



BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

(Established by Govt. of Punjab vide Punjab Act No 18 of 1998)

TENDER FOR INSTALLATION OF A

C.T. SCAN AT GGS MEDICAL COLLEGE & HOSPITAL, FARIDKOT AT PPP MODE.

Tender No. BFUHS/GGSMC/CT SCAN/2016/010

Tender Notification No :	BFUHS/GGSMC/CT SCAN/2016/010
Tender Notification Date:	18th/ March/ 2016
Nature of work :	Tender for INSTALLATION OF a C.T. SCAN at GURU GOBIND SINGH MEDICAL COLLEGE, FARIDKOT on PPP MODE (a constituent of Baba Farid University of Health Sciences, Faridkot)
Cost of the tender document:-	Rs. 2000/- only (Rs. Two Thousand Only) {Non refundable, under any circumstances}. in the shape of a Demand Draft/ Banker's Cheque / Pay Order in the favour of " <u>Principal, Guru Gobind Singh Medical College, Faridkot</u> " payable at " <u>Faridkot</u> "
EMD Amount :	Rs. 2,00,000/- only (Rupees Two Lac Only) in the shape of a Demand Draft/ Banker's Cheque / Pay Order in the favour of " <u>Principal, Guru Gobind Singh Medical College, Faridkot</u> " payable at " <u>Faridkot</u> " <i>{Refundable to the Non-successful bidders, without any type of interest or other charges}</i> <i>However, It will be adjusted against the Performance security in case of successful tenderer and will be returned after successful completion of the contract period.</i>
Date of start of downloading of tender documents:-	18 th of March/ 2016 from the website of the University
Website for downloading of the tender document:-	www.bfuhs.ac.in
Date and timing of the Pre Bid Meeting	30 th of March 2016 at 3.00 p.m. sharp
Venue of the Pre Bid Meeting	Committee Room of the Vice Chancellor Office, at Baba Farid University of Health Sciences, Sadiq Road, Faridkot (Punjab).
Last date for downloading of	26 th of April 2016 up to 12.30 pm



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the tender document:-	
Last date & Time for submission of the tender documents:-	<u>26th of April 2016 up to 1.00 pm</u>
Date and timing for opening of the Tender documents:-	26th of April 2016 (at 3.30 p.m.)
Venue for Opening of the Tender Documents:-	Committee Room of the Vice Chancellor Office, at Baba Farid University of Health Sciences, Sadiq Road, Faridkot (Punjab).
Address for the submission :	Principal, Guru Gobind Singh Medical College & Hospital, Sadiq Road, Faridkot
Who can be contacted for obtaining more information about the tender.	Principal, Guru Gobind Singh Medical College & Hospital, Sadiq Road, Faridkot Phone:- 01639-251111 Email id:- upfdbfuhs@gmail.com



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SCOPE OF WORK

INSTALLATION, OPERATION & MAINTENANCE OF CT SCAN at Guru Gobind Singh Medical College, Faridkot under public private partnership (PPP)

INTRODUCTION

Guru Gobind Singh Medical College, Faridkot intends to outsource the services for CT Scan in its Hospital under Public Private Partnership for greater benefit of its patients.

The Bidders are to submit their bids for installation, operation and maintenance of this CT Scan centre along with an **Earnest Money of Rs. 2,00,000/- (Rs. Two Lac Only)**. CT Scan installed must be of minimum specifications as per annexure A

I FOR THE TENDERER

1. Tenderer will be responsible for the installation, operation and management of the above mentioned services under the agreement for a period of eight years. Extension in contract if any shall be at the request of the tenderer and at the sole discretion of Guru Gobind Singh Medical College, Faridkot.
2. Tenderer shall submit a certificate from the original equipment manufacturer (OEM) along with, the technical bid that the equipment and accessories to be supplied by OEM shall be original and brand new (The detail of the minimum capabilities of equipment required proposed to be installed by the tenderers are at annexure A). Tenderer should also enclose a certificate of assurance from the OEM of the equipment, that they will be able to supply the spare parts of the equipment for at least 08 years from the date of its installation.
3. That regarding filming Tenderer has to provide High Resolution Dry Camera matching the capabilities of main CT scan equipment. This is an essential requisite for the maintenance of the quality of films.
4. The alternative arrangement (as applicable) for **electricity** for running the diagnostic equipment in case of electricity interruption will be the sole



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responsibility of Tenderer. This shall include installation of generator of required capacity as back up.

