

**TENDER NOTIFICATION**

The Head, CLPC, Sri Adichunchanagiri Shikshana Trust invites closed tenders from eligible tenderers or bonafide licensed manufacturers (OEM) or their authorized local supplier/ dealer/ distributor in the state of Karnataka for the **Procurement of 128 Slice CT Scanner to BGSMCH, Nagrur, Nelamangala** as per section I & II.

01	Name of the work	Tender for the Procurement of 128 Slice CT Scanner to BGSMCH, Nagrur, Nelamangala
02	Last Date for Tender Submission	On or before 3.12.2025 before 5.30 PM

Section-1**Instructions to Tenderers**

- 1) The Tenderer shall submit the bids (Technical & Financial bids) through the mail id: **clpchead@bgscet.ac.in** on or before the last date of tender submission (for any or all list of items) on professional business letterheads only. The details to be printed on the letter head is as follows
 - i) Tender for Rate Contract for Housekeeping for BGS Institutions.
 - ii) Tender Reference number.....[Insert Number]
 - iii) Address to "The HEAD, CLPC, Sri Adichunchanagiri Shikshana Trust, BGSCET Campus, Mahalakshmipuram, Bengaluru - 560086"
 - iv) The tenderer shall submit the original documents to this office on the last day of submission for verification who prefers to submit the tender through Post can dispatch the same through Registered post / Speed post or Couriers as to reach the above address on or before the due date and time specified in the Tender Notice. Tenders received after the due date and time, for what so ever reasons will not be considered and the authority, Head of CLPC will not be liable or responsible for the same.
- 2) **Tender Currency:** Prices shall be quoted in Indian Rupees only.
- 3) **AMC/CMC (IF ANY)** is subject to the Sri Adichunchanagiri shikshana trust's norms.
- 4) **Warranty:** As per the standards | 3 Years
- 5) **Amendment of tender documents:** At any time prior to the deadline of submission of tenders the trust may, for no reason, whether as its own initiative or otherwise modify the tender documents by amendment. Sri Adichunchanagiri Shikshana Trust reserves all the rights to accept, reject, incorporate changes and re-tender without giving any reasons.
- 6) **Documents Comprising the Tender:** Shall attach Brochure, Certification of the product, Bank/account details, PAN, GSTIN, Good Standing Certificate and 02 years of ITR declaration inside the envelope and the company contact details with email id on the in the below mention format in annexure - 1.



- 7) **Tender Prices:** Prices indicated on the price schedule shall be entered separately i.e. the price of the goods, quoted (ex-works, ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, as applicable), including all duties and sales and the other taxes already paid or payable. Any Indian duties, sales and other taxes which will be payable on the goods if the contract is awarded. Conditional tenders will not be considered. The bidder has to give the quotation in the below enclosed format in annexure – 2.
- 8) **Validity of the Bid:** 90 days from the last date of submission of bid.
- 9) **Corrupt or Fraudulent practices:** Sri Adichunchanagiri Shikshana Trust requires that the tenderers, observe the highest standard of ethics during the procurement and execution of such contracts. In purchase of this policy:
 - a) Will reject a proposal for award if it determines the tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
 - b) Will declare a firm ineligible, either indefinitely or for the stated period of time, to be awarded a university contract if it any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a trust contract.
- 10) **Process to be confidential:** Information relating to the examination, clarification, evaluation, and comparison of tenders and recommendations for the award of contract will not be disclosed to tenderers or any other persons not officially concerned with such process until the award to the successful tenderer has been announced. Any effort by a tenderer to influence the employer's processing of tenders or award decisions may result in rejection of his tender.
- 11) **Clarification of Tenders:** To assist in the examination, evaluation, and comparison of tenders the employer may, at his discretion, ask and tenderer for clarification of his tender, including breakdowns of unit rates. The request for clarification and the response shall be writing or by cable, but no change in the price or substance of the tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the employers in the evaluation of the tenders.
- 12) **Delivery:** The successful BIDDER should commence the service as per the tender document/work or purchase order. For any queries or assistance, please write to clpchead@bgscet.ac.in or telephone to +91- 8123707324.
- 13) **Penalty Clause:** Non-execution of supply order – for the reasons of failure to supply partially or completely within the stipulated time or any event of breach of contract. In case at any following stages
 - a) For the delayed supply (3 days of grace period) – 5% deduction
 - b) Quantity issues – 5 % deduction
 - c) Quality issues – 10% deduction

