

Technical Specification of Computed Radiography (CR) System

S.N.	Purchaser's Specifications	Bidder's Offer		
		Yes / No	Ref Docs Page No.	Remarks
	Computed Radiography (CR) System			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	Description of Function			
1.1	A Computed Radiography (CR) System with Single Tray Printer can be used in any X-ray System as Retrofit solution for easy operation. compact and affordable imaging solution that maintains the superior image quality and reliability.			
2	Operational Requirements			
2.1	It shall be suitable to be used for adult and pediatric patients in general radiography examination including Portable mode for ICU.			
3	System Configuration			
3.1	Computed Radiography (CR) Scanner :1Unit			
3.2	Processing Server and Workstation:1 Unit			
3.3	Single Tray Laser printer:1 Unit			
3.4	Online UPS			
4	Technical Specifications			
	Computed Radiography (CR) Scanner			
4.1	Should have Processing capacity: Up to 60plates/hr.			
4.2	Should have Sampling pitch: 2types :87.5µm/175µm			
4.3	Should have Digital gradation level:4096 levels (12bit)			
4.4	Should have Maximum Resolution:4,020×4,892(14"x17")			
4.5	Should have Slots: Insertion/ejection slot x1			
4.6	Should provide Cassette of size 14"x17": 2 Set 8"x10":2 Set			
5	Main Console and Image Station All-in-one console			
5.1	The main console shall be of 22'' high quality monitor for viewing radiological images.			
5.2	The main console PC shall have 256GB SSD, 8GB RAM.			
5.3	The main workstation/console shall have multi patient viewing and printing features.			
5.4	The main console shall have option for viewing each part in a conventional way.			
5.5	The main console shall have facility of image editing such as magnification, masking, cropping			
5.6	The main console shall have facility to export image in BMP, JPEG, Avi format on DICOM and non DICOM.			
5.7	The main console shall have CD/DVD burning facility.			
5.8	Shall have features to edit images and print multiple images on single film.			
5.9	Shall have features to measure image measurement and angular measurement Orthopedic Tool.			
5.10	Bone Suppression Image technology			
5.11	Shall have image filter to enhance image quality.			
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5.12	Should have RIS/PAC connectivity.			
5.13	Should have Multiple exposure for long length			
5.14	Should have Realism Image Processing.			
5.15	The software automatically should apply the most suitable image processing, even if			

	the operator does not select an exposed body part from the menu			
5.16	Must have Image stitching facility.			
5.17	Must be able to update from CR to DR in same software (in necessary condition).			
6	Single Tray Laser Printer			
6.1	High quality image with Printed pixel size 78um or better.			
6.2	Film size 14x17inch, 10x12inch, 8x10 inch			
6.3	FEEDER Sheet-feeder unit, L magazine (for compatible14*17inch size) S magazine (for compatible 10x12inch, 8x10 inch size)			
6.4	Performance (max.)14x17inch: Approx. 45sheets/hour or better			
7	Accessories, Consumables			
7.1	100 Sheets film or more = 1 packet			
7.2	CR Cassette & Image Plate: 14"x17": 2 Set , 8"x10":2 Set			
7.3	Online UPS30 min backup.			
7.4	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. Bidder's must specify the quantity of every item included in their offer (including items not specified above)			
8	Operating Environment			
8.1	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.			
9	Standards and Safety Requirements			
9.1	The unit should ISO Certified Company, CE marked to European medical devices directive or USFDA Certificates must be valid.			
10	Warranty			
10.1	Should have 2 year complete parts Warranty from the date of complete installation (delivery & installation of machine of all the items as per tender) & 2 year of free service warranty after the completion of comprehensive warranty.			
11	Maintenance Service during Warranty Period			
11.1	During warranty period supplier must ensure corrective/ breakdown maintenance whenever required including two mandatory visit/year for preventive maintenance.			
11.2	Should be able to replace / loner facility must be made available if machine doesn't going to be functioning for more than 15 Days.			
12	Training			
12.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment's as well as routine checks and maintenance expected by users.			
12.2	Onsite repair & maintenance training and operational training to the hospital's Radiographers and End-users.			
14	Installation &Commissioning			
	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites or installation to be communicated to the purchaser's in advance in details.			
13	Documentation			
13.1	The machine supplied should be brand new with the date of manufacture mentioned and the country of origin should be clearly mentioned.			
13.2	The bidder must submit a valid authorization from the manufacturer.			
13.3	One (hard and soft) copy of service & operating manual in English for each set should be provided at the time of installation.			

13.4	The Supplier must submit the original brochure or e-copy			
13.5	The supplier should fill the technical tender form and clearly mention the Manufacturer, Type/Model, and Country of Origin, else technically will be disqualified.			
13.6	The principle company should be responsible of fulfilling warranty/guarantee, in case local authorized agent is not able to achieve the same. The commitment letter of the same should be attached.			
13.7	Scanner, Printer should be from principal manufacturer of quoted unit and bidder must submit the supportive documents.			
13.8	All the spare parts and consumable for the CR with price should be submitted separately. The price should not vary during the warranty period of the machine. Bid will be disqualified, if above list is not submitted.			
13.9	Bidder should guarantee the available of spare parts for at least 10 years from the date of installation. Manufacturer Commitment letter should be attached. Bid will be disqualified, if not submitted.			

