

**Amendment No. 2****Sub: Amendment to the referred tender enquiry****Ref.: Tender Enquiry HITES/PCD/RIMS-IMPHAL/01/RAD/18-19 dated 15/10/2018**

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

**Section VII  
Technical Specification**

The Technical specification has been changed and the revised specification is being incorporated in the above referred Tender Enquiry Document as below.

<b>MRI -3T (on Buy Back Basis)</b>		
<b>Tender Page &amp; Para</b>	<b>Tender Specification</b>	<b>Read as</b>
Page 2	Whole body 3.0 Tesla Magnetic Resonance Imaging system optimized for higher performance in cardiac and neurological examinations with short superconducting magnet, high performance gradients and digital Radio frequency system. The system should have 32 channels RF system. The system should be totally new, latest and should not contain refurbished or having recycled items	Whole body 3.0 Tesla Magnetic Resonance Imaging system optimized for higher performance in cardiac and neurological examinations with short superconducting magnet, high performance gradients and digital Radio frequency system. The system should have 32 channels RF system. The system should be totally new, latest and should not contain refurbished or having recycled items. <b>Silent scanning (noise level &lt;80dB) to be enabled as standard</b>
Page 2 , point 1 k	Physiological signal display on Gantry	The vendor should quote model with physiological signal display on gantry if available.
Page No :- 3 Point 3,a	Activity shielded Gradient System with strength of at least 44 mT/m with slew rate of 200T/m/sec. Quote the minimum rise time at 44mT/m. The rise time should not be more than 250 micro sec. To reach the maximum gradient strength	Activity shielded Gradient System with strength of at least <b>44 mT/m at slew rate of 200T/m/sec to be achieved simultaneously for the same FOV &amp; preferably low linearity</b> . The rise time should not be more than 250 micro second to reach the maximum gradient strength.
Page 3 ,point 5,b	Neck phased array coil 8 channels or more	<b>Deleted</b>
page 4, point 5 f	Suitable Coil / Coil combination for Peripheral Angiography 32 channels or more; with coverage of 80cm or more	<b>Dedicated coil/coil combination</b> for peripheral angiography of 32 or more channel with coverage of 80cm or more. <b>Dedicated coil if available with vendor should be quoted. If not available, original product datasheet and an undertaking from OEM should be submitted</b>

MRI -3T (on Buy Back Basis)		
Tender Page & Para	Tender Specification	Read as
Page No 5 , point 8.1	One thin client server to serve 5 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: Out of the 5 concurrent licenses (software), 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.	One thin client server to serve <b>2 concurrent licenses</b> 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 of 2MP resolution for 2 nodes
Page No 5 , point 8.1	Hardware Server: The server (single/dual configuration) should have image storage capacity of at least 3 Tera bytes, minimum 40,000 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	Hardware Server: The server (single/dual configuration) should have image storage capacity of at least 3 Tera bytes, minimum <b>20,000 concurrent</b> 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
Page 11, point 16. 4	4A.MRI Compatible Pulse oximeter with MRI Compatible Adult & Paediatric Probes and Electrodes; Adult probe – 2 nos , Paediatric Probe – 2 nos), MRI compatible Dual IBP with stand. 4B. MRI Compatible Laryngoscope 2 sets ( 4 sizes of blade each for Neonatal, Paediatrics and Adult)	<b>Deleted.</b>
Page 11 Point 6	One 3T MRI compatible Multiparameter Vital Signs Patient Monitor 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 / <b>1.5 meter from iso centre compliance</b> in MRI Room and One Slave monitor in console room with following modules provision to monitor the following
Page 11 point 6 b	ECG	<b>wireless</b> ECG
Page 11 ,Point 6e	Two IBP – Pressure transducer with the MRI compatible stand.	<b>IBP Module two Nos.</b>
Page 11, point 6f	Oxygen saturation – Pulse oximeter with adult, paediatric probe, and neonatal probes - 2 sets (with the spare probes), Should have plethysmograph perfusion factor.	Oxygen Saturation- <b>wireless</b> Pulse oximeter with adult, paediatric probe, and neonatal probes - 2 sets (with the spare probes), Should have plethysmograph perfusion factor
Page 11 , point 7	MRI compatible infusion pump – 3 Nos.	<b>3.0T MRI</b> compatible syringe pump – 2 Nos

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Page 12, point 18	18. Metal detectors three in number, two of which are hand held.	<b>Metal detectors;</b> i. Hand held metal detector- 02 nos. ii. Walk through Metal detector - 01 no 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)
Page 16 ,point i.4	4 Dry chemical power type fire extinguisher of 5kgs capacity, with initial filling in brand new cylinder with power coated finish, fitted with Gun metal union, high pressure CO2 gas cartridge, discharge hose, wall mounting bracket etc. complete, confirming t IS:2171 of approved make & complete as directed by EIC.	4 Dry chemical power type fire extinguisher of 5kgs capacity, with initial filling in brand new cylinder with power coated finish, fitted with Gun metal union, high pressure CO2 gas cartridge, discharge hose, wall mounting bracket etc. complete, confirming t IS:2171 of approved make & complete as directed by EIC. <b>5 kg MRI compatible fire Extinguisher - 2 nos to be also supplied</b>
		<b>Added para in accessories:</b> MRI room Oxygen deficiency level monitor 1 no (price to be quoted separately)
		<b>Added para:</b> MRI compatible transport ventilator 1 no (Price to be quoted separately)
		<b>Added para in accessories:</b> MRI compatible wheel chair 1 no (Price to be quoted separately)

**All other contents of the tender enquiry including terms & conditions remain unaltered.**

**Note:**

- i. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids**