

# ***Baba Farid University of Health Sciences, Faridkot***

## ***E-TENDER NOTICE FOR supply& installation of 64 Slice CT Scan***

### **E-Tender Form**

#### **for supply and installation of 64 Slice CT Scan in the Department of Radiodiagnosis at Guru Gobind Singh Medical College & Hospital, Faridkot**

Tender Notification No :	<b>To be provided by the E-procurement portal of the Govt. of Punjab.</b>
Requirement	<b>E-Tender notice for supply and installation of 64 Slice CT Scan in the department of Radiodiagnosis at Guru Gobind Singh Medical College &amp; Hospital, Faridkot.</b>
Cost of the tender document:-	Rs.1000/- (Non-refundable) to be deposited through through online mode only i.e. Net Banking/Credit Card/Debit Card.
Tender Processing Fee	Rs.2300/- (Non-refundable) fee to be deposited through online mode only i.e. Net Banking/Credit Card/Debit Card.
Earnest Money Deposit (EMD)	Rs.8,00,000/- (Rupees Eight Lacs Only) (Refundable to the Non-successful bidders, without any type of interest or other charges) in shape of DD in favor of Registrar, BFUHS, Faridkot on or before due date. However, it will be converted into Performance security in case of successful bidder and will be returned after successful completion of the warranty period.
Date of start of downloading of tender documents	<b>15.11.2016</b> from the website of the Punjab Government i.e. <a href="https://etender.punjabgovt.gov.in">https://etender.punjabgovt.gov.in</a>
Website for downloading of the tender document	<a href="https://etender.punjabgovt.gov.in">https://etender.punjabgovt.gov.in</a> <b>However, the details may also be obtained from the University website i.e. <a href="http://www.bfuh.ac.in">www.bfuh.ac.in</a> and college website <a href="http://www.ggsmch.org">www.ggsmch.org</a></b>
Last date for downloading of the tender document	<b>23.11.2016 up to 12.30 pm</b>
Last date & time for uploading of the tender documents	<b>23.11.2016 up to 1.30 pm (through online mode only)</b>
Date, time and venue for opening of the Technical Bids	<b>23.11.2016 at 2.30 p.m. on the e- procurement portal of the Govt. of Punjab in UPFD, Baba Farid University of Health Sciences, Faridkot</b>
Date, time and venue for opening of the Price Bids	<b>24.11.2016 on the e- procurement portal of the Govt. of Punjab in UPFD, Baba Farid University of Health Sciences, Faridkot</b>
Who can be contacted for obtaining more information about the tender.	Principal, Guru Gobind Singh Medical College & Hospital, Sadiq Road, Faridkot. Phone:- 01639-251111, Mob:8558872572, 09356912818 E-mail: <a href="mailto:pr_ggsmc@yahoo.com">pr_ggsmc@yahoo.com</a> (on all working days from 9.00 a.m. to 5.00 p.m.)

#### **Important Note:-**

- ***For any clarification about the E-tendering, Digital Signature certificates and User Id, the Bidders/agencies may contact on Punjab e-procurement helpline numbers 92572-09340, 80546-28821, 0172-3934667.***
- ***The Bidders/ Agencies may also contact Sh. Harmeet Singh, District Co-ordinator of Punjab Infotech, Chandigarh at Mob: 81466-99868 for more information about the e-tendering activities.***

## **NOTICE INVITING E-TENDER**

**E-Tenders** are invited on or before 23.11.2016 from manufacturers or their authorized agents/distributors **for supply and installation of 64 Slice CT Scan** in the Department of Radiodiagnosis, Guru Gobind Singh Medical College & Hospital, Faridkot as per Scope of Supply. The tender document containing detailed terms & conditions may be downloaded from the E-procurement website of the Punjab Government i.e. <https://etender.punjabgovt.gov.in> and its detail may also be seen at the University website [www.bfuhs.ac.in](http://www.bfuhs.ac.in) and college website [www.ggsmch.org](http://www.ggsmch.org)

### **TERMS AND CONDITIONS:-**

1. **THE TENDER must be submitted online on or before the last date/ time of the submission of tender.**
2. The Tender Document Fee should be submitted through online mode only , and EMD should be submitted in shape of DD in favour of Registrar, Baba Farid University of Health Sciences, Faridkot on or before due date.
3. The Tender processing fee should be submitted through online mode only as per Punjab infotech services.
4. The **tenders will be opened online** on the same day at 2.30 p.m. on the website i.e. <https://etender.punjabgovt.gov.in>. in the University Procurement & Facility Department (UPFD), Baba Farid University of Health Sciences, Faridkot. The bidder(s) shall be at liberty to be present, in person or through their authorized +representative(s) at the time of opening of the tender as specified in the Tender Notice. In case the authorized representatives are to be present, they must furnish the authority letter from the bidder (s), on whose behalf they are representing otherwise they will not be allowed to participate in the process of opening of tender.
5. **The Price bids of technically qualified bidders will be opened** on 15.11.2016 at 2.30 p.m. on the website i.e. <https://etender.punjabgovt.gov.in>. in the University Procurement & Facility Department (UPFD), Baba Farid University of Health Sciences, Faridkot. In case of any change of date and time it will be notified to the technically qualified bidders through E-mail/telephone.
6. The Registrar reserves all rights to accept or reject any or all the tenders without assigning any reason.

