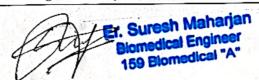
Technical Specification of Digital Flat Panel Detector (DR) System with Dry Thermal Imager

Bidder's Offe

| N.     | Purchaser's Specification   | Bidder's Offer      |
|--------|---|---------------------|
|        | Digital Flat Panel Detector (DR) System   | relikou idilikkasie |
|        | Manufacturer:   |                     |
|        | Brand:  |                     |
|        | Model:  |                     |
|        | Country of Origin:  |                     |
| 1      | Digital Flat Panel Detector (DR) System   |                     |
| 1.1    | Description of functions:   |                     |
|        | 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  |                     |
|        | Direct Deposit Cesium Iodide (CSI): TI Scintillator   |                     |
| 2.1.1  | Direct Deposit Cestuii Iodide (CSI). If Belletides  |                     |
| 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 Full-Field Automatic Exposure Detection (F2AED) Technology   |                     |
| 2.1.4  | Portable approx. 14x17 inches size detector   |                     |
| 2.1.5  | The detector should be light weight (less than 4 Kgs)   | CARL BANK           |
| 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   |                     |
| 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  |                     |
|        | Should have a minimum image depth of 16 bits or more.   |                     |
| 2.1.10 | 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 three 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 150kg or more  | e                   |
| 2.1.16 | The Detector should have Anti-spill design - all gaps fully sealed by rubber ring.  |                     |
| 2.1.17 | 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. |                     |



| 2.1.19 | Software should have DICOM & PACS connectivity as a standard feature   |                  |
|--------|--|------------------|
| 2.1.20 | Must have dedicated Mobile App to be used without Workstation in case of emergency.  |                  |
| 2.2    | Workstation: Should be supplied with the following configuration:  • Branded CPU – Intel i5 or Latest model processor,  • RAM – 8GB, SSD – 500GB,  • OS Window 10 Pro 64 bit or Latest  • Display: At least 22" size Full HD LED Monitor   |                  |
| 2.3    | Image Manipulation/Post processing Software:   |                  |
| *      | <ul> <li>Image post-processing, such as image transformation, including inversion, flip vertically/horizontally, rotation, etc.</li> <li>Multi patient viewing and printing.</li> <li>Image Magnification</li> <li>Cropping and masking of images (standard software)</li> <li>Distance measurement and Angle</li> <li>Exporting images in JPEG and DICOM</li> </ul> |                  |
| 3      | Accessories and spare parts and consumables  |                  |
| 3.1    | Single Tray Medical Dry Thermal Film Printer should be provided.   | Swith Purit      |
| 3.2    | Printer should have dry thermal imager technology, compatible with DICOM without loss of information, allowing multiple modalities to be connected at a time.  |                  |
| 3.3    | Processing capacity should be more or equal to 90 sheets/hour of 8*10 inches film size and 70 sheets/hour of 14*17 inches film size  |                  |
| 3.4    | Film Sizes: 8"x10", 10"x12", 11"x14", 14"x17"  |                  |
| 3.5    | 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 for Medical Devices for Flat<br>Panel Detector   |                  |
| 5.2    | Must submit European CE (93/42 EEC Directives) from European Commission notified body with the Notified body number for Flat Panel Detector  |                  |
| 5.3    | Must submit USFDA approved product certificate for Flat Panel Detector   |                  |
| 6      | User Training:   |                  |
| 6.1    | Must provide user training (including how to use and maintain the equipment).  | 3 m              |
| 7      | Warranty:  |                  |
| 7.1    | Comprehensive warranty for 2 years after installation.   |                  |
| 8      | Maintenance Service During Warranty Period:  | y the company he |



| 0.2 | During the warranty period supplier must ensure preventive and Corrective/breakdown maintenance whenever required.       |  |
|-----|--|--|
| 9   | Installation and Commissioning: Supplier must accomplish proper installation and commissioning of the equipment on site. |  |
| 10  | Documentation: User (Operating) manual in English Service (Technical/ Maintenance) manual in English                     |  |

Ex Suresh Maharjan Biomedical Engineer 159 Biomedical "A"