

Notice Inviting e-Tender

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SUPPLY OF C-ARM MACHINE & C-ARM COMPATIBLE OT TABLE IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT- 42/2015

Dated – 03.12.2015

The following amendment have been made in the tender document,

Amendment – II

For Schedule I & II

C-ARM MACHINE & C-ARM COMPATIBLE OT TABLE

1. TECHNICAL SPECIFICATION

For Schedule -I

C-Arm Machine

Specification of High Frequency Mobile C-ARM IITV System
The system should have the below mentioned specifications:

1. I.I.T.V. SYSTEM:

- a) The image intensifier should be of latest series
- b) It should be of 9 inches triple field i.e. 9 inches / 6 inches / 4.5 inches
- c) The center resolution should be minimum 48lp/cm at 4.5 field.

- d) The circular grid should be fixed on the Image Intensifier (I.I. ratio) to improve image quality.

2. C-ARM STAND:

- a) It should be ruggedly built and should be of good design
- b) It should have 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 minimum 115°
 - Panning movement should be minimum $\pm 12.5^\circ$
 - Focus to I.I distance should be minimum 900 mm
 - Vertical movement should motorized/oil-free of minimum 400 mm
 - Focus to I.I Clearance should be minimum 730 mm
 - C-Arm rotation should be minimum $\pm 180^\circ$ (Preferably $\pm 360^\circ$)

3. CCD CAMERA:

- a) The CCD camera should be $\frac{1}{2}$ inch and of 0.3 lux; should be of internationally reputed make
- It should have resolution of 625lp/field

4. MONITORS:

- a) Medical grade monitor minimum 19 inches more on trolley – 2 Nos.
- b) The monitor trolley should be provided for mounting 2 monitors and should have 2 shelf for keeping memory and stabilizer.

5. GENERATOR:

- a) It should be microprocessor controlled digital system with display.
- b) It should be of high frequency with output of minimum 3.5 KW and frequency of 40 KHz. (Preferably 100 KHz)
- c) The KV should be from 40 to 110 KV.
- d) The fluoroscopic mA should be from 0.3 to 3.0 mA or wider.
- e) The system should have fluoroscopy mode like
- Manual Flouro mode & Continous Fluro Mode
 - Pulsed fluoro mode with facility to select time interval between the pulses from 1 sec to 10 secs
 - 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 mAs range should be from 20 to 100 mAs or more
- h) The X-ray tube should be dual focus stationary anode. The focal spot of the tube should be
- 1) Small: 0.6mm x 0.6 mm
 - 2) Large: 1.5mm x 1.5mm.

It should have mono block / tube housing heat storage capacity of 200 KHU or more. It should also have inherent filtration of 0.7mm or more Al eq.

- i) The system should have backlit LCD display of fluoro 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.
- l) 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

6. 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) Detachable cassette holder for taking X-rays on 8 inches x 10 inches or 10 inches x 12 inches film
 - b) Lead aprons, Thyroid Shield, Lead Goggles (12 nos each)
 - c) Lead apron stand- (2 Nos.) & Hanger (6 Nos.)
 - d) Servo stabilizer -1
7. Warranty for 2 years and 3-10 years for CMC after warranty. The prices for CMC shall be quoted at the time of tendering process. The prices of CMC shall be considered for the evaluation process.
8. The Generator, Tube, Image Intensifier of the equipment should have FDA / CE or entire equipment should have CE/FDA certification.
9. Should be AERB approved
10. The System should be DICOM compatible
11. Cardiac Platform with peripheral vascular capability with suitable pacemaker implants.

[The rates of Consumables and spares should be mentioned in Form 10a & 10b respectively.]

For Schedule-II

C-Arm OT Table

1. The table should be remote controlled Electrically operated motorised OT table with battery backup system.
2. The Table should have at least four sections and table top should be radio lucent to permit X-RAY penetration and fluoroscopy.
3. The table should be designed for Orthopedic, Cardiology,Urology, Endoscopic Retrograde Cholangiopancreatogram (ERCP) and also equipped with a translucent top for C- Arm use.
4. Table should have motorized surgical positions like Height Adjustment, raising, lowering, trendelenburg, reverse trendelenburg, lateral tilt, flex, re- flex, Longitudinal Slide, One touch Zero positioning, Electrical Floor Locking & chair position etc.
5. Interchangeable head and leg sections.
6. Seamless moulded mattress should be radiolucent material and suitable for fluoroscopy.
7. Table should have zero leveling facility.
8. In built Kidney Bridge supplied complete with standard accessories and mattress/ flex or extension position without Kidney Bridge.
9. The entire table should be made of stainless steel grade SS 304 and other high quality materials.
10. Table provided with SS- 304 Blocks and comes with other accessories including arm board, leg rest, mattress, shoulder support & one handle.
11. Radiolucent top allowing clear image on C-arm monitor.
12. Heavy frame provided for fixing of gears on the sides of table which do not interfere with the movement of C-arm.
13. Measurements (all dimensions are approximated to +/- 10% variations)

Top dimension	L 1905 X W 553 mm
Height adjustment	762 mm X 1012 mm
Trendelenburg / Reverse	30 ⁰ / 25 ⁰
Lateral tilt	20 ⁰ / 20 ⁰
Kidney elevator	120 mm
Back Rest(up / down)	80 ⁰ / 25 ⁰
Leg Rest(up / down)	15 ⁰ / 90 ⁰
Head Rest(up / down)	20 ⁰ / 60 ⁰

14. System Configuration Accessories, Spares and Consumables to be included with the quoted rate of C-Arm compatible OT table.

- a. Padded arm rest with straps – pair with clamps
- b. Anesthesia screen with clamps
- c. Side support: pair with clamps

- d. Shoulder supports: Pair with clamps
- e. Knee crutches : pair with clamps
- f. X-ray cassette.
- g. SS bowl with clamps.
- h. Infusion rod with clamps.

[The rates of the following optional accessories should be quoted in Form 10a & 10b respectively.]

- i. Orthopedic attachment: Lower limb, Hand surgery, Orthopedic leg traction device, hand traction device, Spine frame.
- j. Elevator: Neck & Shoulder.

[The rates of other Consumables and spare, if any should also be quoted mentioned in Form 10a & 10b respectively.]

15. Standard, Safety and Training

- a. Should be US – FDA/CE-9342/BIS approved product.
 - b. Manufacturer should be ISO certified for quality standards.
 - c. Should have local service facility. The service provider should have the necessary equipment.
16. Should be able to carry patient weight at least 150 kg.

17. Documentation

- a. User / Technical / Maintenance manuals to be supplied in English.
- b. Certificate of calibration and inspection. List of equipment available for providing calibration and routine Preventive Maintenance support as per manufacturer documentation in service / Technical manual.
- c. List of important spare parts and accessories with their part number and costing. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. Warranty – 2 years; CMC – 5 years.