Registrar

**INSTRUCTIONS/ GUIDELINES TO THE TENDERERS**

1. The bidder needs to register himself/ herself on <https://etender.punjabgovt.gov.in>. The bidder is also required to obtain Class III digital signature certificates to complete this process.
2. Please download the Tender document from the website of e-procurement of the Govt. of Punjab <https://etender.punjabgovt.gov.in>. Please fill all the relevant blanks AND SIGN on all the pages of the annexures along with a stamp/ seal and then a scanned copy of the same may be uploaded on the website at the time of submission of the tender document.
3. **It should be clearly noted that this tender will be accepted though e-tender mode only.** The tenders submitted through offline mode will not be accepted under any circumstances.
4. **Tender Fee** of Rs.1000/- (non-refundable) may be deposited through online mode i.e. Net Banking/ Credit Card/ Debit Card only. The Tender document fee will not be accepted through any other mode.
5. **Tender Processing Fee** (non-refundable) may be deposited through online mode i.e. Net Banking/ Credit Card/ Debit Card only as per Punjab Infotech Services.. The tender processing fee will not be accepted through any other mode.
6. **Refundable Earnest Money Deposit (EMD)** of **Rs.800,000/-** (Rupees Eight Lacs Only) may be deposited in shape of D.D only in favor of Registrar, BFUHS, Faridkot on or before due date. **The firms that have submitted there EMD's relating to earlier tenders of CT Scan Machine will also be considered for the new tenders. However, the firms are required to upload the proof of the EMD submitted with the technical Bids.**
7. **Upload** signed copy of Technical Bid Compliance Statement (**Annexure-I**).
8. **Upload** an affidavit regarding Non-Black listing as per proforma given at **Annexure-II** duly attested by an Executive Magistrate or a Notary Public.
9. In case the Bidder is Authorized Supplier/Agency, the Authorization Certificate as per the Format given at **Annexure-‘III’** (duly filled in), **to be uploaded.**
10. In case the Bidder is Authorized Supplier/Agency, an undertaking/certificate issued by their Principle Manufacturer/Supplier that in case dealership/distributorship is withdrawn after supply of equipment then the Principle Manufacturer/Supplier will be responsible for after sales service till the date of guarantee/warranty of the equipment and afterwards for a period of 10 years as per the format given at **Annexure – ‘IV’** (duly filled in), **to be uploaded.**
11. **Upload** details of Bank Account for refund of EMD (**Annexure – V**).
12. In addition to this, following **documents are to be uploaded** with Technical Bid:-
  - i) Details of registration as Company /Firm/ Establishment.
  - ii) Certificate regarding **US FDA and European CE** certified standard in quality.
  - iii) Copy of Certificate of Registration for service Tax/TIN/TAN/PAN/VAT.
  - iv) A certificate from C.A. regarding Annual Turnover with Balance Sheet for the last 3 (three) financial years i.e. 2013-14, 2014-15 & 2015-16.
  - v) Copy of the IT Returns for three financial years i.e. 2013-14, 2014-15 & 2015-16.
15. Price should be quoted and **uploaded** only in Proforma at **Annexure-‘VI’**.
16. **Upload Checklist Annexure – VII.**

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**SCOPE OF SUPPLY**

Supply and installation of the 64 Slice CT Scan for the department of Radiodiagnosis at Guru Gobind Singh Medical College & Hospital, Faridkot, with the following specifications:-

The system should be latest state of the art, independent 64 or more rows of detectors with acquisition of at least 64 slices per rotation capable of integrating with any PACS/HIS system. The system should be DICOM - ready with true isotropic volume acquisition and sub millimeter resolution. The model quoted should be, US FDA/European CE certified. **The system should be capable of doing ultra low dose imaging using iterative reconstruction technique.** The essential requirements of the system are as follows:-

**a) Gantry:**

- Aperture: 70 cms or more
- FOV: 50 cms or more
- 3-D laser lights for positioning.

**b) X-Ray Generator:**

- High Frequency type.
- Power output: **55 kW** or higher
- mA Range: 20-300 mA
- KV Range: **80-130Kv** or more
- For systems with X ray output less than 60Kw, the highest level of iterative level of reconstruction available with the manufacturer should be offered.

**c) X-Ray Tube:**

- Tube Voltage: **80-130 kv** or more
- Anode Heat Storage Capacity of at least 6.0 MHU or direct cooling tube

**d) Patient Table:**

- Load carrying capacity at least of 150 Kg with positional accuracy of 1 mm or less
- Metal free scanable range of 150 cm or more
- Floating table top with foot pedal/hand control for positioning.

