

PURCHASE COMMITTEE NO:2



HEALTH & MEDICAL EDU. DEPTT

(RATE CONTRACT COMMITTEE)
GOVT. MEDICAL COLLEGE JAMMU

TENDER DOCUMENT

Tender Notice NO. II OF 2012

NAME OF THE GROUP : **RADIOLOGY EQUIPMENTS**

FOR THE YEAR : 2012-13

Pre Bid Meeting on : 27-01-2012 at 12:30p.m.

Last Date of Sale of Tender : 13-02-2012 upto 04:00 p.m.

Last Date of Submission of Tender : 15-02-2012 upto 04:00 p.m.

Date of Opening of Tender : 19-02-2012 at 12:30 p.m.

Or any date convenient to the Committee

Place of Enquiry & Sale of Tender:

Office of the Purchase Committee
Govt. Medical College
Jammu/Srinagar.

Place of Opening of Tender :

Directorate of Health services,
Jammu.

GOVT. MEDICAL COLLEGE JAMMU
PURCHASE COMMITTEE No. 2
HEALTH & MEDICAL EDUCATION DEPARTMENT

TENDER NOTICE II OF 2012

For and on behalf of the Governor of Jammu & Kashmir State, Sealed Tenders affixed with Rs.5/- revenue stamps are invited from the Original Manufactures/Firms who are already registered with Health & Medical Education Department of J&K State, for the Group "**Radiology Equipments**" As per detailed specifications given in the Tender documents for the year 2012-13.

These tender documents can be had on written request during all working days upto **13-02-2012** against the Non-refundable cash amount of Rs. 500/-in general and Rs.100/-for local SSI Unit holders from the office of the Principal, Govt. Medical College, Jammu/Srinagar.

The details of the tender documents are also available on the website i.e www.gmcahjammu.org. **Such tenderers who are registered with the Health & Medical Education Department, J&K may download the tender document from the website, but in that case a draft of Rs. 500/- (Rupees five Hundred Only) for General and Rs. 100/- (one hundred) (for SSI Unit) as the case may be payable to Member Secretary Purchase Committee No:-II, Govt. Medical College Jammu as cost of tender should be enclosed otherwise the tender shall be rejected.**

The tender on the prescribed proforma shall be submitted in a single big size envelop containing three envelopes one for "**Technical Bid**" second for "**Financial Bid, in original**" and third for "**Financial Bid in Duplicate**" duly sealed and super-scribed as tender for "**Radiology Equipments**" the year **2012-13** addressed to the **Chairman Purchase Committee No.-II, Govt. Medical College Jammu** should reach the Office where from tender documents have been purchased by or before **15-02-2012 upto 4:00p.m.** The sealed tender(s) should be handed over personally at the concerned office and receipt obtained or can be sent by a Registered Post. Tenders received after due date shall not be entertained. The postal delay shall not be the responsibility of the department The tender(s) will be opened by the Purchase Committee or by an officer duly authorized by the Chairman/ Member Secretary of the Purchase Committee on **19-02-2012 at 12:30 noon**, or any subsequent and convenient date, after the tenders are received, in presence of any intending supplier or any other authorized representative who may be present in the office of the Purchase Committee No:-II, Govt. Medical College Jammu.

The Purchase Committee, H&ME Department reserves the right to accept or reject any tender or any part of the tender without assigning any reasons thereof.

A pre-tender discussion with the intending tenderers in respect to the above said tenders shall be held on **27-01-2012** in the conference Hall of Directorate of Health Services Jammu , at 12.30 P.M

The intending tenderer(s) shall have to deposit an amount of Rs 5,00,000/- (Rupees Five lacs only) and for SSI unit holders the same shall be Rs.5000/- (Rupees Five Thousand only) for aforesaid group as token Earnest Money in the shape of CDR / FDR from any Nationalized Bank or Jammu and Kashmir Bank Ltd pledged to the Member Secretary, Purchase Committee No:-II, H&ME Department, Govt. Medical College Jammu. The tender without earnest money deposit shall out rightly be rejected.

The rates should be quoted against each item of the tender in both words and figures without cutting, tampering and transparent tape should be applied on quoted rates. All the pages enclosed with the tender should be pagem marked and total number of pages attached should be mentioned in the covering.

In the event of any of mentioned dates being declared as holidays/closed day for the purchase Organization, the tenders will be sold /receive/opened on the next working day at the appointed time. The tender documents are non-transferable.

Chairperson
(Director Health Services, Jammu)
Purchase Committee No-II

No: GMC/PC-No.II/

Dated:

Copy to the:-

1. Principal Secretary to Govt. Health & Medical Education Department, Civil Secretariat, Srinagar for information please.
2. Principal, Government Medical College, Jammu/Srinagar for inf. and necessary action.
3. Principal Government Dental College, Jammu/Srinagar for information
4. Director Health Services, Jammu/Kashmir for information
5. Director family Welfare, MCH & Immunization J&K Jammu for information
6. Director, Indian System of Medicines, J&K Jammu for information
7. Controller, Drug and Food Control Organization J&K Jammu for information
8. **Joint Director Information Department Jammu for publication of Tender Notice in at least two leading local papers with largest circulation. The cuttings may be sent to this office for confirmation.**
9. File.

Member Secretary
Purchase Committee No. 2
Govt. Medical College Jammu

Index of items Tendered

S. No.	Name of the Item	Technical Bid enclosed at Page No.
01	Multi Slice (128 Slice) CT Scanner (for Medical Colleges)	
02	Whole Body Multi Slice CT SCANNER (16 Slices / Rotation) (for Health Department)	
03	Mobile C-arm with DSA Unit	
04	Digital Ultrasound Machine	
05	300mA X -RAY MACHINE	
06	Digital Oral Pantograph	

Detailed specifications are under

Item No: 01

Technical Specification for Multi Slice (128 Slice) CT Scanner (for Medical Colleges)

Operational requirements

The spiral CT scanner system for high resolution whole body scanning. The instrument must be capable of acquiring minimum 128 slices per 360° rotation.