5. Guru Gobind Singh Medical College, Faridkot shall provide only space, all other works i.e. Civil, Public Health, Electricity etc, furniture, fixture, equipment etc. will be the liability of Tenderer including their maintenance. Tenderer will be required to install separate electric meter and pay consumption charges directly to the energy supplier as per prevailing rates of the energy supplier. Water supply will be provided free of cost
6. The equipment will be operated only by the qualified Technicians/ Radiologist as required by Laws/Acts applicable from time to time.
7. Tenderer will comply with all statutory requirements as applicable under the various central Act/Punjab Municipal Corporation Act.
8. Tenderer will comply with the Bio Medical Waste management and handling rules 1998 in the premises where the diagnostic facility is established.
9. Tenderer will put appropriate signage's (at the location of CT scan centre and space/area for dealing with patients and their relatives) indicating that the services are provided under PPP mode as approved by the Competent Authority indicating the name of the service provider/ Tenderer and address along with the mobile number for the convenience of the patients
 - A. Any and all stationary used by service provider/ Tenderer must be under the tenderers company letter head and use of GGSMC must be limited to be used in address and to specify PPP mode only.
 - B. While providing the services, no action of the tenderer should give an impression to the patient that the services are provided by GGSMC, Faridkot
 - C. All reports issued by service provider/ Tenderer should be on the letter head of Tenderer only. Clearly indicating that there is no responsibility of Guru Gobind Singh Medical College, Faridkot / Baba Farid University of Health Sciences, Faridkot
10. Tenderer will ensure that the paramedical staff deputed at the centre are in a proper dress code (including wearing of white aprons) as approved by the



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competent authority alongwith the name plate annexed to the dress of each individual.

- A. Penalty of ₹ 50/- shall be applicable if the staff found without proper dress including apron. Decision of the Guru Gobind Singh Medical College, Faridkot shall be final.
11. Patient seeking treatment where certain documentary evidences, are required to be maintained including for Medico Legal purpose etc., Tenderer shall be required to collect the required information and maintained such records for a period as required by law. Original of the same/scanned copy will be shared with Guru Gobind Singh Medical College, Faridkot by Tenderer within 24 hours of being required by Guru Gobind Singh Medical College, Faridkot
12. Tenderer shall keep the record of all Medico Legal Cases for future reference for the duration as required by law from time to time.
13. Guru Gobind Singh Medical College, Faridkot will collect the charges from the patients on behalf of Tenderer as per the rates finalized after the tender. 10% of the charges collected by the hospital shall be retained by the hospital for poor patients as per the policy of the hospital.
- A. For other patients required to be provided free CT scan services under various national/state programs, medico legal cases or on account of other obligations of the Guru Gobind Singh Medical College, Faridkot, Tenderer shall be paid for the services provided as per finalised rates (less 10% for poor patients) and Guru Gobind Singh Medical College, Faridkot shall be responsible to get such payments recovered/collected from respective agencies/state. Guru Gobind Singh Medical College, Faridkot shall be free to negotiate further and from time to time with Tenderer
- B. Certain insurance companies may have a different schedule of charges, and services to be provided by the CT scan center (Tenderer) on different charges schedule, shall be subject to mutual consent however clause of 10% of poor free shall continue to be applicable.
- C. If percentage of free patients is more than 10%, Guru Gobind Singh Medical



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College, Faridkot shall reimburse Tenderer for the same.

