supplied with multichannel recording unit with a range of +2 mV to + 10 V
- Should have Facility for recording ECG (Leads I, II, III, aVL, aVF, aVR and VI to V6) for real time cardiac axis &vector analysis etc.
- Gas Analyzer should have an Oxygen sensor with minimum range of 5-1 00% oxygen and resolution of at least ,0.02% & the carbon dioxide sensor with minimum range 0-8% of carbon dioxide and resolution of at least 0.1 % and variable flow range of 0-185 ml/min for best performance .
- It should have Amplifiers & Transducers for ECG, Spirometer with respiratory flow head and mouth pieces, Pulse , Blood Pressure, Respiration rate, Heart rate, Hand dynamometer, Heart sounds etc.
- Should be supplied with Accessories:-Mouth piece, head gear, tubing and flow sensors, mixing chamber connectors, ECG electrodes, cream, paste, filters and Douglas bags.
- Should be supplied with Bicycle ergometer.
- Computer: Intel Core i5 processor ,Genuine Windows10 professional , 21.5 inch Full HD Widescreen Flat Panel Monitor ; 8GB RAM , 1TB Hard Drive . Facility for internet connectivity, Color laser printer, UPS with 20 minutes back up for whole system required & trolley should be provided alongwith.

- The software should have step by step instructions and videos for performing the experiment for students.
- Proper Demonstration and training should be carried out before finalizing.
- Should be approved to ISO,IEC and CE and other safety or BIS standards.

Polygraph

System should be able to Record and analyze

- Pulse,Blood Pressure, PPG, Pulse transit time, GSR, Temperature , Respiration, airflow, Heart Rate Variability [HRV] .
- ECG recording with multi- leads for real time cardiac axis and vector analysis .
- Phono cardiogram to record heart sounds and correlate the sound with the electrical events of the cardiac cycle.
- Digital microphone for lung and heart sound studies.
- Digital stethoscope for heart sound studies.
- SP02, Acceleration (3 axis) activity, Deep Breathing Test, Valsalva Maneuver, EEG, EMG, NCV.
- Dynamometer to study handgrip strength profile.
- Balance Board for body sway studies or static posturography
- Non Invasive Tonometer for Vascular function testing.
- Tendon hammer for Reflex time studies.

Specifications:

- Number of Channel:16 Channels Data acquisition System.
- Range: ±2mV to ±10V
- Minimum Sampling rate of 400KHz.
- ADC resolution =16 bits on all gain ranges and variable sampling speed on each channel with continuously record and display up to 32 channels of data.
- Transducers:-Pressure, Plethysmography, Respiration, Pulse, Temperature probe, Biopotentials, GSR Electrodes, Non-Invasive tonometer , hand dynamometer and wireless Heart rate Kit and other accessories for the measurement of the above parameters.
- Software should have various automatic analysis modules for ECG, HRV, Blood Pressure, Metabolic studies, Cardiac output, Peak analysis, spike histogram etc.
- Online & offline analysis with various export options like Binary, Axon, IGOR, MATLAB, Excel, Graph Pad Prism, QuickTime, Wav, Text etc.

- The software should have step by step instructions, protocol and experimental design for performing various experiments in physiology teaching applications.

  Also should have sample data for animal experiments for demonstrating to the students.

- The software should be provided with a 5 years of free updates and upgrades

- Computer: Intel Core i5 processor ,Genuine Windows10 professional , 21.5 inch Full HD Widescreen Flat Panel Monitor ; 8GB RAM ,1TB Hard Drive ; Facility for

internet connectivity, Color laser printer, UPS with 20 minutes back up for whole system and trolley should be provided alongwith.

- CE, ISO,IEC and other safety certificates must be provided.
- Proper Demonstrations and Training should be carried out before finalizing.