Section-2**Technical Specification**

Technical Specifications of 128 Slice per rotation CT Scanner		
A. Malin Equipment		
Department of Radio-Diagnosis, Adichunchanagiri institute of medical science, B.G.Nagara		
S.No.	(A) Features	(B) Essential Specifications
1. Gantry		
1.1	Aperture	≥ 70 cm
1.2	Scan field	≥ 50 cm
1.3	Gantry Tilt	Minimum tilt of 20 degree on either side.
1.4	Integrated display panel	Gantry front showing current scan parameters such as kV, mA etc.
2. X-RAY GENERATOR		
2.1.	Output capacity (actual and not effective)	70 kW or higher. The generator with the higher power output would be preferred. Also the bidder should mention whether the system would be capable of tackling the dual energy applications if there is an upgrade
2.2.	mA range	20-600 mA (With incremental steps of 10 mA)
2.3.	kV	70-140KV or more
3. TUBE ASSEMBLY		
3.1.	Tube Voltage	Tube Voltage 70-140KV or more
3.2.	Tube current range	Tube current range 600mA or more
3.3.	Anode heat storage capacity	Anode heat storage capacity 7 MHU or more
3.4.	Anode heat dissipation rate	≥ 1 MHU per minute
3.5.	Focal spot	1.0 X 1.0 cm or less
4. PATIENT TABLE		
4.1.	Maximum load capacity	Maximum load capacity ≥ 150 kg
4.2.	Scannable range	Scannable range ≥ 1500 mm
4.3.	Longitudinal table speed	≥ 100 mm per sec
5. SCANNING MODES		
5.1.	Spiral scanning	
5.1.1.	Spiral exposure	At least 60 sec or more
5.1.2.	Scan time for full 360-degree rotation	≤ 0.35 sec



5.1.3.	Bolus triggered/ bolus chase spiral acquisition	The system should be integrated with injector for auto trigger (care contrast/Xstream injector/ Injector Synchronization / Sync Right equivalent)
5.2.	Axial Scanning	
5.2.1.	Slice Thickness (Axial mode)	0.625 – 5 mm variable
5.2.2.	Dynamic Multiscan	It must be possible to do dynamic multiscan for any body part
6. DATA ACQUISITION SYSTEM- LATEST DETECTOR CONFIGURATION		
6.1.	Detector coverage width	38 mm or more at 1:1 pitch
6.2.	Number of acquired slices per rotation	Minimum 128 slices
6.3.	Number of detector rows or elements	64 rows or more of physically independent detectors
6.4.	Whole brain perfusion	Whole brain perfusion: The system should do whole brain CT perfusion with coverage of not less than 8 cm.
6.5	2D intervention scan mode	2D intervention for biopsy needle planning
7. PATIENT COMMUNICATION		
7.1.	Integrated patient intercom	There should be integrated patient intercom
7.2.	Automatic patient instruction	A standard set of commands for patient communication before, during, and after scanning should be available in the English, Kannada and Hindi language
8. PATIENT REGISTRATION		
8.1.	Pre-registration	It should be possible to do pre-registration of patient at any time prior to scans
8.2.	Emergency registration	Special emergency registration should be possible
8.3.	HIS & RIS integration	It must transfer patient information from departmental existing HIS & RIS via DICOM Get Work list
8.4.	PACS/HIS/RIS	It must transfer examination information from scanner into departmental HIS & RIS via MPPS
9. OPERATOR CONSOLE WITH TABLE		
Computer System & image processor		
9.1.	CPU Processor	Minimum quad core processor, 2TB or more hard disc, 8 GB RAM. The best available option to be quoted by the vendor
9.2.	Display	One large minimum 19" high resolution medical grade dual monitors with a display on 1,024 X 1,024 or more



9.3.	Software	Should perform the functions like scanning image reconstruction, film documentation, MPR, CT angiography, MIP, 3D VRT, 3D SSD, Fly through, readymade perfusion for stroke imaging, cardiac imaging and film printing
9.4.	CT Angiography and Automated bone removal	Protocols to do CT angiography of anybody region and accurate presentation of subtracted CTA data sets
10. IMAGE POST PROCESSING		
10.1.	Architecture	A Client Server Architecture based solution (Intelli space portal/ AW Server/Syngo Via etc)
10.1.1.	Minimum number of slices	Software must support minimum 20,000 slices with data pre-processing
10.1.2.	User licensing scheme	As defined for each application
10.1.3.	Integration	Imaging processing server must be integrated with RIS-PACS in the department
10.2.	Server Hardware	
10.2.1.		Dell/HP/IBM dual CPU; RAM- 96 GB minimum; Data Disc: RAID level 5; Graphical processing unit: NVIDIA GPU or equivalent; Image storage minimum 10 TB
10.3.	Client hardware (2 units)	specification for each client station
10.3.1.	Monitors	Dual medical grade monitors per client, each monitor of 2 Megapixels or more, 5-button mouse , Online continuous UPS of at least 2kVA
10.3.2.	CPU Unit	Z820/HP 440 or equivalent CPU unit with 2 six core processors, Minimum 32 GB (8 GB X 4) RAM, NVIDIA 1 GB or equivalent, 2TB hard drive and 512 GB SSD
10.4 Server S/W		
10.4.	Basic capabilities	(3 or more concurrent users for all applications)
10.4.1.	MPR	Real-time multi-planar reconstruction (MPR) of secondary views, with viewing perspectives in all planes including curved & orthogonal MPR.
10.4.2.	ROI evaluation	Parallel evaluation of multiple ROI in circle, irregular and polygonal forms.
10.4.3.	Statistical Evaluation	Area/ volume, Standard deviation, Mean value, Image annotation and labeling, Angle measurement, Distance measurement, Histogram, Time-intensity curves, Peak-enhancement images, Time-to-peak images
10.4.4.	2D	2-D, including image zoom and pan, image manipulations, including averaging, reversal of grey-scale values, and mirroring; image filter functions, including advanced smoothing algorithm and advanced bone correction