- D. If percentage of free patients is less than 10%, Guru Gobind Singh Medical College, Faridkot shall use the same in future for poor patients
 - E. Patients referred from external agencies, hospitals and doctors directly to CT scan centre shall also have to get payments deposited at Hospital counters before CT scans are performed on such patients.
 - F. Payments to Tenderer shall be done on monthly basis (by calendar month).
14. That the films and associated requirements will be the responsibility of Tenderer.
 15. Duplicate films may be provided to patients at cost of 200/- per film of size 14" X 17".
 16. CD/DVD shall be provided to each patient cost of which is to be included in the bid price
 17. That the contrast (preferably non-ionic) of CT scan will be arranged and provided by Tenderer and the cost of which is included as defined in this tender documents elsewhere. Tenderer shall stock good quality contrast procured from an good quality manufacturer
 18. That the operation of the CT scan machine will be round the clock (24 hours) no additional charges for emergency services shall be applicable.
 19. That all reports shall have to be provided within 12 hrs of CT scan being performed and Tenderer shall ensure to get the report updated in Hospital Information System before the release of the report
 20. That Tenderer shall make alternative arrangements in case of breakdown or any kind of force majeure.
 21. That Tenderer shall make its own arrangement for Annual Maintenance Contract of the machine.
 22. That the cost of repair and maintenance shall be borne by Tenderer.
 23. Maximum duration for repair will be 5% per year i.e. 18 days per year. If breakdown/ repair is more than 5 % in a year, i.e., 5 days in 100 days), Tenderer will pay Rs. 10,000/- per day as penalty to the Guru Gobind Singh Medical College, Faridkot. In addition to above, in case Tenderer fails to rectify the defects and



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resume the operations within 30 days from the date of breakdown of services, the Contract shall be liable to be terminated (at the discretion of Principal, Guru Gobind Singh Medical College, Faridkot) in addition to forfeiture of the security amount.

24. Tenderer shall not sell or transfer any Proprietary right or interest to any third party for running the diagnostic equipment in the health facility.
25. Tenderer is advised to maintain a third party liability policy to cover for medico legal risk and liabilities during the currency of the contract including for mishap at the machine.
26. Conforming to the provision of the consumer protection act shall be the sole and absolute responsibility of the Tenderer and Tenderer shall be liable for all the acts of commission/omission.
27. Teaching and training are important activity of to Guru Gobind Singh Medical College, Faridkot. To enable teaching and training:
 - A. GGS will be entitled to take extra films of patients having diagnosis of academic interest for teaching purpose subject to a maximum of 10 films per month.
 - B. Tenderer shall install and maintain a workstation with following minimum features in the radiology department for academic purpose with all full licensees (including all features) of all the software's mentioned below
 - i. Data and DICOM images of all the CT scans done in the past 30 days should be available in the workstation
 - ii. Data and DICOM images shall be made available on workstation immediately within 10 minutes
 - iii. Should have the option to burn CD/DVD of every study
 - iv. Certain patient of academic interest may require further detailed scan of specific area for which patient user charge slip has already been made. Detailed CT scan study of that area shall be allowed by Tenderer even after upto 30 days of initial scan at no additional charges. GGS shall limit such patient's upto 1% of the total patients.



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- v. GGS shall in such cases fix timing for study and Tenderer shall have to provide time within 24 hrs of being requested.
- vi. 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.
- vii. Memory of the workstation should be independent of the console.
- viii. Two way data transfer between the operator console & the satellite workstation should be automatic and standard.
- ix. Post Processing Soft-wares
 1. Perfusion CT for brain
 2. CT Angio, VRT, MIP, MPR, 3-D Shaded Surface display, Image Fusion, Vessel segmentation, luminal view
 3. Virtual Endoscopy with facility for virtual dissection and computer aided detection of polyps.
 4. 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
 5. Automatic bone Removal facility.
 6. Dental CT.
 7. Lung nodule evaluation software.
- x. Interactive & Automatic Cine display should be available.
- xi. Image Evaluation Tools:
 1. Parallel evaluation of multiple ROI in circle, irregular and



