

# **Aligarh Muslim University**

**TENDER FOR SUPPLY AND INSTALLATION OF**

**16-SLICE SPIRAL CT SCANNER**

**AT ALIGARH MUSLIM UNIVERSITY**

**AGAINST BUY BACK**

**AND EXISTING SITE PREPARATION/MODIFICATIONS BASIS**

**Ref.No. ---167/RD/20.04.13**

**Aligarh Muslim University**

1. The Chairman, Department Of Radio-diagnosis, Aligarh Muslim University hereby invites tenders from eligible bidders for the supply and installation of the 16-Slice CT Scanner under buy back of existing equipment.
2. Bids in two parts (two stages) will be received till 13<sup>th</sup> May 2013 upto 3:00 p.m in the Chairman's office.
3. Earnest Money Deposit of 200000/- shall be paid in the form of Bank Draft / Bank Guarantee in favor of Chairman, Department of Radiodiagnosis payable at Aligarh.
4. Qualification Criteria for Eligible Bidders: The bidder shall be original Manufacturer having valid manufacturing license or sole authorized dealer of the manufacturer.
5. The Chairman, Department Of Radio-diagnosis, Aligarh Muslim University reserves the rights to accept/reject any or all the bid(s) without assigning any reason.
6. The Bidder shall submit the bid in two parts as under :
  - a) Part -1: Technical Bid
  - b) Part -2: Price Bid
7. The Bid should include :
  - a) Detailed technical offer including accessories as per the specifications of this tender.
  - b) Original product catalogue/brochure/product literature clearly highlighting the technical specifications asked in the bid.
  - c) Compliance Statement duly stamped and signed.
  - d) Manufacturer's Authorization Letter
  - e) Type approval certificate of the offered unit from AERB.
8. Value must be mentioned in words also. In case of any discrepancy in calculation unit price in words will be considered.
9. The rates quoted and accepted will be binding on the tenderer for the stipulated period and on no account any increase in the price will be entertained till the completion of the tender period.
10. No bidder will be allowed at any time on any ground whatsoever to claim revision of or modification in the rates quoted by him. The representation of the bidder that clerical error, Typographical error etc. has been committed in the bid and request for revision shall not be considered after opening the bid. Conditions such as "SUBJECT TO AVAILABILITY" "SUPPLIES WILL BE MADE AS AND WHEN SUPPLIES ARE RECEIVED" etc., will not be considered under any circumstances and the bids of those who have given such conditions shall be treated as incomplete and such bids, shall be summarily rejected.
11. Period of Validity of Bids : Bids shall remain valid for 120 days after opening of

technical bids. A bid valid for a shorter period will be rejected as non-responsive.

12. The ordered equipment/material must be delivered and installed within 60 days from the issue of notification of award.
13. Application Support should be provided initially for one week and then as and when required.
14. The buy-back price of the existing CT should be quoted.
15. Turnkey Site Preparation : The existing site to be inspected and modified to meet the installation specifications of the AERB. The costing should be quoted in turnkey scope. The scope should include replacement of the A/C. 3 Chairs for the operator console to be provided.
16. After Sales Service : The system should be offered with complete one year warranty . For 2nd to 10th year a comprehensive contract including all parts, x-ray tube, UPS and batteries to be offered. 95% uptime to be provided on 365 days basis.
17. Price Comparison : TT Selling Rate as per SBI on the date of price bid opening shall be applicable. This Comprehensive contract shall be considered to calculate the 10 years life cycle of the equipment.
18. Terms of Payment:
  - 1.Payment for imported component :  
100% payment shall be released against presentation of shipping documents against submission of performance Bank Guarantee of 10% order value valid for a period of 68 months from the date of notification of award and the same should be essentially submitted within 15 days of issue of notification of award.
  - Or  
90% payment will be released against presentation of shipping documents & balance 10% payment will be released after satisfactory Installation certificate issued by the user department and against submission of Performance Bank Guarantee of 10% order value valid for a period of 62 months from the dated of satisfactory Installation certificate issued by the user department.
  - 2.For Indian components, 80% of payment shall be released on delivery of supplies at the Institute and the balance 20% along with the IAC shall be released on satisfactory installation of the same.
19. The equipment should be quoted on F.O.R Hospital Site basis. IN case of imported equipment, customs clearance and transportation shall be the responsibility of the vendor however the customs duty shall be re-imbursed by the institute.
20. Force Majeure : Force majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such event may includes

but are not limited to, acts of the purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. The Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

21. Tenders shall be opened in the meeting of the Purchase committee to be held on 15.05.2013 at 10.00 am in the Department of Radiodiagnosis in presence of tenderers or their representatives.

## **Specifications for MDCT with 16 slices or more for the Radiodiagnosis Department of Aligarh Muslim University**

Bids are invited for a state of the art machine MDCT with the following specifications with the latest technology. The system must be optimized for higher performance in neuro-radiological, conventional, Respiratory, Oncology and other body examinations. The system should be cost effective, reliable and should provide excellent performance with high patient throughput. All technical claims must be corroborated with a data sheet.

### **Specifications:**

#### **1) PATIENT TABLE:**

- a) Load carrying capacity 180 kg or more with positional accuracy of +/- 0.25 mm
- b) Metal free scan able range of 150cm or more.

#### **2) GANTRY:**

- a) Aperture minimum 70cms or more.
- b) Scan field of view in acquisition mode should be 50cm or more.
- c) Tilt: +/- 30 degree adjustable from gantry and console.
- d) 3- D laser lights for positioning.

