

SAST/CLPC/ACU-BGSMCH/ 158 /2025-26

Date: 26-11-2025

TENDER NOTIFICATION

The Head, CLPC, Sri Adichunchanagiri Shikshana Trust invites closed tenders from eligible tenderers or bonafide licensed manufacturer (OEM) or their authorized local supplier/ dealer/ distributor in the state of Karnataka for the **Procurement of Digital Mammography at BGS MCH Hospital, Nagarur, Nelamangala.** as per section I & II.

01	Name of the work	Procurement of Digital Mammography at BGS MCH Hospital, Nagarur, Nelamangala.
02	Last Date for Tender Submission	On or before 12.12.2025 before 5.30 PM

Section-1**Instructions to Tenderers**

- 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
 - Tender for Procurement of Digital Mammography at BGS MCH Hospital, Nagarur, Nelamangala.
 - Tender Reference number.....[Insert Number]
 - Address to "The HEAD, CLPC, Sri Adichunchanagiri Shikshana Trust, BGSCET Campus, Mahalakshimpuram, Bengaluru - 560086"
 - 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.
- Tender Currency:** Prices shall be quoted in Indian Rupees only.
- AMC/CMC (IF ANY)** is subject to the Sri Adichunchanagiri shikshana trust's norms.
- Warranty:** 3 years.
- 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.



1 | Page



Section-2

Technical Specification

SL. No	Particulars	Total Quantity in Nos.
1.	Digital Mammography	1

SPECIFICATIONS for SCALABLE DIGITAL MAMMOGRAM

1. System Overview

- High-end Full-Field Digital Mammography (FFDM) system.
- Fully **upgradeable to 3D Digital Breast Tomosynthesis (DBT)** with a **minimum $\pm 25^\circ$ to 50°** scan angle.
- Tomosynthesis must be **integrated** and not a separate add-on.
- Tomo imaging must be available in all standard projections, including **CC and MLO**.
- Upgrade capability to:
 - **Tomo-guided biopsy**
 - **Contrast Enhanced Mammography (CEM)**
- Equipment must be **2018 or later model**.
- System must be FDA & CE certified for **2D, 3D/DBT and stereotactic biopsy**.

2. X-Ray Generator

- High-frequency generator.
- Power output **≥ 4 kW (preferred ≥ 7.5 kW)**.
- Display available for **mA, mAs, kVp, exposure time**.
- Automatically adjusts exposure parameters with Full-Field Flex-AEC or equivalent.
- Exposure parameters must be displayed after every exposure.

3. X-Ray Tube Assembly

- Dual-track tube, each with dual-focus capability.
- Focal spot sizes: **0.1 mm and 0.3 mm**.
- Anode material: Mo / Rh / W (vendor to specify).
- Anode heat storage capacity: **≥ 150 KHU**.
- Automatic selection of track/target/filter.

4. Gantry & Patient Positioning

- Fully **isocentric gantry**.
- Motorized arm rotation with displayed angle.
- Motorized vertical movement and positioning.
- **Single-touch automatic positioning** capability.
- Compression system:
 - Motorized with multi-speed control.
 - Smooth compression & **automatic decompression** post-exposure.
 - Safety lock mechanism in case of power failure.
 - Minimum **two pairs of foot switches**.
- Magnification: **1.5 – 2x**
- Paddles supplied:
 - 18×24 cm
 - 24×30 cm
 - Universal **2D/3D paddle**
- Grid details and support assembly to be specified.

5. Exposure Control

- Modes: **Manual, Semi-Automatic, Automatic**.
- Track & filter selection both automatic and manual.
- Dose display after each exposure.
- Ability to perform **grid-free 2D exposures**.
- Reject analysis interface available.

6. Detector System

- Flat-panel detector size: **≥24 × 29 cm**.
- Pixel size: **≤85 μm**, constant for 2D and DBT.
- Direct conversion technology preferred.
- Image matrix to be specified by vendor.
- Detector material to be specified.
- ≥12-bit (preferably ≥14-bit) acquisition.
- No ghosting or lag.
- High DQE (vendor to specify value).

7. Digital Breast Tomosynthesis (DBT)

- Minimum scan angle: **±25°** (Preferred up to **50°**).
- Minimum **25 projections**.
- Tomo acquisition and reconstruction times must be specified.
- Consistent spatial resolution in 2D and 3D modes.
- Synthetic 2D image generation supported.

- Display indication of angular volume for surgeons/clinicians.
- DBT must be **FDA-approved**.

8. Stereotactic Biopsy (Upgradeable)

- Upright stereo biopsy system.
- **$\pm 15^\circ$ angulation** for stereo views.
- Automatic **X/Y/Z coordinate calculation**.
- Compatible with:
 - Vacuum Assisted Biopsy (VAB)
 - Core biopsy systems
- Radiolucent biopsy paddles with cut-outs.
- Marker placement & verification imaging supported.

9. Digital Acquisition System & Workstation

Acquisition Workstation (AWS)

- Multi-core CPU, **≥ 8 GB RAM**, Dual 1 TB HDD in RAID-1.
- Windows 64-bit OS.
- High-resolution **5 MP medical grade display** (min).
- Image conformance & consistency calibration tools.
- Integrated quality control with alerts for overdue QC.

Advanced acquisition software:

- User-friendly workflow
- Screening & diagnostic tools
- Reject analysis
- Image enhancement filters
- Dynamic range compression
- Noise reduction

Imaging Tools

- Zoom, roam, pan, invert, magnify, scroll.
- Window/level (automatic, interactive, pre-set).
- Measurements and annotations.
- Support for prior image comparison.

Connectivity & Communications

- DICOM:
 - Store (Processing & Presentation states)
 - Query/Retrieve



- Storage Commitment
- GSPS / burn-in / none
- MPPS
- DICOM Modality Worklist integration.
- HIS/RIS integration.
- Export via **CD/DVD/USB**; includes DICOM viewer.
- **Dry Laser Camera**, dual trays (11×14, 14×17), min 500 dpi.

Local Data Management

- Storage: **≥5000 images**.
- Auto cleanup & study list filtering.
- Height-adjustable AWS table.

10. Safety & Quality Control

- DICOM RDSR (Dose Structured Report).
- Interactive QC tools with test images & long-term trending.
- Phantom-based QC compatible.
- Full Field Flex-AEC calibration tool or equivalent.
- Compression force monitoring.
- Safety interlocks for operator & patient.
- Remote diagnostics supported.

11. Installation Requirements

- Power: **200–240 VAC**, single or three-phase.
- Operating environment:
 - Temperature: **15–30°C**
 - Humidity: **20–80% RH**
- Isolation transformer (as per AWS requirements).
- Turnkey installation with complete training for radiologists & technicians.

12. Accessories

- Transparent lead radiation shield.
- Face shield.
- UPS with **≥30 min** backup.
- QC toolkit & documentation.
- Remote support & maintenance utilities.

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)	

Annexure – 2

The Bidder must 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 Digital Mammography at BGSMCH Hospital, Nagarur, Nelamangala.	
Total in Rs and in words –		

SL. No	Item Description	Quantity in Nos.	Unit Rate	Total Commercial Cost in Rs.
1	Total Cost for the Procurement of Digital Mammography to BGSMCH, Nagarur, Nelamangala	1		
2	Total cost for hiring Digital Mammography on Rental Purpose to BGSMCH, Nagarur, Nelamangala (per month or per use)	1		
3	Total Annuity payment for the procurement of Digital Mammography to BGSMCH, Nagarur, Nelamangala (Finance Lease / Operating Lease)	1		
	Total Price (Exclusive GST) in Rs.			

