Technical specification of portable x-ray machine, 100MA with single probe.

Purchaser: Tulsipur Sub Metropolitan city, Tulsipur, dang

Medical equipment : portable x-ray machine , 100 MA with single probe.

Quantity: 1

S.N.	Office Requirement
1	Description of Function
1.1	Portable X-ray unit for undertaking X-ray studies at the point of care (Operation Theatre, Casualty, Wards) when it is not safe or practically it is difficult to transfer the patient to the x-ray department.
2	Operational requirements
2.1	The unit shall be lightweight and easy to carry from one place to another. The X-ray machine works on mains electric supply or Diesel Generator.
3	System Configurations
3.1	Portable X-ray machine, 100mA with complete accessories.
4	Technical Specifications
4.1	The portable X-Ray machine shall becompact, high output, easily transportable onsite.
4.2	The system shall be solid state type with inbuilt HT generator.
4.2	X-ray Generator:
4.2	Must be microprocessor controlled high frequency generator.
	Output not less than 8 kW at nominal power rating
	Soft touch key operations.
	It shall have a digital display of mAs and kV and an electronic timer.
	KV range:40kV to 110kV
	• mA range: 100mA or more.
	Exposure time : 0.01 to 5 sec
	mAs range : 0.1 to 200 mAs
	Anatomical Programmable Radiographic (APR) mode shall be available.
	Bidder shall provide details of total power consumptions
4.3	
4.3	X-Ray Tube: Stationary Anode tube
	Heat storage capacity : approx.70 to 80 KHU
	Focal spot 1.2/1.4 mm or better.
	Collimator:
	Manually adjustable multileaf collimator, rotatable ±90°
	Manually adjustable mutiliear commator, rotatable ±90 Built in time switch
	Halogen lamp
4.4	X-Ray Stand
	Height adjustable approx: 180 cm
	Light in weight, easy to carry
	It shall have back and forth movement of X-ray unit Standard Market Marke
	Stand shall have four castor wheels and it shall be easily assembled and disassembled
	onsite.
	Effective breaking system with rotation in all direction.
4.5	Exposure with remote control shall be available.
4.6	Shall have cassette storage facility with 4-6 cassettes of all sizes.
4.7	The X-ray unit shall have over current protection.
4.8	Portable X-ray carrying case:
	Robust and compact size

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	Water and dust resistant construction
	Military grade case
	contract have handle on all side for ease of transport
	 Case must have handle on all side for ease of which the case of t
	Bidder shall provide separate case for each part of X-Ray machine so that carrying from one
	1 - I - I - I - I - I - I - I - I - I -
	In addition to above bidder shall also provide one case able to fit entire X-Ray machine
	Accessories, spares and consumables
.1	Lead protective screen: 01 no.
.2	I I all lightweight: 02 nos
5.3	identic 9.1 or better with 60 to 70 gridines per cm of bellet.
5.4	
).4	shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical
5.5	All standard Maintenance tools and cleaning /lubrication materials where applicable shall secure included. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications
	Operating Environment
6	cc 1 -k-11 he designed to operate normally linder the collutions of the
6.1	purchaser's country. The conditions include Power Supply, Chinate, Temperature, Training,
	Power supply: 220 – 240 VAC, 50Hz fitted with 5m automatic retractable power cable for
6.2	easy connection to any wall outlet with protective ground conductor.
7	Standards & Safety Requirements
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND
	CE (93/42 EEC Directives) or USFDA or BIS approved product certificate.
7.2	Shall meet:
7.3	150 (000) 1.2 Part 1: General Requirements for safety - Collateral Standard:
	Description Protection in Diagnostic A-Ray Equipment.
	IEC 60601-2-7 - Part 2-7: Particular Requirements for the Safety of High-Voltage
	• IEC 60601-2-7- Part 2-7: Particular Requirements for the same y
	Generators of Diagnostic X-Ray Generators.
8	User Training The Supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall conduct user training for this equipment to enable operators to use the supplier shall be supplied to the supplier training to the supplier shall be supplied to the supplier training
8.1	The Supplier shall conduct user training for this equipment to enable equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.
9	Warranty
9.1	Comprehensive warranty for 2 years after acceptance.
10	Mariatanana Comica During Warranty Period
10.1	During the warranty period supplier must ensure preventive maintenance and
	corrective/breakdown maintenance whenever required.
11	The state of the s
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified of 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	G - i - (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.