(a). ECG Machine (single Channel)

ECG Machine is primary equipment to record ECG Signal in various configurations

- The ECG Machine should be able to acquire all 12 Leads ECG signals
- Should print all the 12 leads in a single channel mode
- Should have multiple operation Mode(Manual,automatic etc.)
- Should have LED/LCD to display operation status and wave form
- Should have Artifact, AC, and low and high pass frequency filters.
- Should have an integrated-high resolution, thermal array printer for print of ECGs
- Should have battery capacity of at least 30 ECGs or 30 minutes of continuous rhythm recording on single charge
- Capable of printing continuous one channel and annotations including Lead marks,and such parameters as Sensitivity, Paper speed, and filter operation status.
- Should have Built in ECG parameters measurements and interpretation.
- Should have 12 Lead ECG preview display before taking printouts and should have printer on/off selection.
- Should have lead selector switch for selection of various unipolar and Bipolar Leads.
- The equipment should be US FDA / European CE / BIS approved product.

- **Accessories,Spares and Consumables:**
  Patient Cable: 2

  Chest Electrodes with silicon rubber bulb(Adult): (Set of six)- Two sets

  Limb Electrodes(Adult) : (Set of Four)-Two sets

  Thermal Print Paper: 10 Rolls/Zfold

  Jelly: 1 Bottle

- Product should be approved to IEC, CE, ISO and other safety standards.
- Warranty : 1 year.
- Demonstration of product should be done prior to procurement and installation.

(b). ECG Machine(12 Channel)

- The ECG Machine should be able to acquire all 12 Leads simultaneously and interpret them.
- Should have Real time colour display of ECG waveforms with signal quality indication for each lead.
- Should have Artifact, AC, and low and high pass frequency filters.
- Patient information input should include ID, Name, Age,Gender, Medicine,Previous diagnosis etc.
- Should have a storage memory of at least 100 ECGs with easy transfer by optional modem and data card .
- Should have full screen preview of ECG report for quality assessment checks prior to print.
- Should have interpretation facility of the amplitudes, durations and morphologies of ECG waveforms and associated rhythm for adult patients.
- Should have alphanumeric Keyboard for patient data entry.
- Should have High resolution digital array A4 size printer using thermal sensitive paper.
- Should have Automatic,Manual and Rhythm Recording Mode.
- Should have battery capacity of at least 30 ECGs or 30 minutes of continuous rhythm recording on single charge.
- Should have the facility for transferring the data to PC via LAN and Wi-Fi both.
- Should display ECG on LED/LCD display(Minimum 8 inch, high resolution with touch screen).
- Should have alarm of battery weak and lead off.
- Should work on mains (220v-50Hz) and rechargeable battery.
- Paper speed should be 5,10,12.5,25,50mm/sec .
- ECG sampling rate should be 1000 samples/second/channel.
- Should have pacing sampling 16,000 samples/second/channel.
- Should have common mode rejection more than 110 db.
- Should have USB connector for data.
- The equipment should be US FDA / European CE / BIS approved product

Accessories, spares and consumables

- Patient Cable -02
- Chest Electrodes Adult-(set of six) -10 sets
- Limb Electrodes(set of 4)- 10 sets
- Thermal Paper A4 Size for 100 patient
- 20 boxes of disposable electrodes.

- Should be supplied with a suitable Trolley with following specifications:

- Trolley should be made up of stainless steel.
- Should have three shelves ,one with a drawer.
- Top shelf should be surrounded by railing.
- Trolley should have suitable cable arm firmly affixed having holder for ECG cables while not in use.

- The equipment should be US FDA / European CE / BIS approved product .
- Demonstration of product should be done prior to procurement and installation.

Hemocytometer

Consist of Improved Neubauer Counting Chamber, RBC pipette, WBC pipette,and Coverslip contained in a box.

- **Improved Neubauer Counting Chamber**

➢**I**t should be made up of thick glass slide with H - shaped Trench enclosing two floorpieces.

➢Floorpieces should be silver /Metal coated.

➢Each floor piece should have counting grid.

➢The ruled area on each floor piece (the counting grid) should have following dimensions:
Each counting grid measures 9sq. mm (3 mm × 3 mm). It should be divided into 9 large squares, each 1 square mm (1 mm ×1 mm).
Of these 9 squares, the 4 large corner squares should be divided by single lines into 16 medium- sized squares each of which has a side of 1/4 mm, and an area of 1/16 sq.mm (1/4 mm × 1/4 mm). The central large square (1 mm × 1 mm), should be divided by triple lines into 25 medium-sized squares, each of which has a side of 1/5 mm.Each of the 25 medium squares (side = 1/5 mm), should be further divided into 16 smallest squares by single lines. Thus, each smallest square has a side of 1/5 × 1/4 = 1/20 mm, and an area of 1/400 sq.mm.
Space between the underside of the coverslip and the surface of the platform should be 0.100 mm in depth.

