



Notice Inviting e-Tender

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Supply and Commissioning of 02 (Two) unit of X-Ray Machine with CR System for Taki RH and Sandeskhali RH.
(Submission of Bid through *online*)

Bid Reference No.: No.: WBMSCL/NIT-863 /2025

Dated-29/10/2025

Amendment-I

TECHNICAL SPECIFICATION

300 mA X-Ray Machine With CR System

Schedule-I

X-Ray Generator:

1. High frequency X-Ray Generator 50 KHz or more.
2. Power Output: at least 30 KW, X-Ray Generator 300 mA or more.
3. Radiography kV Range: 40 – 125 kV.
4. mAs: up to 300 mAs.
5. Electronic Timer: up to 5 seconds.

X-Ray Tube:

1. One Dual Focus X-Ray Tube of at least 30 KW capacity.
2. Output of the tube should match with the output of the generator.

3. Tube should be rotating anode type, 2700 RPM minimum.
4. Focal Spot:
 - 1 mm × 1 mm and
 - 2 mm × 2 mm (or smaller focal spot).
5. System should have inherent filtration of 0.5 mm or more.

High Voltage Cable: 1 pair, at least 7 meters long / as per requirement.

Console:

1. Should have digital display of all parameters.
2. APR mode should be available.

Column Stand:

- Light weight, floor-to-ceiling type or floor-mounted, with counter weight balancing system.
- It should be 360° rotatable.

Examination Table:

1. Table top should be radiolucent, with negligible X-Ray absorption, stain-free, break-resistant, and water-proof.
2. Floating table top.
3. Bucky with adjustable cassette tray with a grid ratio of 8:1 and 100 lines per inch.

Power Requirement:

- For operation on 400 Volts, 3 Phase power supply.

Accessories:

1. Three fold type radiation shield / barrier, 1.5 mm lead equivalent – 1 no.
2. Lead Apron, 0.25 mm lead equivalent – 2 nos.
3. LED type View Box (2-in-1) – 2 no.
4. Floor type Vertical Bucky Chest Stand, grid ratio 8:1, 100 lines per inch – 1 no.
5. Lead Letters, Numbers and R & L – 12 sets.
6. Servo Voltage Stabilizer – As required.

Standard Safety and Training:

1. Should have ISO Certification of the manufacturing unit (copy must be enclosed with technical bid).
2. Unit should have Type Approval Certification from AERB.
3. The entire X-Ray System should be European CE (4-digit notified body) / US FDA / BIS approved.

4. During installation, supplier should provide QA report with film, along with room layout (Scale 1:50).
5. Selected bidder will have to facilitate the end user for obtaining permission from AERB.

Computerized Radiographic (CR) System with Printer

1. The system should comprise of:
 - a) Image recording system (Image plate and cassette)
 - b) Image reader
 - c) Image processing work station
 - d) Accessories and consumables
2. Should be of Single cassette (size – 14" x 17") speed – 35 cassette/hr or more at resolution of 10 pixel/mm
3. Acquisition of image at monitor after insertion of the cassette: 40 sec or less
4. Cassettes: Should provide the following cassettes;-
 - i) 10" X 12" cassette – 2 no.
 - ii) 8" X 10" cassette – 2 no.
 - iii) 14" x 17" cassette – 4 no.
5. Standard resolution of 10 pixel/mm
6. Console with monitor of 17" or more – 1 no.
7. UPS from reputed manufacturer having at least 30 minute back up with appropriate KVA for the entire system.
8. System should have capability to pan, zoom, annotate, crop, noise suppression/control System should have capability to pan, zoom, annotate, crop, noise suppression / control.
9. System should be DICOM compatible and scalable for connectivity to PACS.
10. Should provide with Dry Imager camera with DPI 500 or more. The camera should print all standard film sizes. The camera should have 2 online trays.
11. The equipment should be new and unused. The manufacturing date should not be more than 180 days when it would reach the consignee address.
12. The printout copy should bear the patient identification particular.
13. **Standard & Safety**
Should be of CDSCO approved
14. **Warranty & CMC**
The machine UPS and all other accessories should be under warranty for 2 years.

It is mandatory that the supplier would configure LASER / Thermal printer of any reputed make available in Indian market on demand of WBMSCL / purchaser for printing of images