

GENERIC SPECIFICATION OF HIGH FREQUENCY X-RAY MACHINE

The machine should have the given specifications and features:

1. X-Ray Generator:

- High frequency having Jedi generator used in CT with frequency of 50khz
- Power output of the generator should be 30-40kw

2. Radiographic Rating:

- KV range should be at least 50-125KV.
- Maximum mA of 400mA HF

3. Control Panel:

- High frequency X-Ray output
- Generator off/ On switch
- Voltage indicator with over voltage protection circuit.
- Radiographic mA/mAs range selector
- Radiographic Exposure time
- Digital display of KV, mA/ mAs selected
- KV selection in step
- Electronic timer
- 2 parameter and 3 parameter technique selection
- High voltage silicon rectifier for consistent radiographic result and low system losses
- Minimum 150 pre program anatomical program memory
- Radiographic timer switch with long cord
- Anode breaking device

4. X-Ray Tube:

- X-Ray tube should be equipped with **dual focus** or equivalent rotating Anode X- Ray tube.



Director
Regional Institute of Medical Sciences
Imphal

5. Table:

- Five position diagnostics X-Ray table
- Bucky: Fully counter balanced bucky
- Grid ratio: At least 10:1
- Should be supplied with foot rest, hand grips, compensation device
- The bucky tray should accept cassette with maximum size of 14"x17" size.

6. Power supply:

- Should be 420v, 50/60hz, 0-2 Ohms line resistance, 3 phase to single phase transformer .

7. Others and Requirements:

- The company should be **ISO** Certified
- The unit should be approved by **AERB**
- The company should have a local Service centre or Engineer
- The unit should be three - five years warranty from the date of installation and rate of CMC including X-Ray tube for five years to be submitted.



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