

## **SPECIFICATIONS OF 300mA X-RAY MACHINE (HIGH FREQUENCY MACHINE)**

High Frequency X-Ray machine suitable for general Radiography.

### **X- RAY GENERATOR**

- High Frequency X-Ray generator having Frequency of 40 KHz or more suitable for Radiography Should be provided.
- Power output of generator should be 25 KW or more
- Radiography KV range should be 40 to 110 KV or more
- mA range (Rad.) : 300mA or more
- Exposure time (Rad.): 1 ms to 2 sec. with maximum numbers of steps.

### **Control :**

A very compact, Soft Touch Control Panel having following functions & indications should be provided. The panel can be supplied in floor or wall mount with Spill Proof design Following features should be available on the control panel

- Machine ON/OFF switch
- Digital Display of KV & mAs.
- KV & mAs increase and decrease switches
- Tube focal spot selection switch.
- Ready and x-ray on switch with indicators.
- Bucky Selection switch.
- Self diagnostic Programme with Indicators for Earth fault error, KV error, filament error & Tube's Thermal Overload.
- Dual action hand switch retractable cord should be provide.

### **X-RAY TUBE:**

- One No Dual focus Rotating Anode BEL/Toshiba/Imported X-ray tube thermally protected having focal spot:-  
1mm or less small Focus  
2mm or less large Focus
- Anode heat storage capacity of tube should be more than 100KHU
- One Pair of 8 meter H. V. Cable.
- One no manual collimator with aluminium filter & for adjustment of exposure area

### **COLUMN STAND:**

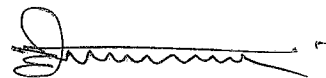
- It should have floor to ceiling stand with vertical counter balanced travel
- It should have 360 deg. Rotation
- It should be provided one chest stand with machine

### **Table**

- Five position manual tilt table having bucky grid ratio of 6:1 with 60 lines per inches should be provided.
- The bucky tray should accept cassette up to 14"x17" size

### **Other Requirements**

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



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