

**Amendment No:1**

to

**Ref: Tender no. HITES/BME/HCS-01/15-16 Dated: 11.02.2016**

For

**PURCHASE OF MEDICAL EQUIPMENTS**

The following amendments are incorporated in the referred tender enquiry document:

**In NIT:****For:**

<b>SI No.</b>	<b>Description</b>	<b>Schedule</b>
i.	Dates of sale of tender enquiry documents	12.02.2016 to 09.03.2016
vi.	Closing date & time for receipt of Tender	10.03.2016 at 15:00 hrs
vii.	Time and date of opening of Techno – Commercial tenders	10.03.2016 at 15:30 hrs

**Read as:**

<b>SI No.</b>	<b>Description</b>	<b>Schedule</b>
i.	Dates of sale of tender enquiry documents	<b>12.02.2016 to 19.03.2016</b>
vi.	Closing date & time for receipt of Tender	<b>21.03.2016 at 15:00 hrs</b>
vii.	Time and date of opening of Techno – Commercial tenders	<b>21.03.2016 at 15:30 hrs</b>

**In Technical specification:**

<b>Name of the Item: 1.5 T MRI System Schedule No.1</b>				
<b>Sl No</b>	<b>Page No.</b>	<b>Para No.</b>	<b>Tender Specification</b>	<b>Amended as</b>
1	47	RF COILS 2.4 b	Head and Neck coil.	<b>Head and Neck coil - 16 Channel.</b>
2	47	RF COILS 2.4 c	Spine Coil for thoracic and Lumbar spine imaging. Mention the number of coil elements available.	<b>Spine Coil for thoracic and Lumbar spine imaging. - 12 Channel or more.</b>
3	47	RF COILS 2.4 e	Flexible Coil – Medium FOV	<b>Deleted.</b>
4	47	RF COILS 2.4 f	Optional:Flexible Coil - Large FOV	<b>Flexible Coil - Large FOV - 2 Channel or more should be offered as standard.</b>
5	47	RF COILS 2.4 g	Optional:Flexible Coil – Small FOV	<b>Flexible Coil - Small FOV - 2 Channel or more should be offered as standard.</b>
6	47	RF COILS 2.4 h	Optional:Quadrature Coil for Knee Imaging.	<b>Optional:Quadrature Coil for Knee Imaging - 8 Channel or more.</b>
7	47	RF COILS 2.4 i	Optional:Dedicated Phased Array coil for Shoulder Imaging.	<b>Optional:Dedicated Phased Array coil for Shoulder Imaging - 6 Channel or more.</b>
8	47	RF COILS 2.4 k	Optional:Peripheral Angio Coil: Specify, type and no. of elements used.	<b>Optional:Peripheral Angio Coil - 12 Channel or more.</b>
9	47	RF COILS 2.4 m	Optional:Breast Coil capable of bilateral breast imaging. Specify type and channels.	<b>Optional:Breast Coil capable of bilateral breast imaging - 4 Channels or more.</b>
10	48	PATIENT HANDLING SYSTEM: 2.5 c	The table should be able to withstand patient load of 180 kgs.	<b>The table should be able to withstand patient load of 150 kg or more.</b>
11	48	HOST COMPUTER/MAIN CONSOLE AND IMAGE PROCESSOR 2.6 a	Computer system should be latest in the industry, fast and efficient. It should have at least 2 GB RAM.	<b>Computer system should be latest in the industry, fast and efficient. It should have at least 12 GB RAM or more.</b>

12	48	APPLICATION SOFTWARE / HARDWARE 2.7 i	Perfusion Imaging to enable large anatomy coverage of the brain and in line calculation of the resulting hemodynamic as well as physiological parameters. The perfusion analysis should have capability to calculate colour display of rMTT, rCBV, rCBF, corrected CBV, permeability constant and volume leakage. If the perfusion analysis is not possible on the main console the same should be available in the workstation	<b>Perfusion Imaging to enable large anatomy coverage of the brain and in line calculation of the resulting hemodynamic as well as physiological parameters. The perfusion analysis should have capability to calculate colour display of rMTT, rCBV, rCBF, corrected CBV, permeability constant and volume leakage, Signal-Change Map (PBP) and Global Bolus Plot (GBP). If the perfusion analysis is not possible on the main console the same should be available in the workstation.</b>
13	49	APPLICATION SOFTWARE / HARDWARE 2.7 m	The system should have facility to do Head to Toe imaging without changing coil.	<b>The system should have facility to do Head to Toe imaging with integrated coil or combination of coils.</b>
14	49	APPLICATION SOFTWARE / HARDWARE 2.7 o	Provide details of special features available with the system as standard for reducing the planning and posing time like auto copying for all sequences , Single Brain & spine coil, inbuilt table spine coil etc.	<b>Provide details of special features available with the system as standard for reducing the planning and posing time like auto copying for all sequences , Single Brain &amp; spine coil etc.</b>
15	49	APPLICATION SOFTWARE / HARDWARE 2.7 n	Optional: The system should perform DTI at least in 21 directions with possibility of processing with depiction of fractional anisotropy, mean diffusivity and other DTI metrics. Provide the fiber tracking software with overlays on various conventional images.	<b>Optional: The system should perform DTI at least in 21 or more directions with possibility of processing with depiction of fractional anisotropy, mean diffusivity and other DTI metrics. Provide the fiber tracking software with overlays on various conventional images.</b>

