



ACU/Tender/Uro-AHRC/2045 /2019-20

Date: 09 MAR 2020

TENDER NOTIFICATION

Adichunchanagiri University is inviting Closed tender for the supply of C-ARM equipment for the department of Urology from the competitive/eligible firms.

1	Name of the work	Supply of C-ARM Equipment for the Department of Urology
2	Tender documents available for download	From 9.03.2020 to 19.03.2020 up to 5:00 PM

Sl. No.	Equipment/Instrument	Quantity (In No's)
1	C-ARM Equipment	1

Note: Kindly send quotes in 2 bid format (Technical and Financial Bid sealed separately) to the address "The Registrar, Adichunchanagiri University, BG Nagara - 571 448, Nagamangala (T), Mandya (D)".

TECHNICAL SPECIFICATIONS OF C-ARM WITH FLUOROSCOPY

System Specification:

Detector technology	Image intensifier (I.I.)
Field of view	23 cm (9")
Image resolution	1 K ²
Power Output	2.3 Kw
Orbital movement	130° (- 40° to + 90°)
Immersion depth	73 cm (28.7")
Free space	79 cm (31.1"), with fixed grid
Monitors	2 x 19" high bright ¹
Image storage	Yes

X-RAY Tube:

Anode heat capacity of min 70,000 HU

Cooling rate of min 45,000 HU/Min

Should have dual focal spots of 0.6 mm and 1.0 mm or better.

Uninterrupted fluoro time: Minimum of 20 minutes

Motorized iris and motorized rotating blades with slot diaphragm

X RAY Generator:

Frequency: more than 40 kHz

Power output: 2.5 KW more

KV range: 40-110 KV

mA in radiography: 0.6 mA to 24 mA

mA in fluoroscopy in normal mode: 12 mA or more

Should have facility for continuous fluoroscopy and Pulse fluoroscopy.

Minimum of 24f/s required in Continuous fluoroscopy mode

Organ Programing should be available with minimum 5 dedicated applications.

C-ARM Geometry:

Locks for stabilization at desired position

Range of movements:

Motorized vertical movements 400mm or more

Horizontal travel: 200mm or more

Orbital movement: -400 to +900 (1300)

Swing / panning movement: $\pm 11^\circ$ or more

Source image distance: 980 mm or more

Depth of C-Arm: 750 mm or more

Control Panel (Digital Work Station):

Image intensification, Automatic brightness stabilizer

Auto dose rate control, Collimation for radiography.

Contrast enhancement, edge enhancement, zoom facility, Last image hold.

Image rotation, vertical and horizontal reversal, and Positive/negative image inversion.

Annotation, image comments, R/L marking, Image storage of 50,000 images or more

Patient dose report - Integrated dose measuring chamber with automatic transfer of the accumulated dose into a radiation report

Metal excluded dose control Feature - Automatic metal exclusion and optimized balance of image quality and dose.

Laser marker with external attachment on Image Intensifier should be available



X-RAY Image Intensifier:

Input diameter 9" with Triple field (9/6/4.5)

DQE – 60% or more

Digitization depth – 16 bits

Camera:

1kx1k resolution for high resolution image acquisition.

Digital image rotation - Endless rotation in clockwise and counter clockwise.

Monitor Cart:

LED/TFT Display -Minimum of 23' Medical Grade touch monitor

Interface -USB interface for export of images

High quality Thermal Printer

Additional Features:

The equipment should work on a Power supply of 220-240 Volts, 50-60 Hz, 15 amp.

System should be AERB Type approved.

Warranty: 3 Years

Third Party Items Required for C Arm

Lead Aprons Wrap Around and should be CE approved	4 Nos
Lead Aprons Non Wrap Around and should be CE approved	4 Nos
Thyroid shield	4 Nos
Lead Eye Glasses and CE approved	4 Nos

Dr. C.K. Subbaraya

Registrar

Adichunchanagiri University
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