

AMENDMENT-1

Dated:13.10.2009

IFB No.: HSCC/PUR/SIC-Safdarjung/Wet Lease/2009 dated 14.9.2009.

Queries of the Prospective Bidders during the Pre- Bid Meeting held on 07.10.2009 at 3.30 pm at Safdarjung Hospital, New Delhi and its reply are given below:

S. No.	Query of the Prospective Bidders	Reply to Query
Technical Queries		
1.	The specification of sports injury centre at Safdarjung seems to be same as per specifications published in PMSSY tender for different hospitals. For accommodating all the three companies, there were some amendments to 1.5 Tesla MRI and 16 Slice CT Scanner in PMSSY tender. We would like to inform you that the amendments were not incorporated in your tender specifications in sports injury centre at Safdarjung Hospital. Incorporate the same.	The amendments to 1.5 Tesla MRI and 16 Slice CT Scanner issued for PMSSY tender stands accepted and are enclosed as Annexure-‘A’. The Annexure-‘A’ should be read in conjunction with the specifications issued with this tender.
2.	Many specifications of the equipments are so high that many of them would be of no use in sports medicine centre. We are enclosing them in Annexure-1.	
3.	There seems to be a misprint regarding 16Slice CT Scanner Scan time it should read “0.5Sec or less” rather than “less than 0.5 Sec” and also on LCD monitor size should be 19” instead of 21” LCD monitors.	
4.	The lists of required softwares /accessories have to be confirmed modality wise in advance for an optimum bid.	However in case of conflict in specifications, the amended specification given in the Annexure-‘A’ shall prevail.
5.	Remove Servo Stabilizer as you have asked for online UPS in both CT and MR Scanners.	
6.	MRI and CT Scan equipment specification should not be reduced as it is a prestigious project and facilities to scan all type of patients should be there.	No other change in the specifications is accepted.
7.	Some of the tests listed are not radiological tests but pathologic tests.	Tests and procedures related to the equipments for wet leasing shall only be applicable.

8.	List of tests and procedures on different equipment is quite incomplete and many tests and procedures which are routinely done are not listed hence the list needs to be expanded to include these tests.	<p>The tests and procedures on different equipment provided in the Tender Document are indicative only. The approved CGHS tests and procedures applicable as on the date of signing of contract and any subsequent amendments during the contract period shall prevail.</p> <p>However, wherever approved CGHS rates are not available, the approved AIIMS rates for the same shall prevail.</p>
Commercial Queries		
9.	Earnest Money of 25 Lacs as DD, request to make this to 25 Lacs of Bank guarantee or FDR.	<p>Earnest Money of Rs. 25,00,000/- either in the form of Demand Draft or Bank Guarantee is acceptable. The format for the Bank Guarantee is given at Annexure-‘B’.</p> <p>All other Tender Condition remains unchanged.</p>
10.	The clause of Rs.10 Cr. As turnover should not be the correct parameter for qualification. Other important points like capability of managing multiple centers and exposure to PPP programs in radio diagnostics should be the fair parameters for the same.	No changes are accepted against S. No. 10,11 &12.
11.	Sole Arbitrator should be mutually agreed between the two parties.	
12.	Consortium /JV should be allowed and minimum experience of 5 years should be replaced by minimum experience of running at least one center for three years.	

**TECHNICAL SPECIFICATIONS FOR STATE OF THE ART LATEST
GENERATION WHOLE BODY MULTI SLICE (16 Slice) CT SCANNER**

S.N.	Operational requirements	Reply	Comments
1.1	The system must have 16 rows of detectors, capable of acquiring 16 slices per rotation. DICOM Ready with true isotropic volume acquisition and sub millimeter resolution.		

S.N.	Technical Specifications	Reply	Comments
2.1	<u>Gantry</u> Aperture: 70 cms or more FOV: 50 cms or more Tilt: +/- 30°.		
2.2	<u>X-Ray Generator:</u> 1 High Frequency type 2 Power output: 50 kW or higher 3		
2.3	<u>X-Ray Tube</u> 1 Tube Voltage: 80 - 140 kV or more. 2. Anode Heat Storage Capacity- specify 3. Anode Heat Dissipation: 1.5 MHU/minute or with latest technology		
2.4	<u>PATIENT TABLE</u> 1. Load carrying capacity 180Kg with 1 mm positioning accuracy. 2. Horizontal Table speed at least 100 mm/sec. 3. Metal free scannable range of 150 cm or more 4. Facility of positioning aid for horizontal		

