ACU/PS/AH&RC-900(7)/95/2023-24 Date: 21 SEP 2023

TENDER NOTIFICATION

The Adichunchanagiri University invites **closed tenders** from eligible tenderers or bonafide licensed manufacturer or their authorised local supplier/dealer/distributor in the state of Karnataka for the Procurement of Renal sciences department equipment to Adichunchanagiri Hospital & Research Centre as per section I & II.

1	Name of the work	Procurement of Renal sciences department equipment to Adichunchanagiri Hospital & Research Centre
2	Last date for tender submission	On or Before 06.10.2023 up to 05:00 PM

SL.No	Description	Qty
I	**Major OT Equipment**	
1	Ultrasound machine	1
2	Laparoscopic tower	1 set
3	CRRT Machine	1
4	EMS LITHO Clast	1 set

SECTION -I

Instruction to Tenderers

- The Tenderer shall send quotes in 2 bid formats **(Technical and Financial bids sealed separately inside the main envelope for any or all list of items)** on professional business letterheads. The inner and outer sealed cover must bear the following identification

    1. Tender for .....[name of service | Contract]
    2. Tender Reference No.....[insert number]
    3. Address to "The Registrar, Adichunchanagiri University, B.G. Nagara -571448, Nagamangala (T), Mandya (D)"
    4. The tenderer who prefers to submit the tender through Post can dispatch the same through Registered Post / Speed Post or Courier so as to reach the above address on or before the due date and time specified in the Tender Notice. Tenders received after the due date and time, for what so ever reasons will not be considered and the authority, ACU BG-Nagara will not be liable or responsible for the same.

- **Tender Currency:** Prices shall be quoted in Indian Rupees Only
- **AMC/CMC (If any)** is subject to the Adichunchanagiri University's norms.
- **Warranty:** As per the Standards. Preferably 03 years

- **Amendment of Tender Documents:** At any time prior to the deadline for submission of tenders, the University may, for any reason, whether at its own initiative or otherwise, modify the tender documents by amendment. Adichunchanagiri University reserves all the rights to accept, reject, incorporate changes and re-tender without giving any reasons.

- **Documents Comprising the Tender:** Shall attach Brochure, Certification of the product, Bank/account details, PAN, GSTIN, Good Standing Certificate and 02 Years of ITR declaration inside the envelope and company contact details with email ID on the main envelope cover for further correspondence.

- **Tender Prices:** Prices indicated on the Price Schedule shall be entered separately I.e. the price of the goods, quoted (ex-works, ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, as applicable), including all duties and sales and other taxes already paid or payable. Any Indian duties, sales and other taxes which will be payable on the goods if this Contract is awarded. Conditional tenders will not be considered.

- **Validity of the Bid:** 90 Days from the last date of submission of bid

- **Corrupt or Fraudulent practices:** The Adichunchanagiri University requires that the Tenderers, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy:

1.will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

2.will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a university contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a University contract.

- **Process to be confidential:** Information relating to the examination, clarification, evaluation, and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence the Employer's processing of Tenders or award decisions may result in the rejection of his Tender.

- **Clarification of Tenders:** To assist in the examination, evaluation, and comparison of Tenders, the Employer may, at his discretion, ask any Tenderer for clarification of his Tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the Tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the tenders.

- **Delivery:** The successful BIDDER should commence the services as per tender document/Work or Purchase Order. For any queries/ assistance, please write to registrar@acu.edu.in or telephone to purchase section +91 -7406907357.

- **Penalty Clause:** Non-execution of supply order - For the reasons of failure to supply partially or completely within the stipulated time or any event of breach of contract. In case at any following stages

    1. For the delayed supply (3 days of grace period) - 5% deduction
    2. Quantity issues - 5% deduction
    3. Quality issues - 10% deduction

SECTION –II

Technical Specifications:

1. Portable ultrasound with 3 probes for urology

1. System must be a state of the art model & have all digital beam former technology with super computer processing and clinically proven imaging technologies.
2. System should be offered with the following applications: abdominal, obstetric/ gynaec, small parts, musculoskeletal, TCD, vascular, cardiac.
3. System must be offered with a minimum of 60,000 digital processed channels per image frame.
4. System must be offered with frequency compounding facility. Other equivalent technology can also be offered.
5. System must be offered with Speckle Reduction Imaging: - image processing technique to remove speckles & clutter artifacts.
6. Should have state of the art Transmit Real Time Compound Imaging Technology
7. System must be offered with a very high dynamic range of at least 170dB to pick up subtle echoes.
8. Frequency processing facility for the transducers should be 1-12 MHz. This must be available without the need for frequency switching.
9. Must have at least 3 Active Integrated Transducer Ports with electronic switching.
10. System must be offered with an acquisition frame rate of at least 750 frames/ second.
11. Must be offered with a single button control for automatic optimization & adjustment of TGC and Receiver Gain.
12. System must be offered with a single button control for automatic optimization & adjustment to achieve uniformity of Color Gain/ Spectrum for faster scans.
13. System must be offered with a single button control for automatic optimization for uniformity of Spectral Doppler.
14. System must be offered with 2D, M-mode, Color M-mode, Color flow, Pulse Wave Doppler, and Color Power Doppler.
15. Triplex Imaging should be standard on the system.
16. The system should have at least 100 seconds of Clip storage facility.
17. The system shall offer both Trapezoid & Panoramic Imaging.
18. System should allow for live image & archive images side-by-side or quad display on a single monitor. This display shall allow any type of image on either side.
19. The system should provide scan depths from a minimum of 2 cm or less to a maximum of 30 cm or better
20. User Interface
21. On/Off task light & Backlit illumination of control panel.
22. Easily accessible, full size QWERTY keyboard for text entry, functional keys & system programming.
23. Thumbnail menu provides on-screen thumb-nails of images & dynamic clips during exams.

