	X-ray Machine- 500mA				
S.N.	Purchaser's Specifications (Phaktanglung rural mun FY:81/82) Bidde	r's Com	pliance She	et
1	X-ray Machine 500mA	Yes	No	Page No. in Catalogue	
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
2	Description of Function		T		
2.1	A general X-ray machine 500mA, floor to ceiling X-ray machine				
3	Operational Requirements	1	1		
3.1	It shall be suitable to be used for adult and pediatric patients in general radiography examination and it shall operate three phase AC power supply.				
4	System Configuration				
4.1	X-ray Generator, 1unit				
4.2	HV tank and Control Console, 1unit				
4.4	Floor mounted tube stand & X-ray tube, lunit				
4.5	Table	†			
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				
	The generator must be suitable for 500 mA at 100 KVP.				
	Generator output: not less than 40KW.				
	KVp Range (Rad):40 to 125KVP in Steps of 1 KVP each				

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	Electronic Timer with timing range 0.01 sec to 5.0 sec.			
5.2	X-Ray Tube		1	
	Rotating anode X-Ray tube			
	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 40 KW.			
	Anode heat capacity shall not be less than 140 KHU.			
	Anode rotating speed: not less than 2700 rpm@50Hz		1	
	Tube filtration not less than 2.4mm AL equivalent.			1
5.3	CONTROL Unit: Attractively designed Control Panel having the following functions & features for Radiography, Fluoroscopy and Spot filming:			
	Push to ON/OFF Switches			
	Voltmeter to indicate Input Voltage			
	mA meter to indicate Tube Current			
	Digital Display of KVP and mAs			
	Voltage Compensator for compensation of Input Voltage			
	Tube Overload Protection circuitry			
	Major and Minor KVP Selection Switches for Radiography			
	Technic Selection Switch for tube current			
	Time Selection Switch			
	Bucky IN / OUT selection switch			
	Space charge compensation			
	Indicators for Line ON, X-Ray ON, Overload and Bucky ON			
	Switches for Ready and X-Ray ON			
	A Dual action Hand switch shall be provided on the Panel with			
	retractable cord for radiation Protection			
	OR Digital Control			
5.4	X-Ray Examination Table	 -		
	Stain resistant table top with SS tray.		-	-
	Cassette 14" x 17", grid size 17 1/4 x 18 7/8" Ratio 8:1, 85 lines per inch.			
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5.5	Safety features		
	Automatic trip off overload circuit breaker with indicator shall be provided		
	Electronic overload protection with simultaneous protection from high input voltage, KVP, mA and Time		
5	Accessories, spares and consumables		
5.1	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.		
5.2	Accessories		
	· Lead apron		
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: Three Phase power supply ± 10% Line regulation.		
1	Standards and Safety Requirements		
1.1	Must submit 1SO13485: 2016	 	
3.2	Must submit CE 93/42EEC or USFDA approved pain certificate		
3.3	The product should be approved by AERB and BIS		
)	User Training	 	
0.1	Must provide user training (including how to use and maintain the equipment).		

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10	Warranty		
10.1	Comprehensive warranty for 1 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.		
123	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.



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Technical Specification Computed Radiography (CR) System

S.N.	Purchaser's Specifications (Phaktanglung rural mun FY:81/82)		Bidder's Compliance Sheet				
	Computed Radiography (CR) System	Yes	No	Page No. in Catalogue	Remarks		
-	Manufacturer						
-	Brand						
	Type / Model						
	Country of Origin						
1.	Description of Function		T				
a.	Radiography system to replace conventional		1		1		
-	Film/Screen based X-Ray processing techniques with PhotostimulablePhosphor Plate technology to						
2	obtain digital X-ray images. Operational Requirements		+		-		
2.			+	-	+		
a .	The system shall be able to record X-Ray images on Imaging Plates (IP)						
b.	Convert these images from the IP into digital values and transfer these values to an image evaluation computerwith predefined Image Processing Parameters. Both CR System and Printer must be from same manufacturer.						
3.	System Configuration						
3.	Image Reader system: 01						
ь.	Dry view imaging printer (film based), double tray type:01						
4	Technical Specifications		+				
4.1	Image Reader		+	-			
	IP processing rate minimum 40 films/hr or more		-	-	+		
a .	for 14 x 17 inches cassette.						
Ь.	Scanning mechanism to read, erase and process the images from the imaging plate. (IP)						
c.	Panel for indicating online status of the CR Reader in case of machine malfunction						
d.	Emergency Mode for accepting exposed cassettes withoutpatient demographics for casualty trauma workflow requirements						
e.	Verification of the connectivity status of configured image destination				-		
ſ.	Spatial resolution of digital image 6-10 pixels/mm.						
g.	CR System should have data acquisition of 16 bits or more						
h.	X-Ray Generator compatibility with reputed manufacturers.						
i.	CR system should have the capability of processing the cassettes both in standard and high-speed mode.						
j	Image matrix at standard resolution (14 x 17) -Approx. 3000 x 4000 Row x Column						
4.2	CR Workstation:			M	7		

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5.	Accessories, spares and consumables			T	
5.1	Accessories:				
a.	Computer				
b.	At least Latest model Computer having Intel i3 processor and 4 GB RAM and 19"LCD Monitor- 1 set				
c.	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.	Operating Environment				
a.	The system 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.				
b.	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug.				
7	Standards and Safety Requirements		1		
a.	Must submit ISO13485:2003/AC:2007 for Medical Devices AND				
b.	CE (93/42 EEC Directives) and USFDA approved product certificate				
8.	User Training				
a.	Must provide user training (including how to use and maintain the equipment).				
9.0	Warranty				
a.	Comprehensive warranty for 1 years after acceptance.				
10.	Maintenance Service During Warranty Period				
a.	During warranty period supplier must ensure preventivemaintenance & corrective/breakdown maintenance whenever required				
11.	Installation and Commissioning				
a.	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.				
12	Documentation				
a.	User (Operating) manual in English				
b.	Service (Technical / Maintenance) manual in English.				
c.	Certificate of calibration and inspection from factory.	-			
d.	Must submit the valid authorization letter				

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.

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