TECHNICAL SPECIFICATIONS

Equipment Name: X-Ray Machine 500mA With Table

X-RAY GENERATOR

1. Type: Full wave rectified
2. Max KVP: 125
3. Max mA: 500
4. Should have 500mA at 100KV and 320mA at 125KV.

X-RAY TUBE

1. Type: Rotating anode
2. Focal spot: Dual 1.2x1.2mm and 2 x 2mm
3. Anode heat capacity: 240KHU
4. Anode speed: 2800 RPM at 50 Hz.

RADIOGRAPHY

1. KVP range: 40 – 125
2. mA range: Small focus- 80 to 160 mA
3. Large focus- 160 to 500 mA

CONTROL PANEL

1. Digital display of all radiographic parameters
2. Major and minor KVP control.
3. Electronic timer with range of 0.01 to 5 sec in at least 24 steps.
4. Automatic tube over load protection.
5. Line voltage compensator for coarse and fine adjustment.

MECHANICAL SPECIFICATIONS

1. Floor to ceiling tube stand
2. Fully counter balanced
3. Easy to move and handle
4. Light beam diaphragm collimator.
5. One pair of high voltage cables at least 6 meters long.
6. Tube head should be rotated 360 deg.
7. Extendable hand switch with cable for x-ray exposure.

**TABLE SPECIFICATION**

1. The table should be horizontal type
2. Table top should be radiolucent with negligible x-ray absorption, stain free, break resistant and water proof.
3. Bucky should be movable grid type.
4. Grid should be aluminum interspaced with minimum ratio of 6:1 and 60 lines/inches.
5. Bucky should travel the entire length of the table.
6. Cassette tray should be of stainless steel, auto centering of cassette with cassette lock and should be capable to accommodate 14”x17”
7. Compression band, hand grip, foot rest and foot step should be provided.

**FEATURES**

1. The quoted model and tube should be AERB type approved for usage up to 500mA. Relevant copies of the certificate should be attached with the bid.

**STANDARD ACCESSORIES**

1. Three fold X-ray protection barrier.
2. Lead apron 0.5mm lead equivalence with thyroid guard – 1 no.
3. Light weight latest model cassettes with high speed screen 15x12 – 3 nos, 12x10 – 3 nos, 10x8 – 3 nos.
4. Channel type hanger each size 5 nos.
5. Should be supplied with chest stand and cone for skull x-rays.
6. Dark room accessories should be provided inclusive of developing tank (4 nos), Dark room lamp, lead markers R, L, 0-9 and A-Z each 2 sets.
7. Cassette storage box.

**POWER SUPPLY REQUIREMENTS**

1. 380 to 440Vac, Three phase, 50/60 Hz.

**SPECIFICATION OF LEAD APRON.**

1. Should be AERB approved.
2. Should be light weight 1mm lead equivalent.
3. Should be hook and loop type (Velcro).
4. Should be supplied along with thyroid guard.

**SPECIFICATION FOR THREE FOLD LEAD PROTECTIVE BARRIER.**

1. Should be a three fold mobile lead protective barrier.
2. Should be mounted on heavy duty casters.
3. Should have a viewing window of 1.5 mm thick lead equivalence.
4. The centre part should have 3 feet width and 6 feet height. The sides should be 1.5 feet width and 6 feet height.