[Signature]

10.4.5.	3D	MIP, Min IP, SSD, VRT and other advanced 3D applications and color-coding for different tissues
10.5.	Advanced application (1 concurrent users)	
10.5.1.	CT Angio	Whole body angiography- peripheral, head & neck, cerebral, aortogram & pulmonary. Automatic table and bone subtraction in CT angiography. Vessel analysis, auto-labelling & tracking. Single click bone removal, manual vessel tracking, ability for a b one free visualization. Stenosis measurement.
10.5.2.	CT perfusion	Software for advanced cerebral perfusion study with stroke protocol and summary maps of the perfused area. -Cerebral Blood Flow (CBF) image - Cerebral Blood Volume (CBV) image - Mean Transit Time (MTT) - Time to Peak image (TTP, image of bolus peak time) - Time to Start image (TTS, image of bolus arrival time) - Time to Drain (TTD) - TMax (Transit time to the center of the Impulse Response Function) - Flow Extraction Product (Permeability)
10.5.3	Neuro DSA	For evaluating cranial arteries by single click bone subtraction. Auto labelling.
10.5.4	Cardiac	ECG gated monitoring, Left Ventricular Analysis (LVA), Left ventricular wall analysis and Automated left ventricular segmentation, Coronary angiography and Plaque Analysis (calcium scoring). Analysis for TAVI (Transcatheter Aortic Valve Implantation)
10.5.5	Integrated fusion	Multi-modality fusion- fusion between PET-CT, PET-MR, CT-MR, MR-SPECT, MR-MR, MR-US, CT-US etc.
10.5.6	CT segmentation	Automated segmentation of lung lesions and analysis . Liver segmentation Sculpting,
10.5.7	Colonography	Noninvasive evaluation of the entire colon
10.5.8	Fly Through	External and internal (endoscopic) views using multiple-color surface shaded display blended with 3D volume-rendered image. Virtual colonoscopy & bronchoscopy.
10.5.9.	Dental	Prepare dental images with CT imaging for implant planning. Cone beam CT if possible.
10.5.10	GUT &	Urography, calculi characterization.
10.5.11	Spine	Autolabelling, curved planar reconstruction & rib labelling
10.5.12	Dual Energy	Metal artifact reduction applications. Basic dual energy applications like gout imaging and renal stone characterization etc.
11. IMAGE RECONSTRUCTION		



11.1.	Recon speed	Minimum 35 images/sec
11.2.	Recons Field of View	5 to 50 cm continuous
11.3.	Recon Matrix	512 X 512
11.4.	Real time display	Real-time display (512 x 512) during spiral acquisition
12. IMAGE QUALITY		
12.1.	High contrast Spatial Resolution for entire width of the detector	>16 Lp/cm @ cut-off
12.2.	Low-contrast resolution	At least 5 mm at 3.0 HU. Measurement to be based on 20 cm CATPHAN
13. DOSE REDUCTION TECHNIQUES		
13.1.	Radiation dose	There should be radiation dose calculation and display during the procedure; DICOM structured dose report, dose notification, dose alert
13.2.	Pre-patient collimation	There should be pre-patient collimation to reduce unnecessary dose to the patient
13.3.	Model-based Iterative reconstruction (software & hardware)	Iterative reconstruction: It should have latest iterative technique to reduce the patient dose. Vendor will also certify that the quoted reconstruction technique is the latest available with them.
13.4.	Pediatric & infant protocol	Low dose CT protocols must be provided
13.5.	Minimum recon speed using Iterative Reconstruction	8 images / sec
14. DOSE PERFORMANCE DATA (USING IEC STANDARD PHANTOMS)		
14.1.	Head	Not more than 20 mGy / 100 mAs
14.2.	Body	Not more than 10 mGy / 100 mAs
15. NETWORKING		
15.1.		DICOM Storage (Send/Receive)
15.2.		DICOM Modality Work list User
15.3.		Modality Performed Procedure Step (MPPS)
15.4.		DICOM Print User
15.5.		Query/Retrieve User and Provider
15.6.		DICOM 3 compliance



