

TECHNICAL SPECIFICATIONS

I X-RAY GENERATOR

- i. Type: High Frequency minimum 20 Khz.
- ii. Fluoroscopy anode potential: 40 to 110Kvp (1Kvp step)
- iii. Fluoroscopy mA range: Normal mode: 0.5 to 4 mA
- iv. Power: 2.2 Kw or more.

II. X-RAY TUBE

- i. Type: Stationary anode
- ii. Focal spot: 0.6/1.5 mm

III. IMAGE INTENSIFIER

- i. Input field size: 9" (Triple field)
- ii. Grid on the entrance field: circular grid.

IV. TV CAMERA SYSTEM

- ii. Type: CCD with 752x582 pixels or more.
- iii. Memory: Minimum 25 images non-volatile storage.
- iv. Video Standard: PAL/NTSC

V TV monitor

- i. Two 15" or more medical grade LCD/TFT/CRT monitors.
- ii. One for LIH and one for memory display.

VI C-ARM CART

- i. SID: 880mm
- ii. Orbital Travel: 115° (90/25)
- iii. C-arm Pivotal rotation: $\pm 180^\circ$
- iv. Horizontal Travel: 200mm
- v. Vertical Travel: 400mm
- vi. Panning Movement: $\pm 12.5^\circ$
- vii. Depth of C-arm: 600mm

VII OTHER SPECIFICATONS

The unit should have the following facilities

- i. Automatic KV and mA technique selection and manual mode.
- ii. Cumulative exposure timer for fluoroscopy.
- iii. Audible and Visual indication for X-ray emission.
- iv. 360 ° rotations of images should be possible for LIH image after fluoroscopy and should not be CRT based rotation.

- v. Image vertical and horizontal reversal should be possible on the LIH image after fluoroscopy.
- vi. Should not be a PC based system.
- vii. Iris collimation or two pairs of parallel shutters which can be controlled independently and can be rotated.
- viii. Should have at least 20cm distance between the focal spot and skin for radiation safety.
- ix. Should have a single double steering wheel with 180° rotation.
- x. Two sets of sterile drape for the X-ray tube assembly, Image intensifier and C-arm and clips to hold the drape on the c-arm should be provided.
- xi. Cassette holder should be supplied.
- xii. Five lead aprons with thyroid guards
- xiii. The quoted model and tube should be AERB type approved for usage up to 4mA. Relevant copies of the certificate should be attached with the bid.

VIII POWER REQUIREMENTS

- i. Single phase, 230 Vac, 50Hz
- ii. Suitable stabilizer should be provided along with the unit.

IX SPECIFICATION OF LEAD APRON.

- i. Should be AERB approved.
- ii. Should be light weight 0.5mm lead equivalent.
- iii. Should be hook and loop type (Velcro).
- iv. Should be supplied along with thyroid guard

***2 Extra Lead Apron should be supplied.**