**e) Spiral Acquisition:**

- Scan Time should be **0.5** sec or less for full 360 degree rotation.
- Minimum slice thickness should be **0.675** mm or less.
- Pitch Factor (volume pitch): freely selectable in auto mode and also manually variable between 0.5 to 1.5 or more. Specify all possible pitch selections.
- Bolus Triggered or bolus chase spiral acquisition should be available.
- Real time x-ray dose reduction which combines both Z axis and angular tube current modulation to adjust the dose to the size and shape of individual.

**f) Image Resolution:**

1. High contrast resolution should be at least 15 lp/cm for axial and spiral scan at 0% MTF with full FOV.
2. Low contrast resolution – 5mm or less at 3.0 HU using 20 cm CATPHAN phantom on 10 mm slice thickness.

**g) Data Acquisition System:**

- Detector- Capable of acquiring at least 64 slices per 360 degree of rotation.
- At least 64) rows of independent detectors are required with Z-axis coverage of 38 mm or more.
- Solid state or rare earth detectors of latest technology free from repeated calibration.

**h) Image Reconstruction:**

- High speed real time reconstruction with display matrix of 1024x1024 or more.
- Reconstructed slice thickness should be sub-millimeter to 10mm freely selectable.

**i) Operator Console:**

- High resolution medical grade LCD color monitors of 19” or more.
- Should perform Registration, scheduling, protocol selection, Volume rendering, volume measurements, Multi-planar Reconstruction, and standard evaluation application and all available post processing functions without the help of the satellite workstation.
- Raw Data storage with at least 500 GB Hard disc having image storing capacity of 2,00,000 or more in 512x512 format.
- Auto-voice capability with custom designed key board and mouse.
- Archiving options: CD-R, DVD, should be available. Blue ray data transfer will be preferred. 5000 rewritable DVDs should be provided.

**j) Workstation client server architecture with user interface similar to main console)**

1. It should be a high speed (minimum post-processing frame rate of 16 frames/sec) CPU with a speed of 3.0 GHz or better and with an independent Hard disc storage capacity of 1 TB or more, with 19 inches or more high resolution medical grade colour LCD monitors capable of simultaneously viewing and performing all post processing functions and filming independently without the help of main console.
2. Memory of the workstation should be independent of the console.
3. Two way data transfer between the operator console & the satellite workstation should be automatic and standard.
4. Post Processing Soft-wares
  - (i) Perfusion CT for brain
  - (ii) CT Angio, VRT, MIP, MPR, 3-D Shaded Surface display, Image Fusion, Vessel segmentation, luminal view
  - (iii) Virtual Endoscopy with facility for virtual dissection and computer aided detection of polyps.
  - (iv) Advanced cardiac package including Coronary Artery Imaging, Calcium Scoring, Myocardial Viability software, Cardiac functional analysis and advanced Vessel Analysis including stenosis assessment. Facility for prospective and retrospective ECG editing, facility for automatic selection of rotation speed according to heart beat and step and shoot for low dose acquisition should be available
  - (v) Automatic bone Removal facility.
  - (vi) Dental CT.
  - (vii) Lung nodule evaluation software.
  - (viii) DSA
5. Interactive & Automatic Cine display should be available.
6. Image Evaluation Tools:
  - (i) Parallel evaluation of multiple ROI in circle, irregular and Polygonal forms,
  - (ii) Statistical Evaluation for area/ volume, S.D, Mean/Max and Histograms.
  - (iii) Distance & angle measurement, freely selectable, positioning of co-ordinate system, grid and image annotation.

**k) Patient communication system:**

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1. An integrated intercom and Automated Patient Instruction System (API) should be provided.
2. One closed circuit TV for patient monitoring.

### **l) Dry Chemistry Laser Imager:**

1. Resolution: 16 bits/ 500 dpi or more with minimum three ports (Single tray).
2. Support Multiple Film Sizes: one of which must be 17"x14".
3. DICOM 3.0 Compatible.

### **n) System Configuration Accessories, spares and consumables:**

- Collapsible wheel chair with rubberized swivel wheels - 01 nos.
  - Standard Patient positioning accessories and restraining devices - 02 sets.
  - Light weight Lead Aprons "0.25" lead equivalence - 3 Nos. Gonadal shields – 2 Nos, Thyroid shields – 3 Nos and Lead goggles – 2 Nos.
  - Lead Glass 100 cm x 150 cm of 2 mm Lead equivalence as per the requirement of the equipment. As per AERB recommendations
  - 120 KVA Online UPS of suitable rating should be supplied for the complete system including Gantry, computer system, with at least 30 minutes back up.
  - Dual Head Pressure Injector.
  - Software for Remote Diagnostics Service over a telephone line.
  - System must be PACS, HIS/RIS interface ready without any new hardware or software.
  - A free comprehensive software **update** guarantee for entire life of scanner must be provided.
  - Comprehensive Maintenance Contract for next eight years including all the accessories, Air conditioning and CT tube and all major consumables.
  - Warranty: 24 months from the date of satisfactory installation. The warranty shall cover all the accessories including CT tube and all major consumables.
- **Real time CT Fluoroscopy** with at least 6 to 8 frames per second with dedicated 19 inches color LCD monitor. Facility table side controls and foot switch for biopsy to be quoted separately.

