

GOVERNMENT OF ASSAM  
DIRECTORATE OF MEDICAL EDUCATION, ASSAM,  
SIXMILE, KHANAPARA, GUWAHATI-781022  
e-mail:[dmeassam@gmail.com](mailto:dmeassam@gmail.com),

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**No. 576252/15**

Dated the Guwahati

**Corrigendum-I**

In reference to the IFB No: AHIDMS/JICA/P&C/Equipment/MRI/2024/04/REBID invited for Supply and Installation and Commissioning of MRI 3T for Assam Medical College and Hospital, Dibrugarh, Assam. under Assam Health System Strengthening Project (AHSSP) certain amendments enclosed as Annexure-I, have been incorporated in the IFB document. In addition, replies to the bidder's queries may be find at Annexure-II. Bidders are requested to take the note of these amendments prior to the submission of bid.

**Sd/-**

Director of Medical Education, Assam.

**Corrigendum No.I ( Annexure I)**

IFB No: AHIDMS/JICA/P&amp;C/Equipment/MRI/2024/04/REBID

**Procurement of:****NAME OF WORK:** Supply and Installation and Commissioning of MRI 3T for Assam Medical College and Hospital, Dibrugarh, in ASSAM under Assam Health System Strengthening Project (AHSSP)

Sl. No.	Reference	Existing	Modified
3	<b>Shimming</b>	Patient specific auto-active shimming should be available.	System should provide auto shimming with 2nd order/High Order capability
4	<b>Gradient System</b>		
		Gradient Strength:33 mT/m	Gradient Strength:33 mT/m or more
		Slew rate: 200 mT/m/ms	Slew rate: 200 T/m/s or more
		RF Power:36 KW or more with Dual Channel Amplifier	RF Power: 36 KW or more
5	<b>RF Channel</b>		
		PURERF Tx Technology	System must feature an advanced RF transmission and reception system designed to optimize Signal-to-Noise Ratio (SNR). It should include efficient RF shielding to reduce the impact of gradient-induced eddy currents and incorporate noise-suppression technologies to enhance image clarity and overall signal quality.
		Optimized RF design improves SNR. State-of-the-art RF shielding design to minimize gradient eddy current which affects image sharpness and maximize the efficiency of RF transmission.	
		PURERF Rx Technology	
		Enhanced SNR by unique noise-suppression technology which reduces the electrical noise received with MR signal.	
6	<b>Patient Table:</b>		
		The table to be lowered to :430 mm or less	The table to be lowered to :700 mm or less
		Max. Patient weight: 250kg or higher	Max Patient weight : 220 Kg or higher
9	<b>Surface coils</b>		
		Head /Neck Coil with at least 16 element– 1 No.	Head /Neck Coil with at least 16 element or more
		Spine Coil with at least 36 elements– 1 No.	Spine Coil with at least 24 elements or more– 1 No.
		● Flexible Multipurpose Coil Large – 1 No.	Flexible Multipurpose Coil Large – 16 or more
		● Flexible Multipurpose Coil Small – 1 No.	Flexible Multipurpose Coil Large – 16 or more
		● Body Coil – 1No.	Body coil- 32 channel or more
		● Breast coil – 1 No.	Breast Coil with Biopsy compatible - 8 channel or more

		● Shoulder coil – 1 No.	Shoulder coil -8 channel or more
		● Knee coil – T/ R Coil with at least 16 elements	Knee coil – T/ R Coil with at least 16 elements or more
10	<b>Computer System</b>		
		Added Para:	CLIENT SERVER ARCHITECTURE BASED-OEM MULTIMODALITY WORKSTATION-Server client architecture-based solution make with Three concurrent client, with the availability of all necessary software including basic post processing software including MIP, MPR, Surface reconstruction and volume rendering technique advanced post processing offered applications like exam preparation & processing, package, including perfusion quantification, MTT, TTP. Advanced diffusion and DTI, Processing 2D/4D CSI data, with color metabolite mapping, diffusion color maps, quantification of CSF flow data, vascular
		Added Para:	Either console and workstation should have ·licenses to do fibre Tactography, spectrograph, functional. It Should be a server-based workstation with 3 clients & 3 concurrent licenses on the 3 clients. So, applications should be offered on main console and two concurrent license on 3 clients should be available including Cardiac MRI
12	<b>LCD Monitor</b>		<b>LCD Color Monitor Qty-2</b>
14	<b>Dedicated application packages for: Neurology, Angiography, Body Oncology and Orthopaedic.</b>		<b>Dedicated application packages for: Neurology, Angiography, Body Oncology, Cardiac and Orthopaedic.</b>

