

# SPECIFICATION FOR COMPUTER RADIOGRAPHY SYSTEM-KOTA HOSPITAL

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Ref  
22/12

1.)

## Major Parameters:

### **Computed Radiography (CR Reader/ Digitizer)**

- System must be approved by FDA for General Radiology and mammography application and must be CE marked
- System should be capable of scanning 65 plates/hour or more of 14X17 size & should be capable of processing all 5 sizes of cassettes.
- System must be floor stand solution and must be Single slot scanner.
- System must offer the capability to read plates 35x35 and 35x43 cm with pixel pitch less than 90 microns in high resolution and at low resolution less than 175 microns
- System should have 50 micron or less resolution for mammography scanning.
- System should be able to do long length imaging and OPG and Imaging plates must be RIGID/Dual Side scanning type.
- Gray scale resolution for image acquisition must be 16 bit and display should be at least 12 bit
- Cassettes and imaging plates must be available in various sizes and should be capable for Vertical LLI.
- System should have auto associate facility with bar code reader for cassette identification and should have rigid plate Technology .
- System should have touch screen high resolution monitor and should support mouse also.
- Cassettes to be supplied, 14x17 – 2 Nos, 10x12 – 1 Nos, 08x10 – 1 Nos.

## **Workstation & Software**

- System must be able to acquire worklist from existing HIS/RIS, be capable of burning patient images on CD/DVD and able to remove grid lines also capable of running a QA/QC test to verify performance.
- Console Monitor should be LED/Touch Screen.
- Additional work station to be provided for printing also available Advanced measurement tools such as lengths, angles .
- Image processing algorithms should be based on multi frequency processing type.
- Software should automatically mask the area outside the collimation.
- Software should reduce the noise interference in low exposure imaging.
- Software should be capable of manual adjustments of the masked area should be possible.
- System must be capable to connect to PACS through Dicom Store.
- System must be capable to print to dry laser printers through Dicom Print.
- System should be capable of doing free angular rotation of images.
- System is fully compliant with Storage Commitment requirements
- Capability to customize the procedures and create customized views
- Manual stitching capability must be available as well
- System must be capable to export images to media such as USB, CD Rom etc
- System must be capable of importing images into the database from various media type such as USB sticks, CD rom etc
- System must allow to create annotations on images and should offer a multi format printing also the capability to crop images, zoom and print
- System has the capability to connect to existing RIS/HIS system and communicate through HL7 protocol



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## **Imager/ Camera:**

- System must deliver its first film within 80 seconds from the request sent and should be Mammography compatible.
- Printer must be Laser technology
- Printer Should Have three online supply trays or draws and each draw/tray should accomadate all sizes of films with out mechanical intervention.
- Printer must be able to print all the following international standard films sizes 8X10,10X12,11X14 and 14X17 without mechanical alteration
- Printing resolution must be 650 dpi/ppi standard for all type of DICOM image printing.
- Printer must use day light film box loading technology and Printer should have -Catridge can be utilized without removing the cover also any tray can be used for any size of films.

## **Accessories(Turnkey)**

- Suitable UPS with minimum 15 minutes backup.

## **Cassettes & Imaging Plates:**

Size 11\*14in-2 no

Size 8\*10 in-2 no.

Size 14\*17in-1 no

## **Films(Catridge)**

Size 11\*14in-250 Sheet

Size 8\*10in-250 sheet

Size 14\*17in-125 sheet

Additional Specialty Software / hardware if any Should be quoted separately quoted as a optional.

## **2.) Minor Parameters: NIL**

## **3.) Special Condition:**

- Offered system must be USA, FDA & CE approved.
- Firm should have high reputation in national/international market for more than 10 years.
- Firm should given the nameand address of institution where similar unit is supplied in last 3 year.
- Firm should give the purchase order of similar unit supplied for verification of rates
- Warrenty required is 2 years
- CMC/AMC rates should be given for five year after expiry of warrenty period.
- Name of local or nearest service centre should be given for after sales service
- Inspection of similar unit supplied may be required before purchase

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**Schedule-"B"**

**To be submitted by firm along with offer:-**

<b>Supplier Name:-</b>	
<b>Basic Rate( in Rs):-</b>	
<b>ED:-</b>	
<b>CST:-</b>	
<b>Freight:-</b>	
<b>All inclusive Rate:-</b>	
<b>AMC charges:-</b> For 1 <sup>st</sup> Year after expiry of warranty. For 2 <sup>nd</sup> Years after expiry of warranty. For 3 <sup>rd</sup> Years after expiry of warranty. For 4 <sup>th</sup> Years after expiry of warranty. For 5 <sup>th</sup> Years after expiry of warranty.	
<b>Total Cost (Inclusive of AMC charges):-</b>	

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**Signature of the firm**



**Annexure-II**

**To be submitted by the firm along with offer.**

Tender specification	Specification quoted by the firm	Deviation if any with clarification