



Corrigendum
for
Digital X-ray (flat panel Radiography unit with two Flat
panel detectors) for the Department of Radiology

NIT Issue Date	: 20 th July, 2020
NIT No.	: Admn/Tender/31/2020-AIIMS.JDH
Pre-Bid Meeting	: 30 th July, 2020 at 03:00 PM
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Bid opening	: 17 th November, 2020 at 03:15 P.M

The following revised and additional specification will be added:-

1. Page No 12, Point 9. Accessories, para 7:

For:

9B. Network attached storage (NAS) system (Synology or better platform) with internal hard disk having following specifications. The system would be used to store and retrieve DICOM data for studies done in emergency as well as main department

- Minimum driver bay: 6
- Internal raw storage capacity: (14 TB x 6= 84 TB)
- Expandable capacity: upto 224 TB (quotes for further expansion must be provided for future perusal of expansion of memory)
- Minimal requirement - Quad core 2.1 Ghz CPU or more
- 4 GB DDR4 expandable upto 32 GB
- External port: 2x USB 3.0port
- Hot swappable drive: Yes
- LAN: 2 x Gigabit or more
- Internal hard disk of reputed company (14 TB x 2) for storage (7200 RPM or more, 6GB/s or more)

Read as:

9B. Image management system with following components: The system would be used to store and retrieve DICOM data for studies done in emergency as well as main department An image management system that supports storage of DIOCM images to manage archival and distribution of clinical and academic images should be quoted.It should have the following specifications:

- The system should be able to connect to DICOM modalities in the network for DICOM-STORE, DICOM-SEND and DICOM-Q/R of CR, DR,CT MRI DICOM images .
- It should be able to distribute images and reports across the hospital network using wavelet compression through a simple and user friendly web client. The web client should give read only access to images and reports with basic functions which include zoom, pan, window level adjustment, rotate image and measurement tools as a minimum.

- c) The system should have access control to prevent unauthorised usage of the system.
- d) The system should have 84 TB online storage with RAID 5 configuration and should support up to 50000 studies. It should also support archiving of images on any kind of media like DVD, NAS, and external HDD etc. The operating system must be Windows 2008 server minimum.
- e) It should allow creation and management of ing DICOM Modality worklist for all DICOM compliant modalities in the network.
- f) The radiologist should be able to access the system from his reporting room for viewing and managing the teaching files and clinical images. A clinical grade monitor with 2MP resolution must be provided to radiologists for viewing. It should also have advanced measurement tools for scoliosis (Lipman Cobb angle), coxometry etc. It should have facility to create text reports using MS WORD or DICOM SR for the studies and store it along with studies.
- g) The radiologists' viewer must have all post processing tools like pan ,zoom, window level, measurements, annotations, flip/rotate, ROI measurement, cine viewer, invert, 2D and 3D image processing as minimum.
- h) The system should allow exporting of images in DICOM, JPEG and AVI file formats from the user interface based on access control rules. It should also have DICOM CD /DVD burning feature with embedded Dicom Viewer.
- i) The system must be DICOM 3.0 and HL7 complaint. It should support Dicom Modality work list management. It should also be IHE complaint for the following profiles CPI, PDI, PIR, SWF, ARI.
- j) It should have an easy to use interface for DICOM printing with WYSIWYG feature.
- k) Suitable UPS back up must be provided for 15 minutes backup for the whole system
- l) Additional specialty software /hardware if any should be quoted separately as optional.
- m) Regulatory approvals :The system must have approval of CE /FDA.

Image Management Server specifications:

- a) **Processor** - Xeon 2.0 GHz.(HP/Dell or equivalent)
- b) **RAM** - 16 GB(expandable upto 32GB)
- c) **HDD** - HDD with min. 1TB(expandable upto 16 TB) capacity, in RAID 5 configuration as min.
- d) **Power Supply** - Dual Power Supply.
- e) Suitable Recovery software for hardware to be quoted as required.
- f) Hardware from international reputed vendor.

Specifications for NAS Storage :

Network attached storage (NAS) system (Synology or better platform) with internal hard disk having following specifications.

- a) Minimum driver bay: 6
- b) Internal raw storage capacity: (84 TB)
- c) Expandable capacity: upto 224 TB (quotes for further expansion must be provided for future perusal of expansion of memory)
- d) Minimal requirement - Quad core 2.1 Ghz CPU or more
- e) 4 GB DDR4 expandable upto 32 GB
- f) External port: 2x USB 3.0port
- g) Hot swappable drive: Yes
- h) LAN: 2 x Gigabit or more
- i) Internal hard disk of reputed company (14 TB x 2) for storage (7200 RPM or more, 6GB/s or more)