Technical Specifications

1. Scan Time

- a. The scan time for one gantry rotation of complete 360° rotation should be 0.35 sec or less.
- b. Should have partial rotation scan facility
- c. Rotation time of Cardiac Application should be 0.35 sec or less

2. Scanning Capability

- i. Pediatric and infant base protocols shall be available based on low radiation dose
- ii. Real time contrast monitoring acquisition with auto scan initiation protocol and with auto injector trigger.
- iii. High Contrast Resolution should be at least 15lp/cm for axial and spiral scan at 0% MTF
- IV. Low contrast resolution should be at least 4 mm at 0.3%

3. Gantry

- i. Aperture of 70 cm or more
- ii. Auto Positioning Light: LASER (with 1 mm positioning accuracy)
- iii. Should have FOV of at least 50 cm or more

4. Detectors

- a) Detector Type: Solid State Array
- b) Data acquisition system capable of acquiring 128 Slices or more per 360° rotation.
- c) The detectors shall have multiple rows with each row having more than 600 detector elements.
- d) Specify Z-axis Detector Array Coverage {Sub-millimeter & Total effective}

5. Slice Thickness

- a) 128 slice acquisition with minimum thickness of 0.625 mm or less
- b) Slice thickness for spiral mode should be minimum of 0.625 mm or less

Pitch Factor (Volume Pitch)

- a) Should be variable between 0.625 -1.5 or better and should be user selectable or automated. (Specify all possible pitch selections.)
- b) Minimum Pitch available for Cardiac Scanning should be 0.2 or less
- c) Should have facility for automated selection of pitch based on heart rate

Scan Time and length in Spiral/Helical Technique

Should be at least 90 sec continuous

6. X-Ray Generator

- a. High Frequency type
- b. Power output: 100 kW or higher
- c. Voltage Selection: 80-135KV or more
- d. mA Range: 700mA or more
- e. Should have automatic mA control (exposure control) facility
- f. Should have facility for ECG-gated mA modulation for cardiac scanning

X-Ray Tube

Anode Heat Storage Capacity- Minimum of 7.50 MHU

Anode Heat Dissipation: 1200 KHU/minute or more with latest technology

Alternatively in case the x-ray tube is with direct cooled Anode than the heat dissipation rate should be 7000 KHU/min. or more.

8. Patient Table

Carbon Fiber Table Top with load carrying capacity 180 Kg with 1 mm positioning accuracy.

Horizontal movement range at least of 160 cm

Metal free scan able range of 150 cm or more

Facility of positioning aid for horizontal Isocentric positioning of the patient

9. Image Reconstruction

Minimum Reconstruction Field of View Range: 5 cm

Maximum Reconstruction Field of View Range: 50 cm

Reconstruction Matrix: 512 X512

Reconstruction Rate: 20 images/sec

Image Display

Image Area Matrix Dimension: 1024 X 1024

Image Display: 1024 X 1024

Parallel Processing

The system should have the following parallel processing

- i. Simultaneous Scanning and reconstruction
- ii. Simultaneous Scanning and routine analysis
- iii. Simultaneous Scanning and archiving and/or hard copying
- iv. Simultaneous Scanning and transfer to second console/workstation

Image Reconstruction

Standard Image reconstruction capability should be at least 20 images/sec.

Hard Disc Capacity for Image Storage 250 GB or more

10. **Real Time CT Fluoroscopy**

Should have option for Real Time CT Fluoroscopy at least 8 frames per second with 18" or bigger color LCD Monitor next to patient table.

11. **Operator Console**

It should have a large 18" or more high resolution LCD monitor with image area matrix dimension of 1024 X 1280 or 1024 X 1024 or more

The system should be user friendly with all functions menu driven. It should be modern user interface.

Standard Reconstruction & Display

All functions including scanning image reconstruction, Film Documentation, Archiving, Transferring, MPR Angiography, Minimum and Maximum intensity projection (MINIP & MIP), 3D Volume rendering, 3D SSD (Shaded Surface Display), Segmentation and Sculpting should be possible. Bone Mineral Densitometer, Dental Scan, Perfusion of Body & Brain.

Patient Communication System

An integrated intercom and Automated Patient Instruction System (API) should be provided.

The image reconstruction time should be at least 20 images/sec or better for all types of acquisition modes including Cone Beam Correction, Neuro Imaging studies.

12. **Independent Workstation**

MPR Angiography, Planes available in MPR, Minimum and Maximum intensity projection (MINIP & MIP), 3D Volume rendering, 3D SSD (Shaded Surface Display), Segmentation and Sculpting,

Clinical Application Software

Basic Angiography, Advanced Angiography, Advance Vessel Analysis, Auto Bone Removal, Small Volume Quantification, Lung Nodule Assessment, Virtual Endoscopy and Colonoscopy, complete Coronary CT Angiography Software.