### **Work Under Hospital Scope**

- Centralized oxygen facility for both CT (to be connected to the nearest port) in gantry and recovery room. **Sucker machine, pulse oximeter, intubation sets (standard resuscitation accessories )**
- One latest all-in-one desktop computers and one Laptop Computer with latest specifications ( for reporting& teleradiology) to be provided.

**q) Instructions to the vendors/suppliers:** All companies must give product data sheets confirming the specifications along with the tender. ***The compliance statement must be filled strictly under the heading given in the tender.*** Each specification corroborated in the compliance statement must give the page number where it is listed in the product data sheet. Incompletely filled information will not be considered. List of Installations in Government sectors should be provided in Technical Bid.

**r) Penalty:** Rs.10,000 per day (rupees ten thousand) and **downtime conversion to extended warranty @2 days for every single day of downtime.**

s) **Training of CT :** On-Site training to be provided for three months (at 4 weeks interval). Off-Site training in the country in a reputed teaching hospital for 4 weeks for two doctors.

**T. Warranty**

Warranty shall be for 24 months from the date of satisfactory installation of machine. The warranty shall cover all the accessories including CT tube and all major consumables and Air Conditioners.

- i) At least 95% uptime should be maintained during warranty period as well as CMC period. The successful bidder will attend the call within 24 hours and put the machine in working condition within 72 hours, failing which a penalty of Rs.10,000/- per day will be levied and downtime conversion to extended warranty@2 days for every single day of downtime.
- ii) No cost/charges will be paid to successful bidder for any maintenance/repair etc. during the Warranty period.

**E. Comprehensive Maintenance Contract:**

An agreement of CMC shall be signed for next eight years after completion of 24 months warranty period which shall cover all the accessories including Air conditioning and CT tube and all major consumables. Following shall be terms & conditions of CMC agreement:-

- i) During the term of warranty/CMC on demand training sessions to be conducted on at least 2 occasions in a year at date and time suitable to the hospital.
- ii) Copies of service record shall have to be submitted both to user and purchase department, Office of the Principal, GGS Medical College & Hospital, Faridkot.
- iii) Yearly certificate of compliance to AERB norms shall have to be submitted to the user and purchase department Office of the Principal, GGS Medical College & Hospital, Faridkot.
- iv) All types of third party components supplied as a part of this tender shall have to be covered under warranty / during CMC period.
- v) CMC prices shall be applicable and vendor shall be bound by the CMC agreement even if there a break in CMC. It is understood that CMC contract shall be applicable only if machine is in full working condition. CMC agreement shall have to be signed even if the equipment is not in working condition.
- vi) Charges for CMC shall be paid in 2 installments i.e. at the end of first six month and then at the end of year of CMC contract and on submission of satisfactory working report.

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**TERMS AND CONDITIONS**

**FOR SUPPLY AND INSTALLATION  
OF 64 SLICE CT SCAN  
FOR THE DEPARTMENT OF RADIO DIAGNOSIS  
AT GGS MEDICAL COLLEGE & HOSPITAL, FARIDKOT**

**1. ELIGIBILITY**

- i) The sole manufacturers of equipments or their authorized agents/distributors may quote their rates.
  - ii) In case of Authorized Supplier/Agency/Distributor, the Authorization Certificate as per the Format given at **Annexure-‘III’** should be uploaded.
  - iii) In case the Tenderer is authorized dealer/supplier an undertaking/certificate issued by their Principle Manufacturer/Supplier that in case dealership/distributorship is withdrawn after supply then the Principle Manufacturer/Supplier will be responsible for after sales service till the date of guarantee/warranty of the equipment and afterwards for a period of 10 years as per the Format given at **Annexure – ‘IV’** should be uploaded.
2. All companies must upload product data sheets confirming the specifications along with the tender. ***The compliance statement must be filled strictly under the heading given in the tender.***
  3. Tenders without earnest money or short of it will not be entertained and shall be rejected straightway.
  4. No tenderer shall be exempted from furnishing Earnest Money Deposit (EMD) under any circumstances.
  5. Earnest Money/ Security Deposit and/or any other sum of the tenderer(s) lying with the Baba Farid University of Health Sciences, Faridkot or Guru Gobind Singh Medical College & Hospital, Faridkot in connection with any other tender/case shall not be considered against this tender.
  6. The tenderer should keep his/her offer valid for acceptance for a period of six months from the date of opening of price bid. (In case, the tenderer is unable to keep his/her offer open for the above said period, his/her tender shall be treated as invalid)
  7. Each page of the tender document should be signed in full by the tenderer(s) and should bear the rubber stamp/seal of the firm affixed/ scanned, if applicable, on each page. Any cutting(s)/overwriting(s) etc. should also be initialed. In case of any infringement of these conditions, the tender is liable to be rejected.
  8. In the event of the date of receipt or opening of tender being declared a holiday for the Baba Farid University of Health Sciences, Faridkot or Guru Gobind Singh Medical College & Hospital, Faridkot, the last date of receipt/opening of the tender shall be the next working day at the same time and venue. The Price Bid shall be opened only in respect of those individual/ firms, who technically qualify.
  9. Any conditional, telegraphic tenders, fax tenders, tenders without earnest money, and not in the prescribed form or in any deviation from the terms and conditions of the tender notice shall not be entertained and rejected out rightly.