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	<p>Isocentric positioning of the patient.</p> <p>5. Carbon Fibre Table Top.</p>		
2.5	<p><u>SPIRAL CT</u></p> <p>1 Scan Time should be less than 0.5 seconds for full 360 degree rotation.</p> <p>2. Min slice thickness should be less than 0.625mm</p> <p>3 Slice increment.- specify scan and selectable slice thickness</p> <p>4 Pitch Factor (volume pitch): variable between 0.5 or more and should be user selectable or automated. Specify all possible pitch selections.</p> <p>5. Single Continuous spiral scan time should be at least 60 sec or more.</p> <p>6. Bolus Triggered or bolus chase Spiral acquisition should be possible.</p>		
2.6	<p>Real Time CT Fluoroscopy: at 6 to 8 frames per second with 18" color TFT/LCD Monitor</p>		
2.7	<p><u>Image quality:</u></p> <p>1 Low contrast resolution - specify low contrast resolution with 20cm CATPHAN phantom. Specify surface dose,</p>		

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	<p>mAs, slice thickness and HU used.</p> <p>2. High contrast resolution should be at least 15 lp/cm for axial and spiral scan at 0% MTF with full FOV.</p>		
2.7	<p><u>Data Acquisition System:</u></p> <p>1. Detector- Capable of acquiring 16 slices per 360 degree of rotation.</p> <p>2 Minimum 16 rows of solid state or rare earth detectors are required.</p> <p>3 Inbuilt pediatric protocols.</p>		
2.8	<p><u>IMAGE RECONSTRUCTION:</u></p> <p>1 Real Time reconstruction speed: specify.</p> <p>2 Display Matrix: 1024x1024</p> <p>3 Scan Time and length: Specify</p> <p>4 Reconstructed slice thickness: 1mm - 10mm.freely selectable.</p> <p>5 Scan Field and reconstructed field : Specify</p>		
2.9	<p><u>MONITORS :</u></p> <p>2 nos. of high resolution, TFT/LCD color monitors of 21" or more.</p>		
2.10	<p><u>Operator Console:</u></p> <p>1. Should perform Registration, scheduling, protocol</p>		

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	<p>selection , volume rendering, Volume measurements, Multiplanar Reconstruction, and standard evaluation application and all available post processing functions without the help of the satellite workstation.</p> <p>2 Raw Data storage with at least 250 GB Hard disc having image storing capacity of 4,00,000 or more in 512x512 format.</p>		
2.11	<p>Workstation shall be a high speed CPU with a speed of 3.0 GHz or better and with an independent Hard disc storage capacity of 250 GB or more, capable of simultaneous viewing of all post processing functions and filming independently without the help of main console. Memory of the workstation should be independent of the console. Two way data transfer between the operator console & the satellite workstation should be standard.</p>		
2.12	<p><u>Workstation Features:</u></p> <p>1 Post Processing Software: Software for Perfusion CT for brain</p>		

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	<p>and body applications, CT Angio, VRT, Max IP & Min IP, SSD, Image Fusion, Vessel segmentation, Virtual Endoscopy & Advanced cardiac package including Coronary Artery Imaging, Calcium Scoring, Myocardial Viability software and Advanced Vessel Analysis to be provided on both the console and the workstation.</p> <p>2. Interactive & Automatic Cine display should be available.</p>		
2.13	<p><u>Image Evaluation Tools:</u></p> <ol style="list-style-type: none"> 1 Parallel evaluation of multiple ROI in circle, irregular and polygonal forms. 2. Statistical Evaluation for area/ volume, S.D, Mean/Max and Histograms. 3. Distance & angle measurement, freely selectable positioning of co-ordinate system, grid and image annotation. 		
2.14	<p><u>Post processing tools</u></p> <ol style="list-style-type: none"> 1. 2-D, including image zoom and pan, image manipulations, including averaging, 		

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	<p>reversal of grey-scale values, and mirroring; image filter functions, including advanced smoothing algorithm and advanced bone correction.</p> <p>2. Real-time multi-planar reconstruction (MPR) of secondary views, with viewing perspectives in all planes including curved & orthogonal MPR.</p> <p>3. CT angiography, MIP, Min IP, SSD, VRT and other advanced 3D applications and color coding for different tissues.</p> <p>4. Spatial alignment and visualization of two different data sets of one patient generated on different modalities or with different acquisition times should be displayed on the workstation</p> <p>5. Volume measurements.</p> <p>6. Fusion of morphological data obtained on CT, MR or DSA.</p>		
2.15	<p><u>Patient communication system:</u> An integrated intercom and Automated Patient Instruction System (API)</p>		

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	should be provided		
2.16	Dry Laser Imager with 1. Resolution: 16 bits/ 500 dpi or more with minimum three ports. 2 Support Multiple Film Sizes: one of which must be 17"x14" 3. DICOM Compatible (Attach conformance statement).		
2.17	Laser color printer (Paper): 1. DICOM Compliant 2. Resolution- at least 1200x1200 dpi. 3. More than 20 ppm		
2.18	<u>ARCHIVAL</u> 1 Filming parallel to other activities, including independent scanning, documentation and post-processing and configurable image text. 2 Archiving: CD/DVD writer should be provided for archival. 3 Option of viewing these discs on any PC without DICOM viewer should be available.	Provide 2000 CDRWs or 1000 DVDRWs	
2.19	Software for Remote Diagnostics Service over a telephone line.		
2.20	System must be PACS interface ready without any new hardware or software.		