Cardiac Applications

ECG Triggered Cardiac Scanning for Coronary Angiography, ECG Triggered Cardiac Scanning for Calcium Scoring, Coronary Angiography Vessel Analysis, Multi-sector reconstruction

Computer System & Image Processor

- a) High speed CPU of speed 3.0 GHz or better
- b) Hard Disc of 250 GB or more
- c) Image storage of 5, 00,000 or more of 512 matrix
- d) DVD Writer
- e) Operating system: Preferably Windows based

Others

- a) System should have PACS interface ready without any new hardware or software.
- b) Fully DICOM 3.0 compliant including
 - i. DICOM Modality work list, with automatic procedure selection
 - ii. Capability from HIS-RIS interface

13. **Accessories**

- i. **Dry Laser Camera 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. Throughput of 120 films or more per hour.
 4. DICOM 3.0 Compatible
- ii. **Laser Color Printer**
 1. DICOM 3.0 Compliant
 2. Resolution- at least 1200x1200 dpi.
- iii. Dual Head Contrast Injector with 500 sets of syringes & connecting tubings.
- iv. Two sets of patient positioning accessories.
- v. ECG monitor on the Gantry.

- vi. Lead Glass of size 100 X 150 cm
- vii. Patient Trolley -2 nos.
- viii. UPS of appropriate KVA for complete system including x-ray unit with 15 min backup
- ix. Biphasic Defibrillator with Adult & Paediatric probes.
- x. Pulse Oximeter with Adult & Paediatric probes.
- xi. Crash Cart for Medicines
- xii. Anaesthesia Unit with Ventilator & gas monitoring facility & Dual Vaporizers
- xiii. Light weight Lead Aprons -12 nos.

13. Warranty & CAMC

The Machine, Air conditioning, UPS, and all other Accessories should be under warranty For 5 years and followed by 5 years CMC with all spares. The prices for CMC shall be quoted at the time of tendering process. The Prices of CMC shall be considered for the evaluation

14. Turnkey:

Equipment must be offered under Turnkey basis and the site plan must be made in consultation with WBMSC and the concerned HOD of the Medical College & their approved plan to be attached to the tender.

Schedule of finishes for civil work

S.No.	Room	Flooring	Skirting / Dado	Walls	Ceiling
1	Reception, waiting and Patient preparation room	400 x400 x 8.5 mm thick mirror stone tiles	100mm high skirting to match floor.	Cement Plaster & Emulsion Paint	Perforated Al. Panel False ceiling with acoustic lining & all suspension.
2	Examination room	300 x 300 x 2.0 mm thick mirror vinyl tiles	100mm high hard wood skirting.	Plaster & Oil pre-laminated particle board wall paneling	-do-
3	Control, Computer, CT Gantry Room, Consultant Room, Conference Room, Reporting & coridor	400 x 400 x8.5 mm thick mirror granamite tiles	100mm high granamite tiles skirting.	Cement plaster & emulsion paint	Perforated Al. Panel False ceiling with acoustic lining & all suspension
4	Toilets, Dark Room	300 x 300 x 2.0 mm thick mirror ceramic tiles	150x200x5 mm thick glazed tiles upto door height from floor level.	Plaster and Oil bound distemper on walls above false ceiling	Gypsum board false ceiling with oil bound distemper paint
5	Electrical Room, A/C Room.	52mm thick cement concrete flooring with hardner	100 mm high cement plaster skirting	Cement plaster & dry distemper paint	Plaster & dry distemper paint

2. Furniture

- i. Revolving type chairs with arm on castors (Preferably Godrej make),
- ii. Non revolving type chairs with arm (Preferably godrej make)
- iii. Cup boards (Preferably godrej make)
- iv. Office tables (Preferably Godrej)
- v. Sofa cum bed (Preferably godrej make)
- vi. Almirah with 6 lockers each (Preferably Godrej make)
- vii. Patient examination couch ,

3. Fire extinguishers has to be adequately provided with the fire detecting system.

4. Film Viewers:

- 4 films display -1 nos.
- 2 films display -2 nos.

5. **Air-Conditioning:** complete centre to be air-conditioned with air-cooled packaged units with automatic temperature and humidity control.

6. **Gas Piping** for anaesthesia in Gantry Room and patient preparation room connected to hospital gas supply system.

Item No: 02

Technical Specification for Whole Body Multi Slice CT SCANNER (16 Slices / Rotation)

(for Health Department)

The Model offered should be the latest High end model under current production, should be Slip Ring Technology. Refurbished, Gold Seal Units will not be accepted. The Offer should meet the Specifications as follows

Gantry:

1. The CT Scanner should have low Voltage Slip Rings incorporated in the Gantry
2. The Minimum scan time for a 360 Degree rotation should be Sub Second & not more than 0.8 Seconds.
3. The gantry should have a minimum tilt of 25° **on either side and remote** tilt should be available as standard.
4. The gantry should be provided with User control panels on either side for easy positioning
5. The One millimeter Slice in 16 Row acquisition should be available.
6. The Gantry should have 3D Positioning Laser lights.
7. The Scan field of view (FOV) in acquisition mode should be at least from 200 mm to 400 mm with intermediate Steps for scanning different anatomies.
8. Aperture should be at least 70 cm diameter.

X ray Section:

The X ray Generator should be compact and inbuilt in the Gantry.

1. The System X ray power should be 40 kw and above
2. The MA range available should be between 10 to 300 MA or more with increments in steps of not more than 10 ma .
3. The X ray Tube should be essentially Dual Focus with capacity of at least 3.5 MHU. Any special feature of the X ray tube to be highlighted with literature.
4. Specify the focal Spots of the X ray tube.
5. The X ray tube should have a cooling rate of not less than 700 KHU per MIN
6. The X ray tube Cooler Unit should be in built in the Gantry

Detectors:

1. The Detector Offered should be Solid State. Specify the Material
2. **The Effective Elements/ Channels should be at least 650 per row. The 16 slice per Rotation should be possible with the detectors in One mm or less Mode .**
3. Specify the Fan Angle of the X rays and the geometry The detectors should not require frequent calibration.
4. Specify the Number of Rows & the Total Number of Detector Cells..

