ACU/PS/AH&RC-900(7) / 106 /2023-24 Date: 03 OCT 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 for the Supply of Instruments & Equipment for Renal ICU and Minor OT for the department of Renal Sciences at AHRC as per section I & II.

1	Name of the work	Supply of Instruments & Equipment for Renal ICU and Minor OT for the department of Renal Sciences at Adichunchanagiri Hospital & Research Center, B.G. Nagara
2	Last date for tender submission	On or Before 26.10.2023 up to 05:00 PM

VIP DIALYSIS UNIT, Renal ICU, Minor OT & Wards

SL No	Description	Quantity
1	Minor OT Table	1
2	Uro dynamic system	1
3	Minor OT light	1
4	Minor OT Instruments	1
5	Fumigation machine	2
6	Dialyzer re process machine	2
7	Bicarbonate mixer machine	1
8	Dialysis Cot with Bed (4 Function)	6
9	Adjustable electronic Dialysis chair/bed	4
10	Stretcher with mattress	6
11	Triage cot with Oxygen Cylinder provision	2

SECTION -I

Instruction to Tenderers

1. 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.

2. **Tender Currency:** Prices shall be quoted in Indian Rupees Only

3. **AMC/CMC (If any)** is subject to the Adichunchanagiri University's norms.

4. **Warranty:** As per the Standard. Preferably 03 years

5. **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.

6. **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.

7. **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.

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

9. **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.

10. **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.

11. **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.

12. **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.

13. **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 SPECIFICATION

1. Minor OT technical Specification.

1. Universal Operating table electro hydraulic table for surgical discipline.
2. Dimension: A
   - Table top length 2080 mm minimum width 500mm without side rails height 750mm to 1100 mm.
   - The table shall be electro hydraulic operated with integrated color battery and battery charger.
   - The table shall be provided with a cable connected hand control with battery charge indicator.
   - There should be an additional operation panel with integrated colored display with battery indicator on the column of the table.
   - There should be provided with additional manual foot control device for the adjustment of height, lateral tilt and Trendelenburg/reverse Trendelenburg functions.

   Central breaking system
   - Five sectional radio translucent table top shall have detachable head- rest back-section, pelvic/seat-section, detachable split leg section operated on gas spring for up/down.
   - There should have provision for the guide rails fixed under the table top for X-ray cassettes. It should have antibacterial, antistatic and fluid proof material with high density and soft slow recovery foam so as to prevent pressure points developing during long duration surgeries.
   - Height- 750mm to 1100mm Trendelenburg -30deg to +30 deg Lateral tilt up to 20deg
   - Backrest adjustment - 40deg to +70deg Flex/Reflex position by hand control Return to O position by hand control

Accessories

a. Arm board with cushion and clamp -2nos.
b. Anesthesia screen I shaped with clamp -1 no.
c. Body strap – 1 no.
d. Goepel knee crutches – pair.
e. Radial setting clamp – 2 no's
f. Side Support
g. Infusion holder with clamp
h. Foot rest – 1 no
i. Cassette insert for X-ray.
j. Shoulder Support
k. Kidney tray
l. The table should be so adjustable that there shall be no obstruction to the feet of the surgeon and should allow generous leg room for the surgical team.

The rear of the table top shall also be free from any obstructions TUV, ISO certified/FDA.

2. Urodynamic System

1. The Urodynamic system 6 channel microprocessor based compact system with a high resolution color monitor is used for the Urodynamic study for Neurovesical and erectile dysfunction

2. The equipment should be modular design and should be able to carry out different tests like Uroflowmetry, Cystometry (CO2 & H2O), Electromyography (EMG), Urethral pressure profile (UPP), Pressure flow study (PFS), Video Urodynamic, Bladder/Valsalva leak point measurement & Cavernosometry.

3. The Urodynamic system should be up gradable for future with technical advances

4. The pre-set program should be done on the screen according to selected tests

5. There should be online monitoring of measurement up to six parameters with simultaneous measurement of three direct pressure studies like vesicle, abdominal and urethral

6. There should be a high resolution, medical grade 17" TFT monitor with speaker & microphone with a dedicated controlled keyboard, mouse, and speakers for EMG

7. Facility for fully automatic comprehensive patient filing & report generation with editing/post processing mode. Appropriate software for analysis of data including p-q Plot & Stress profile.