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10. The tenderer(s) shall be at liberty to be present, in person or through their authorized representative(s) at the time of opening of the tender as specified in the Tender Notice. In case the authorized representatives are to be present, they must furnish the authority letter from the tenderer, on whose behalf they are representing otherwise they will not be allowed to participate in the process of opening of tender.
11. In case of violation of any of the terms and conditions as mentioned above, Earnest Money/ Security Deposit of the successful tenderer(s) shall be forfeited in full & his/ her tender shall be cancelled.
12. Any attempt direct or indirect, to cast influence, negotiation on the part of the tenderer with the tender accepting official/ authority before the finalization of tenders will render the tenderer liable for rejection.
13. If required, the Tender Bidding Company will make arrangements for inspection of equipment by the Committee at their own expenses.
14. The tenderer should certify unequivocally that the articles or items offered conform strictly to the specifications given by him. Any accessories, as may be required, should form part of the machine.
15. The firm should have service center either in Punjab, Chandigarh, Delhi or Haryana. Acceptance of supply order implies acceptance of all the terms & conditions of tender/delivery.
16. Minimum delivery and installation period must be quoted clearly. The rates quoted should be F.O.R. destination i.e. BFUHS, Faridkot/GGS Medical College & Hospital, Faridkot and should also include packing and forwarding charges, taxes and other levies.
17. The Registrar reserves all the rights to accept or reject any tender without assigning any reason and also to impose/relax any term and condition of the tender.

### **18. CRITERIA OF EVALUATION OF PRICE BID**

The Price Bids of technically qualified bidders shall be evaluated on the basis of lowest bid criteria without compromising on the quality of material. Rates of all types of taxes as applicable should be quoted clearly.

### **19. SECURITY DEPOSIT:**

- i) The successful bidder shall be required to deposit a security of an amount equal to 10% of the final bid in the shape of Demand Draft in favour of Registrar, Baba Farid University of Health Sciences, Faridkot drawn on any commercial/nationalized bank, payable at Faridkot.
- ii) The Earnest Money Deposit will be refunded to the unsuccessful bidders within three months of the date of purchase order.

### **20. PAYMENT TERMS**

- a) On receipt of Security Deposit an irrevocable LC of 100% value of equipment shall be opened in favour of the successful bidder.
- b) Eighty (80%) of LC amount will be released on submission of supply/dispatch documents and balance 20% of LC amount will be released after 60 days of installation and satisfactory performance of the machine.

**21. PENALTY CLAUSE**

If the supply is not made within the stipulated period then late delivery charges @2% will be imposed on the total amount of Supply Order up to delay of 30 days and thereafter @ 4% for another 30 days after which Supply Order/Rate Contract will be deemed cancelled & security/earnest money forfeited and company will be black-listed for future.

**22. ARBITRATION**

- i) In the event of any dispute or differences arising between the parties with regard to the terms and conditions of the agreement/contract and/or with regard to the breach or interpretation thereof including all rights and liabilities there under on any matter whatsoever touching upon the terms and conditions of the agreement/contract whether in course of or after its termination the parties will settle the same at the first instance by mutual discussions/conciliation which would be conducted by the Registrar, BFUHS, Faridkot.
- ii) In the event the said mutual discussions/conciliation fails, the aggrieved party shall initiate arbitration proceedings for resolution of differences/disputes etc., mentioned above by appointing a sole arbitrator, who shall be the Vice-Chancellor, BFUHS, Faridkot in which event the said proceeding shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act enforce.
- iii) The venue of such arbitration proceeding shall be at Faridkot and the court in Faridkot alone will have jurisdiction in respect of all proceedings connected there with.

**23. Jurisdiction – All disputes are subject to the jurisdiction of courts at Faridkot only.**

Accepted

(Signature of Tenderer)  
With seal and full address

Dated:  
Place:

# *Baba Farid University of Health Sciences, Faridkot*

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**Annexure-I**

## **TECHNICAL BID COMPLIANCE STATEMENT** for supply & installation of 64 Slice CT Scan

Name and Address of the applicant / firm \_\_\_\_\_

Specify whether Manufacturer/Dealer/Distributor: \_\_\_\_\_

Sr. No.	Feature/Part	Specifications	Compliance with page no. of data sheet
A.	The system should be latest state of the art, independent 64 or more rows of detectors with acquisition of at least 64 slices per rotation capable of integrating with any PACS/HIS system. The system should be DICOM - ready with true isotropic volume acquisition and sub millimeter resolution. The model quoted should be, US FDA/European CE certified. <b>The system should be capable of doing ultra low dose imaging using iterative reconstruction technique.</b> The essential requirements of the system are as follows:-		
1.	<b>Gantry</b>	Aperture: 70 cms or more FOV: 50 cms or more 3-D laser lights for positioning.	
2.	<b>X-Ray Generator</b>	High Frequency type Power output: 55 kW or higher mA Range: 20-300 mA KV Range: <b>80-130</b> or more	
		For systems with X ray output less than 60Kw, the highest level of iterative level of reconstruction available with the manufacturer should be offered.	
3.	<b>X-Ray Tube</b>	Tube Voltage: <b>80-130 kV</b> or more Anode Heat Storage Capacity of at least 6.0 MHU or more	
4.	<b>Patient Table</b>	Load carrying capacity at least of 150 Kg with positional accuracy of 1 mm or	

