



Notice Inviting e-Tender

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Supply and Commissioning of C arm X ray Machine in department of Urology at R.G. Kar Medical College & Hospital

(Submission of Bid through *online*)

2nd call of Bid Reference No.: WBMSCL/NIT-140/2025, Dated-18.02.2025

Bid Reference No.: WBMSCL/NIT-219/2025

Dated-20.03.2025

AMENDMENT-I

REVISED TECHNICAL SPECIFICATION High frequency mobile C-Arm Image Intensifier

SI No	Parameter	Specification
		System should be High Frequency 50Khz Microprocessor controlled C-arm machine providing excellent image quality at low radiation, ideally suited for entry level surgery in many application fields such as orthopedics', trauma surgery and UROLOGY
1	X-RAY GENERATOR should have following:	
	Type	High frequency 50 KHz
	Power Output	3.5 K.W or more
	KV RANGE	40 to 100KVP or more.
	Fluoroscopy mA	Continuous Flouro scopy

		Flouro mA	0.1 to 4 mA or more
		High Definition Fluoroscopy mA	0.2 to 8 mA or more
	Radiography mA	70 mA or more	
2	CONTROL should have following	<p>A very compact, soft touch control panel(APR 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.</p> <ul style="list-style-type: none"> Anatomical programming for radiography of 4 body parts Selection of Continuous/multi pulse/single pulse fluoroscopy. Machine ON/OFF switch. I.I magnification(I.I field) selection switch “Emergency fluoro”. Flouro and Radio mode selection. In built radio timer that enables to select mAS from 0.1 to 250 in 25 steps for radiography Fluoroscopy timer (Five minute cumulative timer with buzzer that activates after the completion of 300seconds of exposure and to reinitiate the exposure <i>reset</i> 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”. Emergency OFF Switch on the control panel 	
3	X-RAY TUBE HEAD should have following	<p>Anode type: Rotating Anode Small focal spot: 0.3mm Large focal spot: 0.6mm The X-Ray Tube Head should be thermally protected</p> <p style="text-align: center;"><u>OR</u></p> <p>Anode type: Stationary Anode Small focal spot: 0.6mm Large focal spot: 1.5mm or more The X-Ray Tube Head should be thermally protected</p>	
4	CCD /CMOS CAMERA	High resolution 1k x 1k compact CCD/CMOS camera ½” size	
5	MONITOR	Two nos. 19” high resolution monitors along with a trolley.	
6	COLLIMATOR	Fix Type Collimator should be Provided.	
7	X-RAY IMAGE INTENSIFIER should have following parameters:		
	Nominal entrance field size	23 cm (9”)	
	Output image diameter	25mm	
	Field size(Three fields are available Normal,Zoom1 and Zoom2)	Normal= 9” Zoom-1 = 6” Zoom-2 =4.5”	
	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)
	Up/Down travel	410±10 mm should be Motor Driven/actuator
	Horizontal Travel	210±10 mm
	Arc Orbital Movement	90° + 30°
	“C” Depth	630mm or more
	Wig Wag (Panning) movement	±12.5 ⁰
9	DIGITAL IMAGE MEMORY SYSTEMS:	
	Memory should be with the following features: <ol style="list-style-type: none"> 1. Feature of LIVE / PULSE / LIH 2. Averaging 1 to 16 frame 3. Contrast enhancement function 4. Temp. / Permanent storage up to 100 frame 5. Negative image feature 6. Zoom feature (x2 & x3) 7. Mirror feature 8. Image rotation feature (Each step of 1° or 20°, User selection option) 9. PEN drive provision 10. Keeps date & time 11. QUAD View 12. Image PANNING 13. PC connectivity through LAN port 	
10	VOLTAGE STABILIZER (INBUILT/EXTERNAL)	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 voltage / frequency available, Single phase, Independent earthing.
12	Other Requirement	The unit should be AERB Approved.
The bidder should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.		