		Added Para:	'Advance Cardiac Package - One License: The workstation should have display of Cardiac cine images in movie mode with rapid avi creation and should have comprehensive cardiac post processing software including for coronary MRA with regular free upgrades in future. Time volume diagram generation, filling rates and myocardial wall motion, Graphic display of output calculation of flow and velocity parameter with colour coded display of velocity parameters. Diffusion tensor Imaging, 3D myocardial tagging should be possible.
17	<b>Accessories</b>		
		g. ETCO2 and ETAA (end tidal anaesthetic agents)	Delete
23	<b>Miscellaneous:</b>		
	13	Training of the departmental staff on-site will be required.	Training of departmental staff on-site twice in a year and consignee when required during warranty and CMC
		Added Para:	Onsite training of application support by assigned engineer for at least 30 days in a quantum of 6 months to train the staffs & within the period of warranty & CMC application training should be given as & when required. Along with that for advanced application training for 2weeks for 4 faculties of the dept, in a reputed institution within India.
		Added Para:	System system must include all available software at the time of purchase, with regular upgrades throughout its life. All routine sequences (Neuro, Ortho, Cardiac, Body, Breast, etc) should be included. Free software upgrades should be provided during the warranty and CMC. The system must adhere to international data security standards.
	<b>EMD</b>	Kindly keep provision of submission of EMD by Bank Gurantee also	Allow to EMD in a form of Bank Guarantee also

All other terms and conditions of the Bid Document shall remain unchanged.

**By order etc.**

Addl. Director (Admn) of Medical Education, Assam.

**Replies to Bidders' queries ( Annexure II)**IFB No: **AHIDMS/JICA/P&C/Equipment/MRI/2024/04/REBID****Procurement of:****NAME OF WORK:**Supply and Installation and Commissioning of MRI 3T for Assam Medical College and Hospital, Dibrugarh, Assam. under Assam Health System Strengthening Project (AHSSP).

Reference	Description of Goods	Query Raised	Clarification
1	<b>Magnet</b>		
	It should be a short, whole-body, self-shielded (active shielding) superconducting magnet with a minimum field strength of 3T and a bore opening of at least 70 cm (measured at the interface where the cylindrical tunnel meets the front cover). This design minimizes patient anxiety and ensures a comfortable examination environment for all patients.	1. It should be a short, whole-body, self-shielded (active shielding) superconducting magnet with a minimum field strength of 3.0 T and a bore opening of at least 70 cm (measured at the interface where the cylindrical tunnel meets the front cover). This design minimizes patient anxiety and ensures a comfortable examination environment for all patients. 2. It should be a short, whole-body, self-shielded (active shielding) superconducting magnet with a minimum field strength of 3T and a bore opening of at least 65 cm (measured at the interface where the cylindrical tunnel meets the front cover). This design minimizes patient anxiety and ensures a comfortable examination environment for all patients	Refer Bid document
3	<b>Shimming</b>		
	Patient specific auto-active shimming should be available.	1. 2nd Order Shim/ High Order Shim should be offered as standard	Refer corrigendum
4	<b>Gradient System</b>		
	The combination of a powerful gradient power supply unit and a high-precision active shield gradient coil should ensure stable image quality with all sequences, eliminating eddy currents.	Actively shielded (AS) whole body gradient system with strength min of 45 mT/m with slew rate 200 T/m/sec for each axis simultaneously with a rise time not more than 225ms	Refer Bid Document
	Gradient Strength:33 mT/m	1. Gradient Strength : 44 mT/m 2. Gradient Strength : 45 mT/m 3. Kindly Amend this to Gradient Strength – 40mT/m Slew Rate- 200T/m/s Achieved Simultaneously	Refer Corrigendum
	Slew rate:200 mT/m/ms or more	1. Slew rate: 200 T/m/s 2. Slew rate: 200 T/m/s	Refer corrigendum
5	<b>RF Channel</b>		
	No. of RF Channels: 128 or more	Kindly Amend this to 48 or higher	Refer Bid Document
	RF Power:36 KW or more with	1. RF Power: 30 KW or more with Dual	Refer corrigendum