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		less	
		Metal free scanable range of 150 cm or more	
		Floating table top with foot pedal/hand control for positioning	
5.	<b>Spiral Acquisition</b>	Scan Time should be <b>0.5</b> sec or less for full 360 degree rotation	
		Minimum slice thickness should be <b>0.675</b> mm or less.	
		Pitch Factor (volume pitch): freely selectable in auto mode and also manually variable between 0.5 to 1.5 or more. Specify all possible pitch selections.	
		Bolus Triggered or bolus chase spiral acquisition should be available.	
		Real time x-ray dose reduction which combines both Z axis and angular tube current modulation to adjust the dose to the size and shape of individual.	
6.	<b>Image Resolution</b>	High contrast resolution should be at least 15 lp/cm for axial and spiral scan at 0% MTF with full FOV.	
		Low contrast resolution – 5mm or less at 3.0 HU using 20 cm CATPHAN phantom on 10 mm slice thickness.	
7.	<b>Data Acquisition System</b>	Detector- Capable of acquiring at least 64 slices per 360 degree of rotation	
		At least 64 rows of independent detectors are required with Z-axis coverage of 38 mm or more.	
		Solid state or rare earth detectors of latest technology free from repeated calibration.	
8.	<b>Image Reconstruction</b>	High speed real time reconstruction with display matrix of 1024x1024 or more	
		Reconstructed slice thickness should be sub-millimeter to 10mm freely selectable.	
9.	<b>Operator Console</b>	High resolution medical grade LCD color monitors of 19” or more	
		Should perform Registration, scheduling, protocol selection, Volume rendering, volume measurements, Multi-planar Reconstruction, and standard evaluation application and all available post processing functions without the help of the satellite workstation	
		Raw Data storage with at least 500 GB Hard disc having image storing capacity of 2,00,000 or more in 512x512 format	
		Auto-voice capability with custom designed key board and mouse.	
		Archiving options: CD-R, DVD, should be available. Blue ray data transfer will	

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		be preferred. 5000 rewritable DVDs should be provided	
10.	<b>Patient communication system</b>	An integrated intercom and Automated Patient Instruction System (API) should be provided	
		One closed circuit TV for patient monitoring	
11.	<b>Multi modality company manufactured Workstation compatible for CT/MRI/PET images (client server architecture with user interface similar to main console.</b>	It should be a high speed (minimum post-processing frame rate of 16 frames/sec) CPU with a speed of 3.0 GHz or better and with an independent Hard disc storage capacity of 1 TB (500 internal and 500 external) or more, with 19 inches or more high resolution medical grade colour LCD monitors capable of simultaneously viewing and performing 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 automatic and standard	
		<b>Post Processing Software</b> i) Perfusion CT for brain. ii) CT Angio, VRT, MIP, MPR, 3-D Shaded Surface display, Image Fusion, Vessel segmentation, luminal view. iii) CT Colonoscopy and Virtual Endoscopy with facility for virtual dissection and computer aided detection of polyps. iv) Advanced cardiac package including Coronary Artery Imaging, Calcium Scoring, Myocardial Viability software, Cardiac functional analysis and advanced Vessel Analysis including stenosis assessment. Facility for prospective and retrospective ECG gating, facility for automatic selection of rotation speed according to heart beat and step and shoot for low dose acquisition should be available. v) Automatic bone Removal facility. vi) Dental CT. vii) Lung nodule evaluation software. viii) DSA	
		Interactive & Automatic Cine display should be available	
		<b>Image Evaluation Tools:</b> (i) Parallel evaluation of multiple ROI in circle, irregular and Polygonal forms. (ii) Statistical Evaluation for area/ volume, S.D, Mean/Max and Histograms. (iii) Distance & angle measurement, freely selectable, positioning of co-ordinate system, grid and image annotation.	
12.	<b>Other important</b>	A free comprehensive software <b>update</b> guarantee for entire life of scanner must	

