



SAST/CLPC/ACU-AHRC/348/2025-26

Date:26-03-2025

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 DOSIMETRY/QA Machine for the department of Radiotherapy at Adichunchanagiri Hospital and Research Centre, BG Nagara - 571448, Mandya (District).** as per section I & II.

01	Name of the work	Procurement of DOSIMETRY/QA Machine for the department of Radiotherapy at Adichunchanagiri Hospital and Research Centre, BG Nagara - 571448, Mandya (District).
02	Last Date for Tender Submission	On or before 30.03.2026 5.30 PM (Tender Submission to this mail id clpcheadtender@bgscet.ac.in is Mandatory).

Section-1

Instructions to Tenderers

- 1) The Tenderer shall submit the bids (Technical & Financial bids) through the mail id: clpcheadtender@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 Procurement of DOSIMETRY/QA Machine for the department of Radiotherapy at Adichunchanagiri Hospital and Research Centre, BG Nagara - 571448, Mandya (District).
 - ii) Tender Reference number..... [Insert Number]
 - iii) Address to "The HEAD, CLPC, Sri Adichunchanagiri Shikshana Trust, BGSCET Campus, Mahalakshampuram, 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:** 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 clphead@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**

SL. No	Description	Qty	Rate per unit in Rs	Total amount per unit in Rs
1.	General Requirements	1		
2.	Therapy Beam Analyzer (RFA System)	1		
3.	Ionization Chambers List	1		
4.	Detectors for Small Field Dosimetry	1		
5.	Electrometer	1		
6.	Motorised Phantom (1D/3D)	1		
7.	Slab Phantom	1		
8.	Build-up Caps	1		
9.	QA System List	1		
10.	Software Requirements	1		
11.	Respiratory Getting Phantom	1		
12.	SGRT QA Devices	1		
13.	In-Vivo Dosimetry	1		
14.	Film Dosimetry System	1		
15.	Environmental Monitoring	1		
16.	Survey Meter	1		
17.	Miscellaneous List	1		
18.	Compliance & Documentation Lis	1		
Total Amount in Rs.				
GST %				
INR				



COMMON TECHNICAL SPECIFICATIONS – DOSIMETRY & QA SETUP

1. General Requirements

- All equipment shall be **latest generation**, CE/FDA approved.
- Compliance with:
 - **AERB (India)**
 - **IAEA TRS-398 / TRS-483**
 - **IEC standards (60601 series)**
- System must support:
 - **Photon beams up to 15 MV**
 - **Electron beams up to 15 MeV**
 - **FFF beams**
- All equipment should be **compatible with LINAC-based radiotherapy systems**.
- Vendor must provide:
 - Installation & commissioning
 - User training (Medical Physicists & Technologists)
 - Calibration certificates (traceable to national/international standards)

2. Therapy Beam Analyzer (RFA System)

- 3D/1D scanning system suitable for **beam commissioning & QA**
- Scanning resolution: $\leq 0.1 \text{ mm}$
- Scanning range: minimum **50 × 50 × 40 cm**
- Positioning accuracy: **±0.1 mm or better**
- Compatible with:
 - Ion chambers
 - Diodes
- Integrated water tank with:
 - Auto leveling
 - Temperature correction
- Software features:

- PDD, profiles, output factors
- Beam modeling compatibility (TPS export)

3. Ionization Chambers

a) Reference & Field Chambers

- Volume: **~0.125 cc**
- Waterproof or waterproof sleeve compatible
- Energy range: **kV to MV photons & electrons**
- Stability: $\pm 0.1\%$

b) Cylindrical Chamber

- Volume: **0.6 cc (Farmer type)**
- Suitable for **absolute dosimetry (TRS-398)**

c) Parallel Plate Chamber

- Suitable for **electron dosimetry**
- Minimal perturbation effects

d) Micro/Pinpoint Chamber

- Volume: **< 0.01 cc**
- Suitable for:
 - SRS/SBRT
 - Small field dosimetry

4. Detectors for Small Field Dosimetry

- Semiconductor diode detectors
- High spatial resolution
- Minimal energy dependence
- Suitable for **field size < 1×1 cm²**

5. Electrometer

- High precision (resolution: ≤ 0.1 pC)
- Multi-channel optional



- Bias voltage: $\pm 400V$ or higher
- डिजिटल display with PC interface

6. Motorised Phantom (1D/3D)

- Motorized movement with:
 - Minimum step size: **0.1 mm**
- Depth range: ≥ 30 cm
- Auto leveling system
- Compatible with all detectors
- resistant (for water phantom)

7. Slab Phantom

- Material: **Water equivalent (RW3/solid water)**
- Modular slabs with:
 - Chamber inserts
 - Film inserts
- Density accuracy: $\pm 1\%$ of water

8. Build-up Caps

- Materials: **PMMA / Brass**
- Suitable for:
 - Photon energies: **4–15 MV**
 - Electron energies: **4–15 MeV**

9. QA Systems

a) Daily QA Device

- Multi-parameter measurement:
 - Output

- Flatness & symmetry
- Energy constancy
- Compatible with:
 - **FFF beams**
- Setup time: < **5 minutes**

b) Patient Specific QA System

- Detector array (2D/3D)
- Compatible with:
 - **IMRT / VMAT / RapidArc / SRS / SBRT**
- Should support:
 - Gamma analysis (2D/3D)
 - Absolute dose verification
- 4D phantom for motion simulation

c) Machine QA Device

- Comprehensive QA:
 - Output
 - Beam profile
 - MLC positioning
- Automated reporting

10. Software Requirements

- User-friendly interface with:
 - Beam analysis
 - QA reporting
 - DICOM compatibility
- Capabilities:





- Gamma index analysis (2%/2mm, 3%/3mm)
- MLC QA
- Trend analysis
- Multi-user license preferred

11. Respiratory Gating Phantom

- Motion simulation in:
 - Superior-inferior direction
- Adjustable amplitude & frequency
- Compatible with:
 - LINAC gating systems

12. SGRT QA Devices

- Compatible with:
 - Surface guided radiotherapy systems
- Accuracy: $\leq 1 \text{ mm}$
- Includes analysis software

13. In-Vivo Dosimetry

- Diode-based system
- Real-time dose measurement
- Accuracy: $\pm 5\%$

14. Film Dosimetry System

- Gafchromic films (EBT3 or equivalent)
- High-resolution scanner:
 - Resolution: $\leq 50 \text{ microns}$
- Film analysis software:
 - Dose calibration

- Gamma analysis

15. Environmental Monitoring

- Calibrated thermometer & barometer
- Digital thermometer/barometer accuracy:
 - Temperature: $\pm 0.5^{\circ}\text{C}$
 - Pressure: ± 1 mmHg

16. Survey Meter

- Suitable for:
 - Photon energies up to **15 MV**
- Dose rate range:
 - $\mu\text{Sv/h}$ to Sv/h
- Audio-visual alarm

17. Miscellaneous

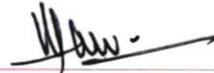
- Laser alignment tools (accuracy ≤ 1 mm)
- Spirit level (digital)
- Laptop (minimum i5/i7, 16GB RAM)

18. Compliance & Documentation

- Calibration traceable to:
 - **NABL / BARC / IAEA standards**
- Complete documentation:
 - User manuals
 - Service manuals
- **Warranty:**
 - Minimum **3 years**
- AMC/CMC support:

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 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	Procurement of DOSIMETRY/QA Machine for the department of Radiotherapy at Adichunchanagiri Hospital and Research Centre, BG Nagara - 571448, Mandya (District).	
Total in Rs and in words -		