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- Polygonal forms,
2. Statistical Evaluation for area/ volume, S.D, Mean/Max and Histograms.
 3. Distance & angle measurement, freely selectable, positioning of co-ordinate system, grid and image annotation.
- xii. Include adequate hardware and software for cardiac acquisition and post processing.
 - xiii. Maintain hardware and software warranty for the entire contract period.
- C. Tenderer shall allow free access to the authorized students at all times under supervision of hospital staff, however operation of the machine shall be exclusively by the technicians/radiologists of the Tenderer
- D. Tenderer shall allow free access to the radiologists of the Guru Gobind Singh Medical College, Faridkot, however reporting of the scans shall be done by the radiologists of Tenderer and may be done remotely using teleradiology.
- E. Tenderer shall support all types of academic activities by extending full cooperation for future requirement that may have not been mentioned or foreseen at this point of time
28. The equipment should qualify Bureau of Indian Standard (BIS)/Atomic Energy Regulation Board guidelines for Radiation safety.
29. The telephone and internet connectivity as required shall be procured by Tenderer at his/her cost and operational cost shall also be borne by Tenderer.
30. Tenderer comply to all the requirement of Atomic Energy Regulation Board (including QA at specified intervals by AERB), ELORA or any other regulatory body as applicable and required by law from time to time
31. Tenderer shall have to comply to all the existing and future requirements of National Accreditation Board of Hospitals and or Quality Council of India
32. **ARBITRATION** In the event of any dispute and difference arising out of or in any way touching or concerning this agreement what so ever shall be referred to the



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sole arbitrator i.e. the Registrar, BFUHS. The decision thereon shall be final and binding on the parties there to the venue of Arbitration shall be only at Faridkot, Punjab. The expression "Registrar" shall mean and include an acting/officiating Secretary. Subject as aforesaid, the Arbitration and Conciliation Act, 1996 and the rules framed there under and any modification thereof for the time being in force shall be deemed to apply to arbitration proceedings under this clause.

33. **JURISDICTION:** That the jurisdiction of the Courts will be at Faridkot for district courts and Chandigarh for High court for any matter arising out of this Agreement.

II. ROLE AND RESPONSIBILITIES OF Guru Gobind Singh Medical College, Faridkot

1. The space as per applicable norms will be made available by Guru Gobind Singh Medical College, Faridkot to the Tenderer for running of these services
2. Collection of charges on behalf of the Tenderer and maintaining the records of the charges collected and also of the free patients.
3. Providing NOC to enable Tenderer to apply for electricity connection and generator. Expenses on separate electric meter for which the applicable security deposit and installation charges within the operating rooms under PPP will be borne by Tenderer. It may be noted that the any additional and separate wiring required for electricity load other than the current setup, shall have to be borne by Tenderer.

III. ROLE AND RESPONSIBILITIES OF TENDERER

1. Tenderer will comply with the requirement of providing security deposit (non-interest bearing) of ₹ 20 lakhs by way of Bank Draft in favour of Principal, Guru Gobind Singh Medical College, Faridkot from any of the scheduled/nationalized bank during the period of the contract.
2. Installation of electricity meter in its own name will be undertaken by Tenderer.
3. Tenderer will be responsible for maintenance of the machines and related equipments and comply with the norms for maintenance.



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4. Tenderer will also comply with the fire safety requirements as per the various central Act/Punjab Municipal Corporation Act
5. All the operational cost relating to functioning of each of the services including the cost of deployment of the personnel will be borne by Tenderer
6. Tenderer shall comply with the requirements relating to installation of software packages for operation and management of the Centre.
7. Display of rate list, timing & contact of tenderer /service provider at the centre along with necessary signage(s).
8. Tenderer shall install equipment with bidirectional interfacing capabilities with upcoming hospital HIS (Hospital Information System) and agreed to enter patient's reports in HIS.
9. Tenderer shall maintain all applicable records including records of patients, reports, scans and other reports for the duration as specified by law/state/central agencies from time to time.
10. Emergency care:
 - a. Put and Maintain a crash cart
 - b. Maintain an emergency resuscitation kit
 - c. Ensure that his/her employees/staff are trained in BLS/ACLS
 - d. Anaphylaxis is known to happen during contrast studies, and tenderer shall be responsible to provide due care to such patient till they are shifted to emergency by staff of tenderer.