- **RBC and WBC Pipettes**
- **Cover Slips for Hemocytometer**: 22x25 mm, two in each box
- **Wooden Box**
- **Accessories**: additional Two RBC pipettes,Two WBC Pipettes, Rubber suckers for RBC and WBC pipettes and one box coverslip (22x25mm) with every Neubauer chamber.
- Warranty: 1 year
- Manufacturer should be ISO certified/Product should be ISO/CE marked.

Apparatus for passive movement

Used to treat joints of the lower limb after an injury, disease or following surgery. Based on a concept originated by SALTER IN 1970, this device has varied applications namely treatment of intra articular fractures, septic arthritis, ligaments tendon healing and also following total joint replacement to ensure a sufficient range of motion.

To prevent stiffening , the joint have to be moved continuously which results in the following:

- Minimize swelling and pain after operation
- Ensures faster recovery and shortened hospital stay
  Prevents extra articular contractures and adhesions.

Specifications: It should have:

- Ext/Flex Angle indicator at knee position
- Compact and elegant construction
- Electronic controls enable all adjustment of angle to be made on the front panel.
- Smooth and silent movement
- Digital timer with alarm
- Patient safety switch for stopping and reversing the motion.
- Treatment time: 1 – 99 minutes
- Range of Motion: 0 degree-120 degree
- Operational Voltage: 220V,50Hz
- The equipment should be US FDA / European CE / BIS approved product
- Demonstration of product should be done prior to procurement and installation

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Electric sterilizer

- Should be made up of stainless steel.
- It should have Automatic tray lifting System.
- It should have water outlet tap.
- Size: 350x150x100mm
- It should be thermostatically controlled.
- Input voltage- 220V-240V AC, 50Hz
- Warranty: 1 year
- Product should be ISO Certified
- CE/IEC certificates should be provided.

Jaeger's chart

- Used for testing Visual Acuity for Near Vision .
- Should be made up of reading material of various sizes.

Van Slyke's Apparatus Manometric

- Apparatus for analysing gases in samples of Blood .
- Based on Vacuum extraction Principle.
- Product should be ISO/CE/US FDA/BIS certified.
- Demonstration of the product should be done prior to procurement and installation.

Section -IV

Price Bid

Sr no.	Name of item	Make	Model	Qty	Unit cost (Rs.)	GST		Unit cost including GST (Rs.)	Total cost including GST (Rs.)
						%	Amount (Rs.)		
				a	**B**		**c**	D= b+c	**D X a**
Please quote **separate prices** for all line items including Charts, Model as in List of requirement/ Technical Specification									
1									
2									

Note:

1. Total cost of all items shall be included of all packing & forwarding, freight charges & insurance from ware house to consignee site at **AIIMS Raebareli, and will include** local tax, entry tax, duties, GST and other levies payable by the supplier under the contract. It will also include all charges towards installation, testing & commissioning of Equipment.
2. Bidder shall fill all cost i.e. a.b,c... failing which it will presumed that the same is inclusive in the total price and nothing will be paid extra on any account.
3. Bidder shall mention present rate of GST, failing which it will be presumed that the same is inclusive in the total price and nothing will be paid extra on this account extra.
4. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
5. The equipment will have one year warranty from the date of Satisfactory Installation & Commissioning.

Final Acceptance Certificate Handing over]
(To be given by consignee's authorized representative)

The following store (s) has/have been installed & commissioned in good working satisfactory condition:

1. Contract No. & date :
2. Supplier's Name :
3. Consignee's Name & Address :
4. Name of the item supplied :
5. Date of Handed over to consignee :
6. Name consignee /HSCC Representative :
7. Signature of consignee/HSCC Representative :
8. Seal of the Consignee :