15.7.	Integration with department RIS	Integration with departmental RIS and PACS and institution HIS must be done. Any licenses or software needed for the same is to be provided
16.	ARCHIVING	
16.1.		Fully DICOM 3.0 compliant including capability from HIS- RIS interface
16.2.		Service Class User & Provider (CT, MR, NM, Secondary Capture)
16.3.		Storage Commitment User
16.4.		Removable Media
16.5.		DVD-ROM archive
		DICOM CD Writer. Specify minimum number of uncompressed and compressed images that it can store per disc. Option of viewing these discs on any PC without DICOM viewer should be available. Warranty of the system should protect against obsolescence of this device.
17	WARRANTY & CMC WARRANTY a) All the equipment supplied including X ray tube and all accessories supplied (such as UPS with batteries , AC, pressure injector and all third party items etc) to the dept. of Radio- diagnosis, AIMS, B.G.Nagara should have warranty for a period of 3 years from the date of handing over the fully functional unit. The vendor should take care of day to day running of UPS, AC etc. b) Even during the warranty period the desired up time of 95% of 365 days in a year (24 hr basis) will be ensured, no discount will be given on account of public holidays / Sundays. In case the down time exceeds the 5% limit, extension of the warranty period by the excess downtime period will be carried out. POST WARRANTY COMPREHENSIVE MAINTENANCE CONTRACT (CMC) FOR NEXT 7 YEARS. a) The CMC should include X ray tube + labor + spares for the complete system which includes all the accessories supplied such as UPS .b) The desired up time is 95% of 365 days (24 hrs basis) in case the machine is found not to be working for reasons other than force majeure conditions, no discount will be given on account of public holidays/ Sundays. In case the downtime exceeds the 5% limit, extension of the CMC period by the excess downtime period will be carried out.	
18	Software updates	All future software updates compatible with supplied hardware shall be free of cost during warranty and CMC period.
19.	Onsite training	· Onsite training for CT technician & doctors for a period of 4 weeks on the application of the system. · Cardiology training for 2 technicians and 2 radiologists for 1 week

B. Accessories (Price to quoted separately)		
1.	DUAL HEAD PRESSURE INJECTOR	
1.1.	Dual head pressure injector	Dual Head Technology with ceiling mount & scanner Interface cable
1.2.	Compatible pump hose and patient hose	250 sets of syringes and 1000 patient tubings
2.	UPS (Emerson or APC)	
2.1.	Power	Minimum 160 kVAUPS (Emerson / PCI / or equivalent)
	Minimum full system backup time	Minimum 30 min back for full system including image processing server
2..2	Lead apron with glasses with hanger	5 in number
· The company must give product data sheet confirming the specifications along with the tender.		
· Both the regular and optional items mentioned in the date sheet should be provided.		
· Compliance statement must be provided under the heading mentioned in the tender.		



Annexure – 1**PARTICULARS OF THE BIDDER**

Sr. No	Description	Details (to be filled by the responder to the Bid)
1	Name of the company	
2	Official address	
3	Phone No. And Fax No.	
4	Corporate Headquarters Address	
5	Phone No. And Fax No.	
6	Web Site Address	
7	Details of Company's Registration (Please enclose copy of the company registration document)	
8	Name of Registration Authority	
9	Registration Number and Year of Registration	
10	ISO certifications and its validity	
11	GST registration No.	
12	Permanent Account Number (PAN)	
13	Company's Revenue for last 3 years (Year wise)	
14	Company's net worth for the last year	
15	Bank Details (Name, Account no., Branch, IFSC, MICR)	



10 | Page

Annexure – 2

The Bidder has to quote the rate in the Item Data available online with this bid. Details to be filled up for price bid are as below:

The price shall be inclusive of all taxes (inclusive of GST) under the relevant Laws of India.

SL. No	Particular	Amount In Rs. (Inclusive of All the taxes)
1	Total Cost for the Procurement of 128 Slice CT Scanner to BGSMCH, Nagrur, Nelamangala	
2	Total cost for hiring 128 slice CT Scanner on Rental Purpose to BGSMCH, Nagrur, Nelamangala (per month or per use)	
3	Total Annuity payment for the procurement of 128 slice CT scanner to BGSMCH, Nagrur, Nelamangala (Finance Lease / Operating Lease)	
Total in Rs and in words –		



11 | Page