Equipment Specifications
Computed Tomography Scanner
[VISN7/Ralph H. Johnson VA Medical Center, Charleston
[534-B92037, 534-B92038]

A. REQUIREMENT OVERVIEW

Ralph H. Johnson VA medical center is seeking to procure two CT scanners to be utilized by the Radiology section in our two new community based outpatient clinics (CBOC) in North Charleston and Myrtle Beach. The purpose of the two CTs is to perform both routine and diagnostic scans on patients. Examples of applications include scans of head, chest, spine, extremities and abdomen as well as vascular and soft tissue imaging.

Facility	Quantity
Charleston CBOC, 534-B92037	1
Myrtle Beach CBOC, 534-B92038	1

B. TECHNICAL REQUIREMENTS

1. Unit physical specifications

a. Minimum number of slices	64
b. Minimum Slice Thickness [mm]	0.625
c. Minimum gantry aperture [cm]	70
d. Minimum detector width [mm]	40
e. Minimum detector field of view [cm]	≤ 50
f. Minimum table height position [cm]	45
g. Minimum patient weight supported [kg]	295
h. Minimum 360° rotation time [s] – Vendors are encouraged to propose the fastest 360° rotation available.	0.35
i. Maximum Space Dimensions of room for equipment [ft,in] (Not including Control Room)	25,6 L by 14,7 W
j. Workstation Operating system	Windows 10 or above at time of delivery

2. Additional specifications

☒	a. The CT scanner shall provide the ability for the user to independently operate the table and gantry from the control room.

☒	b. The CT scanner shall provide the ability for the user to independently operate the table and gantry while performing patient-related exams.
☒	c. Dual Energy Imaging (either at the radiation source or in the detector)
☒	d. Ability to display CTDIvol (dose) before scan
☒	e. Ability to display DLP (dose) after exposure
☒	f. Modeled iterative reconstruction/Noise reduction. Vendors are encouraged to propose the greatest available noise reduction.
☒	g. Triggered studies using an ROI in the appropriate vessel for CTA
☒	h. Medrad ceiling-mounted contrast injector with proven reliable synchronicity.
☒	i. Full/Partial UPS
☒	j. Ability to lock protocols
☒	k. Ability to facilitate regular protocol optimization and reduced radiation dose to the patient, including but not limited to iterative reconstruction technology
☒	l. Gantry tilt
☒	m. Main Disconnect Shutdown Panel
☒	n. Patient comfort pads for table
☒	o. Reduction of radiation dose capabilities
☒	p. Reduction of radiation dose by superficial organs and tissues
☒	q. Automatic and continuous correction of the x-ray beam position to block unused x-ray at the beginning and end of a helical scan
☒	r. 3D visualization and processing capabilities for reading
☒	s. Reconstruction Algorithms for Soft Tissue, Standard, Detail, Bone, Bone Plus, Lung and Edge
☒	t. Simultaneous scanning, image reconstruction, display, processing and analysis
☒	u. Table height must accommodate wheelchair patients
☒	v. Bariatric Table Needed
☒	w. Two meter table scan option

3. Workstation Requirements

☒	a. Minimum acquisition workstation medical grade monitor size [in]	19
☒	b. Minimum acquisition workstation hard drive size [TB]	1
☒	c. Minimum number of processing workstations	1
☒	d. Minimum processing workstation medical grade monitor size [in]	19
☒	e. Minimum processing workstation hard drive size [TB]	1

☒	f. Minimum Monitor Resolution	1280 x 1024
☒	g. LCD monitor(s)	
☒	h. Trackball Control	
☒	i. Software application licensure	

4. Advanced Applications

☒	a. Low Dose Lung Screening Protocol
☒	b. Dose Tracking (must be compatible with Nexodose)
☒	c. Metal Artifact Reduction Software

Each vendor is to respond with advanced applications that meet the criteria listed above. Please include all other advanced applications offered by your company in the optional section on the quotes.

5. Security/Connectivity requirements

☒	a. OEM-supported operating system
☒	b. Latest DICOM print, store, commit, radiation dose structured report (RDSR), and modality worklist
☒	c. Encrypted hard drive
☒	d. PACS compatibility – [VistaRad]

6. Added Value

Specifications listed below are not required, but preferred. Vendors who do not include the below specifications in the submitted offer will not be docked or excluded from consideration. Specifications listed below will be evaluated based on added value.