	Dual Channel Amplifier	Channel Amplifier 2. RF Power:36 KW or more with Dual port Transmission 3. Fully digital RF system capable of transmitting power of atleast 36KW with dual RF power Amplifiers . System should be capable of multi amplifier Multi transmit/ true shape/ Multidrive 4. Kindly Amend this Dual RF/multiTransmit/Tim TX TrueShape with each source atleast 18Kw or higher total RF 36 KW or Better	
	PURERF Tx Technology	1. Delete 2. Kindly delete this point as it is brand-specific terminology. 3. It should also have atleast minimum of 64 independent ADC hardware or channel independent hardware RF channel with each having bandwidth of 1 MHz or more along with necessary hardware to support Quadrature/ CP array coils	Refer corrigendum
	Optimized RF design improves SNR. State-of-the-art RF shielding design to minimize gradient eddy current which affects image sharpness and maximize the efficiency of RF transmission.		
	PURERF Rx Technology		
	Enhanced SNR by unique noise-suppression technology which reduces the electrical noise received with MR signal.		
6	<b>Patient Table:</b>		
	The table to be lowered to :430 mm or less	1. The table to be Lowered to 700 mm or Less 2. The table to be lowered to :520 mm or less.	Refer corrigendum
	Max. Patient weight: 250kg or higher	Max Patient weight : 225 Kg or higher	Refer corrigendum
9	<b>Surface coils</b>		
	● Head /Neck Coil with at least 16 element– 1 No.	Head/Neck coil with atleast 20 Channel or more - 1No. Head coil should be 32 ch or more- 1No	Refer corrigendum
	● Spine Coil with at least 36 elements– 1 No.	1. Spine Coil with at least24 elements– 1 No 2. Spine coil with atleast 32 ch or more - 1No 3. Kindly amend this to 32Channel or Higher	Refer corrigendum
	● Flexible Multipurpose Coil Large – 1 No.	1. Flexible Multipurpose Coil 16 CH Large - 1No 2. Flexible Multipurpose Coil should be 16 CH Large -1No	Refer corrigendum
	● Flexible Multipurpose Coil Small – 1 No.	1. Flexible Multipurpose Coil 16 CH Small - 1No 2. Flexible Multipurpose Coil should be 16 CH Small - 1No	Refer corrigendum
	● Body Coil – 1No.	Body coil for body imaging of 46 Ch or More - 1No	Refer corrigendum
	● Breast coil – 1 No.	1. Breast coil 8 Ch or More - 1No	Refer corrigendum

