X-ray Machine- 300mA					
S.N.	**Purchaser's Specifications**	**Bidder's Compliance Sheet**			
1	X-ray Machine 300mA	Yes	No	Page No. in Catalogue	Remarks
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
2	**Description of Function**				
2.1	A general X-ray machine 300mA with fixed height table.				
3	**Operational Requirements**				
3.1	It shall be suitable to be used for adult and pediatric patients in general radiography examination and it shall operate on single phase AC power supply or three phase AC power supply.				
4	**System Configuration**				
4.1	X-ray Generator, 1unit				
4.2	Control Console, 1unit				
4.3	Radiography patient table, 1unit.				
4.4	Floor mounted tube stand & X-ray tube, 1unit				
4.5	Bidder shall indicate brand and model information here and provide technical data document for all major components specified above.				
5	**Technical Specifications**				
5.1	**X-ray Generator**				
	Should have Microprocessor based, line frequency inverter generator.				
	300 mA - 125 KVP – full wave rectified – two pulse –X- ray Generator.				
	Generator output: not less than 24 KW.				
	Radiographic voltage range: 30 - 125KV with 1KV adjustment..				

	Radiographic mA rating: 50 - 300mA in 10 steps.				
	mAs range: 0.01 - 500 mAs				
	Electronic Timer with timing range 0.01 sec to 10.0 sec. in 24 steps.				
	Anatomical Programmable Radiographic mode shall be available.				
	Automatic Exposure Control shall be available				
	Overload protection device shall be provided.				
	Power supply: Single phase 220-240V 50/60Hz or 3 phase, 380-415V 50/60Hz.				
5.2	**X-Ray Tube**				
	X-ray tube rotating: +/-180°.				
	Rotating Anode X-ray Tube with Dual Focus having focus not more than 1.0 mm and 2.0 mm focal spots.				
	Maximum tube voltage 125 KV. Maximum tube output shall match with the generator output of not less than 24 KW.				
	Anode heat capacity shall not be less than 140 KHU.				
	Anode rotating speed: not less than 2500 rpm				
5.3	**CONTROL Unit:** - Push to ON/OFF Switches. - Voltmeter to indicate Input Voltage. - mA meter to indicate TUBE Current. - Digital Display of mA, KVP, mAs& Time (Sec.) - Voltage Compensator for compensation of Input Voltage. - Tube Overload Protection circuitry. - Major & Minor KVP Selection Switches for Radiography. - Time Selection Switch. - Indicators for Line ON, Ready, X-Ray ON, & Bucky ON. Error Indicators for Overload, Rotator Interlocking. - A Dual action Hand switch should provide on the Panel with retractable cord for radiation				
5.4	**Collimator**				
	Manually adjustable.				
	Light localizer, lamp with timer				
	Built-in light switch should be provided				

	Light source: Halogen lamp				
5.5	**Radiography Patient Table:**				
	5 Postion Manual operated Multi position with motorized Bucky & Ratio 8:1,85 Lines/inch Grid				
	The bucky should be compatible with standard size cassette.				
	Table top should be a carbon fiber top at least 220 cm (length) and 80 cm (width)				
	Table top height (from ground) to be at least 65cms				
	Table top material to have low radiation absorption.				
	It should have a weight bearing capacity of 200kg or more				
	Should provide a complete set of X-Ray Chest-Stand.				
6	**Accessories, spares and consumables**				
6.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.				
6.2	Accessories: • Lead apron-01 no				
7	**Operating Environment**				
7.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.				
7.2	**Power supply:** 220 – 240 VAC, 50Hz Single Phase or 380-415VAC 3 phase 50Hz fitted with appropriate plug for X-ray generator fitted with appropriate plug for other units. The power cable must be at least 3 metres in length				
8	**Standards and Safety Requirements**				
8.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND				
8.2	Must submit CE (93/42 EEC Directives) or USFDA approved product certificate				
9	**User Training**				
9.1	Must provide user training (including how to use and maintain the equipment).				

10	**Warranty**				
10.1	Comprehensive warranty for 2 years.				
10.2	Maintenance Service During Warranty Period				
10.3	During the warranty period supplier must ensure corrective/breakdown maintenance whenever 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**				
12.1	User (Operating) manual in English.				
12.2	Service (Technical / Maintenance) manual in English.				
12.3	Certificate of calibration and inspection from factory.				

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.