MDCT 16 / Slices / Rotation

Patient Couch:

1. The patient table offered should have a minimum load bearing capacity of at least 170 KG.
2. The Minimum table top height should not be more than 55 cms from the floor level for easy transport of trauma patients.
3. The Floating table top width should be atleast 38 cms for better comfort.
4. The range of metal free scan should be atleast 165 cms.
5. The vertical range should be atleast 55 cms (max height – min height)
6. Specify the reproducing accuracy of the table.
7. Remote UP/DOWN , FWD/BWD of the Patient Couch should be standard

Spiral / Helical Section:

1. The system offered should have Spiral Capability of at least 100 seconds & above. Real Time Spiral @ 8 f/s should be standard.
2. The range of Spiral facility in Axial Direction should be more than 100 cms.
3. The Reconstruction Time in Spiral scan should not be more than 130 Milli seconds. (At least 8 Images / second)
4. The system should have the Smart Prep or equivalent facility & ability to track Contrast medium to trigger scan should be included in the scope of Supply. More than 2 No:s ROI is required for such Contrast Chase & Exposure Trigger facility.
5. System should perform Dose Reduction scans using the latest Technology and specify the Technology
6. Hi Res scan package should be offered as standard

Computer Section:

1. The Computer offered should be the Latest Multi tasking Processors and a menu driven platform with a RAM size of at least 3 GB
2. The Monitor should be the latest Color of at least 18 inches and flat screen. There should be Console with One Monitor & a Separate Independent Work Station .
3. The display matrix should be at least 1024 / 1024.
4. The reconstruction time for a Axial scan should not be more than 120 Milli seconds.
5. The Hard disk Capacity for both Image and Raw data should be more than 100 GB
6. It should have facility to store at least 100,000 Images
7. The system should be supported with archiving facility of DVD & CD Main Console

8. DICOM facility to send, store, print, receive, Query / Retrieve , MWM , MPPS etc should be standard. Remote Diagnosis & Fault detection should be standard.
9. PC Based connectivity should be standard for easy transfer of Images & Report.
10. 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.

Image Processing section:

1. The Main Console should have standard software like 3D Volume rendering , MIP , CT Angio, Color Angio Display, 3D ArtefactSuppressions , Pre set 3D Reconstruction & Display Protocols, Auto Bone Removals , CT Based DSA Attachment
2. All softwares as above and Specialized Softwares such as Virtual Endoscopy, Colonoscopy, CT Perfusion, Dental scan, CT Angio graphy , Bone Removals , CT / MRI Fusion should be available on the Work Station .
3. The following soft ware should be offered as standard (MPR , ROI , VOLUME CALCULATION , CT NUMBER Measurement of between -10, 000 to + 25,000 , WINDOW WIDTH , WINDOW LEVEL , TOPOGRAM DISPLAY , CINE DISPLAY , HRCT LUNG, DYNAMIC SCAN)
4. Direct Display of MPR Images immediately after scan is preferable.

Resolution:

1. The System Spatial Resolution should be mentioned with parameters.
2. The low contrast resolution should not be more than 4 mm at 0.3 % . Shoulder, Pelvis Streak Artefact suppression Software should be standard.
3. Noise Suppression protocols to maintain LCR at low dose should be standard.
4. Special Softwares (Like MA Modulation in Routine) to ensure Dose efficiency should be standard.
5. Specify the CT Dose Index

Accessories:

1. Multi size Dry Laser Imager of any reputed make.
2. Color Laser Printer of any reputed make.
3. Lead Glass of at least 2 ft by 4 ft
4. Stabilizer for the Entire system of suitable capacity
5. UPS with One hour back up of suitable capacity to handle CT Computer, Laser Imager, Work Stations & Color Printer.
6. Dual Phase Contrast Injector of reputed make with 100 No: Syringes & Tubings.

Warranty:

1. Five Years for CT Scanner System including X ray tube and all accessories.
2. The offer should be accompanied by Original data sheet/brochure of the product.
3. The Cost of the CMC (Comprehensive Maintenance Contract) from 6th to 10th year inclusive of labor spares and X Ray tube. The CMC should cover all vendor items and local accessories. This will be added to the Cost for evaluation of the Tender and to arrive at the Lowest Bid.

Others but Mandatory:

- The Systems & the Configuration as mentioned above are Mandatory & no item as asked above shall be treated as Optional in the Offer.
- All compliance to the Tender should be in the form of Original Data sheet or Original Certificate from the manufacturer not scanned one or photo copy. Items under Work in Progress will not be considered.
- Training for Doctor anywhere in India for two weeks & on Site for two weeks after Installation.
- On Site Training for the CT Technicians for a period of Two Weeks.
- Service Engineer shall be available at State Level.
- As there is continuous Development of Technology, the latest Model available with the Manufacturer should be offered in the Tender.
- User list and performance certificate of at least THREE Installateld & maintained 16 slice CT Scanners or above in past three years from Govt. /Reputed Pvt. Sector Hospitals. Should be submitted along with technical/commercial bid.

Item No: 03

Specifications for mobile C-arm with DSA Unit

Mobile surgical image intensifier system with true counter balanced C-arm for fluoroscopic and X-ray operation.