IV. POLICY ON USER CHARGES AND FREE SERVICES

A. USER CHARGES

1. User charges will be collected by Guru Gobind Singh Medical College, Faridkot on behalf of the service provider/ Tenderer
2. Such charges shall be paid back to Tenderer after keeping 10% of the charges for poor free cases.
3. Rates should be prominently displayed by Tenderer in the facilities where these services are provided.



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4. Tenderer may increase user charges every year by 5% (rounded off to nearest 10/-) of the previous year applicable charges.

B. FREE SERVICES

The policy of free services shall be applicable to poor and vulnerable sections of the population. Free services will be provided to the poor patients as per the policy of Guru Gobind Singh Medical College, Faridkot. These patients will be referred by the Medical Superintendent on the recommendations of faculty of the hospital and associated hospitals.

V. MONITORING MECHANISMS

Performance review will be undertaken by Principal, Guru Gobind Singh Medical College, Faridkot or his/her representatives from time to time.

VI. CAUSES FOR TERMINATION OF AGREEMENT

Any of the following events shall constitute an event of default by Tenderer entitling Guru Gobind Singh Medical College, Faridkot to terminate this agreement:

- 1 In case of Failure to commence services in the Hospital within three months of signing the agreement.
- 2 Failure to comply with SOPs for operation and management of the services
- 3 Collecting charges from the patients in violation of the Policy on collection of user charges.
- 4 Error detected on more than two occasions in six months in recording the correct entry of the number of patients referred from the concerned hospital in each month.
- 5 Failure to comply with the statutory requirements of various central Act/Punjab Municipal Corporation Act.
- 6 Criminal indictment of the promoters, member/s of the Board of Directors, chief functionaries, key personnel engaged by Tenderer for operation and management of the services.



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- 7 Engagement of unqualified persons for running of the Services
- 8 Use of the allocated space by Tenderer for any other purpose other than of CT scans.
- 9 Failure to comply with the requirement of round the clock services 24X7.

Upon occurrence of any of the defaults, Principal, Guru Gobind Singh Medical College, Faridkot would follow the procedures of issuing Notice/Show Cause before deciding on termination of the agreement. The decision of Guru Gobind Singh Medical College, Faridkot shall be final and binding on Tenderer

VII. DURATION OF SERVICES

Tenderer will ensure that the services would be provided round the clock throughout the year for at least 95% of the time with maximum of 5% time to be spared for maintenance activities of the equipment. Thus maximum duration for repair will be 5% per year i.e. 18 days per year. If breakdown/ repair is more than 5 % in a year, i.e., 5 days in 100 days), Tenderer will pay Rs. 10,000/- per day as penalty to the Guru Gobind Singh Medical College, Faridkot. In addition to above, in case Tenderer fails to rectify the defects and resume the operations within 30 days from the date of breakdown of services, the Contract shall be liable to be terminated (at the discretion of Principal, Guru Gobind Singh Medical College, Faridkot) in addition to forfeiture of the security amount.

VIII. ELIGIBILITY CRITERIA OF APPLICANTS AND SELECTION PROCESS

Selection Committee will be constituted by the competent authority to scrutinize the bids received.

Eligibility Criteria of the Organization for Submission of Tender

The eligibility criteria for consideration of selection of the Organization for installation, operation and management of the CT Scan:

1. The Organization (Limited Company/Private Limited Company/Partnership or Proprietary Firm / NGO / Trust) must be registered under appropriate statutory



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authority of Government or under Companies Act or CPSU's declared by GOI/Manufactures of the CT Scan, Digital X-ray (CR/DR) & Ultrasound.

2. The Organization may be located anywhere in India but has experience in health care activities for more than three years.
3. Fulfilling of one of the requirements
 - a. The Organization has installed, operating and managing for last 3 years the CT scan facilities.
 - b. The Organization has experience of running a Diagnostic Centre for more than three years. The annual turnover to be eligible to apply is rupees fifty lakhs for in aggregate for the last two financial year ending March 2015.
 - c. Running a Health Facility/Nursing Home with Diagnostic Facilities for more than three years. The annual turnover to be eligible to apply is rupees one Crore in aggregate for last two financial years ending March 2015.
4. Applicant failing to fulfil any of the above-mentioned Eligibility Criteria will not be considered for selection. However, the selection committee may relax one or more of the eligibility criteria in case of deserving applicants
5. Non- accredited organizations will have to participate in external quality assurance scheme (EQAS) with accredited organization and keep the records for monitoring purpose. They shall submit the EQAS results within 3 days.
6. Physical inspection at the facilities of the applicants with prior intimation may be undertaken by Selection Committee or members authorized by Selection Committee for gathering information relating to short listing of applicants for further processing for selection. The Selection Committee can call for any further clarifications or information or documents at any point of time. The applicant may also be called for explaining or clarifying issues, if there be any. Decision of the Selection Committee on selection of the Organization is final.