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	<b>features of equipment</b>	be provided	
		<b>Real time CT Fluoroscopy</b> with at least 6 to 8 frames per second with dedicated 19 inches color LCD monitor. Facility table side controls and foot switch for biopsy to be quoted separately.	
<b>B.</b>	<b>Accessories, spares and consumables</b>	<p><b>Dry Chemistry Laser Imager</b></p> <ul style="list-style-type: none"> <li>• Resolution: 16 bits/ 500 dpi or more (Single tray).</li> <li>• Support Multiple Film Sizes: one of which must be 17"x14".</li> <li>• DICOM 3.0 Compatible</li> </ul>	
		Collapsible wheel chair with rubberized swivel wheels - 01 nos.	
		Standard Patient positioning accessories and restraining devices - 02 sets.	
		Light weight Lead Aprons "0.25" lead equivalence - 3 Nos. Gonadal shields – 2 Nos, Thyroid shields – 3 Nos. and Lead goggles – 2 Nos.	
		Lead Glass 100 cm x 150 cm of 2 mm Lead equivalence as per the requirement of the equipment. As per AERB recommendations	
		120 KVA Online UPS of suitable rating should be supplied for the complete system including Gantry, computer system, with at least 30 minutes back up	
		Dual Head Pressure Injector with 700 syringes of 200 ml & PM line.	
		Software for Remote Diagnostics Service over a telephone line	
		System must be PACS, HIS/RIS interface ready without any new hardware or software. A Free comprehensive software update gurantee for entire life of scanner must be provided.	
		Comprehensive Maintaince Contract for Next eight years including all accessories. Air Conditioning and CT Tube and all Major consumables.	
<b>C.</b>	<b>Training of CT</b>	<p><b>On-Site training</b> to be provided for at least 4 weeks and as and when required</p> <p><b>Off-Site training</b> in the country in a reputed teaching hospital for 2 weeks each for five doctors.</p>	
<b>D.</b>	<b>Warranty</b>	<p>Warranty shall be for 24 months from the date of satisfactory installation of machine. The warranty shall cover all the accessories including CT tube and all major consumables and air conditioners.</p> <p>At least 95% uptime should be maintained during warranty period as well as CMC period. The successful bidder will attend the call within 24 hours and put the machine in working condition within 48 hours, failing which a penalty of Rs.10,000/- per day will be</p>	

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		levied.	
		No cost/charges will be paid to successful bidder for any maintenance/repair etc. during the Warranty period.	
E.	<b>Comprehensive Maintenance Contract (CMC)</b>	<p>An agreement of CMC shall be signed for next eight years after completion of 24 months warranty period which shall cover all the accessories including Air conditioning and CT tube and all major consumables. Following shall be terms &amp; conditions of CMC agreement:-</p> <ul style="list-style-type: none"> <li>i) During the term of warranty/CMC on demand training sessions to be conducted on at least 2 occasions in a year at date and time suitable to the hospital.</li> <li>ii) Copies of service record shall have to be submitted both to user and purchase department, Office of the Principal, GGS Medical College &amp; Hospital, Faridkot.</li> <li>iii) Yearly certificate of compliance to AERB norms shall have to be submitted to the user and purchase department, Office of the Principal, GGS Medical College &amp; Hospital, Faridkot.</li> <li>iv) All types of third party components supplied as a part of this tender shall have to be covered under warranty / during CMC period.</li> <li>v) CMC prices shall be applicable and vendor shall be bound by the CMC agreement even if there a break in CMC. It is understood that CMC contract shall be applicable only if machine is in full working condition. CMC agreement shall have to be signed even if the equipment is not in working condition.</li> <li>vi) Charges for CMC shall be paid in 2 installments i.e. at the end of first six month and then at the end of the year of CMC contract and on submission of satisfactory working report by the Radio-diagnosis department..</li> </ul>	

**Signature & seal of bidder**

**Place:**

**Dated:**

Note: All companies must **UPLOAD product data sheets confirming the specifications along with the tender**. *The compliance statement must be filled strictly under the headings given in the Technical Bid Compliance Statement*. Each specification in the compliance statement must be corroborated by the page number where it is listed in the product data sheet. In case the information is incompletely filled, tenderer will be summarily rejected.

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**Annexure-II**

**(To be furnished on non-judicial stamp paper worth Rs.30/- duly attested by Executive Magistrate or Notary Public).**

**AFFIDAVIT**

I/We \_\_\_\_\_  
partner/sole proprietor (Strike out which is not applicable) of (Name & Address of Firm)  
\_\_\_\_\_ do hereby declare and solemnly affirm:-

- a) That the individual/firm/ companies are **not debarred or black- listed** by any department of Union/ State Government or any autonomous institute.
- b) That no partner or shareholder, directly or indirectly connected with the applicant, has been debarred or blacklisted by any department of Union Govt./State Govt./Autonomous Institute.
- c) And that the terms and conditions for supply and installation of 64 Slice CT Scan for the department of Radiodiagnosis at GGSMCH, Faridkot, are acceptable to me/us. I/We shall abide by them in letter and spirit.

Date:

Place:

DEPONENT

**VERIFICATION**

I/We do hereby solemnly declare and affirm that the above declarations are true and correct to the best of my/our knowledge and beliefs. No part of it is false and nothing has been concealed therein.

