Technical Specification of X-ray Machine 100 mA with Voltage Stabilizer

	Purchaser's Specifications	Bidder's Offer	Remarks
	X-Ray Machine 100 mA with Voltage Stabilizer	Oner	
	Manufacturer		
	Brand		
	Type/Model		
	Country Of Origin		
1	Description of Function		
1.1	X-ray unit is required to perform routine X-ray studies in the hospital.		
2 2.1	operational Requirements:		
3	General purpose X-ray machine 100 mA with fixed table.		
3.1	System Configuration		
0.1	X-ray machine 100 mA with fixed horizontal table, voltage stabilizer		
1	and with complete accessories.		
.1	Technical Specifications		
1.1	X-ray Generator:		
	Must be microprocessor controlled high frequency generator, output 6 KW are also as a few second seco		
	output of K w or above to give a constant output suitable for		
	radiography.		
	Compact soft touch control panel.		
	Machine ON/OFF switch.		
	Must have a digital display of mAs and kV and an electronic		
	timer.		
	• KV range: 40KV to 110KV.		
	mA range: 100 mA or more.		
	mAs range: Please specify mAs range.		
	Anatomical Programmable Radiographic (APR) mode shall be		
	available.		
	Self-diagnostic programmed with indicators for earth fault		
	error, Filament error. Tube head thermal arror ata		
	A dual action hand switch with retractable cord must be		
2	provided for radiation protection of operator		
4	X-ray Tube:		
	Rotating anode X-ray tube with dual focal spot & thermally protected (considering for the formal focal spot and focal spot and focal spot are for the focal spot and focal spot are		
	protected (specify focal spot sizes, smaller focal spot size will		
	oc preferable).		
3	• Collimator with auto shut off facility must be provided.		
,	Table:		
	Horizontal bucky table with floating table top with grid of 17 18 3/" 18 3/" 19 3		
	74 X 18 74, grid ratio of 8:1 1()3 lines or better must be		
	provided. The bucky tray must accent cassettes up to "14v17"		
TO COLON	Column Stand:		
	Tube stand from floor to ceiling must be provided.		
	Voltage Stabilizer for 100 mA X-ray machine for trouble free		
	operation;		
	• Capacity suitable to match the output of the X-ray machine.		
	The regulations of the output pre-set voltage must be		
	0.74		
	automatic.		
	 Must work for input voltage range of 100-290VAC single 		
	 automatic. Must work for input voltage range of 100-290VAC, single phase. Automatic cut-off time: between 2 to 4 seconds of input 		

(west.

इस्टिक्ल मुगाहिस्टिन्डेल

S.N.	o Specifications	Bidder's Offer	Remarks
	exceeding the high/ low limit.		
	• There must be a restart delay of 6 to 9 minutes after the cut- off.		
	Analogue meters included to provide readings for input		
	voltage as well as output voltage. Same meter can be used		
	with the help of a switch to indicate output and the input voltage as desired.		
	• Output voltage must be 220 V ±7%, 50 Hz.		
	• Stability of output voltage with temperature changes.		
	All transformers to be vacuum impregnated with high-class varnish, for reliability and long life.		
	• Provision for two outputs with combined 15/54		
	sockets to be provided, each are having 15/5A Sockets) with		
	power cable. There must be a quick start facility and in the start fa		
	instantaneously by bypassing delayed start.		
5	• Outer cabinet must be enamelled after proper anti rust process.		
5.1	Accessories, spares and consumables		
).1	Accessories:		
	 Lead apron lightweight with Lead equivalence 2mm t- 01no. Chest Stand, floor standing- 01 no. 		
.2	All standard accessories consumplies and		
	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication		1
	materials, to be included in the offer. Bidders must specify the quantity		
	of every item included in their offer (including items not specified		
	above).		
	Operating Environment		
.1	The system offered shall be designed to operate normally under the		
	conditions of the purchaser's country. The conditions include Power		
	Supply, Climate, Temperature, Humidity etc		
.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The		
	power cable must be at least 3 metre in length.		
3	Suitable voltage stabilizer as specified above must be provided		
	Standards and Safety Requirements		
1	Must submit ISO13485 for Medical Devices AND		
2	CE (93/42 EEC Directives) or USFDA approved product certificate		
3	Shall meet:		
	• IEC 60601-1-3 - Part 1: General Requirements for safety -		
	Collateral Standard: General Requirements for Radiation		
	Protection in Diagnostic X-Ray Equipment		
	• IEC 60601-2-7 - Part 2-7: Particular Requirements for the		
	Safety of High-Voltage Generators of Diagnostic X-Ray		
	Generators.		
	User Training		
	Must provide user training (including how to use and maintain the equipment).		
	Warranty		
	Comprehensive warranty for 2 years after acceptance.		
	Maintenance Service During Warranty Period		
1	During the warranty period supplier must ensure preventive		
	maintenance and corrective/breakdown maintenance when we have		
1	maintenance and corrective/breakdown maintenance whenever		

wert





S.N.	Purchaser's Specifications	Bidder's Offer	Remarks
	required.		
11	Installation and Commissioning		
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.		
12	Documentation Documentation		
12.1	User (Operating) manual in English.		
12.2	Service (Technical / Maintenance) manual in English.		
12.3	List of important spare parts and accessories with their part number and costing.		
12.4	Certificate of calibration and inspection from factory.		

wert

Er. Umesh Kumar Cl. tudhary NEC No.: 162-Biom ral A



A SOM WILLIAM