## Technical Specification Flat Panel digital detector (Digital Radiography)

S. N.	Purchaser's Specifications (Sadananda Mun FY:2081/82)	Bidder's Compliance sheet			
	Flat Panel digital detector	Yes/No	Page no.in	Remarks	
	Manufacturer				
	Brand				
	Type/Model				
	Country of Origin				
1	Operational Requirements				
	Flat Panel digital detector with work station should be provided. It shall be suitable for adult and pediatric patients in general radiography examination.				
	The flat panel detector should be wired and Wireless both.				
	DR Workstations with fully integer Sedated console for image acquisition, processing, viewing and archiving. Maintain and manage data bank of all patient and image data.  Retrieve and reproduce accurate, high-quality high-resolution images from stored data without loss of image quality.	2.51.			
2	System Configurations				
	Detector:01				
	Imaging Workstation:01				
	Dry view imaging Laser printer: Double tray (film based):01				
3	Technical Specifications				
	Flat Panel Detector:				
	Flat Panel digital detector with work station should be provided. It shall be suitable for adult and pediatric patients in general radiography examination.				
	The Flat Panel should be a Retrofit Solution and capable to work with any of the X-Ray available in Department.				
	Detector Panel shall be made of amorphous Silicon with CsI or similar modern technology detector				
	Automatic Exposure Detection.				
	Image Matrix Size Approx. 3000*3000 Pixel or more				
	Flat Panel Detector Size of at least 43X43 cm				

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The detector should be a second of the detector of the detecto			
including bettery			
Spatial resolution of 3.5 LP/mm or better			
The Pixel size: 140µ or lesser			
Battery Backup: Minimum 5 Hours or more			
polymer battery.			
processor, latest operating system, Latest model processor, RAM – 4GB, HDD – 500GB, latest windows 10 32/64bit. Display Monitor: at least 21" size			
Manipulation/Post Processing Software facility for patient identity entry, viewing and processing images,			
should be available			
Imaging Printer (film based):			
The system must have at least two online film sizes, and should be capable to print on any of the 8" x 10", 10" x 12", 14" x17" sizes.			
Printer should have dry Laser image Technology, compatible with DICOM and PACS without loss of information, allowing multiple modalities to be connected at a time.			
DICOM Compatible			
Docked in processor.			
Resolution > 500 DPI.			
Contrast: 14-bit contrast resolution or more.			
	Imaging Workstation:  Workstation shall have core i5/i7 with high speed processor, latest operating system, Latest model processor, RAM – 4GB, HDD – 500GB, latest windows 10 32/64bit. Display Monitor: at least 21" size  Operating console must have STANDARD Image Manipulation/Post Processing Software facility for patient identity entry, viewing and processing images, documentation.  DICOM work list, DICOM Print, DICOM Storage should be available  Imaging Printer (film based):  The system must have at least two online film sizes, and should be capable to print on any of the 8" x 10", 10" x 12", 14" x17" sizes.  Printer should have dry Laser image Technology, compatible with DICOM and PACS without loss of information, allowing multiple modalities to be connected at a time.  Throughput: 70 films or more  DICOM Compatible  Docked in processor.	Spatial resolution of 3.5 LP/mm or better.  The Pixel size: 140µ or lesser  Should have a minimum image depth of 16 bit.  Preview time after exposure 5 sec or less.  Storage Capacity: 100 images or more  Battery Backup: Minimum 5 Hours or more.  Point load Capacity: 180 kg or more  The Detector should have replaceable Lithium Ion or polymer battery.  Water Resistance: IPx or better  Imaging Workstation:  Workstation shall have core i5/i7 with high speed processor, latest operating system, Latest model processor, RAM — 4GB, HDD — 500GB, latest windows 10 32/64bit. Display Monitor: at least 21" size  Operating console must have STANDARD Image Manipulation/Post Processing Software facility for patient identity entry, viewing and processing images, documentation.  DICOM work list, DICOM Print, DICOM Storage should be available  Imaging Printer (film based):  The system must have at least two online film sizes, and should be capable to print on any of the 8" x 10", 10" x 12", 14" x17" sizes.  Printer should have dry Laser image Technology, compatible with DICOM and PACS without loss of information, allowing multiple modalities to be connected at a time.  Throughput: 70 films or more  DICOM Compatible  Docked in processor.  Resolution > 500 DPI.  Multiple Image and slide printing capability.	Spatial resolution of 3.5 LP/mm or better.  The Pixel size: 140µ or lesser  Should have a minimum image depth of 16 bit.  Preview time after exposure 5 sec or less.  Storage Capacity: 100 images or more  Battery Backup: Minimum 5 Hours or more.  Point load Capacity: 180 kg or more  The Detector should have replaceable Lithium Ion or polymer battery.  Water Resistance: IPx or better  Imaging Workstation:  Workstation shall have core i5/i7 with high speed processor, latest operating system, Latest model processor, RAM — 4GB, HDD — 500GB, latest windows 10 32/64bit. Display Monitor: at least 21" size  Operating console must have STANDARD Image Manipulation/Post Processing Software facility for patient identity entry, viewing and processing images, documentation.  DICOM work list, DICOM Print, DICOM Storage should be available  Imaging Printer (film based):  The system must have at least two online film sizes, and should be capable to print on any of the 8" x 10", 10" x 12", 14" x17" sizes.  Printer should have dry Laser image Technology, compatible with DICOM and PACS without loss of information, allowing multiple modalities to be connected at a time.  Throughput: 70 films or more  DICOM Compatible  Docked in processor.  Resolution > 500 DPI.  Multiple Image and slide printing capability.

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6 Acc	essories, Spare Parts and Consumables	
	standard accessories, consumables and parts	
	pired to operate the equipment, including all	
	dard tools and Extra batteries for detector with	1
1	arger, to be included in the offer. Bidders must	
1 -	cify the quantity of every item included in their	
	er (including items not specified above).	
	erating Environment	
	system offered shall be designed to be stored and	
	operate normally under the conditions of the	
	chaser's country. The conditions include Power	
	oply, Climate,	
	nperature, Humidity, etc.	
	wer supply: 380-415VAC 3 phase 50Hz fitted with	
	propriate plug for X-ray generator and 220 - 240	
	C, Single phase 50 Hz, fitted with appropriate	
	g for	
	er units.	
	andards & Safety Requirements ast submit ISO 13485:2003	
	st submit CE (93/42 EEC Directives) AND USFDA approved	
	duct certificate For Detector.	
	standard accessories, consumables and parts	
rea	uired to operate the equipment, including all	
sta	ndard tools and cleaning and lubrication materials,	
to	be included in the offer. Bidders must specify the	
qua	antity of every item included in their offer (including	
	ms not specified above).	
9 <b>Us</b>	ser Training	
	the state of solutions have to use and	
	ust provide user training (including how to use and	
	aintain the equipment).	
	arranty	
	omprehensive warranty for I year.	
Th	ne bidder must perform PPM every 6 months during	
the	e warranty period.	
	laintenance Service During Warranty Period	
Di	uring warranty period supplier must  Maintenance &corrective/breakdown	
	maintenance whenever required.	
M	Innufacturer shall commit the availability of spare	
Da	arts and consumables and accessories for at least 3	
ye	ears.	
12 Ir	nstallation and Commissioning	
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	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.		
13	Documentation		
	User (Operating) manual in English.		
	Service (Technical / Maintenance) manual in English.		
	List of important spare parts and accessories with their costing.		

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