Equipment Specifications
Digital Radiography and Fluoroscopy
VISN1/VA Boston HCS, West Roxbury campus
523-B91005

A. REQUIREMENT OVERVIEW

This document highlights the requirements, technical specifications, and services being requested by VA Boston Healthcare System towards the purchase of a Radiographic/Fluoroscopic table system that is used for diagnostic radiographic and fluoroscopic examinations. Contractor shall provide all labor, equipment, materials, parts, tools, software, project management and disposal necessary to furnish and install a fully functional Radiographic/Fluoroscopic table system at 1400 VFW Parkway, West Roxbury MA, 02132.

Facility	Quantity
VA Boston Healthcare System- West Roxbury Campus	1

B. TECHNICAL REQUIREMENTS

1.   Unit physical specifications

a. Minimum generator power [kW]	80kW
b. Radiographic kVp range [kVp]	50 to 120kVp
c. Fluoroscopy kVp range [kVp]	50 to 120kVp
d. Minimum SID range [in]	40"
e. Minimum control room monitor size [in]	19"
f. Table minimum patient weight limit - Static [lbs]	600lbs

2.   Additional specifications

☒	a. Continuous and pulsed fluoroscopy ma modes	
☒	b. Pulsed/grid fluoroscopic tube	
☒	c. Automatic Filtration	
☒	d. Removable lead curtains with counter weights for when curtains are not in use	
☒	e. System UPS - Protect the system in the event of power failure to allow for a proper shutdown	
Fluoroscopic spot device/detector		
☒	f. Flat panel detector technology	
☒	g. Automated image capture and save, to include last image hold	
☒	h. Table side controller	⦿ Pedestal

		○ Detachable
☒	i.	Footswitch controls to provide the following: Control of both fluoroscopy and spot shots Automatic shut-off when footswitch is released
☒	j.	Phantom Kit for calibration and performance verification
Control room/panel		
☒	k.	Auto HIS/RIS refresh package
☒	l.	Quality control tracking package
☒	m.	UPS for x-ray control/image memory
In Room Monitor Requirements		
Table Requirements		
☒	n.	Ability to lower examination table
☒	o.	Ability to tilt 90 degrees upright
☒	p.	Articulation of the table – capable of Trendelenburg tilt
☒	q.	Auto centering option to exact middle while the table is vertical or horizontal positions
☒	r.	Table movement controls located table side or trolley
☒	s.	Head holder device for prone position.
☒	t.	Removable/adjustable patient handgrips.
☒	u.	Removable/adjustable footrest
☒	v.	Removable/adjustable shoulder rests

3.   Software Requirements

☒	a.	Monitoring of Dosage- The system must be able to supply a technology that allows for monitoring and tracking of radiation dose provided to a patient; DICOM structured reporting is preferred. DAP accuracy must be 99% reproducible with <2% deviation.
☒	b.	Dose Reduction- The system must have systems in place to facilitate regular protocol optimization and reduced radiation dose to the patient.
☒	c.	Repeat rate – ability to track repeat / retake data to include such items as technologist (required unique identifier), reason for repeat, patient dose, exam type, etc. The data should be exportable to Excel or other databases for tracking, trending, and combining with data from other imaging sources within the facility.

4.   Security/Connectivity Requirements

☒	a.	OEM-supported operating system
☒	b.	Latest DICOM print, store, commit, radiation dose structured report (RDSR), and modality worklist

☒	c. Wireless connectivity to VA network – Compatible with 802.11b/g/n and FIPS 140-2 compliant
☒	d. Encrypted hard drive
☒	e. PACS compatibility – vendor neutral

5.   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. Version/platform long-range plan

C. TRAINING REQUIREMENTS

1.   Clinical Training

☒	a. On-site clinical applications training for 10 technologists during go-live
☒	b. On-site follow-up clinical applications training for 10 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. In instances where sanitization of ePHI compromises the OS and/or application software, or requires the removal of internal storage media, the vendor accepts the equipment "as is" and can elect at their own discretion to contract with the original equipment manufacturer (OEM) to restore the system.

The following equipment is available for trade-in. Please reflect any credits provided for trade-in equipment in the proposal.

Station	523- Boston
Manufacturer	Philips
Model	Juno DRF
EE/Asset Number	146774
Serial Number	13031215

Veterans Health Administration
Healthcare Technology Management