IX. Maximum user charges to be charges to patients:

Final selection of the Organization from the short-listed applicants would be made on lowest price quoted per CT scan. This Quote price shall be termed as '**base charges**'



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1. Charges for CT scan shall be calculated based on base price quoted
2. Maximum charges allowed to be charged shall be in multiple of base rate as specified below.
3. For CT guided procedure like FNAC/Biopsy, a maximum of 70% of the base price shall be allowed to be charged. Time for procedures shall be fixed mutually. In addition hospital may charge from patient additional charges for performing such procedures.
4. Maximum Additional Charges allowed for contrast shall be as below:
Charges for contrast shall be finalized during the pre-Bid Meeting and have been currently proposed to be in two slabs one as 500/- per contrast study and another 1000/- per angiographic study. Such charges shall be inclusive of handling charges and other consumables required for its administration.

S.No	Name Of Investigation	Maximum allowed charges <input type="checkbox"/>
1	Head Plain	At Base Rate
2	Head Contrast only	At Base Rate
3	Head Plain + Contrast	Base Rate * 1.5
4	Orbit (axial / coronal)	Base Rate * 1.5
5	Orbit (Axial + coronal)	Base Rate * 2.0
6	Face with 3D reformation	Base Rate * 2.0
7	PNS (axial / coronal)	Base Rate * 1.5
8	PNS (axial + coronal)	Base Rate * 2.0
9	Petrous temporal bone (axial / coronal)	Base Rate * 1.5
10	Petrous temporal bone (axial + coronal)	Base Rate * 2.0
11	Sella	Base Rate * 1.5
12	CP angle	Base Rate * 1.5



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13	Base of skull	At Base Rate
14	Neck	Base Rate * 1.5
15	Upper abdomen	Base Rate * 2.0
16	Lower abdomen / pelvis	Base Rate * 2.0
17	Whole abdomen	Base Rate * 3.0
18	Any one joint with 3D reformation	Base Rate * 2.0
19	HRCT for lungs	Base Rate * 2.0
20	Chest (Lung + Mediastinum)	Base Rate * 2.5
21	Chest (Lung + Mediastinum) + HRCT for lungs	Base Rate * 3.0
22	One part of Spine (CVJ/Cervical/Dorsal/DL junction/LS) with 3D reformation	Base Rate * 2.0
23	CT guided FNAC/Biopsy	Base Rate * 0.7
24	CT Angio except coronary Angiography	Base Rate * 4.0
25	CT Coronary Angiography	Base Rate * 6.0



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List of Annexures

Annexure A	Specifications of the equipment to be installed
Annexure-B	Instruction to Organizations regarding submission of tender
Annexure-C	Application Format for the Organizations intending to apply
Annexure-D	Draft of the letter regarding rate (base price) offered.
Annexure-E	Draft of the covering letter to be submitted in the Letter Head of the Organization
Annexure-F	POA in favour is person signing the bid documents



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Tender No. BFUHS/GGSMC/CT SCAN/2016/010

ANNEXURE-A

Minimum technical specifications for 64 Slice CT scanner

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 or 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: 20-500 mA (With incremental steps of 10 mA)
- KV Range: **80-140** or more

c) X-Ray Tube:

- Tube Voltage: **80-140 kV** or more
- Anode Heat Storage Capacity of at least 5.0 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.



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- 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:

- 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.

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 1 TB 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.