24. Monitor:
    - System must be offered with an above 19-inch high resolution, flat panel, medical grade monitor with wide viewing angles & good color resolution.
    - Resolution: 1024x768pixels or better
25. Internal Hard Disk of 250 GB or more. Image storage as raw data & DICOM images. Conversion to JPEG, AVI, and MPEG file formats available.
26. Should have facility to transfer images to an integrated DVD writer and pen drive, without any interfacing.
27. Raw data processing
    - The system shall allow for post-storage image manipulation Doppler Gain, Angle correction, Doppler Base Line, sweep speed & inverted spectral waveform
    - System should provide a display zoom function on frozen images.
    - System should have the facility of performing measurements & annotations on stored images.
28. Cine Function:
    - Cine Review up to 1200 frames
    - Independent Cine Review in 2D/M, 2D/Doppler, 2D/C/Doppler, etc.
29. Measurements & Calculations:
    - All general measurements & calculations for all applications with digital calipers for distance, area, volume, circumference and Doppler wave form parameter measurements
    - Customizable Anatomy Description.
30. Transducers:
31. The system must be provided with the following transducers: -
    - 2-5 MHz Broadband Curved Array Transducer
    - 5-12 MHz Linear Array Transducer
    - 8-11MHz Trans Rectal probe
32. Tissue Harmonic Imaging, Compound Imaging & Doppler Mode should be available on all probes. Doppler cursor shall be user-steerable with linear transducers
33. System Power: 200-240V, AC, 50Hz
34. The System should have DICOM 3.0 (minimum) as standard. (DICOM ready system)
35. System Interface: 1 no. Ethernet connectivity; 2nos. RS 232C Serial Port Connector; 2nos. USB 3.0 Port; & AC Main outlet.
36. DICOM PUSH/ QUERY/ RETRIVE. Connectivity to RIS/ PACS/ HIS
37. System should be supplied with the following peripheral devices:
    - Inbuilt battery

2. Technical specifications LAPAROSCOPIC tower unit

1. CAMERA CONTROL UNIT
   a) 2XBNCConnectingCables,Length180cm,1XS-Video(Y/C)connectingcable,length180cm or equivalent,
   b) 1XSpecialRGB–ConnectingCable,Length180cm

c) 2XConnectingcablesforremotecontrolofVideoPrinter
d) SCB–Connectingcable100cm, 1XDVI-ConnectingCable, 180cm, 1XE.DV-Connectingcable, 500cm.
e) USB interface 2NOS

2. Keyboard set for Patient information editing and camera control functions FULLHD Camera Head
3. Inbuilt Electronic Fibre optic Filters
Image Sensor: 3*1/3"
Signalto–Noise-ratio: 60Db Min.Sensitivity:1.3lux
4. CompatibleHD24" or26"Flat Screen Medical TFT Monitor
Aspect Ratio=16:10, Desktop/Mountable
Colour System: PAL/NTSC.ResolutionMax:1920X1200SDI, Composite,S-Video,RGB,DVI&VGAInputs
Vertical/HorizontalViewingAngle:178

5. PICTURE IN PICTURE MODE
Brightness:300to500cd/m2.Contrast:700to800:1Powersupply:100-240VAC,50/60Hz
Consistingof24"or26"HDTFTMedicalFlatScreen,Power Supply, Monitor Stand & Mains Cord.

