

**Reference - IFB NO : DME/MRI/241/2012/15699, Dated: 11/12/2012
Technical Specification (modified) after pre-bid meeting held on 21-12-2012**

SECTION V: TECHNICAL SPECIFICATION (MODIFIED)

DETAILED CONFIGURATION FOR A STATE OF THE ART 1.5 TESLA CLINICAL MRI SCANNER FOR F.A.A.M.C&H,BARPETA,ASSAM.		
Detailed Technical Specification:		
A	B	C
Sl.No.	PURCHASER'S REQUIREMENTS	Modifications
	Manufacturer :	
	Type & Model:	
	Country of Origin :	
1	Magnet	
c	The homogeneity of the magnet (in PPM) should be mentioned in relation to 10, 20, 30, 40 cm DSV	(in PPM) to be included
2	Shim System	
b	Specify the minimum time for auto-shim(global and voxel shim) of the magnetic field with patient in position. Advanced high order (second order) shim must be incorporated as standard.	The strikethrough portion should be omitted
3	Gradient System	
4	RF SYSTEM	
b	It must have at least minimum of 32 independent <u>digital</u> RF receiver channels with each having bandwidth of 1 MHz or more along with necessary hardware to support Quadrature/CP array /Matrix coils.The highest receiver channels available with the vendor should be quoted.	Digital included
5	COIL SYSTEM	
h	Suitable coil for peripheral angiography application.	
m	<u>Loop flex</u> coil-large & small.	Please read as Flexible coil
5	PATIENT HANDLING SYSTEM	
a	Computer controlled patient table (suitable for whole body) movement in vertical and horizontal direction. Patient table should have facility for moving table angiography.	(suitable for whole body) included
f	Two way communications should be possible with the patient from the console room.	A second dock able table (MR compatible) to be incorporated
6	COMPUTER SYSTEM IMAGE PROCESSOR / OPERATOR CONSOLE	
a	Computer should be latest in the industry, fast and efficient,	
	Largest field of view should be at least 48 cm in all three axis	The row to be included
b	All necessary software in including post-processing software for all offered applications (point no. 9,10) including FMRI, perfusion, diffusion DTI, <u>(with software)</u> cardiac evaluation, and other associated post processing like MIP, MPR, surface reconstruction should be provided. The workstation should have availability of Cardiac, <u>(optional)</u> perfusion analysis & Processing of Real Time BOLD	(with software) included (optional) included

	imaging data, with color metabolite mapping, quantification of the CSF flow date	
11	IMAGING SEQUENCES	
VII	Sequence package for <u>whole body diffusion</u> study in organs like brain, kidney, muscle, heart, etc	whole body diffusion to be included.
12	POST PROCESSING AND EVALUATION:	
h	Full Fledged Advanced Functional MRI: Whole brain coverage using high temporal resolution T2* -- weighted BOLD) imaging Single-shot EPI for multi-slice imaging. Complete fMRI processing software, Automatic real-time processing of functional BOLD like Realtime Brain Wave Pre & Post Acquisition, Inline BOLD, BOLD-3D-Evaluation to be quoted as standard.	BOLD 3D Evaluation to be omitted.

Few modifications have been made for the tender document mentioned below-

1. The tender fees mentioned in the page No. 2 of the Tender document should be Rs. 5,000/- (Rs. Five thousand) instead of Rs. 10,000/- (Rs. Ten Thousand)
2. In Page No. 45 section (VI), 4. to be read as For the assessment of past record of after sales services, bidders are to submit Special Reports duly signed by the Principal-cum-Chief Superintendent of the concerned Medical College Hospital where these machines were installed, about the performance/quality of services rendered to the other machines and equipments already supplied to the Medical College Hospitals of the country.

Sd/-
Director of Medical Education Assam