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No. F-8( ) RMSC/EPM/M-1/2019-20/NIB-465/ 4728

Dated: 08/09/2020

**CLARIFICATION/CORRIGENDUM/ADDENDUM**

**Subject: Amended technical specifications of bid document of item CR system- Single Plate Reader Type for Digital Radiography, under No. F-8( ) RMSC/EPM/M- 1/2019-20/NIB-465/3416 date: 27.01.2020**

In reference to subject cited above NIB-465, various representation received from the firms and issues raised by the bidder are examined by the competent authorities and technical committee. The following clarification/corrigendum/addendum is issued for inclusion in bid document of items as below:-

**1. Revised Technical Specification of CR system- Single Plate Reader Type for Digital Radiography:**

1. Digitizer (CR) system should have capacity to process 60 or more cassettes/films per hour for largest size 14" x 17"
2. Standard work station (Console) coupled with CR image storage capacity - at least 2000 images specify the numbers. It should have a resolution of 5 pixels/mm (Minimum ) for standard resolution cassette & up to 10 pixels/mm or more
3. Separate DICOM workstation in ultra modality with all processing facilities in a centralized reporting.
4. Other feature of CR system
  1. Image post processing.
  2. Window leveling
  3. Annotation
  4. Area of interest Zoom
  5. Magnification
  6. Flipping & panning
  7. Automatic exposure correction
  8. Pre view software
  9. Edge enhancement stepwise
  10. Contrast/ Brightness adjustment
  11. Shuttering / ROI Finder
  12. Application related software like Pediatric should be available- The system should have software & hardware to perform full leg/Full spine/Long Body imaging/ imaging stitching
  13. DICOM Print
  14. DICOM image output to network workstation
  15. Grid Pattern removal software & noise compression processing
  16. Gray Scale reversal
  17. Rotation
  18. Image preview time 25 to 60 Sec.(For large image)
  19. System should be fully compliant with DICOM 3
  20. Automatic cassette identification.
5. **Dry Laser camera with at least two or more film size on line 14" X 17", 11" X 14"/ 14" X 14", 10" X 12" & 8" X 10".**
6. Contrast spatial / Reading resolution 10 pixel / mm or more constant high resolution in all sizes. True size printing should be possible from reader console.  
Automatic exposure correction & facility for maneuvering reading sensitivity manually.  
Gamma curves for multiple object intensity processing.  
Registration & cassette identification should be possible to be done before & after the exposure (Pre / Post registration)
7. Specification for Laser Camera
  - 4) Mention Spatial resolution higher level preferable minimum 500 DPI/PPI
  - 5) Mention Gray Scale resolution : more than 12 bits preferable



- 6) Mention processing capacity/hour for (14" x 17") films, it should have at least 70 films/Hour
8. **Acceptable film size:** 14" X 17", 11" X 14"/ 14" X 14", 10" X 12" & 8" X 10" etc.
  3. Online film sizes: At least 2 film size or more.
  4. DICOM compatible.
9. CR workstation should have following feature:
  1. Multiple image printing with multiple formats.
  2. Measurement of image, insert scale.
  3. Preloaded annotation.
  4. DICOM CD writing & reading.
  5. Image inverse, image flipping, image magnification, zooming.
  6. Addition of patient's photograph on image.
  7. Reporting format
  8. Image preview
  9. Image cropping
  10. Printing multiple patient on one film
  11. CD writing for multiple patient on one CD
  12. Should have a hard disk of 80 GB or more for storing image
10. Please provide cassette for CR with PSP Plate (IP)- 14" X 17", 11" X 14"/ 14" X 14", 10" X 12" & 8" X 10" four nos. of each size.
11. Suitable online UPS more than 30 minutes backup for whole system.

**OTHER REQUIREMENTS:**

- **Guarantee:** Three years on whole system including CR, imaging screens, cassette, and camera from date of installation.
- **CMC:** CMC shall be given @ 5 % of net rate (inclusive of GST) and yearly escalation of 5 % on last year's CMC price. The CMC may be awarded for five years (on yearly basis) after Guarantee period of three years.
- Please provide rates of CR x-ray film- 14" X 17", 11" X 14"/ 14" X 14", 10" X 12" & 8" X 10" etc (As per requirement of BF-4).The rates of all size film frozen for next 5 years.
- Quoted model should be USFDA/European CE approved. (valid documentation should be submitted in technical bid)
- The company should submit technical compliance sheet as per technical specifications mentioning the make & model of quoted item in the Technical bid .
- The company should have a local Service center.
- Installation will be done by supplier free of cost.
- The Company should submit original catalogue and data sheet (signed & stamped) of quoted item at the time of bid submission. Any declaration/ undertaking in this regard shall not be considered.


**Other terms and condition to be covered during guarantee period by the supplier:-**

- Response time- < 48 Hours after logged the complain in complain portal.
- Service hours- As per health facility schedule.
- Preventive Maintenance Schedule (PM)-As per OEM (Mention PM Schedule)
- Calibration Schedule – As per OEM (Mention Schedule)
- Up time- 95% (365 Days)
- Technical & Application Support, Demonstrations & Trainings - As & when required
- Toll Free No-
- Life of the equipment- As per OEM



It is also clarified that information of award of contract shall be communicated to all participating bidders on the website [www.rmssc.nic.in](http://www.rmssc.nic.in) and [sppp.raj.nic.in](http://sppp.raj.nic.in). Please note that individual bidder will not be intimated.”

**Note:-** Please note that all above amendments/corrigendum in technical specifications/bid conditions is the integral part of (Section-V, Schedule of Supply, and Point no. 3) and the bid document. This corrigendum/ addendum should be signed and annexed with bid document. All other terms & conditions remains the same.

  
Executive Director (EPM)  
RMSCL, Jaipur