



Notice Inviting e-Tender

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SUPPLY AND INSTALLATION OF 300 mA X-RAY MACHINE IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-10/2021

Dated –08.01.2021

Amendment-I

Revised Technical Specification for 300 mA X-Ray Machine

X-Ray Generator:

1. Two Pulse X-Ray Generator
(Bidder offering High-Frequency Generator will also be acceptable)
2. Power Output : at least 24 KW X Ray Generator 300 m A
3. Radiography KV Range : 40KV – 125KV
4. mAs : at least 500 mAs
5. Electric Timer : upto 5Sec
6. 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 exposure.

X-Ray Tube:

1. One Dual Focus X-Ray Tube of at least 42.5KW capacity.
2. Output of the tube should match with the output of the generator.
3. Tube should be rotating anode type of 2700 RPM minimum.

4. Focal Spot : (a) 1 mm X 1 mm & 2 mm X 2mm
OR
(b) 1.2 mm X 1.2 mm & 2 mm X 2 mm

5. System should have inherent filtration (0.9mm or more)

High Voltage Cable: 1 pair, 8 mtr long

Column Stand:

Light Weight Floor to Ceiling type or floor mount with Counter Weight Balancing System. It should be 360 degree rotatable.

Examination Table:

1. Table top should be radiolucent with negligible X-Ray absorption, stain free, break resistant & water proof.
2. Four way floating table top or Vertical to head down position.
3. Bucky with adjustable cassette tray with a grid ratio of 8:1 and 100 lines per inch.
4. Foot Rest, Abdomen Binder, Hand grip, Skull Cone to be provided.

Power Requirement:

For operation on 400 volts, 3 phase power lines.

Accessories:

1. Three Fold Type Radiation shield / Barrier with 1 mm lead equivalent – 1 no.
2. Lead Apron (0.35 equivalent lead) – 2 nos.
3. LED type View Box (2 in 1): 2 nos.
4. Floor Type chest stand (Full Rod): 1 no.
5. Lead letters, numbers and R & L : 12 sets

Standard Safety and training:

1. Should have ISO Certification of the manufacturing unit and the copy of the same should be enclosed along with the technical bid.
2. Unit should have type approval certification from AERB.
3. Should comply with CE / BIS standards.

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

Documentation:

1. User / Technical / Maintenance manual to be supplied in English.
2. Certificate of calibration and inspection from factory.

This machine must be coupled with CR system for operation