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2.21	<p><u>Non Invasive Monitor</u> Portable and Light weight non invasive monitor preferably less than 10kg. Modular with 12 inch multi color TFT display. For monitoring parameters like ECG, respiration, NIBP, SaO2 and temperature with digital and 6 waves / traces display & 60 minutes or more battery back up.</p>		
2.22	<p><u>Defibrillator</u></p> <ol style="list-style-type: none"> 1. Biphasic, Latest model, with auto and manual mode. Manual selection up to 360 J. 2. Should be mains and battery operated, with charging indicator. 3. Should be able to deliver 30 shocks with fully charged battery. 4. Should have true 1-2-3 Color-coded operations. 5. Should have inbuilt Internal Thermal Recorder. 6. Should have Automatic lead switching to see patient ECG through paddles or leads. Should measure chest impedance and should be able to compensate. 7. Should be provided 		

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	<p>with Adult and Pediatric external paddles.</p> <p>8. Should have both Synchronous and asynchronous mode.</p> <p>9. The charging time to highest energy level should be less than 5 seconds.</p> <p>10. Disposable defibrillator pads - 10 Nos with each machine should be provided</p> <p>11 Should have external pacemaker facility.</p>		
2.23	General Anesthesia Machine with Circle absorber, vaporizer for halothane, isoflurane/ Sevoflurane, ventilator & monitor to be provided.		
2.24	Dual Head Pressure Injector. Provide 200 Nos. of 200 ml disposable sterile syringes sets.		

S.N.	System Configuration Accessories, spares and consumables	Reply	Comments
3.1	Collapsible wheel chair with rubberized swivel wheels. - 02 nos.		
3.2	Standard Patient positioning accessories and restraining devices -02 sets		
3.3	Light weight vinyl Lead Aprons of 0.5 mm lead equivalence- 5 Nos.		
3.4	Lead Glass 100cm X 150 cm of 2mm Lead equivalence		
3.5	Online UPS of suitable rating should be supplied for the complete		

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	system including Gantry, computer system, anesthesia delivery system, monitor and defibrillators with at least 30 minutes back up		
3.6	Suitable Servo controlled Stabilizer/CVT as applicable		

MRI 1.5 Tesla

- 2.2.1 Actively shielded Gradient system with strength of at least 40 mT / m with slew rate of 150 mT / m/ sec or 66 mT/m with slew rate of 90 mT m/ sec. These true slew rates should be available in each axis independently, for overall better duty cycle performance of the gradient.
- 2.4.13 The original specs remain as it is Coil for Cardiac Coil with 8 channel and no change.
- 2.4.7 Phased Array Body coil, capable of doing abdomen, pelvis, MRCP and peripheral imaging.It should have at least 12 element and from 50 to 48 cm FOV.
- 2.6.2 Image Storage Capacity to be modified to 100000 images 256X256 Matrix
- 2.7.1 Spin Echo & Gradient Echo with ETL 256 to 255 is suggested by all
- 2.8.1 Work Station modified to 100000 images in the hard disk at 256X256 Matrix

BANK GUARANTEE FORM FOR EMD

Whereas _____ (hereinafter called the "Tenderer") has submitted its quotation dated _____ for the Wet Leasing of _____ (hereinafter called the "tender") against the HSCC (I) Ltd., on behalf of the Sports Injury Centre, Safdarjung Hospital's tender enquiry No. _____ Know all persons by these presents that we _____ of _____ (Hereinafter called the "Bank") having our registered office at _____ are bound unto _____ (hereinafter called "HSCC (I) Ltd.") in the sum of _____ for which payment will and truly to be made to the HSCC (I) Ltd., the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20____. The conditions of this obligation are:

- (1) If the Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the Tenderer having been notified of the acceptance of his tender by the HSCC (I) Ltd., on behalf of the Sports Injury Centre, Safdarjung Hospital during the period of its validity:-
 - (a) fails or refuses to accept/execute the contract.
 - or
 - (b) if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged.

We undertake to pay the HSCC (I) Ltd. up to the above amount upon receipt of its first written demand, without having to substantiate its demand, provided that in its demand the HSCC (I) Ltd. will note that the amount claimed by it is due to its owing to the occurrence of one or both the two conditions, specifying the occurred condition(s).

This guarantee will remain in force for a period of forty-five days after the successful supply, installation, testing & commissioning of all the equipments. The Sports Injury Centre, Safdarjung Hospital, New Delhi will issue certificate to this effect. Any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)

Name and designation of the officer

Seal, name & address of the Bank and address of the Branch