

# Notice Inviting e-Tender

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SUPPLY OF MEDICAL EQUIPMENTS FOR MULTI / SUPER SPECIALITY HOSPITALS OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-07/2016

Dated – 12.02.2016

The following amendment have been made in the tender document,

## Amendment - I

### REVISED TECHNICAL SPECIFICATION

#### SCHEDULE – I

#### 300 mA X-ray machine with IITV Fluoroscopy

1. X Ray Generator
2. Two pulse X-ray generator
3. Power output: at least 24 KW X Ray Generator 300mA , 40 KV - 100 KV
4. Electronic Timer (upto 5 sec)
5. To increase the X-ray tube life, X-ray generator should be provided with a device capable of stopping rotating anode immediately after the termination of the exposure.
6. X Ray Tube:
  - i) Dual focus X-Ray tube of at least 42.5 KW capacity.
  - ii) Output of the tube should match with output of the generator.
  - iii) Tube should be of rotating anode type.
  - iv) Focal spot: 1mm x 1mm & 2mm x 2mm
  - v) System should have inherent filtration

## 7. Column Stand

8. Light weight Floor to Ceiling type with Counter Weight Balancing System. It should be 360 degree rotatable.

## 9. Examination Table

10. Table top should be radiolucent with negligible X-Ray absorption, stain free, break resistant & water proof.

11. Vertical to head down position with automatic stop at Vertical, Horizontal and Head down position.

12. Table should be provided with obstacle protection during horizontal to vertical position.

13. Spot Film Device should be provided with magnetic breaks and automatic arrest facility during spot filming.

14. Bucky with adjustable cassette tray with a grid ratio of 10:1 and 100 lines per inch

15. Motorized Under Couch Collimator and Manual Over Couch collimator.

16. The Spot Film Device should include the following:

17. 4 in 1 on 8"X10" Film

18. 2 in 1 on 10"X12" Film

19. 1in 1 on 14"X14" Film

20. along with a suitable grid

21. Foot Rest, Abdomen Binder, Compression Device foot Switch hand Grip, Skull Cone, Shoulder Rest, Strap Radiation flaps

## 22. IITV

23. The entire system should have resolution of 48lp/cm at 9 inches

24. Light weight ceiling free IITV system mounted on the table.

25. High resolution CCD camera to capture the image from the output phosphor of the II.

26. Trolley mounted 17" TFT Monitor (44")

27. specifications of the Image Intensifier:

28. Nominal entrance field diameter of 23 cm with triple field selection capability.

29. Output window size 20-25 mm.

30. Memory: 100 frames permanent memory with USB port.

31. The assembly should have 'All metal' construction and provide magnetic and lead shielding.

32. Specifications of the CCD camera.

33. Should be of PAL Systems with minimum 795 x 596 pixels.
34. Video Standard 50 Hz. 625 lines interlaced.
35. Video gain should have automatic gain control.
36. Last image hold facility must be present.
37. **Specification of the monitor.**
38. Local controls for image contrast and brightness adjustment.
39. Should be cart/ trolley mounted and movable anywhere in the fluoroscopy room.
40. Vertical Bucky stand for standing abdomen (quote optionally).
41. Quoted unit should be approved by BARC/AERB.
42. **Accessories:**
43. Cassettes : Push lock type cassette with Green/Blue Base Rare earth screens of size :
44. 8"x10" – 2 nos.
45. 10"x12" – 2 nos.
46. 14"x14" – 2 nos.
47. 14"x17" – 2 nos.
48. Radiation Shield/ Barrier – 1 no (3 fold type)
49. Lead Aprons – 4 nos.
50. **Standards, safety, and training**
51. Should have the ISO certification and the copy of the same should be enclosed along with the technical bid.
52. Training should be provided for users and biomedical engineers.
53. Unit should have type approval certificate from AERB.
54. Should comply with CE /BIS Standards.
55. During installation supplier should provide the QA report with film along with room layout (Scale 1:50).
56. The selected bidder will have to facilitate the end user for obtaining the permission from AERB.
57. **Documentation**
58. User/Technical/Maintenance manual to be supplied in English
59. Certificate of calibration and inspection from factory.