1. **X-ray Generator and X-ray tube** (Specify the name of manufacturer)
 - a. X-ray generator should be of high frequency technology. (Specify the name of manufacturer)
 - b. Fluoroscopy Mode 40-110 KV or more with last image hold 0.2 mA to 8mA or more
 - c. Digital Radiography Mode 40-110 Kv or more
0.2 mA to 10mA or more
 - d. Pulse fluoroscopy with last image hold
 - e. Cassette exposures should also be possible.
 - f. System should have provision for Automatic Dose Rate Control.
 - g. Unit should have Iris collimator for concentric, radiation-free collimation
 - h. X-ray tube should be Single/Dual focal spot type.
 - i. It should be possible to carry out continuous fluoroscopy for more than 45 minutes
 - j. There should be programs to reduce dose during fluoroscopy. Patient dose should be displayed on the monitor
2. **C-Arm**
 - a. Orbital movement 125° (- 35° to + 90°)
 - b. Angulation ±180° or more
 - c. Horizontal movement 20 cm or more
 - d. C-arm depth 70 cm or more
 - e. Swivel range ± 12.5°
 - f. Motorised Vertical movement 42 cm or more
 - g. Tube to II distance 95 cm or more
 - h. Radiation indicators
3. **X-ray image intensifier** (Specify the name of manufacturer)
 - a. Size 9 inch and zoom to 6"
 - b. It should have good resolution of minimum 14lp/Cm. Vendor should be able to demonstrate this with appropriate tools.
 - c. TV matrix 1k x 1K
 - d. Continuous Digital image rotation should be possible
 - e. Digital imaging system with image processing, storage and archival in 1 K x 1 K matrix
 - f. Unit should be provided with Cassette holder.
 - g. Unit should be DICOM compatible with DICOM viewer, DICOM Print, DICOM Worklist and facility to take data from HIS/RIS.
 - h. It should be possible to storage 200 digital images in 1 K x 1 K matrix. It should be possible to save images on CD/Pen drive etc.
4. **Image Viewing**
 - a. 18" or more TFT monitors of medical grade mounted in a trolley (Specify the name of the manufacturer)
 - b. Image matrix 1K x 1K
 - c. Monitor brightness 5500 cd/m²
 - d. Horizontal | vertical viewing angle 165°/165°
5. **Accessories**
 - a. Sterile cover
 - b. Lead aprons 6 Nos
 - c. Key board
5. **Unit should have DSA with following features**
 - a. Digital Subtraction with Roadmap facility.
 - b. Application-specific fluoroscopy and radiography curves for the individual operating modes
 - c. Noise reduction, edge enhancement, auto loop for all fluoro modes, thumbnail review, lookup table for contrast enhancement.
 - d. It should be possible to storage 5000 digital images in 1K x 1K matrix in DSA option. It should be possible to save images on CD/Pen drive etc.
 - e. Patient data management
6. **Others**
 - a. Company should have local service facility in the state
 - b. Company should confirm the availability of spare parts for 10 years from the date of supply of the equipment.
 - c. Company should have 24 x 7 call logging facility with a call centre
 - d. Unit should be CE/FDA approved and should also have type approval certificate from AERB
 - e. In case of dealer/distributor, proper authorization from original manufacturer should be enclosed.
 - f. **The price of CMC should be quoted at the time of tendering** for next five years after warranty.

Item No: 04

Specification of Digital Ultrasound Machine

Real time high resolution digital ultrasound unit can be used for applications such as Abdomen, Obs./Gynae small parts and general use. The system can be upgradeable to future clinical needs.

Technical Specifications:

1. The system should have integrated trolley with Alphanumeric key board with track ball.
2. The system should have integrated 15"High Resolution TFT/LCD monitor with the facility of tilt/swivel & height adjustment along with handle for convenient grip.
3. The system should have two transducer connectors with the facility of electronic switching with a single key & Gel holder-conveniently placed.
4. The system should have B-mode, B+B, B+M & M-mode with variable sweep speed.
5. **All transducers should have Broad Bandwidth technology for extremely high resolution imaging. Frequency range of Transducers should be 2-14 MHz or more. All transducers should have multifrequency (minimum three) selection.**
6. The system should be offered with the following transducers :
 - (a) Electronic Convex Transducers with frequency range of 3-6 Mhz. with Tissue harmonic frequency (THI).
 - (b) Electronic Endocavitary probe with frequency range of 5- 7.5 MHz. with minimum FOV 130°.
 - (c) Electronic linear probe with frequency range of 8-14 Mhz.
7. Controls for Depth, gain adjustments & body markers with transducer position.
8. The System should have imaging depth of atleast 24 cms or more.
9. The system should have real time auto focus with digital beam former.
10. The system must have Tissue Harmonic Imaging in Convex probe.
11. The system should have zoom and scrolling facility in real time & frozen mode.
12. The system should have 256 grey scales.
13. The system should be capable of measuring BPD, CRL, FI, HC & AC and other advance GA Parameters. Advanced measurement package is also available for Obs./Gynae with twin pregnancy package, IUGR trend graphs etc.
14. The system should have minimum 8 Step STC/TGC
15. The system should have the caliper with trackball for the measurement of distance, circumference area, volume etc. Should be possible to make different measurement on single image. Measured parameters should automatically reflected on the report page.
16. The system should have the facility to do post storage measurement & zoom on stored images.
17. The system should have the cine loop memory more than 100 frames.
18. The system should have the user programmable key for easy & convenient handling of the system
19. The system should have memory to store images min. 200 frames. & USB ports for the flash drives.
20. The system should have inbuilt HDD & CD-R Drive. Also system should be DICOM compatible.
21. System should be supplied with the following accessories:
 - (a) One KVA online UPS
 - (b) Sony B/W thermal printer
22. The system should be offered with one year comprehensive warranty and five year free labor AMC.
23. The quoted system must be FDA approved.

Item No: 05

SPECIFICATIONS FOR 300mA X-RAY MACHINE

General purpose, high frequency X-ray machine for radiography.

X-ray Generator .

