

Amendment No. 20**Date: 21.02.2024****Sub: Amendment No.20 to the Tender Enquiry Document****Ref: (i) Tender No: HITES/PCD/RML/01/MRI/23-24 Dated 23-06-2023****Section VII
Technical Specifications**

Post Amendment Representation		
Tender Ref: HITES/PCD/RML/01/MRI/23-24 Dated 23-06-2023		
1.5 Tesla MRI Machine under buy back basis (2023_HLL_158559_1)		
Tender spec Para	AMENDED SPECIFICATION	READ AS
viii	Shim System	
c	2nd Order/ Higher Order Shim coil should be standard with the system. Specify number of shim coils including higher order.	Deleted
3	Gradient System	
3.i.a	Actively shielded gradient system in X, Y , Z planes. Minimum Gradient Strength should be 44 mT/m or more along each axis and a slew rate 200T/m/sec in each axis (with minimum rise time from 0 to 45 mT/m should be 225 μ s & from 0 to 44mT/m should be 220 μ s)	Actively shielded gradient system in X, Y , Z planes. Minimum Gradient Strength should be 44 mT/m or more along each axis and a slew rate 200T/m/sec in each axis (with minimum rise time from 0 to 45 mT/m should be 225 μ s & from 0 to 44mT/m should be 220 μ s). The slew rate for achieving the peak gradient strength of 44mT should be 200T/m/sec. The values should be actual and not the effective values.
4	RF Transmitter, Receiver, Coils :	
vi	Coils (in addition to the in-built body coil)	
4.vi.d	Body array coil / phased array coil with 46 channel imaging for maximum Z-axis FOV of 50 cm in combination with Spine by single or combination of anterior coils.	Body array coil / phased array coil with 32 channel/more , imaging for maximum Z-axis FOV of 50 cm in combination with Spine by single or combination of anterior coils.
4.vi.l	Flex coils - Large and Small for extremity imaging 16 channels or more.	Flex/Multipurpose coils - Large and small for extremity imaging 16 channels or more (1 No each)
6	Data Acquisition	
v	Neuro	
6.v.i	Simultaneous Multislice/Multiband Imaging for EPI & TSE/FSE sequences should be provided	Simultaneous multislice/multiband imaging for EPI. Fast spin echo or equivalent sequences should be provided. Advanced techniques for reducing the scan time in whole body imaging (AIR Recon DL/Deep Resolve/Smart speed/equivalent) should also be provided.