8. The pressure transducers should be of long life Statham transducer so as to last for more than 8-10 years The Uroflowmetry should have rotating disc transducer or weight transducer so as to provide graphical representation of relation between detrusor pressure and uro-flow rate

9. The equipment should have control panel inside the equipment to avoid water spillage.

10. Advanced window based Software for operating, analysing & report generation with templates of full text with computer.

11. Flowmetry: Range – 0-60ml/sec; Volume – 2 l Transducer – Rotating disc type/weight transducer

12. Pressure Study: Range: 1 – 250 cm of water; Transducer – Long life Statham type

13. EMG: One channel with inbuilt speaker & voice annotation, low frequency

14. Water Pump Unit: Infusion Rate – 2-10ml/min, Increment 1ml/min –10-100ml/min, Increment – 5ml/min

15. Equipment should have Uro-Video system with facility to super-impose the bladder images on graph tracing and PIP with graph tracing. Facility for Digital video recording

16. Facility to connect with hospital information system (HIS - VII) and to transfer data through cable.

3. OT LIGHT Urology

1. Should be LED based microprocessor control technology
2. One major dome and one satellite dome.
3. Dome body should be of single piece and should have provision for aircirculation.
4. Intensity at 1-meter distance 1,20,000 to 1,00,000 lux for major domeand not less than 1,10,000 to 1,00,000 lux for satellite dome.
5. Should have variable Colour Temperature: 3500-5500 K.
6. Having on off switch and light intensity control on light dome
7. Homogenous luminous field with lowest possible amount of shadow.
8. The contrast between the lighted area and the surrounding should notcause stress to the surgeon's eye.
9. Depth of illumination should be 100-140 cms or more for main &satellite dome.
10. Illuminated field diameter should be approx. 20-30 cms.
11. Colour rendering index (CRI) should be 93 – 98.
12. Height adjustment more than 1 meter.
13. LED life span 30000 or more Hrs.
14. Light field adjustment by sterilizable handles (2 sets).
15. Control panels on the light assembly as well as away from it for adjustment of light intensity, illuminated area and for switching on and off, focusing etc.
16. The light head should be so constructed as to provide optimum conditions for laminar flow.
17. User selectable intensity variation with digital display from 30 to 100%in 6 or more steps"

4. Minor OT Instruments list.

1. I&D INSTRUMENTS		
01	KIDNEY TRAY	02
02	GALLI PAT	02
03	SPONG HOLDING FORCEPS	02
04	SCALPELE BLADE HANDLE SIZE NO 3 -1	02
05	TOOTH FORCEPS	02
06	NON TOOTH FORCEPS	02

07	CURETTE DOUBLE END	02
08	MAYO STRIGHT SCISSOR	02
09	MAYO CARVED SCISSOR	02
10	ARTETERY FORCEPS	02
11	NEEDLE HOLDER	02
12	TRAY WITH LID	02
2. SPC SET INSTRUMENTS		
01	SPC TROCAR'S SIZE NO.14	01
02	SPC TROCAR'S SIZE NO.16	01
03	SPC TROCAR'S SIZE NO.18	01
04	SPC TROCAR'S SIZE NO.20	01
05	KIDNEY TRAY	02
06	SCALPEL BLADE HADLE SIZE NO.3	02
07	GALLI PAT	02
08	ARTERY FORCEPS	02
3.CATHETER SET INSTRUMENTS		
01	TRAY WITH LID	03
02	GALLIPAT	03
03	SPONG HOLDER	03
04	ARTERY 6 INCH	03
3. DRESSING SET		
01	SPONG HOLDER	05
02	TOOTH FORCEPS	05
03	SUTURE CUTTING SCISSOR	05
04	ARTERY FORCEPS	05
05	GALLIPAT 4 INCH	05
06	TRAY WITH LID 3X3	05

5. Fumigation Machine

1. Device should be made for hospital use only. (Operation theatre or intensive care unit sterilization) stainless steel.
2. Device should be portable, electrically operated.
3. Machine weight at least 6 kg.
4. Tank capacity at around 5liters.
5. Area covered should be around 7500 cubic feet
6. Tank should be metallic made and sturdy.
7. Droplet size generated by nozzle should be submicron size. Validation of droplet size by a governing body will be preferred.
8. Timer function should be present. Integrated timer is preferred.
9. Particle throw in a closed room should reach up to 3 to 4 meters
10. Output should be less than or equal to 3 litres per hour.
11. All parts should be compatible with acidic or alkaline liquids.
12. Medical grade silicon tubing and stainless steel internal parts. complying to FDA
13. Should have intake air filter uniquely designed of two layers for dust and fog separation
14. Device motor should be high speed.
15. Should have Precision Metering System : 0-70ml/minute
16. Should be of nozzle assembly

6. DIALYZER REPROCESSING MACHINE:

1. Fully automated / computerized dialyzer reprocessing system.
2. High standardization in cleaning, volume measuring, leak testing and chemical disinfecting.
3. No external dilution / minimize chemical contact.
4. Separated mixing and volume tanks to minimize cross contamination.
5. Automatically shut down after system disinfecting.
6. Simultaneously and independently reprocess two or more dialyzers.
7. REPROCESSING PROCESS: Automatic cleaning, volume measuring, leak testing and chemicalfilling.
8. Should be able to process all types and brands of dialyzers.
9. Volume measuring range = 25-300 ml
10. Volume measuring accuracy + 5%.
11. Leak test method, low limit setting should be specified.ELECTRICITY REQUIREMENT
12. 100-240 VAC, 50-60 Hz.
13. Temperature 10-35 degree
14. Humidity 10-80 %
15. RO or DI water in accordance with AAMI standard for haemodialysis.

16. Input pressure 25-30 psi.
17. Flow rate 1.5 – 6.0 litres/minute
18. Water consumption 27 litres/dialyzer
19. MDT PLUS 4 Cold sterilant or any other commercial peracetic acid conc. 3.5-4.5 %
20. Quantity consumed to be specified for dialyzers.
21. Loose connector
22. Dialyzer volume priming failure.
23. Leak test failure.
24. Empty Solution.
25. Self-test and disinfection interlock.
26. Priming volume lower than limit.
27. Incoming water pressure failure.
28. LCD, backlight with auto shut off.
29. Data display, reprocessing data.
30. Failure message.
31. Status
32. Date and time
33. 10-13 minutes / dialyzer

7. Bicarbonate Mixer

1. Should have conical bottom type vessel of capacity at least 100litres, made of Lipde (linear low-density polyethylene) material.Supporting stand should be made of Stainless steel – SS 304 grade.
2. Should have stainless steel rod grit, non-wetted pedestal stirrer - Not applicable in case of pressure flow mixing technology.
3. Should have Marine style 3 blade propeller- Not applicable in case of pressure flow mixing technology.
4. Blade should be stainless steel – SS 316 L grade or Pressure flow mixing technology.
5. Should have at least 0.5 Hp, single phase electric motor, 230V AC. 50 Hz.
6. Motor Assembly shall be quickly removable for easy cleaning and autoclaving.
7. RO water inlet should be Cpvc with ball valve @ 105 ltrs.
8. RO water outlet should be Cpvc with ball valve @ 100 ltrs.
9. Solute should be Cpvc with ball valve @ 4 ltrs.
10. Drain should be Cpvc with ball valve @ 0 ltrs.
11. Should supply with necessary spares and accessories.
12. Should operate on mains 220-240Vac, 50 Hz single phase.

8. Fowlers cot four function manual dialysis

1. Should be a height adjustable, manually operated, four section cot with perforated top.
2. The size should be approximately 2250mm length, 1015mm width and an approximate height adjustable from 520 to 820mm with ±5% tolerance.
3. Should have a trendelenburg and reverse trendelenburg movements.
4. Should have swivelling noncorrosive, fibre/synthetic wheels of 125mm dia.2 with brake and 2 without brake.

5. Should provide with a detachable and collapsible railing made of stainless steel of minimum 19mm diameter and 18 gauge tubes housed in mild steel tubular frame, with a locking facility for raised position.
6. Should provide with removable heavy duty saline stand made of stainless steel.304 grade. Should have a provision to fix on all four corners of the bed and also in the middle of the bed on either side
7. Should be provided with mattress of 4 section, 4" thick PU foam of 40 density and pillows covered with soft water proof material, PVC rexin
8. Should be supplied with mattress size should be approximately 2010mmx910mmx100mm with 10% tolerance.
9. All MS components should be 7 dip tank pre-treated and epoxy powder coated with 50-60 microns.
10. ICU bed should be of minimum 130Kg weight bearing capacity.
11. All MS Sheets/tubes must be CRCA
12. SS components wherever used should be of 304 grade.

9. Dialysis chair

1	The chair should be designed to improve the occupational Safety in medical Units, whilst Ensuring the maximum comfort for the patient.
2	Auto CPR Function It should be safe and sturdy power seat with height adjustment (vertical lift of 300mm) which should reduce the risk of bend injuries.
3	In chair CPR position it should reduce lift – bend injuries and the need to Transfer Patients in case of emergency.
4	It should be one touch memorized Trendelenburg / recovery position with 12 degrees beyond flat. Height adjustable Swing out armrests to reduce bending when needling.
5	Safety back rest to reduce the risk of crush injuries at the rear of the chair.
6	It should have heavy duty washable vinyl.
7	Traditional chair shape provides case of access.
8	Zoned seat cushioning to accommodates patients up to 200 kg.
9	Adjustable back rest to provide maximum comfort. It should have two spring back and seat construction for comfort.
10	Special designed backrest with lumbar and lateral support.
11	Length (Upright) mm 900 approx.
12	Length Trent / CPR (mm) 1800 approx.
13	Overall width (mm) 830 (1200 with Trays) approx.
14	Seat Width (mm) 570 OR MORE.
15	Weight Capacity 130KG OR MORE.
16	Seat Ht. to Floor (mm) 630.
17	Seat Ht. to Footstool (mm) 430.

18	Back Rest (mm) 700 or more, arm height (from floor, front/back)29" /26"approx.
19	The Supplier should preferably have Local Service EngineerBased at City.
20	Powered with handheld remote.
21	All steel, powder coated frame for durability.
22	It should have swing away arms up to 180 to make entry and exit easy of patient.
23	It should have fold away side table.
24	It should have push handle for transportation.
25	It should have wall hugger mechanism for infinite reclinepositions.
26	It should have 4" twin wheel thermoplastic casters with optionof front locking caster.
27	It should have iv pole and brackets Cones.
28	It should have full vinyl & foam covered arm rest. Vinyl seams it should be turned away for infections control & full medicalgrade vinyl bacterial resistant & anti-microbial.
29	It should Also have one/two rear caster: it should havedirection lock for easy transportation.
30	It should have battery backup.
31	It should have hand control.

10. Stretcher with mattress

- Overall Size: 1905mm L x 710mm W x 660mm To 910 mm H.
- Stretcher dimension 1830 mm L x 555 mm W.
- Trolley shall be mounted on 125 mm dia non-rusting imported castor wheelstwo with brakes and two without. Castor housing and wheels made from high grade non floor-staining synthetic materials with integrated thread guards.
- Wheel center having precision ball bearing to run smoothly. Complete withcorner buffers, one on each corner. Covered handles. Oxygen cylinder arrangement.
- It shall have a pair of Stainless steel tuck down type railings made of 19 mmdia x 18G tube fitted with M.S. brackets.
- Effective railing height above main frame is approx. 235 mm & length of therailing is 1175 mm.
- Mattress should be provided with a size 2 inch thickness PU foam which canbe fixed to the trolley by Valero similar mechanism.

11. Triage cot with Oxygen Cylinder (Emergency Trolley)

1. Should have two sectional top X ray translucent high pressure laminate with facility to insert X-ray cassette from both sides and ends of trolley.
2. Should be able to X ray the patient from positions the entire length and width of the trolley
3. Should have ratchet adjusted back section
4. Should have trendelenberg and reverse trendelenberg positions.
5. Should have hydraulic height adjustment.
6. Should have removable stretcher for easy cleaning and disinfections of the X ray platform.
7. Should have place for fixing oxygen cylinder.
8. Should have detachable SS telescopic IV rods and collapsible SS side rails.
9. Body should be pre-treated and power coated.
10. Should be supplied with standard accessories such as

a. SS Collapsible Side rails - 1 no.
b. Height adjustable IV rod - 1 no.

3/10/23

Head of Procurement
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