☒	a. Additional year(s) of warranty
☒	b. Post-warranty remote diagnostic service program
☒	c. Version/platform long-range plan

C. TRAINING REQUIREMENTS

1. Clinical Training

☒	a. On-site clinical applications training for [2 per site] technologists during go-live
☒	b. On-site follow-up clinical applications training for [2 per site] technologists once technologists have hands-on experience with the system
☒	c. Technologists who complete the clinical applications training shall receive continuing education credits (CMEs).

☒	d. Vendors shall be responsible for accommodating different personnel shifts for clinical applications training during go-live.

2. Biomedical Technician Training

Please reference the "Instructions to Offers" section 2.8.g for further information about the type of information to provide by equipment type not by specific request. Please also reference the "Instructions to Offers" section 7.3.3. for response format.

Technical training information to include detailed information about the curriculum and length of the biomedical technical training required for each equipment type.

Although the NAC will not award this training along with the equipment, it is imperative that the customer is informed that this training is available. Vendors must demonstrate that they can provide any required off-site training, therefore off-site training should be quoted as an optional item. Off-site training will be purchased at the time of need via a modification (if the original order remains open) or via a separate order. No travel expenses for any VA employees will be included in any HTME equipment or training order.

D. SERVICE REQUIREMENTS

1. VPN/Remote Access – The vendor shall provide any and all equipment service programs, such as remote diagnostics, during the warranty period. The vendor shall provide post-warranty remote diagnostic service program as an "Add Option" with the offer. The system shall provide vendor remote diagnostics via VPN. The vendor shall either utilize the VA national site-to-site VPN or work with the Office of Cyber and Information Security and the VAMC Information Systems Security Officer to establish a client-based VPN.
2. Service and Operator Manuals – The vendor shall provide the following documentation for the proposed systems:
    a. Two (2) copies of operator instruction manuals (one (1) electronic and one (1) physical copy)
    b. Two (2) copies of a service manuals (one (1) electronic and one (1) physical copy)
    *Vendors can include the physical copy as a priced line item in their quote as applicable.
3. Minimum Warranty – The system and accessories shall be covered under the manufacturer's warranty and shall include all parts and labor for one year following acceptance by the VAMC. This warranty must include PMs as required by the manufacturer. The manufacturer's factory-trained field service representatives shall perform installation and maintenance during the warranty period.

Vendors are encouraged to include any offerings for service, warranty, and training that may exceed the minimum requirements, to include information on their service support structure during and after the warranty period. Vendors who do not include any added value offerings for service, warranty, and training will not be docked or excluded from consideration. However, any such offerings will be evaluated based on added value.

E. OTHER INFORMATION/DOCUMENTATION REQUESTED

Please reference the "Instructions to Offers" section 2.8a-h for further information about the type of information to provide by equipment type not by specific request. Please also reference the "Instructions to Offers" section 7.3.3. for response format.

1. Completed pre-procurement assessment form (6550 Appendix A)
2. Completed Manufacture Disclosure Statement for Medical Device Security (MDS2) form
3. Federal Information Processing Standard (FIPS) 140-2 certification
4. Product brochures
5. Technical specification sheets, to include dimensions and weight of the system
6. Typical drawings (pdf version of the CAD drawings)
7. Technical training- Biomedical: information to include detailed information about the curriculum and length of the biomedical technical training required for each equipment type.
    - Although the NAC will not award this training along with the equipment, it is imperative that the customer is informed that this training is available. Vendors must demonstrate that they can provide any required off-site training, therefore off-site training should be quoted as an optional item. Off-site training will be purchased at the time of need via a modification (if the original order remains open) or via a separate order. No travel expenses for any VA employees will be included in any HTME equipment or training order.
8. Support information to include your company's support structure during and after the warranty period
    - On-line or telephonic applications support and availability (include third party coverage)
    - A listing of field service engineer locations and availability
    - A listing of part depots

F. TRADE-IN

☒	a. VA has no trade-in units to offer.

G. SUMMARY OF REQUIREMENTS

Both CBOCs have the same needs for the CT scanners. The requirements for both sites are outlined in the above specifications.