#### **3) X-RAY GENERATOR:**

- a) Power output: 50KW or more.
- b) mA range: 20-300 mA

#### **4) X- RAY TUBE:**

- a) Tube voltage: 80-130 kV or more
- b) Anode Heat Storage capacity of at least 5MHU or more.
- c) Specify focal spot size and number as per IEC standard. Automatic selection of focal spot should be possible.

#### **5) SPIRAL ACQUISITION:**

- a) Scan time should be 0.6 sec or less, for full 360 degree rotation.
- b) Minimum slice thickness should be 0.75 mm or less. Specify minimum slice thickness in axial, spiral modes.
- c) Specify the pitch factor for general radiological application and its variability. Specify all possible pitch selections.
- d) Single continuous spiral scan time should be at least 100 sec or more.
- e) Should have multiple acquisition facility with no inter-slice gap.
- f) Bolus triggered or bolus chase spiral acquisition should be available.

#### **6) DETECTOR SYSTEM:**

- a) Minimum number of simultaneously acquired slices must be 16 or more.
- b) Mention minimum acquired slice thickness in axial & helical mode after reconstruction.
- c) Please specify detector width (Z- axis coverage) at I: I pitch.
- d) Specify total number of elements in a row, row arrangement, thickness and number of channels.

#### **7) RESOLUTION:**

- a) High contrast spatial resolution: Minimum of 14lp/cm or more at minimum MTF (4% or less is essential). Further, the above lp/cm at 0% MTF will be preferred. Also mention high contrast resolution at 50% and 10% MTF.
- b) Low contrast resolution: The low contrast resolution at 20 cm CATPHAN phantom should be 5mm or less @ 3HU, also specify radiographic factors and radiation dose for the above specification. Please note that only the lowest available radiographic factors and radiation dose will be preferred. Specify algorithm (Standard & High resolution).

**8) AUTOMATIC EXPOSURE CONTROL:**

- 1) Provision for tube current modulation along Z-axis for different patient sizes and during rotation.
- 2) Paediatric and infant based protocols.
- 3) The system should have the facility to display the total radiation dose to the patient.

**9) IMAGE EVALUATION AND DISPLAY:**

In addition to the software for all routine functions like measurements, annotations, windowing, image addition and subtraction, reversal of images, filters, reference scale and grids, the following software should also be available:

1. MPR
2. Cine display
3. Minimum and maximum intensity projections
4. 3D shaded surface display
5. 3D volume rendering technique
6. 3D Bronchoscopy
7. Automatic bone Sculpting (Auto Bone)

**10) WORKSTATION (Client Server Architecture):**

The workstation should be connected to the proposed CT scanner and existing MRI system. It should have DICOM print and CD/DVD writing facility.

Post Processing Software: Automatic Spine labelling, VRT, Max IP & Min IP, SSD, Vascular Analysis for evaluation and quantification of angiography images of the general vessels with a vascular-specific set of display functions, Neuro digital subtraction angiography, bone free evaluation, CT colonography and polyp measurement.

**11) SOFTWARE TO BE QUOTED OPTIONALLY:**

- a. Calcium Scoring , CT Coronary Analysis, vessel segmentation and Cardiac Function.
- b. Neuro Perfusion: To evaluate dynamic CT data of the brain, provides early differential diagnosis of acute ischemic stroke, imaging of the blood brain barrier disruptions in brain tumours.

**12) REPORTING WORKSTATIONS (4 Nos):**

Reporting stations offered should have Clinical grade monitors (2 MP) with reporting software from the same equipment manufacturer of the CT scanner for post processing, MIP, MPR, 3D Post Processing, MR Image viewing and reporting, DR/CR Image Viewing and reporting as well.

**13) ACCESSORIES:**

- a) Two sets of all patient positioning accessories including tiltable head rest should be included
- b) UPS 80 KVA with 15 min backup.
- c) Lead Glass 100 X 80.
- d) Voltage Stabilizer (120KVA)

**Aligarh Muslim University, Aligarh**  
**Tender Notice**

Sealed tenders are invited for the supply & Installation of a 16 Slice CT machine in the Department of Radiodiagnosis, Aligarh Muslim University, Aligarh, under buyback scheme of the existing CT machine and partial turnkey basis. Tender form, Terms & conditions and Technical specifications may be downloaded from the website [www.amuregistrar.com](http://www.amuregistrar.com). Tender should be submitted in the office of the Chairman, Department of Radiodiagnosis, on or before 13.05.2013 (3:00 p.m.).

(Prof. Ekramullah)  
Chairman  
Department of Radiodiagnosis  
J.N.M.C., AMU, Aligarh

**Department of Radiodiagnosis  
J.N. Medical College  
Aligarh Muslim University, Aligarh.**

**TENDER FORM**

1. NAME AND ADDRESS OF THE FIRM

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2. PHONE NO.....

3. TENDER FEE RS. 2000/-\* (Non Refundable) D.D. NO.....Dated....

4. E.M.D. OF \*RS. 2 LAKH (REFUNDABLE) BANK D.D. NO.....

DATED.....

5. LAST DATE FOR SUBMISSION OF TENDER 13.05.2013 3.00 PM

16 Slice Spiral CT Scanner Rs. ....

Any other terms & conditions, if any, may please be specified clearly.

\*Bank D.D. in favor of Chairman, Department of Radiodiagnosis, AMU, Aligarh payable at Aligarh failing which the tender will not be acceptable

Signature & seal of the Tenderer

Contact No.....