

Shankarapur Municipality
Technical Specifications for High Frequency X Ray machine, 400mA or more

S. N.	Purchaser's Specifications	Yes/ No	Page no in catalog	Remarks
	X Ray machine 400mA or more			
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	Description of Functions			
1.1	A general purpose X-Ray machine 400mA or more with output power of 30kW or more.			
2	Operational Requirements			
2.1	It shall operate on three phase mains electrical supply.			
3	System Configurations			
3.1	400mA or more X Ray imaging system, 1 unit.			
3.2	X-Ray High Voltage Tank, 1 unit			
3.3	Dual Focus Rotating X Ray Tube 400mA or more, 1 unit			
3.4	4 way floating X Ray Table, 1 unit			
3.5	Floor to Ceiling Stand, 1 unit			
3.6	Chest Stand, 1 unit			
3.7	Standard Accessories, 1 Set			
4	Technical Specifications			
4.1	X Ray Generator: 400mA or more, 125KVP, 30kW or more, full wave rectified x-ray generator for radiography suitable for single tube operation.			
4.2	KV range: 40 to 125 KVP. mA range: at least 400mA <ul style="list-style-type: none"> • Soft touch key operations • Anatomical Programmable Radiographic mode shall be available. 			
4.3	High Voltage Transformer: Compact heavy duty transformer comprising HV silicon rectifiers, HT transformer, filament transformer, federal bushings all immersed in high dielectric strength transformer oil.			
4.4	X Ray Tube: 1 No. Dual focus rotating anode X-Ray tube having following focal spots: (Bidder to provide technical datasheet for the same) Small Focus: 1.0mm Large Focus: 2.0mm Rotating anode with anode speed greater than or equal to 2800rpm Anode Heat Storage Capacity: 200KHU or more.			
4.5	Electronic overload protection of tube, HV cable and HT tank is			

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	needed.			
4.6	Collimator: Light beam collimator for centering and radiation protection is needed.			
4.7	Floor to Ceiling Stand (FC Stand): Floor to ceiling stand and with counter balanced tube head (rotatable ± 180 degree) 360 degree rotatable; mounted on floor ceiling rails for convenient movements.			
4.8	4-way floating table and chest stand suitable for x-ray examination should be provided. Cassette: 8 X 10 to 14 X 17 should be provided			
5	Accessories, Spare Parts and Consumables			
5.1	Lead apron - 1No. Thyroid shield - 1No. Spare fuse set - 2No. Halogen lamp - 2No. High Voltage cable - 1 pair (at least 6meters)			
6	Operating Environment			
6.1	Power supply: 350-440 VAC, 50Hz three phase supply.			
6.2	Suitable Voltage Stabiliser should be supplied with the machine.			
7	Standards & Safety Requirements			
7.1	Must submit ISO 9001: 2008, ISO13485: 2012 for Medical Devices AND			
7.2	CE or USFDA approved product certificate.			
8	User Training			
8.1	The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by user.			
9	Warranty			
9.1	Comprehensive warranty for 2 years to be provided			
10	Maintenance Service During Warranty Period			
10.1	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
11.1	Supplier must accomplish proper installation & commissioning of equipment onsite.			
12	Documentation			
12.1	User (Operating) manual in English.			
12.2	Service (Technical / Maintenance) manual in English must be provided.			
12.3	List of important spare parts and accessories with their part number and costing.			
12.4	Certificate of calibration and inspection from factory.			
12.5	Valid manufacturer's authorization letter must be submitted			