

# VA Boston Healthcare System Tomosynthesis ( 3 -D) Mammography Imaging Technology System

**2014**

## **Objective**

This document highlights the technical specifications and services being requested by the Boston VAMC for consideration towards purchase of a Tomosynthesis (3-D) Mammography Imaging System. Offerors under this proposal shall provide all equipment and accessories, installation services, training, and project management support. Each offeror should provide guidance, technical support and guidance, and any other information relevant to the required and proper installation of this equipment. Product delivery will be the responsibility of the Offeror. Working with the General Contractor and Boston VAMC Clinical Engineering Services, the Offeror will be responsible for coordinating and performing device installation. The Contractor will be the single point of contact for the VA for this project, and will take complete responsibility for delivering a fully functional integrated Tomosynthesis Mammography System and on budget. Testing of the full integrated system must be included after installation is complete.

## **Equipment Hardware**

- a. X-ray Gantry
  - i. X-Ray Tube: Self-encased X-ray tube oil free, lead free, air-cooled head, with rotating Mo/Rh Anode
  - ii. Dual Track tube technology
  - iii. X-Ray Filters
- b. Tube Protection: Software monitoring of tube Load Grid/ Breast Support
- c. High Precision Reciprocating Grid
- d. Ergonomic Handles
- e. Breast Support Material: Low attenuation carbon filter composite and detector for breast support
- f. Flexible ,Ergonomic, and Sliding Tomosynthesis Compression Paddle
- g. Dual-Foot pedals for column height and compression adjustments
- h. Isocentric Arm with Motorized rotation and vertical movement
- i. 3-D Visual Indicators provided at the acquisition of the workstation can on the Tomosynthesis Mammography System
- j. Operators console with expanded memory
  - i. List capacity options
- k. Post processing workstation with 3D capability
  - i. Identify images/sec reconstruction rates
- l. System UPS

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- i. UPS must keep the entire system functional while transitioning to emergency power. Also should protect the system in the event of power failure to allow for a proper shutdown
- m. Acquisition workstation
  - i. CD-RW
  - ii. LCD Display
  - iii. X-Ray protective shield
  - iv. UPS
- n. Workstation
  - i. LCD Monitor , Rotating arm, and high performance color TFT monitor
  - ii. Dual monitors on iCAD workstations
- o. Mammography Breast Phantom
  - i. All required phantoms shall be included to all for calibration and performance verification. All system requirements and options identified in this Functional Statement which require a phantom must have that phantom provided in the offer.

## 2. Software

Please include all necessary software for full functionality, including but not limited to:

- a. Diagnostic Imaging Receptor Software
- b. Software for 3D imaging capable for Digital Breast Tomosynthesis
- c. Windows 7 Operating System
- d. Mammography Reporting system
- e. Mammography Based Reviewing Software
- f. Automatic Display QC Software
- g. Dynamic Tube motion Software
- h. Automated Repeat and Reject Analysis Radiation Shield
- i. Image checker Digital CAD software
- j. CAD Markers
- k. DICOM connectivity
- l. Premium view software
- m. Image Compression Capability
- n. Advanced Multimodality Module Software ( optional )

## Training to be Provided

1. At least three days of onsite training for clinical staff (required)

## Technical/Networking Capabilities

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1. Must be on the VistA Imaging Approved DICOM Modality Interface List, CAD , and MRS ( Mammography Reporting System )
2. Ability to interface with PACS and 3<sup>rd</sup> Party post processing workstations
3. Automatic Display QC Software

## **Evaluation Criteria**

Offers will be considered with consideration of the factors identified below. No specific ranking order is provided with the list below.

1. General system offering – functional capabilities and technical performance
2. Training Plan
3. Anticipated reliability and serviceability
4. Past Performance
5. Human factors design criteria – ease of use, intuitive operation, capabilities, and workflow efficiencies
6. Price
7. Implementation management and schedule

**Variances** - It is recognized that each vendor's product line may slightly differ from these specifications. It is required, however, that, whenever a variance from these specifications occurs, the proposed item meets or exceeds the specified characteristics or level of performance. The vendor shall identify each product line item that differs from the specifications.