COMPUTED RADIOGRAPHY SYSTEM					
S.N.	**Purchaser's Specifications**	**Bidder's Compliance Sheet**			
1	CR System	Yes	No	Page No. in Catalogue	Remarks
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
2	**Description of Function**				
2.1	Radiography system to replace conventional Film/Screen based X-Ray processing techniques with Photostimulable Phosphor Plate technology to obtain digital X-ray images.				
3	**Operational Requirements**				
3.1	It shall operate on AC power supply.				
4	**System Configuration**				
4.1	Computed Radiology must be a state of the art system manufactured by a reputed brand or manufacturer adhering to following specifications. CR system should broadly comprise of following modules/ components. i. Image reading system (reader/ digitizer) ii. Image processing workstation iii. Dry image printer (Film printer) and other standard accessories listed below.				
5	**Technical Specifications**				
5.1	The system shall be able to record X-Ray images on Imaging Plates (IP).				
5.2	Operationally and functionally equivalent to and better than the present film based system.				
5.3	Must record Patient Identification data and anotation on the image.				
5.4	Retrieve and reproduce accurate, high quality high resolution images from stored data without loss of image quality.				

5.5	Shall have Read and Write facility in CD/DVD for data Storage and review.				
5.6	**Image reader (CR reader/ digitizer)**				
	Should have automatic Scanning mechanism to read, erase and process the images from the imaging plate. (IP)				
	The CR reader / digitizer should be able to process 60 image plates/hr or more of 14x17 inch size.				
	Gray scale resolution: CR reader / digitizer should have a minimum resolution of 12bits/ pixel for images sent to CR processing station.				
	Mechanism for accepting exposed imaging plates without patient demographics, for Casualty/ Trauma workflow requirement.				
	Mechanism for Re-routing the newly acquired images to the preconfigured CR workstation.				
	Capability of retrieving (Service intervention) at least last 10 scanned images, as part of contingency plan.				
5.7	**CR Workstation:**				
	Accept images form CR Reader without any loss of data.				
	Capable of Archiving & Printing selected image to a standard DICOM destination.				
	Multi-function console with quality assurance (Main Workstation)				
	High resolution 17” or more LCD Monitor				
	Image Manipulation/Post Processing Software.				
	Multi Patient Viewing and Printing				
	PIP (Picture in Picture) option for viewing each part in a conventional way.				
	Exporting images in BMP, JPEG, and AVI Formats on DICOM & NON-DICOM.				
	CD/DVD burning facility.				

	Should have following special features on Work station software a. Image post processing b. Windows leveling c. Annotation d. Area of interest Zoom e. Magnification f. Flipping & panning g. Automatic exposure correction h. Pre view software I. Edge enhancement stepwise j. Contrast/ Brightness adjustment l. The system should have software to perform full leg/Full spine/long body imaging/imaging stitching.				
5.8	**Dry Imaging Printer.**				
	Single Tray Option and should be capable of Any Film Size Printing Option with changing Tray.				
	The system must have a dry imager.				
	Pixel Size less than 100 Micron.				
	The system must be able to print at least 40 films/ hr of the largest size.				
	It must be DICOM compatible allowing multiple modalities to be connected at a time.				
	The imager should support daylight loading of films.				
	The imager must have minimum spatial resolution of 500 DPI.				
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	CR Cassette & Image Plate: · 10” x 12” = 2 pcs · 14” x 17” = 2 pcs				
6.3	Mini PACS system to transfer the Image from radiology department to doctors room.				
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 fitted with appropriate plug.				
8	**Standards and Safety Requirements**				
8.1	This unit shall be certified to meet ISO 9001 and/or ISO 14971 and/or ISO 13485:2003/AC: 2007. AND				
8.2	Must submit TVU CE Certificate 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. (written document)				
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.