Date:

Place:

DEPONENT



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**Annexure- III**

**MANUFACTURER’S/PRINCIPLE’S AUTHORIZATION FORM**

TO

The Registrar  
Baba Farid University of Health Sciences,  
Faridkot -151203

**Ref. No.....**

**Dated:**

**Sub: Authorization Certificate in favour of M/s..... for supply and installation of 64 Slice CT Scan.**

We, M/s....., who are established and reputable manufacturers of .....(name of equipment) having factory(ies) at ..... and ....., hereby authorize M/s.....(name and address) to bid, negotiate and conclude the Tender formalities with you against Tender No..... for the above equipment(s) manufactured by us.

No company or firm or individual other than M/s..... are authorized to bid, negotiate and conclude the tender formalities in regard to this business against this specific tender.

We, hereby extend our full guarantee and warranty as per the conditions of tender for the goods offered for supply against this tender by the above firm.

Yours faithfully,

(Name)

For and on behalf of M/s \_\_\_\_\_  
(name of manufacturer/Principle)

**Note: This letter should be signed by a person competent and having authority to sign on behalf of manufacturer, and should be on manufacturer Letter Head.**

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**Annexure - IV**

**UNDERTAKING BY MANUFACTURER’S/PRINCIPLE’S**

TO

The Registrar  
Baba Farid University of Health Sciences,  
Faridkot -151203

**Ref. No.....**

**Dated:**

**Sub: Undertaking for after sales service**

We, M/s....., who are established and reputable manufacturers of .....(name of equipment) have authorized M/s.....(name and address) to bid, negotiate and conclude the Tender formalities with you against Tender No..... for the above equipment(s).

Further, we undertake that in case dealership/distributorship is withdrawn after supply of equipment then we be responsible for after sales service till the date of guarantee/warranty of the equipment and afterwards for a period of 10 years.

Yours faithfully,

(Name)

For and on behalf of M/s\_\_\_\_\_ (name of manufacturer/Principle)

**Note: This letter should be signed by a person competent and having authority to sign on behalf of manufacturer, and should be on manufacturer Letter Head.**

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***E-TENDER NOTICE FOR supply& installation of 64 Slice CT Scan***

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## **Annexure- V**

### **Details of Bank Account of the firm who has deposited EMD**

Name of the firm: \_\_\_\_\_

<b>Sr. No.</b>	<b>Particulars</b>	<b>Detail</b>
1.	Account No.	
2.	Name of Bank	
3.	Branch Name	
4.	IFSC Code of Bank	
5.	Name of Operator	

**PRICE BID**

**TO BE UPLOADED IN EXCEL FORMAT**

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## **Annexure- VII**

### **CHECK LIST DULY FILLED IN TO BE ATTACHED WITH THE TENDER**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Remarks</b>
1.	Tender Fee of <b>Rs.1000/-</b> through Net Banking/Debit Card/Credit Card.	Yes/No
2.	Tender Processing Fee as per the norms of the Govt. of Punjab through Net Banking/Debit Card/Credit Card.	Yes/No
3.	Earnest Money of <b>Rs.8,00,000/- through Demand Draft Only. The firms who have submitted EMD earlier relating to any previous tender of CT Scan Machine may also be considered for this Tender. However, the firm is required to upload the proof of deposit.</b>	Yes/No
4.	Technical Bid Compliance Proforma uploaded ( <b>Annexure-I</b> ).	Yes/No
5.	Whether an affidavit regarding Non-Black listing as per proforma given at <b>Annexure-II</b> duly attested by an Executive Magistrate or a Notary Public uploaded.	Yes/No
6.	In case the bidder is Authorized Supplier/Agency, the Authorization Certificate as per the Format given at <b>Annexure-‘III’</b> uploaded.	Yes/No
7.	In case the Tenderer is Authorized Supplier/Agency, an undertaking/certificate issued by their Principle Manufacturer/Supplier that in case dealership/distributorship is withdrawn after supply then the Principle Manufacturer/Supplier will be responsible for after sales service till the date of warranty of the equipment and afterwards for a period of 10 years as per the format given at <b>Annexure – ‘IV’</b> uploaded.	Yes/No
8.	Details of Bank Account for refund of EMD ( <b>Annexure – V</b> ) uploaded.	Yes/No
9.	Price Bid in the prescribed format ( <b>Annex – VI</b> ) uploaded.	Yes/No
10.	Check List ( <b>Annexure – VII</b> ) uploaded.	
11.	Copy of Certificate of Registration for service Tax/TIN/TAN/PAN uploaded.	Yes/No
12.	A certificate from C.A. regarding Annual Turnover with Balance Sheet for the last 3 (three) financial years i.e. 2013-14, 2014-15 and 2015-16 uploaded.	Yes/No
13.	Copy of the IT Returns for three financial i.e. 2013-14, 2014-15 and 2015-16 uploaded.	Yes/No
14.	Certificate regarding <b>US FDA and European CE</b> certified standard in quality uploaded.	Yes/No
15.	Fax Number	
16.	E-mail ID	

**Note: Non compliance to any of the above conditions will render the offer/ tender to be rejected out-rightly and Price bid of the firm will not be opened.**

Place: \_\_\_\_\_

Signature of Tenderer: \_\_\_\_\_

Dated: \_\_\_\_\_

Full name of the Tenderer: \_\_\_\_\_

Address: \_\_\_\_\_