

Schedule of Quantity for Computerized X-Ray Unit

S. No.	Description	Quantity	Make & Full Specifications of items	Rates F.O.R. Destination		Taxes if any	Remarks
				In words	In figures		
1.	<p><u>Specification for Computerized X-Ray Unit:-</u></p> <p>High Frequency X-Ray Machine suitable for general Radiography.</p> <p>X-Ray Generator: High frequency x-ray generator having frequency of 25 KHz or more should be provided, Power output of generator should be 15 KW, Radiographic KV Range should be 40 to 120 KV, mA range (Rad.): 160mA - 300 mA) and Exposure time (Rad.) : 1ms to 3 sec or more.</p> <p>Control: Compact, soft feather Touch Control Panel having following functions & indications should be provided. Machine ON/OFF switch, Digital display of KV & mAs, KV & mAs increase and decrease switches, Tube focal spot selection switch, Bucky selection switch, Self diagnostic programme with indications for KV error, filament error & Tube's Thermal overload and Anatomical Programming radiography : 200 programmes or more.</p> <p>X-ray Tube: One No. Dual focus Rotating Anode X-Ray tube thermally protected having focal spot of 0.3 & 0.6 mm, Anode heat storage capacity of tube should be more than 200KHU and One No. Collimator with auto shut off facility should be provided.</p> <p>Power Pack: The generator is equipped with capacitors to store the energy which enables the machine to be used on 15 amps, 230 V single phase power supply. A dual action hand switch with retractable cord should be provided for Radiation Protection of Operator.</p> <p>Stand :</p> <ul style="list-style-type: none"> • The Spring Balanced Mobile Stand should be very light in weight with tube arm. • It should be very easy to maneuver and allows smooth movements of the tube head in vertical plane. Large wheels for easy mobility should be provided. • The stand should be designed for maximum maneuverability of the unit and should be able to achieve tube focus to floor distance of 75 inch and tube focus to tabletop distance of 46 inches. The equipment should occupy minimum floor area & should be capable to be taken through 	01 No.					

<p>elevators with ease.</p>						
<ul style="list-style-type: none"> • Lead lined cassette storage box should be provided for storing cassettes upto 14"x17" size. • The Entire Tube Arm can be Swiveled ($\pm 90^\circ$) for taking side\wise X-Rays without Moving the Machine. 						
<p>Power Requirement : The unit should be operable on 230V Single Phase, AC, 50 Hz, 15 Amps with line regulation of $\pm 10\%$. Line resistance < 0.4 ohms.</p>						
<p>Specifications of 65kwh (800 Ma) frequency X-Ray unit High frequency X-Ray machine suitable for general radiography. X-ray generator: High Frequency X-Ray Generator having frequency of 40KHz should be provided, Power output of generator should be 65KW, Radiographic RV Range should be 40 to 150KV in 1 RV/Step, mA Range (Rad.): 800mA or more, Exposure time (Rad.): 1ms to 3Sec or more, mAs Range (Rad.): 200mAs or more and Automatic Exposure Control (DEC) device should be provided in vertical bucky stand.</p>						
<p>Control: A compact, LCD Touch Panel having following functions & indications should be provided on the control panel, Machine ON/OFF Switch, Digital Display of KV & mAs, RV & mAs increase and decrease switches, Bucky Selection Switch, Self diagnostic Programme with Indications for Earth fault error, KV error, filament error & Tube's Thermal Overload, Anatomical Programming Radiography: 200 programmes or more and a dual action hand switch with retractable cord should be provided for Radiation Protection of Operator.</p>						
<p>X-ray tube : One no. Rotating Anode, having focal spot 0.6 & 1.2 mm, Anode heat storage capacity of the Tube should be more than 250KHU, One Pair of 10 meters H.V. Cable and one no. Multileaf Collimator with auto shut off facility should be provided.</p>						
<p>Tube stand: Floor to Ceiling Stand with Counter Balanced Tube Head (Rotatable ± 180 Degree), 360 Degree Rotatable; mounted on Floor Ceiling Rails for convenient movements is provided.</p>						
<p>Vertical bucky stand: Vertical Bucky Stand with oscillating Grid of Ratio 8:1. 85 lines should be provided, The Bucky should move up & down & is equipped with a stainless steel cassette tray and the stand should be floor-mounted type & can accommodate cassettes up to 14" X 17". The Bucky should be tilted in 6 steps of 15 degree Angle each for various Radiographs.</p>						
<p>Power requirement: The unit should be operable on 3 Phase, 400Volts AC 50Hz with line resistance less than 0.4 Ohms. Line Regulation $\pm 10\%$.</p>						

<p><u>Accessories:</u> Five (5) kilowatts, pure sine-wave intelligent UPS to support the CR system and give 1-2 hrs back up, Installation of Air condition machines for the CR unit, Cost of the 12 image phosphor plates (IPs), Lead gloves, aprons, goggles, thyroid shield etc., Positioning devices (essential item: perplex made positioning device for equine foot), At least two IPs of the following sizes needed :</p> <ul style="list-style-type: none">○ 14 x17 in. (35 x 43 cm)○ 12 x 15 in. (35 x 35 cm)○ 11 x 14 in. (28 x 35 cm)○ 10 x 12 in. (25 x 30 cm)○ 8 x 10 in. (20 x 25 cm)						
---	--	--	--	--	--	--

**Signature of the Tenderer
With Seal**

