

SPECIFICATIONS OF 500 mA HIGH FREQUENCY X-RAY MACHINE

High Frequency X-Ray Generator of 40 KHz or suitable for Radiography

X- RAY GENERATOR:

- The X-Ray generator should be of 40 KW or more.
- The X-Ray control should have digital display of KV, Ma and mAs.
- The radiography KV should be from 40 to 110 KV or more
- Ma range up to 500mA
- The exposure time should be from 0.01 to 5.0 seconds with maximum numbers of steps.
- The techniques selector should be provided for selecting table radiography/ bucky etc.

Control:

- The voltage indicator should be provided which indicates low/normal/high voltage
- The generator should have micro processor based electronic overload system.
- The generator should have dynamic range control with which maximum mAs.
- Can be achieved at specific KV and Ma.
- The X-Ray tube should be dual focus of BEL/Toshiba/Imported having rotating anode of 125/20/40 or more.
- Focal Spot 1x2mm²

HT CABLE:

- One pair of 8 meters HT Cable.

COLLIMATOR:

- A Manual collimator with aluminium filter & adjustment of exposure area

COLUMN STAND:

- It should be ceiling column stand/Floor mounted with vertical counter balanced travel.
- It should have 360 deg. Rotation

Table:

- Type 4 way floating table top
- Lock system Electromagnetic locking system
- Tot table sliding 4 way sliding table top approx. 430 mm longitudinal, approx. 320 mm transverse
- The motorized bucky with grid ratio of 10:1 with 60 lines per cm should be provided. The bucky tray should accept cassettes up to "14x17"size

Vertical Bucky Stand:

- Vertical bucky should be provided with grid for chest radiography & tray of at least "14x17"" or more.

Other Requirements:

- The company should be ISO Certified and machine European CE/USFDA certified
- The unit must be certified from AERB
- The company should provide the registration & layout plan approval of the installation from AERB before starting the facility.
- The company should have a Local Service Center
- The company should have proven track record in Govt. Sector
- The machine should be supplied with working compatibility on three phase power supply.
- Three years guarantee from the date of installation
- Rates of CMC including X-Ray Tube for seven years to be submitted.
- Demonstration May be taken if required.
- The company should provide layout plan and QE test report for registration from AERB

Executive Director (EPM)

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