Technical Specifications of High frequency mobile C-Arm Image Intensifier

SI. No	Parameter	Specification	
		System should be High Frequency Street C-arm machine providing excellent ideally suited for entry level surgery as orthopedics', trauma surgery and	image quality at low radiation, in many application fields such
1	X-RAY GENERATOR should have following:		
	Туре	High frequency 50 KHz	
Power Output		6.0 K.W or more	
	KV RANGE	40 to 110KVP or more.	
		Continuous Flouro scopy	
	Fluoroscopy mA	Flouro mA	0.1 to 4 mA or more
		High Definition Fluoroscopy mA	0.2 to 8 mA or more
	Radiography mA	80 mA or more	
2	CONTROL should have following	A very compact, soft touch control panel(APR) with 20 X 3 (column x rows) LCD display on which KV, radiography mAs, fluoro time, FmA, I.I ZOOM, Error inter lock for KV, filament, thermal are displayed on wide angle LCD. Console panel should have following functions & indications. • Anatomical programming for radiography of 4 body parts (up to 8 programmes). • Selection of Continuous/multi pulse/single pulse fluoroscopy. • Machine ON/OFF switch. • I.I magnification(I.I field) selection switch • "Emergency flouro". • Flouro and Radio mode selection. • In built radio timer that enables to select mAS from 0.1 to 300 in 25steps for radiography • Fluoroscopy timer (Five minute cumulative timer with buzzer that activates after the completion of 300seconds of exposure and to reinitiate the exposure reset switch should be provided.) • ABS (Automatic brightness Stabilization) selection for hands free operation. • KV and mAs increase and decrease switches. • X-Ray on switch with indicators. • Switches for up/down movement of "C".	
3	X-RAY TUBE HEAD should have following	Anode type: Rotating Anode Small focal spot: 0.3mm (Max. Power:- 5KW) Large focal spot: 0.6mm (Max. Power:- 17KW) Anode heat storage capacity: 250 KHU or more The X-Ray Tube Head should be thermally protected	

4	CCD CAMERA	High resolution compact CCD camera ½" size. Total pixels: 752(H) X 582(V) should be there.	
5	MONITOR	Two nos. 17" high resolution monitors along with a trolley.	
6	COLLIMATOR	Fix Type Collimator should be Provided.	
7	X-RAY IMAGE INTENSFIER should have following parameters:		
	Nominal entrance field size 23 cm (9")		
	Output image diameter 25mm		
	Field size(Three fields are Normal= 9"		
	available Normal,Zoom1 and	Zoom-1 = 6" Zoom-2 =4.5"	
	2001112)		
	Resolution	52Lp/cm	
8	C-ARM MOBILE STAND should have the following:		
	Focus to I.I distance	900mm or more	
	Rotational movement	±180°(with I.I safety lock)	
	Motorized Up/Down travel	430±10 mm should be Motor Driven	
	Horizontal Travel 210±10 mm Arc Orbital Movement 90° + 30°		
	"C" Depth	560mm or more	
	Wig Wag(Panning) movement ±12.5 °		
9	DIGITAL IMAGE MEMORY SYSTEMS:		
	Memory should be with the following features:		
	Feature of LIVE / PULSE / LIH		
	2. Averaging 1 to 16 frame		
	Contrast enhancement functions	on	
	Temp. & Permanent storage up to 100 frame Negative image feature		
	6. Zoom feature (x2 & x3)		
	 7. Mirror feature 8. Image rotation feature (Each step of 1º or 20º, User selection option) 		
	9. PEN drive provision		
	10. Keeps date & time 11. QUAD View		
	12. Image PANNING		
	13. PC connectivity through LAN	N port	
10			
10	VOLTAGE STABLIZER	2KVA Servo Voltage Stabilizer compensates the voltage fluctuations on line.	
11	POWER SUPPLY	230 AC (±10%), 50/60Hz, 15A, (model specific ±20%) or as per	
12	Other Requirement	voltage/frequency available, Single phase, Independent earthing. The unit should be AERB Approved.	
12	Other nequirement	THE WHILE SHOULD BE MEND Approved.	