

Notice Inviting e-Tender

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Supply and Commissioning of two (2) C-ARM machines for Dept of Trauma Care Centre OT at IPGME&R-SSKM Hospital

(Submission of Bid through online)

Bid Reference No.: WBMSCL/NIT-362/2025

Dated-06.05.2025

AMENDMENT-I

REVISED Technical Specification

C-ARM Machine

The system should have the below mentioned specification:

Flat panel detector

- a) Receptor type should be of Amorphous Silicon technology
- b) Conversation screen should be of CsI
- c) FPD with 21 X 21 cm size or more should be provided
- d) Image matrix should be 1K X 1K or more
- e) Pixel pitch should be 205 μm or less
- f) ADC conversation should be 16 bit or more

1. C-ARM STAND:

a) It should be ruggedly built and should be of good design

- b) It should have 1 or 2 separate steering for controlling back and front wheel movements
- c) It should also have the below mentioned movements.
 - Horizontal travel should be minimum 200 mm
 - Orbital movement should be above 130° or more
 - Panning movement should be ±12.5°
 - Vertical movement should motorized of 400 mm
 - Focus to I.I distance should be 900 mm
 - C-Arm rotation should be ±180° (Preferably ±360°)

2. MONITORS:

a) Medical grade monitor/ high resolution minimum 32 inches or more on trolley – 1 No.

 b) The monitor trolley should be provided for mounting 1 monitor and should have 2 shelf for keeping memory and stabilizer.

3. GENERATOR:

- a) It should be microprocessor controlled digital system with display.
- b) It should be of high frequency with output of minimum 5 KW and frequency of 100 KHz.
- c) The KV should be from 40 to 110 KV.

d) The fluoroscopic mA should be from 0.3 to 20 mA or wider.

- e) The system should have fluoroscopy mode like
 - Manual Flouro mode and Continuous Flouro mode.
 - Pulsed fluoro mode with facility to select time interval between the pulses 25 pps or more
 - Auto Dose Rate Control in fluoroscopy mode by which mA & KV should be set automatically as per the thickness of the organ.
 - Manual KV selection during fluoroscopy also should be available.
 - Boost fluoroscopy mode (optional) / High Definition Fluoroscopy
- f) The digital fluoroscopic timer should be incorporated with arrangement of auto cut off of exposure after 300 secs.

- g) The radiographic mA range should be from 20 to 30 mA or more
- h) The X-ray tube should be dual focus rotating anode. The focal spot of the tube should be

1) Small: 0.3 mm x 0.3mm

2) Large: 0.6 mm x 0.6 mm or less

It should have mono block / tube housing heat storage capacity of 700 KHU or more. It should also have inherent filtration of 0.5 mm or more AI eq.

- i) The system should have touch screen display (13 inch or more) of flouro mA, KV, timer & radiography mAs should be provided
- j) The reversal, image rotation, functions should be operatable either from control panel or with a remote control.
- k) Memory functions like store recall/image transfer should be operatable from control panel as well as from memory unit.
- I) There should be independent selection of mA and KV &mAs.
- m) The control should have indicator for power, Overload, X-Ray & Tube heating
- n) The system should be upgradable to latest functions

4. IMAGE MEMORY:

a) Digital Image Processing & Memory system with PC or a USB Drive.

b) The System should have DVD recording facility as externally or internally.

- c) It should have 100 images
- d) It should have at least 100 permanent images storage capacity

e) It should have image integration function to reduce the image noise

f) Should be capable of copying images to Pen Drive.

ESSENTIAL ACCESSORIES:

a) Lead aprons (thickness 0.35 mm), Thyroid Shield, Lead Goggles (8 nos each)

- b) Lead apron stand 03 Nos. & for each stand 4 nos. Hanger should be supplied
- c) Servo stabilizer -1
- 5. Should be AERB approved

6. The system should be DICOM compatible.

7. The bidder should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.