16	49	WORKSTATION 2.8 a	Workstation with latest advanced post processing software with complete DICOM functionalities as the main console with 19 inch TFT/LCD colour monitor, with hard disk of at least 1,00,000 image storage in 256x256 matrix, and 2 GB RAM.	<b>Workstation with latest advanced post processing software with complete DICOM functionalities as the main console with 19 inch TFT/LCD colour monitor, with hard disk of at least 1,00,000 image storage in 256x256 matrix, and 12 GB RAM.</b>
17	50	2.17	Diesel Generator of 400kVA (OPTIONAL - PRICE TO BE QUOTED SEPARATELY)	<b>Diesel Generator of 300kVA,150kVA and 60kVA  (OPTIONAL - EACH PRICE TO BE QUOTED SEPARATELY)</b>

<b>Name of the Item: CT Scan-16 Slice Schedule No.2</b>				
<b>Sl No.</b>	<b>Page No.</b>	<b>Para No.</b>	<b>Tender Specification</b>	<b>Amended as</b>
1	57	1. Gantry :	The sub millimeter Slice @ 0.63 mm or less in 16 Independent Rows of acquisition should be available .	<b>The sub millimeter Slice @ 0.75 mm or less in 16 Independent Rows of acquisition should be available .</b>
2	57	2. X ray Section :	kV range : 80-140 KVP ; Patient Scanning should be possible at 80 & 100 KV (pediatric scanning) in addition to standard kV range of 120 -140 kV	<b>kV range : 80-130 KVp.</b>
3	57	4. Patient Couch :	The range of metal free scan should be atleast 165 cms.	<b>The range of metal free scan should be atleast 150 cms.</b>
4	57	5. Spiral / Helical Section :	The System should be able to perform at least 60 Seconds of Continuous Helical / Spiral Scan @120 KV / 200 MA without Drop in MA to maintain the Low Contrast Resolution.	<b>Deleted.</b>
5	57	5. Spiral / Helical Section :	The Reconstruction Time in Spiral scan should not be more than 130 Milliseconds. ( At least 8 Images / second )	<b>Deleted.</b>

6	58	6. Operator Console:	An Advanced Work station with at least 4 GB RAM , Archival on DVD / CD with CT Angio graphy , Colonoscopy , 3D VRT , SSD , CT / MRI Fusion as well as DICOM Print should be included in the Scope of Supply. DVD / CD Archival is Required.	<b>An Advanced Work station with at least 16 GB RAM , Archival on DVD / CD with CT Angio graphy , Colonoscopy , 3D VRT , SSD , CT / MRI Fusion as well as DICOM Print should be included in the Scope of Supply. DVD / CD Archival is Required.</b>
7	59	System Configuration Accessories, spares and consumables:	<b>Added Para</b>	<b>Diesel Generator of 300kVA,150kVA and 60kVA  (OPTIONAL - EACH PRICE TO BE QUOTED SEPARATELY)</b>
8	60	SERVICE CAPABILITY:	Please mention the respective location and number of trained service engineers; available for attending to the service / maintenance of CT systems at Burla; Berhampur; Kozhikode & Thiruvananthapuram within the stipulated time.	<b>Please mention the respective location and number of trained service engineers; available for attending to the service / maintenance of CT systems at consignee locations within the stipulated time.</b>

<b>Name of the Item: CT Scan -128 Slice Schedule No.3</b>				
<b>SI No</b>	<b>Page No.</b>	<b>Para No.</b>	<b>Tender Specification</b>	<b>Amended as</b>
1	64	b)	<b>X-Ray Generator:</b> KV Range: 80-110 or more	<b>KV Range: 80-135 or more.</b>
2	64	c)	<b>X Ray TubeTube:</b> Tube Voltage: 80-110 kV or more	<b>Tube Voltage: 80-135 kV or more.</b>
3	65	i)	<b>Operator Console:</b> Raw Data storage with at least 500 GB Hard disc having image	<b>Raw Data storage with at least 500 GB Hard disc having image storing</b>

			storing capacity of 5,00,000 or more in 512x512 format	<b>capacity of 4,00,000 or more in 512x512 format.</b>
4	67	9. System Configuration Accessories, spares and consumables:	<b>Added Para</b>	<b>Diesel Generator of 300kVA,150kVA and 60kVA  (OPTIONAL - EACH PRICE TO BE QUOTED SEPARATELY)</b>

**All other terms & conditions remain unaltered.**

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