

Specification for Computed Radiography System-Kota Hospital

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1.) Major Parameters:

Computed Radiography(CR Reader/ Digitizer)

- System should be capable of scanning 65 plates/hour or more of 14X17 size
- System should be capable of processing all 5 sizes of cassettes.
- System must be approved by FDA for General Radiology and mammography application.
- System must be CE marked.
- System must be floor stand solution
- System must be Single slot scanner
- Imaging plates must be RIGID/Dual Side scanning type
- 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 able to do long length imaging and OPG
- Gray scale resolution for image acquisition must be 16 bit and display should be atleast 12 bit
- Cassettes and imaging plates must be available in various sizes
- System should have auto associate facility with bar code reader for cassette identification
- 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
- System should be capable for Vertical LLI
- System should have rigid plate Technology

Workstation & Software

- Console Monitor should be LED/Touch Screen.
- Additional work station to be provided for printing
- 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 must be able to acquire worklist from existing HIS/RIS.
- System must be capable of burning patient images on CD/DVD.
- System must be able to remove grid lines.
- System must be capable of running a QA/QC test to verify performance.
- 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
- System must make available Advanced measurement tools such as lengths, angles.

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- System should offer a multi format printing
- System offers the capability to crop images, zoom and print
- System has the capability to connect to existing RIS/HIS system and communicate through HL7 protocol

Imager/ Camera:

- Printer must be Laser technology
- Printer Should Have three online supply trays or draws
- 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.
- Any tray can be used for any size of films
- Printer should have -Catridge can be utilized without removing the cover
- System must deliver its first film within 80 seconds from the request sent.
- System should be Mammography compatible.

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



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- Warrenty required is 3 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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Annexure-II

To be submitted by the firm along with offer-

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