Output Power :	30 KW or more
Mains Voltage adjustment:	Automatic
mA Output R	: 300 mA or more
KV Out put range	: 40 KV to 125 KV
mAs Range	: up to 200 mAs
Exposure Time	: minimum 1 Oms to 10 Sec.

X- Ray Tube: BEL (a Govt. of India Enterprise) Rotating Anode 125/20/40 or equivalent (specify the make). Please specify the focal spot size, anode RPM, filtration provided by the offered tube

Digital display kV & mAS

Parameter selection kV and mAS

Examination Table It should be a movable table top in longitudinal and transverse directions. Its table top should be radio transparent and capable of handling heavy patients. It should be provided with stationary grid of 10: 1, 60 lines per Cm

It should be provided with a fully counterbalanced ceiling free type column stand. All the movements of the table and column stand should be locked by electromagnetic brakes.

Unit should operate on three phase 415 Volt, 50Hz. Line with a suitable three to single phase convertor transformer.

1. Unit should be approved by AERB/BARC for radiation safety norms.
2. Company should have local service facility in the state
3. Company should confirm the availability of spare parts for 10 years from the date of supply of the equipment.
4. Company should have well established after sales service network with call centre having 24 x 7 call login facility.
5. In case of dealer/distributor, proper authorization from original manufacturer should be enclosed.
6. The machine should have five years warranty followed by CMC of next five years. The price for CMC should be quoted at the time of submitting tenders.

Item No: 06

Digital Oral Pantograph

1	KV	60-80 KV
2	mA	4-10mA
3	Focal Spot	0.4mm
4	Exposure Time	11sec for child pantomography 12 sec for standard pantomography
5	Line voltage	115 VAC, 60Hz or 250 Vac, 50 Hz
6	Maximum Line	10A at 250V
7	Power rating	15A at 115 V
8	Weight	254 lbs (115Kg)
9	CCD sensor resolution	10.4 lp/mm (Lines/mm)
10	CCD sensor Pixel size	48µm
11	CCS sensor Active area	146 x 6mm
12	Image resolution	5.2 lines / mm
13	Image pixel size	96 µm
14	Image size	1536x2725 pixel
15	Minimum PC requirement	Minimum dual core-II, CPU 800 Mhz DDR2, 4GB RAM
16	Required Operating system	Windows 7 XP

TERMS & CONDITIONS OF TENDER

Tender Notice No: II of 2012 (Radiology Equipments) For the year 2012-13

1. The tenderer should be registered supplier of the Health and Medical Education Department.
2. The tender on the prescribed proforma shall be submitted in a single big size envelop containing three envelopes one for “**Technical Bid**” second for “ **Financial Bid, in original (containing item wise sealed financial bids)**” and third for “**Financial Bid in Duplicate**” duly sealed and super-scribed as tender for “**Radiological Equipments (Tender Notice No:II of 2012) for the year 2012-13**” addressed to the **Chairman Purchase Committee No.-II, Govt. Medical College Jammu**. The Purchase Committee shall not be held responsible for any postal delay, if the tender is sent by post. Tenders not accompanied with the following latest documents alongwith other requisite documents at the time of submission of tenders shall be rejected at the appropriate level of the competent authority.
3. **Technical bid consists of the following documents:**
 - I. Earnest Money Deposit of Rs.5,00,000/-(Rupees Five lacs only) for general and Rs.5,000/- (Rupees Five Thousand only) for Small Scale Industrial Unit holder of J&K State in the shape of CDR/FDR from any Nationalized Bank/Scheduled Bank preferably J&K Bank Ltd having validity not less than 24 months pledged to the Member Secretary, Purchase Committee No:2, Govt. Medical college, Jammu as per format: (if the EMD not pledged to Member Secretary the tender is liable for rejection).
CDR/FDR Format:
Received from M/s...ABC...pledged to the Member Secretary, Purchase Committee No: 2, Govt. Medical College, Jammu.
 - II. **The authority letter of the Principals (Original manufactures)**. The Authority letters should be latest and provision of fake/false authority letters will be considered an offence and such supplier shall be blacklisted for providing any supplies in the Department of Health & Medical Education Department, J&K State.
 - III. Sales Tax / VAT registration certificate.
 - IV. Latest sales tax certificates (now called VAT) valid at the time of opening of the tender issued by the sales tax authority under relevant sales tax act and the amendments made thereafter from time to time.
 - V. **Non- Blacklisting Declaration:** The tenderer shall furnish a non-black listing certificate that the firm has not been blacklisted in the past by any Govt./ Private institution. The tenderer has to give an affidavit on non-judicial stamp paper duly attested on Rs.50/- that there is no vigilance/CBI case pending against the firm/ supplier and the firm has not been blacklisted in the past in any institution of country.
 - VI. An affidavit on Rs.50/- stamp paper duly attested by **1st Class Executive Magistrate** with the effect that the documents/catalogues etc enclosed with the Tender are original & genuine and have not been tampered or fabricated.
 - VII. **The item wise technical specification compliance statement with detailed catalogues of the product** should be provided by the bidder.
 - VIII. The SSI unit holders shall have to enclose a certificate to the effect that the Unit is existing on the date of issue of tender from General Manager, DIC concerned.

Absence of any one mentioned above may lead to rejection of tender outrightly.

The eligibility criteria of the bidders shall be as under:-

The eligible criteria in respect of this tender shall be a minimum **annual turnover of Rs. 15.00 crores** of the Principal/Original manufacturer on whose written authority the bidder submits tender, duly authenticated by Income Tax department/supported by balance sheet certified by the Chartered Accountant.