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- Archiving options: CD-R, DVD, should be available. Blue ray data transfer will be preferred.

j) Workstation client server architecture

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.
5. Interactive & Automatic Cine display should be available.
6. Image Evaluation Tools:
 - (i) Parallel evaluation of multiple ROI in circle, irregular and Polygonal forms,



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(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:

- An integrated intercom and Automated Patient Instruction System (API) should be provided.
- Two closed circuit TV for patient monitoring.
- Additional CCTV recording of its console rooms, reception, waiting must be maintained for atleast 15 days

l) Dry Chemistry Laser Imager:

- Resolution: 16 bits/ 500 dpi or more with minimum three ports.
- Support Multiple Film Sizes: one of which must be 17"x14".
- DICOM 3.0 ready

n) System Configuration Accessories, spares and consumables:

- Collapsible wheel chair with rubberized swivel wheels – min 01 nos.
- Standard Patient positioning accessories and restraining devices - min 02 sets.
- Light weight Lead Aprons "0" lead - min 3 Nos. Gonadal shields – min 5 Nos, Thyroid shields – min 5 Nos and Lead goggles – min 2 Nos.
- Lead Glass min 00 cm x 150 cm of 2 mm Lead equivalence as per the requirement of the equipment and also as per AERB recommendations
- Online UPS of suitable rating should be supplied for the complete system including Gantry, computer system, with at least 30 minutes back up and generator for backup for electricity.
- Dual Head Pressure Injector with 3000 syringes of 200 ml.
- System must be PACS, HIS/RIS interface ready without any new hardware or software.
- 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)**
- A free comprehensive software **update** guarantee for entire life of scanner must



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be provided.

- **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.



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ANNEXURE-B

INSTRUCTION TO ORGANIZATIONS REGARDING SUBMISSION OF APPLICATION

1. Please read the Information Brochure carefully before submission of the application.
2. The application is to be submitted in prescribed format containing general and technical information. This application is to be sealed and superscribed "General and Technical Information with copies of required documents.
3. Format for the price bid (base price) quoted. This document is to be sealed and superscribed "Offer for price bid".
4. Draft of the covering letter is provided in Annexure III.
5. The sealed documents as mentioned above along with a covering letter be put in one envelope.
6. The application is to be submitted in the following address:
To,
***The Principal,
Guru Gobind Singh Medical College,
Faridkot.***
7. The tender document can be downloaded from website www.bfuhs.ac.in and www.ggsmc.org
8. The last date of submission of Tender Bid is **26.04.2016** at **1.00 P.M.**
9. Pre Bid meeting shall be held on **30.03.2016** at **3.00 P.M.** at the Committee Hall, Baba Farid University of Health Sciences, Faridkot.
10. Tenders shall be opened on **26.04.2016** at **3:30 pm.** One representative from each bidder shall be allowed to attend the same. Financial bid may be opened same day depending the completion of technical evaluation process. The venue for opening of the sealed tenders will be the Committee room of the Vice Chancellor Office, Baba Farid University of Health Sciences, Faridkot.
11. If any of the documents as asked for are not submitted along with the application,



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the application form submitted by the applicant may be rejected.

12. Interested Organizations desiring to undertake physical inspection of the Hospital before submission of the tender as well as for any clarification, if required, relating to filling of application may contact Principal, Guru Gobind Singh Medical College, Faridkot.



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ANNEXURE-C

APPLICATION FORM FOR SELECTION OF THE ORGANIZATION AS SERVICE PROVIDER FOR INSTALLATION, OPERATION AND MANAGEMENT OF DIAGNOSTIC SERVICES UNDER PPP

1. Name of the Organization:
2. Status of the Organization: Limited Co. / Private Limited Co. / Partnership Firm / Proprietorship Firm / NGO / Trust / Others (specify):
3. Nature of Business/Activities of the Applicant:
 - a.
 - b.
 - c.
4. Complete address:

5. Phone & Fax number: _____
6. E-Mail ID: _____
7. Web site (if any): _____
8. Number of years of experience in Health Care: _____
9. Name and Address of the Hospital/Nursing Home/Diagnostic center:
(If the name/address is different than that of the Organization as stated under 1 above) _____
10. Year of Incorporation /start of the Hospital /Nursing Home/Diagnostic Centre:
11. Services/Facilities provided in-house (Please Tick)
 - a. CT Scan Yes / No



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- | | |
|-----------------------|--|
| b. Digital X-ray (CR) | Yes <input type="checkbox"/> / No <input type="checkbox"/> |
| c. Digital X-ray (DR) | Yes <input type="checkbox"/> / No <input type="checkbox"/> |
| d. Ultrasound | Yes <input type="checkbox"/> / No <input type="checkbox"/> |

12. Annual turnover of the Organization for the last two financial years:

.....