7. LED LIGHT SOURCE AND LIGHT CABLE
A. Specifications:
High intensity LED light source with spare LED lamp

8. INSUFFLATION UNIT
Specifications: ELECTRONIC INSUFFLATOR
A. Technical specifications:
B. Gas flow/min.0-20ltrs Pressure(mm/Hg) 0-30
Intra-abdominal pressure gauge 0-50(mm/Hg)Power supply 100-240VAC(50/60Hz)Dimension 305X 164 X 233mm (w x h x d)Weight 6 kg

9. Memory storage.
A. Should have Superior Quality High Definition Vision and VIDEO, STILL storage 500gb hard disk and direct PRINTOUT facility directly from the Camera Control Unit, compatible with video scope.
B. The system should be through and Through digital with image capturing in 16.9formatsin the camera head only for true Full HD image re production.
C. Camera function controllable in STERILE /UNSTERILE Area USB Printer connection (Plug& Play)

10. Telescope 30 degree enlarged View, diameter 10mm, Length 31cm.

11. Telescope 0 degree enlarged View, diameter 5mm, Length 31cm.

3. Equipment: CRRT Machine

1. Description of Function
    1. CRRT is indicated in any patient who meets the criteria for haemodialysis therapy but cannot tolerate intermittent dialysis due to hemodynamic instability. CRRT is better tolerated by hemodynamically unstable patients because fluid volume, electrolytes, and pH are adjusted slowly and steadily over a 24 hour period rather than a 3 – 4 hour period.

2. Operational Requirements

Easy to handle and maintain.

Microprocessor/microcontroller controlled user interactive menu with operating and malfunction removal instructions on thedisplay screen

Should be lightweight and portable

The system should be compatible with Haemodialysis/Haemofiltration

3. Technical Specification

Four pumps, one each for Blood, Dialysate, Replacement fluid and Able to perform SCUF, CVVH, CVVHD, CVVHDF &PLASMAEXCHANGE

Clear touch screen TFT/LCD Monitor.

Blood pump speed of 10-450 ml/min.

Close blood circuit to prevent air to blood interface.

Short preparation and priming program and ready to start treatment within 10-20 minutes.

Arterial pressure range: (-) 250 mmHg +/- 50mmHg.

Venous pressure range: (-) 50 mmHg to 350mmHg.

Pre Fitter Pressure: (-) 50mmHg to +450mmHg.

3.10 Effluent Pressure: 350mmHg +/- 50mmHg.

Programmable Substitution solution flow rate: 0-5000 mL/Hr

Dialysate flow rate:0-2500 mL/Hr

Programmable Effluent Flow Rate: 60-10000 mL/Hr

Integrated heparin pump with a flow rate of 0. 0.5 ml-5

ml/Hr. Bolus facility range 0.5mL. Bolus frequency

immediate 1-24 hrs.

Capable of changing therapies.

Four weighing scales to control system with gravimetric fluid mechanism and weighing capacity of at least 0-11kg, 7g deviationfor a solution bag of 5200g (equivalent to 0.14%).

Fluid/Blood warmer for blood/dialysate warming temp range app 33-40 degC(+/- 3 deg C)

Ultrasonic air bubble detector.

Alarm I case of blood leak, the air in line pressure limit violation, empty dialysate / Replacement bag, full effluent bag, andadvisory alarms in case of excessive TMP and filter clotting.

Output for Printer, PC connectivity, and Data acquisition should be there.

4. System Configuration Accessories, spares, and consumables

System as specified

List of essential accessories such as bloodline set,

hemofilter, plasma filter, etc should be mentioned along

with prices.

All media and consumables for setting up and

standardization should beprovided free of cost.

Should be supplied with 2 Nos of essential accessories such as bloodline set, hemofilter, and ultrafiltrate bags at no extra cost.

Cost of one 5 liters bag CRRT fluid rate should be quoted separately,

Should supply 10 liters of CRRT fluid with the machine,

5. Environmental factors

The unit shall be capable of being stored continuously in the ambient temperature of 0-50 deg C and relative humidity of 15-90%

The unit shall be capable of operating continuously in ambient temperature of 16-38 deg C and relative humidity limit to be15-65%. or more

6. Power Supply

Power input to be 220-240VAC, 50Hz fitted with Indian plug

UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up.

7. Standards, safety, and Training

Should be FDA, CE, approved product

Manufacturer/Supplier should have ISO certification for quality standards.

Shall comply with IEC 60601-2-16 SAFETY requirement of medical electrical equipment part 2-particular requirements for the safety of Haemodialysis equipment

Comprehensive training for lab staff and support services till familiarity with the system.

User/ Technical/Maintenance manuals to be supplied in English.

Certificate of calibration and inspection.

8. The rate for bloodline set, Haemo filter, Ultrafiltrate bag, plasma filter is required to be quoted separately in the BOQ. If all these consumables are provided as a kit then the rate for the kit shall be quoted in any one of the line items and the rest of the line item shallbe inserted as zero. If the kit doesn't have all the items then the bid will not be considered for evaluation.

4. EMS Litho cast

1. Centralized controls with touchscreen interface.
2. Stone Catcher.
3. Pistol-grip hand piece.
4. Smart Technology
5. Integrated pump with suction control.
6. Foot switch.
7. Suction bags.
8. Disposable Probes
9. Mobile cart
10. HDMI/USB ports.

21/9/23

Head of Procurement
Adichunchanagiri University
BG Nagara-571448