software and all functionality of a standalone workstation (Dexus, Intelligence Portal, Syngo Via. Etc. or higher).

CONFIGURATION: 1 no. Server and 2 no.s clients/nodes to be provided at present. There should be a capacity to connect more nodes to the server as and when required (Please state the maximum number of nodes which can be connected to this server).

One (1) user license for each of the applications to be provided as a standard.

Hardware of Client / Node: CPU unit, minimum 32GB RAM, Medical grade monitor of 2MP resolution & size - 21" or more, mouse, keyboard.

Hardware of Server: The server (single/dual configuration) should have image storage capacity of at least 3 Tera bytes, minimum 20,000 concurrent slice processing power and at least 64 GB RAM. The processor should be 3.5 Ghz, octacore or above (or equivalent) with 21" TFT/LCD monitor. Please provide details of hardware configuration for server and clients offered. b. Licenses: 2 nos. of concurrent license here imply the capability to process all the loaded software to be accessible and usable on all the nodes/client simultaneously without any processing delay or any other limitation during simultaneous use.

/Nodes shall have the resolution, software and all functionality of a standalone workstation (Dexus, Intelligence Portal, Syngo Via. Etc. or higher).

CONFIGURATION: 1 (One) no. Server and 4(Four) no.s clients/nodes to be provided at present. There should be a capacity to connect more nodes to the server as and when required (Please state the maximum number of nodes which can be connected to this server).

Hardware of Client / Node: CPU unit, minimum 32GB RAM, Medical grade monitor of 2MP resolution & size - 21" or more, mouse, keyboard.

Hardware of Server: The server (single/dual configuration) should have image storage capacity of at least 3 Tera bytes, minimum 20,000 concurrent slice processing power and at least 64 GB RAM. The processor should be 3.5 Ghz, octacore or above (or equivalent) with 21" TFT/LCD monitor. Please provide details of hardware configuration for server and clients offered.

b. Licenses: Concurrent license here imply the capability to utilize the said licenses on equivalent number of clients simultaneously without any processing delay or any other limitation during simultaneous use.

8d

All necessary latest software including post-processing software (with calculation of all metrices available with the vendor) for all offered / purchased sequences including evaluation for resting brain fMRI, perfusion (T1 & T2*), diffusion, DTI with fiber-tracking, T1/T2 mapping, BOLD, metabolite mapping, CSF Flow analysis and other associated

All necessary latest software including post-processing software (with calculation of all metrices available with the vendor) for all offered / purchased sequences including evaluation for resting brain fMRI, perfusion (T1 & T2*), diffusion, DTI with fiber-tracking, T1/T2 mapping, BOLD, metabolite mapping, CSF Flow analysis and other associated post

Corrigendum No. 2 to tender reference no. BHU/RD&I/2020-21/001 dated 30.5.2020

Serial	Point no	Existing clause	Amended clause
no		As per corrigendum No. 1 dated 22.06.2020	
1	5. RF Coils	g. Body Phased array coils to offer atleast 32 Channels imaging in a coverage of 50 cm in Z-axis without repositioning. A combination of surface coil & spine coils would be acceptable.	g. Body Phased array coils to offer atleast 32 Channels imaging in a coverage of 45 cm or more in Z-axis without repositioning. A combination of surface coil & spine coils would be acceptable.
2	3D	d. Please specify the gradient Fidelity of your system (as defined in terms of peak instantaneous time integral of error between input and output over 100 EPI waveforms).	d. Please specify the gradient Fidelity/performance of your system and the method of measurement in details with substantiation indata-sheet.
3	4b	b. The system should have the best possible patient specific B1 homogeneity correction technology such as Multidrive/Multitransmit/Trueshape available with the vendor with no additional cost for this feature.	b. The system should have the best possible patient specific B1 homogeneity correction technology such as Multidrive/Multitransmit/ Trueform available with the vendor with no additional cost for this feature.
	5 e,f,i	e. High resolution knee coil 14 channels or more (rigid or flex type); Tx & Rx. f. Dedicated shoulder Coil of 16 Channel (rigid or flex type) - 1 no. i. Multipurpose flex coils of at least two sizes – Small and medium/large with 4 channel or more.	e. Dedicated high resolution knee coil 14 channels or more (rigid type); Tx & Rx. f. Dedicated shoulder Coil of 16 Channel (rigid type) - 1 no. i. Multipurpose flex coils of at least two sizes – Small and medium/large with 4 channel or more.
	8 a, b	a. Provide a CLIENT SERVER SYSTEM with 3TB storage & 20,000 concurrent slices as standard scope of supply along with equipment. Two (2) nos. of floating/concurrent user license to be provided for all applications. DICOM 3.0 compatibility and interfacing with other modalities must be possible. The Client /Nodes shall have the resolution,	a. Provide a CLIENT SERVER SYSTEM with 3TB storage & 20,000 concurrent slices as standard scope of supply along with equipment. Two (2) nos. of concurrent user license to be provided, for all applications (except fMRI for which 1 {one} license only is required). DICOM 3.0 compatibility and interfacing with other modalities must be possible. The Client

post processing like MIP, MPR, inter/intra-modality image fusion / subtraction software of any two of above (especially DTI with fMRI) surface reconstruction should be provided. Please provide step wise guideline videos & booklet of each post processing software at no added cost of a DVD. DTI and Tractography post-processing should include estimation of ADC, MD, FA (Lamda-parallel, perpendicular separately and combined), Fiber tracking, fiber statistics, and display of fiber tracks on anatomical image(s). Voxel-based morphometry for segmentation and quantification should be included. Facility for cross reference viewing over various sequences should be available as a standard. The vendors are free to offer a third-party software for any of these applications (if they do not have their own software) at no added cost with user license for entire period of warranty/CMC, to be installed

processing like MIP, MPR, inter/intramodality image fusion / subtraction software of any two of above (especially DTI with fMRI) surface reconstruction should be provided.

Please provide step wise guideline videos & booklet of each post processing software at no added cost of a DVD. DTI and Tractography post-processing should include estimation of ADC, MD, FA (Lamda- parallel, perpendicular separately and combined), Fiber tracking, fiber statistics, and display of fiber tracks on anatomical image(s). Voxel-based morphometry for segmentation and quantification should be included. Facility for cross reference viewing over various sequences should be available as a standard. The vendors are free to offer a third-party software for any of these applications (if they do not have their own software) at no added cost with user license for entire period of warranty/CMC, to be installed on one of the clients/nodes/computer terminal of the same configuration as client or node at no added cost.

Members of the Technical committee

The Director, I.M.S
The Dean, Faculty of Medicine, I.M.S.

Deptt. of Radiodiagnosis & Imaging, IMS

Prof. R.C Shukla, Prof. & Head of Department

on one of the clients/nodes.

Prof. (Dr.) Ashish Verma, Professor

Prof. (Dr.) A. N. D. Dwivedi, Professor

Dr. P.K. Singh, Assoc. Prof. -

or. P.K. Singh, Assoc. Prof.

Dr. Shivi Jain, Assoc. Prof.

Member Member

Dr. Ritu Ojha, Asstt. Prof.

Member

CHAIRMAN Member

- Member

Member

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External experts

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Dr. Anit Parihar, Professor, Deptt. of Radiology, KGMU, Lucknow - Sharma, Professor, School of BiomedicalEngineering, IIT, BHU- Men

Member

Neeraj

Dr. Ishan Kumar, Asstt. Prof. Deptt. of Radiodiagnosis-

Member Secretary

X John .