13. Information to be submitted for applications for CT Scan

A. Year of introduction of the services: _____

B. Make and model of the machine:

Services	Year 2015	Year 2014	Year 2013	Remarks, if any
Number of patients on CT Scan				

C. Existing Man Power for CT Scan

Personnel	Numbers	Remarks/if any
Medical Personnel		
<ul style="list-style-type: none"> • Radiologist • Other Medical Personnel 		
Para Medical & Technicians		
Other Staff		
Total		

D. Is the Organization at present engaged in operation of CT Scan/Digital X-ray (CR/DR) & Ultrasound under PPP. If yes, please specify service provided under PPP: CT Scan/Digital X-ray (CR/DR)/Ultrasound

E. Please inform the name of the hospital where the services are provided under PPP:

14. **Declaration:** This is to confirm that no litigation is pending on date and no penal measures were taken against us under applicable Acts and laws.



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15. List of documents submitted with the application (please tick)

- a. Copy of Registration Details of the Organization and Memorandum & Article of Association (if applicable)
- b. Copy of the partnership deed if it is a partnership firm
- c. Copy of Balance Sheet for the last two financial years

Date:

Signature of the applicant
Name in full &
designation



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ANNEXURE-D

Letter Regarding Rates Offered

Price Bid

(to be placed in a separate sealed envelope)

To

***The Principal,
Guru Gobind Singh Medical College,
Faridkot***

Subject: Application for CT scan (PRICE BID)

Dear Sir,

With reference to your advertisement dated _____ for selection of Organization for CT Scan services under PPP our bided base price is _____.

Date:

Signature of the applicant
Name in full & designation



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Annexure E

DRAFT OF THE COVERING LETTER TO BE SUBMITTED IN THE LETTER HEAD OF THE ORGANIZATION ALONG WITH APPLICATION AND OTHER DOCUMENTS

To

The Principal,
Guru Gobind Singh Medical College,
Faridkot

Subject: Application and Bid in response to your tender Advertisement dated

_____.

Dear Sir,

With reference to your tender advertisement dated _____ for selection for installation, operation & Maintenance of CT Scan at Guru Gobind Singh Medical College, Faridkot.

We submit our Application and offer the rates for your consideration. As required, we enclose the following documents in sealed cover along with this letter:

1. Application Form duly filled in and copy of documents as required in the Information Brochure duly filled in.
2. Rates offered by us in the prescribed format.

Date:

Signature of the applicant
Name in full & designation



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Annexure F

AFFIDAVIT (to be modified as applicable)

I/We..... Son of the Director
(s) /properitor/partners of M/s with registered office at
..... do solemnly affirm and
state on oath that:

1. I/We nominate Shri/Smt
..... Son/Daughter of
..... to apply for tender for CT Scan, with Guru
Gobind Singh Medical College, Faridkot and authorize him/her to sign all the documents and to
do all the things for and on behalf of m/s
2. A General Power Attorney along with Resolution Board of Directors have also been given to
him/her to enable him/her to apply for the above mentioned tender.
3. We undertake to state that our firm will be solely responsible for all the acts of
commission/omission being done by him/her On
behalf of m/s shall be as if done by
the firm

The information & undertaking given above is true to the best of my/our knowledge.

Place:

Signature(s) of Deponent(s)

Date:

Seal of the firm/Company

Verification

I/We, above-named deponent/deponents hereby verify that the contents of my/our above deposition are
true to the best of my/our knowledge and nothing has been concealed there from.

Verified at.....this.....day of.....

Deponents (s)