Financial Bid consists of following:

- i. **“Price-Bid”** (Financial bid) properly sealed separately alongwith duplicate, superscribed as Tender for **“Radiology Equipments”** and shall **mention details of the Items quoted.**
- ii. Financial bids (Price bid) of only those tenderers shall be opened who qualifies in Technical specification Compliance Statement supported by product catalogues on the basis of Technical Evaluation report submitted by the experts of respective discipline.
4. It will be the responsibility of the tenderer to attach the relevant documents / catalogues/ other supportive material with the tender failing which the tender shall be liable to be rejected.
5. In case of any authority found forged/tampered, the firm is likely to face legal action against them under rules including forfeiture of their earnest money.
6. The tender documents should be page marked and bearing signature with seal on each and every page.
7. The rate quoted must be F.O.R. “Stores of the Govt. Medical College/Dental College/Health Services/State Health Society/ISM/Hospitals and any other Govt. institution dealing with patient care in Jammu/Kashmir Division”.
8. The tenderer supplying indigenous goods or already imported goods shall quote in Indian Currency only.
9. For imported goods, prices shall be quoted in any freely convertible currency say Dollar, Euro, GBP or Yen. As regard price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed/undertaken in India. Commission for Agent, if any and if payable shall be indicated in the space provided for the price schedule and will be payable in Indian Rupees only. The prices for comparison (only) shall be taken as the prevailing rates on the day of opening of tenders.
10. Tender where prices are quoted in any other way shall be treated as non- responsive and rejected.
11. The rates quoted should be inclusive of all taxes, duties, other charges like packing, forwarding etc. including entry tax, if any. No separate Tax/ Levies will be allowed. The rates should be quoted in accordance with the enclosed Price Schedule showing all components of charges.
12. Rates Quoted should be typed and free from fluiding/cutting and overwriting. No hand written quotation will be accepted. All pages of the documents submitted should be numbered & total number of pages indicated in the index. Transparent tape should be applied on each quoted rates.
13. Details of documents enclosed with the tender forms should be mentioned in Proper Index serial wise duly flagged on the front page of your tender.
14. The document submitted by the firm with the tender will be opened in public in the presence of tenderers/representatives of the firms and the officers opening the tender will sign the tender documents.
15. The tenderer/ authorized representatives should point out to the Chairman/Member Secretary, Purchase Committee No.-II, GMC, Jammu, embitterment, if any, at the time of opening tenders or; thereafter the tenderer/ authorized representative will have no legal right to confer or to represent on one ground or the other.
16. All the documents attached with the tender should be signed and sealed by the bidder it self.
17. No conditional tender shall be accepted. The committee reserves right to accept or reject any tender/ quotation without assigning any reasons thereof.
18. **The approved firm shall be bound to deliver ordered equipments within 8 weeks or a period mutually agreed up by the authorities.**
19. If the delivery is not effected on due date, the Chairman/Member Secretary, PURCHASE COMMITTEE/Head of the Departments of the respective institutions will have the right to impose penalty of the total cost of the supply order as under
 - i) First extension for the month on part thereof : @ 2%
 - ii) Second extension for an additional month : @ 5%thereafter no extension shall be granted and the item shall be purchased on the risk and cost of the supplier.

20. The successful tenderer shall be responsible for execution of the supplies strictly in accordance with the contract in full and shall not in any case assign or sublet any part thereof. Deviation, if any can lead to forfeiture of Earnest money with holding of other deposits in Health and Medical Education Department as a whole or even black listing of the suppliers/ firms/ dealers/original manufacture.
21. If in case the tenderer fails to supply the material within the delivery period, the order will be liable to be treated cancelled and earnest money will be forfeited.
22. Rates should be quoted for the superior quality material only with Nomenclature/catalogue with submission of samples (wherever required) duly marked with seal & signature of the firms.
23. In case any Tenderer, if charges higher rates for any item (items) more than the MRP, the action like forfeitures of earnest money/security money/ performance bank guarantee and removal of name from the list of the supplier shall be taken against the firm.
24. The Successful tenderer are bound to supply the material on the rates once quoted by them and once approved by the Purchase Committee. Any hike in tax on later stage will not be paid if not levied by the J&K Govt. However in the event of any revision in the existing rates of duties or introduction of any statutory duty and taxes imposed by the Government, the same will be paid extra on production of satisfactory documentary proof.
25. The approved supplier shall carefully examine the conditions, specifications, size, make and Catalogue/drawings etc. of the goods to be supplied wherever applicable. In case of any doubts, he shall before signing the contract refer to the Head of the institution/Officer-in-charge and get clarifications.
26. If in any case it is noticed that any manufacturer, firm, authorized dealer, approved supplier or any other agency is supplying item of similar specification lower cost than that of tenderer and approved as per this tender notice, the firm should have to make the supplies at such lower rates and excess amount if any paid for supplies already made shall be recovered in lump sum.
27. If at any stage during the tenure of the tender the successful tenderer reduces the sales price lower than the quoted rates under agreement will forthwith notify such reductions of the sale price to the undersigned immediately.
28. All terms and conditions of tender notice shall conform part of the supply order/agreement.
29. The successful tenderer shall have to abide by the standard terms and conditions as laid down in the J&K book of financial rules/ codes and the conditions as per the contract.
30. Five years Warranty for each item equipment from the date of installation and its successful commissioning at required site. The details of AMC and CMC after the warranty period shall be mentioned separately. Any condition mentioned against each item in the list of items in tender document shall also be the part of the terms & conditions.
31. The rates contract shall remain valid for a period of one year from the date of its issuance which can be extended for a period of 90 days or till such time the new rate contract is issued, whichever is earlier.
32. The successful tenderer should ensure immediate supplies if supply order is placed on to them and they are bound to supply material strictly as per the conditions approved by the Purchase Committee. If at any stage it is found that material supplied by the firms is not according to, as approved by the Purchase Committee, the ACTION AS DEEMED FIT WILL BE TAKEN AGAINST THE FIRM.
33. The experts may call for the sample/part(s) of the equipment for physical demonstration of the product. The tenderer(s) shall have to arrange the equipment as per the given time by the experts and for that no extra cost shall be paid by the department.
34. The successful tenderer shall have to execute an agreement in the prescribed form with the purchase officer concerned.
35. The Purchase Committee shall also be competent to alter/ modify the specifications of any item/ items for purchasing in the best interest of the Department during the process of finalization of a contract viz. Placement of supplier order.

