

Amendment No. 1**Sub: Amendment to the referred tender enquiry****Ref.: Tender Enquiry HITES/PCD/RIMS-IMPHAL/01-RT/RAD/18-19 dated 17/01/2019**

The following changes are being incorporated in the above referred Tender Enquiry Document.

Section VII
Technical Specification
Item Sl. No. 01
MRI-3T (on Buy Back Basis)

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Tender Ref: HITES/PCD/RIMS-IMPHAL/01-RT/RAD/18-19 Dated: 17.01.2019		
Schedule No. 01 - MRI 3 T On Buy Back Basis for RIMS Imphal		
Para	TENDER SPECIFICATION	READ AS
Page 50 Para 5.j	Shoulder coil – Rigid Shoulder Multi channel and (8 channels or more) flex loop – one each (large and small)	Shoulder coil: a. Dedicated rigid Shoulder coil – Multi channel - 1 No b. flex coils 4 channels or more – 2nos. (One large and one small)
Page 50 Para 5.k	High resolution knee coil 8 channels or more; Tx & Rx.	Dedicated knee coil with at least 15 channels
Page 51 Para 8. 1	<p>Workstation One thin client server to serve 2 concurrent licenses to be supplied with the system. Licenses: Concurrent license here implies the capability to process all the loaded software to be accessible and usable on all the 5 systems simultaneously without any processing delay. The software should also include reputed antivirus software of a perpetual type or renewed by the supplier. Hardware: Node: The vendor has to supply the hardware in the form of CPU and Medical grade monitor (18" or more; 2 megapixels or more resolution) for 2 nodes. Hardware 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 64GB RAM. The server hardware to be included with 18" or more TFT/LCD monitor with dual processor. DICOM 3.0 compatibility and interfacing with other modalities must be possible. The workstation shall have the resolution, software and all functionality of a stand-alone workstation</p>	<p>Workstation One thin client server to serve 2 concurrent licenses to be supplied with the system. Licenses: Concurrent license here implies the capability to process all the loaded software to be accessible and usable on all the 2 systems simultaneously without any processing delay. The software should also include reputed antivirus software of a perpetual type or renewed by the supplier. Hardware: Node: The vendor has to supply the hardware in the form of CPU and Medical grade monitor (18" or more; 2 megapixels or more resolution) for 2 nodes. Hardware 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 64GB RAM. The server hardware to be included with 18" or more TFT/LCD monitor with dual processor. DICOM 3.0 compatibility and interfacing with other modalities must be possible. The workstation shall have the resolution, software and all functionality of a stand-alone workstation</p>

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Page 54 Para f	Fat and water suppressed imaging sequences including the sequence which should give 4 contrast (in phase, opposed phase. FAT and Water) images in a single acquisition to be quoted as standard. EPI optimized sequences for T1, T2, PD imaging. perfusion, regular diffusion values {5b, 3 directions), EPI-FLAIR. CPI-IR, IPI-FLAIR diffusion tensor. EP1-MT-FLAIR, tensor diffusion (5b values in minimum in six directions) for diffusion studies. Suitable artifact/fat suppression techniques to be incorporated in the sequence to have optimum image quality. There should be capability of generation of ADC map (isotropic and anisotropy from the regular diffusion and tensor data). Facility of online generation of ADC map should be there. Optimized sequence package for special applications.	Fat and water suppressed imaging sequences including the sequence which should give 4 contrast (in phase, opposed phase. FAT and Water) images in a single acquisition to be quoted as standard. EPI optimized sequences for T1, T2, PD imaging. perfusion, regular diffusion values {5b, 3 directions), EPI-FLAIR. CPI-IR, IPI-FLAIR diffusion tensor. EP1-MT-FLAIR, tensor diffusion (5b values in minimum in six directions) for diffusion studies. Suitable artifact/fat suppression techniques to be incorporated in the sequence to have optimum image quality. There should be capability of generation of ADC map (isotropic and anisotropy from the regular diffusion and tensor data). Facility of online generation of ADC map should be there. Optimized sequence package for special applications. Small focus DWI should be standard
Page 56 Para 16.5	MRI Compatible Anaesthesia Machine with integrated Ventilator, 2 vaporiser, circle absorber	MRI Compatible (upto 3 Tesla) Anaesthesia Machine with atleast 8 inch screen and integrated electronic ventilator, 2 vaporiser, circle absorber
Page 56 Para 16.5.b	Software for ventilation should support Volume control, Pressure control and Pressure support modes.	Software for ventilation should support Volume control, Pressure control and Pressure support modes and advanced modes (SIMV and PRVT)
Page 57 Para 18.ii	Walk through Metal detector - 01 no	Deleted
Page 57 Para 18.iii	Walk through Metal detector with multiple sensor and multiple location LED (Zone IV type) - 01 no (to be installed at the entry door to the patient preparation area and must allow passage of patient trolley)	Walk through Metal detector with multiple sensor to help detect approaching ferro magnetic hazards and with door ignore function to be installed at entry door of MRI Scanner Room (Zone III type) - 01 no. It should have continuous detection without breaks.
Page 56 Para 16.6	One MRI compatible Multiparameter Vital Signs Patient Monitor of 5000 Gauss Compliance / 1.5 meter from isocentre compliance in MRI Room and One Slave monitor in console room with following modules provision to monitor the following	One MRI compatible Multiparameter Vital Signs Patient Monitor of 5000 Gauss Compliance / 1.5 meter from isocentre compliance in MRI Room and One Slave monitor in console room with following modules provision to monitor the following Monitor should be atleast 12" display
Page 57 Para 16.6.e	IBP Module two Nos.	IBP Module one No
Page 57 Para 16.6.h	Temperature (adult and pediatric)	Deleted

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Para	TENDER SPECIFICATION	READ AS
Page 61 Para f	i. Total capacity of the Air-Conditioning (duct-able + split) for the entire MRI scan centre area should be at least 25 TR.(incl. standby airconditioning) ii. Ductable package air conditioners and split AC units may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface. . The Air conditioning should be designed with standby provision to function 24 hours a day.a)	i. Total capacity of the Air-Conditioning (duct-able + split) for the entire MRI scan centre area should be at least 25 TR.(incl. standby airconditioning) with humidity control between 55-60 % RH ii. Ductable package air conditioners and split AC units may be used according to room requirement and suitability. Humidity control between 55-60 % RH should be effective to eliminate moisture condensation on equipment surface. . The Air conditioning should be designed with standby provision to function 24 hours a day.
Page 61 Para i.3	Broadband connection: for REMOTE SERVICE of MRI system.	Deleted

Added para:

LIST OF ITEMS AND SUGGESTED MANUFACTURERS.	
ITEMS	PREFERRED MAKES
FLOORING VITRIFIED TILES	Somany, Kajaria , H&R Johnson, RAK india
PAINT	Dulux, Asian Paints , Nerolac
PLUMBING	Kohler, Jaguar , Grohe , Roca
SANITARY ITEMS	CERA, Hindware, Parryware
ELECTRICAL	
CABLES	Finolex, Havells ,V-Guard
SWITCHES	Legrand, L&T, Crabtree , Roma
DISTRIBUTION BOX , MCB	Legrand, L&T, Siemens, Havels
LIGHT FITTINGS	Philips / Crompton / Wipro/Syska
AIR CONDINTIONING	Daikin, Hitachi, Blue Star, Voltas,
FURNITURE	Hermen Miller , Godrej , Featherlite,Geeken

Note: Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids