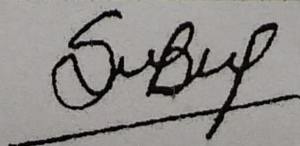


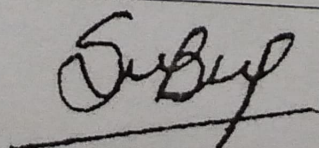
Technical Specification of Digital Flat Panel Detector (DR) System

S.N.	Purchaser's Specification	Bidder's Offer
	Digital Flat Panel Detector (DR) System	
	Manufacturer:	
	Brand:	
	Model No:	
	Country of Origin:	
1	Digital Flat Panel Detector (DR) System	
1.1	The Flat Panel Detector directs digital radiography unit (portable type) for general purpose radiology examinations. It should be a retrofit solution and capable to work with any of the X-ray available in the hospital.	
1.2	Flat Panel Detector with work station should be provided. It shall be suitable for adult and pediatric patients in general radiography examination.	
2	System Configuration	
2.1	Flat Panel Detector System	
2.1.1	Direct Deposit Cesium Iodide (CSI): TI Scintillator	
2.1.2	The most advanced CSI direct-deposition technology ensures excellence of image quality at low X-ray dose and improves operation safety	
2.1.3	Should incorporate Automatic Exposure Detection Technology.	
2.1.4	Portable approx. 14x17 inches size detector	
2.1.5	The detector should be light weight (less than 4 Kgs)	
2.1.6	The Pixel pitch should be equal to or less than 140 microns	
2.1.7	Should have a spatial resolution: 3.5 LP/mm (lines per millimeter) or better	
2.1.8	Image matrix size: 3072 pixels X 2560 pixels or better	
2.1.9	Image acquisition time should be less than 2-4 sec	
2.1.10	Should have a minimum image depth of 16 bits or more.	
2.1.11	Data communication should be wireless and wired connection powered by Power Box using single Interface Cable and Gigabit LAN Cable.	
2.1.12	The Detector should have Detachable Li-ion Polymer Technology battery and should be provided with one extra battery along with battery charger.	
2.1.13	The Battery Charger should have facility to charge at least two batteries simultaneously.	
2.1.14	The detector connectivity should be both wireless and wired.	
2.1.15	The Detector should be able to withstand surface load of 130kg or more	
2.1.16	The Detector should have Anti-spill design - all gaps fully sealed by rubber ring.	
2.1.17	The Detector should have built-in foldable handle for easy and safe transport.	
2.1.18	Detector Panel must incorporate 1-Shot Calibration technology for fast initialization. The Detector should be pre calibrated with Calibration data must be stored in Detector. There should be no requirement for calibration even if PC is changed.	



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2.1.19	Software should have DICOM & PACS connectivity as a standard feature	
2.2	Image Station <ul style="list-style-type: none"> • Branded Laptop – i5 Latest Gen or Latest model processor, • RAM – 8GB, SSD – 500GB, • OS Window 10 Pro 64 bit or Latest • Display: At least 15" size Full HD • External Monitor: At least 24" size Full HD LED Monitor 	
2.3	Image Manipulation/Post processing Software: <ul style="list-style-type: none"> • Image post-processing, such as image transformation, including inversion, flip vertically/horizontally, rotation, etc. • Multi patient viewing and printing. • Image Magnification • Cropping and masking of images (standard software) • Distance measurement and Angle • Exporting images in JPEG and DICOM 	
3	Accessories and spare parts and consumables	
3.1	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. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
4	Operating Environment:	
4.1	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.	
4.2	Power supply: 220–240V AC, 50Hz fitted with appropriate plug type. The power cable must be at least 3 meter in length	
5	Standards and Safety Requirements:	
5.1	Must submit ISO13485:2003/AC:2007, CE (93/42 EEC Directives) and USFDA approved product certificate for Flat Panel Digital Detector	
6	User Training:	
6.1	Must provide user training (including how to use and maintain the equipment).	
7	Warranty:	
7.1	Comprehensive warranty for 2 years after installation.	
8	Maintenance Service During Warranty Period:	
8.1	During the warranty period supplier must ensure preventive and Corrective/breakdown maintenance whenever required.	
9	Installation and Commissioning:	
9.1	Supplier must accomplish proper installation and commissioning of the equipment on site.	
10	Documentation:	
10.1	User (Operating) manual in English	
10.2	Service (Technical/ Maintenance) manual in English	



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