36. All the stores supplied shall be of the best quality, specification, trade mark and in accordance with the approved standard, catalogue, samples if provided. In case of any articles supplied not being approved, shall be liable to be rejected or replaced and any expenses as a result of rejection or replacement of supplies, shall be entirely at the cost of tenderer.
37. The tenderer shall be responsible for the proper packing, so as to avoid damage under normal conditions of transport by rail, road or air and delivery of material in good condition to the consignee at the destination. In the event of any loss, damage, breakage, leakage or any shortage, the tenderer shall be liable to make good such loss and shortage found at the checking/ inspection/ verification of the materials by the consignee, no extra cost on such account shall be admissible.
38. In case of any dispute/ difference or doubts between the purchasing officer and the approved suppliers arises, the orders of the Chairman, Purchase Committee shall be final.
39. The supplies shall be accepted only in proper packing where-ever required in stores. The supplies meant for, in the Health & Medical Education Department, Jammu Division and be embossed as "**J&K Hospital Supplies and Not For Sale**", wherever required.
40. **Performance Security:** The approved supplier shall have to deposit 10% of the value of the supply order with the concerned Purchasing officer, duly pledged, in shape of Bank Guarantee valid two months beyond the warranty period
41. **Payment:-** 100% payment shall be made to the supplier after the receipt/ verification of materials, installation and successful commissioning of the equipment at the required site strictly as per supply order after obtaining 10% bank guaranty, through endorsed bills/ bank drafts etc. and the bank charges on account of remittance shall be made good from the payee.
42. No advance payment shall be authorized unless required under specific terms & conditions. Payment will be made only after the supply is made in the quantity ordered.
43. Either of the sales tax (only one tax) shall be payable i.e. Central or State.
44. Any other condition that is not indicated here can be incorporated in the supply order or agreement before execution of a contract if need be.
45. All the ingredients of the Checklist and General instructions incorporated shall be treated as a part of conditions of the contract.
46. Legal proceedings that may arise at any time shall be subject to the jurisdiction of J&K Courts at Jammu/Srinagar only.

Signature with Seal
Of the tenderer
In acceptance

CHECK LIST FOR THE TENDERERS
TO BE ENCLOSED WITH TECHNICAL BID
UNDER GROUP “Radiological Equipments” FOR THE YEAR 2012-13

S. NO.	DOCUMENTS	ANNEXURE NO.	PAGE NO.
1	Earnest Money in the shape of CDR/FDR worth Rs.5,00,000/- (Five lacs only) in general Rs. 5000/- (five thousand) for SSI unit.		
2.	➤ Index Page showing items quoted, their manufacturers etc. ➤ Technical Specification Compliance Statement supported by the catalogues. ➤ SEALED Price bid		
3.	The eligible criteria in respect of this tender shall be a minimum annual turnover of Rs. 15.00 crores of the Principal/Original manufacturer on whose written authority the bidder submits tender, duly authenticated by Income Tax department/supported by balance sheet certified by the Chartered Accountant.		
4.	Latest Certificates (ISO/CE/USFDA etc)(if any)		
5.	Undertaking/ Letter of Acceptance		
6.	Non Blacklisting Declaration		
7.	Copy of manufacturing license (if any)		
8.	Valid sales tax/VAT clearance certificate		
9.	Copy of PAN Card		
10.	Manufacturer’s Authorization (The letter of Authorization should be on the letter head of the manufacturing firm and should be sealed & signed by a person competent).		
11.	In case of SSI unit, enclose Permanent Registration Certificate issued by Industries Department supported with a certificate that the unit is in existence from General Manger, DIC concerned.		
	Total No. of pages		

- The tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender and no column is left blank. If any column is not applicable, it may be filled up as NA.
- It is the responsibility of tenderer to go through the Tender Document to ensure furnishing all required documents in addition to above, if any.
- The tenderer should furnish all the relevant information mentioned in the checklist.
- All pages of the tenders should be page numbered and indexed.
- Wherever necessary and applicable, the tenderers shall enclose certifies copy as documentary proof/evidence to substantiate the corresponding statement.
- In case a tenderer furnishes a wrong or evasive statement, his tender will be liable to be ignored/rejected

With Seal & Signature

(Full name, designation & address of the Tender)

**UNDERTAKING/ LETTER OF ACCEPTANCE IN RESPECT OF TERMS & CONDITIONS UNDER GROUP
“RADIOLOGICAL EQUIPMENTS” FOR THE YEAR 2012-13**

Sir,

1. I / we do agree for all clauses, terms and conditions of the tender documents.
2. I / we agree to abide the contract for a period of **one year** to provide the services from the date of award of the contract and ready to work on the same rates, if extended for a further period of three months or till new contract is finalized.
3. I / we declare that our financial position is sound and we are competent to execute the supplies as & when allotted.
4. I/ we declare that we will not ask/ expect any financial assistance from the Govt. of Jammu & Kashmir State.

In acceptance
(Signature and seal of the tenderer)