		2. Breast coil 16 element or more 1 No 3. Breast coil should be 8 Ch or More with Dynamic imaging & Breast spectroscopy - 1No	
	● Shoulder coil – 1 No.	Shoulder coil 16 element or more– 1 No.	Refer corrigendum
	● Knee coil – T/ R Coil with at least 16 elements	Kindly Amend this to 8channel Dedicated or Higher	Refer corrigendum
10	<b>Computer System</b>		
	Added para:		Refer Corrigendum
	Added para:		Refer Corrigendum
11	<b>Reconstruction system</b>		
	Memory capacity : 128 GB or more, 2.80 GHz or more	Memory capacity : 128 GB or more, 2.10Ghz or more	Refer Bid Document
	Hard disk drive capacity: 2.7 TB at least supported by back-up storage.	Hard disk drive capacity : 1 TB atleast supported by back-up storage	Refer Bid Document
	Reconstruction matrix : 2,048 × 2,048 or more	Reconstruction matrix: 1024x1024 or more	Refer Bid Document
12	<b>LCD Color Monitor</b>		Refer Corrigendum
13	<b>Clinical Imaging</b>		
I	Reconstruction Matrix:2048 x 2048	Reconstruction matrix: 1024x1024 or more	Refer Bid Document
14	<b>Dedicated application packages for: Neurology, Angiography, Body Oncology and Orthopaedic.</b>		Refer Corrigendum
g	Parallel Imaging with a factor of Min 16	Parallel imaging with a factor of Min 4	Refer Bid Document
u	Arterial Spin Labelling - 2D & 3D	Arterial Spin labelling - 2D / 3D	Refer Bid Document
x	Added Para:		Refer Corrigendum
17	<b>Accessories</b>		
E	MRI Compatible Dual Syringe Pressure injector : Independent dual-Syringe Pressure injector with following Features; Non-ferrous, automatic syringe size detection, performs single and dual phase contrast injections, provides Saline flush delivery and allows timed contrast delivery Must be compatible with 5, 7.5 &10ml pre-filled contrast syringes and 50 ml syringes for both saline & contrast (20 No's of 50 ml Syringes with 100 nos. of tube connectors should be provided) Must be able to observe progress of injection and view injection	1. MRI Compatible Dual Syringe Pressure injector : Independent dual-Syringe Pressure injector with following Features; Non-ferrous, automatic syringe size detection, performs single and dual phase contrast injections, provides Saline flush delivery and allows timed contrast delivery (20 No's of 50 ml Syringes with 100 nos. of tube connectors should be provided) Must be able to observe progress of injection and view injection result. 2. Need clarification	Refer Bid Document

	result.		
	a. Heart rate	Heart rate	Refer Bid Document
	b. ECG	ECG	Refer Bid Document
	c. NIBP – Size of Cuffs (adult & Pediatric neonatal)	NIBP - Size cuff( adult pediatric neonatal	Refer Bid Document
	d. Respiration (Capnograph)	respiration	Refer Bid Document
	f. Oxygen saturation – Pulse oximeter with adult, Pediatric probe, and neonatal probes - 2 sets (with the spare probes), Should have plethysmograph perfusion factor.	Oxygen Saturation - Pulse oximeter with adult, pediatric probe and neonatal probe	Refer Bid Document
	g. ETCO2 and ETAA (end tidal anaesthetic agents)		Refer Corrigendum
I	Arrangement of Gas lines in recovery room and magnet room – MRI compatible high pressure gas outlet for :	Kindly delete this point	Refer Bid Document
<b>23</b>	<b>Miscellaneous:</b>		
13	Training of the departmental staff on-site will be required.		Refer Corrigendum
	Added Para:		Refer Corrigendum
	Added Para:		Refer Corrigendum
<b>17</b>	<b>Furniture :</b>		
<b>GC 11.3</b>	The maximum response time for maintenance complaint from any part of the country shall not exceed 48 hours including travel time.	The maximum response time for maintenance complaint from any part of the country shall not exceed 96 hours including travel time	Refer Bid document
	During the maintenance period the unit must be made functional within 4 working days (including response time) from the time a defect is reported to the contractor. In case, a replacement of defective goods needs more than 7 working days, as an interim solution the bidder must make available a service Goods/part for complete functioning of the goods within the same specified time frame as mentioned above. However, the defective goods must be replaced within 15 days.	Please delete the clause. Total Uptime to be considered 95%	Refer Bid document
	During Comprehensive Maintenance Contract (CMC)	Please remove Financial penalty clause. During CMC Period , Warranty will be	Refer Bid document



	period in case of non-compliance of the above beyond 15 days in a year, then liquidated damages (LD) is levied at 0.075% of the unit price per non-functional unit per day beyond 20 days in a year and equivalent amount shall be deducted from the CMC payment.	extended for 2 Days for every single day of downtime.	
<b>GC 16.1</b>	Payment of Imported goods (100% Confirmed LC with following details): i. On Shipment: 90% of contract price shall be paid through irrevocable Letter of Credit after fulfillment of all the conditions as per bid document	100 % payment will be released through inland irrevocable Letter of credit in imported and Local Items both. 90% on shipment and 10% on successful completion of the project	Refer Bid document
	<b>1. List of Goods and Delivery Schedule</b>		
	<b>Shortest Delivery Period : 90 Days</b>	1. Delivery - 180 Days from date of receipt of confirmed purchase order, Letter of Credit, Site handover, required power termination at site, whichever is later 2. 180 days from: a) Issuance of Supply order or b) Opening of confirmed & irrevocable foreign Letter of Credit or c) Release of 10% advance payment or d) Site handover along with Permanent Power. Whichever is later	Refer Bid Document
	<b>Longest Delivery Period : 120 Days (calculated from the Contract Effective Date)</b>		Refer Bid Document
	<b>EMD</b>	1. Kindly keep provision of submission of EMD by Bank Gurantee also 2. Kindly keep provision of submission of EMD by Bank Gurantee also	Refer corrigendum
	<b>Additional Request</b>	Table Type - Doctable	Refer Bid Document
		The DTI should be more than 256 direction preferably 300 direction	Refer Bid Document
		The latest artificial intelligence softwares like AIT RECON / DEEP RESOLVE BOOST + SWIFT BRAIN + Subtle MR/SMARTSPEED should be quoted	Refer Bid Document
		Applications like SMartMap, Liver Lab/Ideal- IQ, Cartigram, Magic DWI, ZoomIT SPACE, Copress sensing etc. should be incorporated	Refer Bid Document
	Page No-40 IBT 4.6(a.& b.)	<b>We request you</b> to remove this clause as	Refer Bid

	under (Section- II) BID Data Sheet its saying only Original Equipment Manufacturer's are allowed to participate in this tender. Authorized Dealers, Distributors or third-party representatives can't participate in tender.	this will create difficulties for all the OEM to participate in this tender as they are having subsidiaries/JV/ Indian Business partner office in India. As per this clause no one from India be eligible to participate as all the OEM is having manufacturing facilities and country of sourcing is in USA/Germany/Netherland/China etc& all Principal OEM is from other countries only	Document
	Page No-41 IBT-5.2(5.2.1 & 5.2.2) under Section-II Eligibility of Bidders from Specified Countries is having restrictions on OEM from Land of border sharing countries to participate in this tender. and the DPIIT clause is also imposed to restrict them further	<p>We request you to remove this Land of Border and DPIIT clause so that OEM's having USFDA /CE Certification with better configuration and best advanced technology can also participate. This will give you more options to explore and get the financial benefits to your organisation as there will be hard competition. We would like to bring it to your notice that in generally global e-Tender never comes with these clauses whatever we noticed till date. Kindly support us so that we can participate and offer you the best. No OEM manufacture 3 Tesla MRI in India &amp; Hence it is global Tender and no as such Restriction should be imposed. Also, for your kind information, since all OEM has subsidiary offices in China and manufacturing Facilities and Hence GFR144 is applicable for all and no one have clearance letter from DPIIT offices till date.</p> <p>Therefore, our humble Request is, since it is a global Tender, please remove this clause for wider participations and healthy competition in technology and commercials which is the main aim of the Tender Process. Apart from Assam, we have installed bases in many other states of India &amp; All end users are Extremely Satisfied with our Quality products and best of the class Technology.</p>	Refer Bid Document

**e-signed**

Addl. Director (Admn) of Medical Education, Assam.