

ANNEX II + III: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

LOT 2: MAMMOGRAPHIC WORK STATIONS

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**Columns 1-2 are completed by the Contracting Authority
Columns 3-4 to be completed by the tenderer
Column 5 is reserved for the evaluation committee**

Annex III - the Tenderers technical offer

The tenderers are requested to complete the template on the next following pages:

- Column 2 is completed by the Contracting Authority and shows the specifications of the goods required (any modification applied by the tenderer may lead to the disqualification of the Lot so modified).
- Column 3 to be filled in by the tenderer and must detail what exactly is offered and name of manufacturer (for example the words "compliant" or "yes" are not sufficient).
- Column 4 allows the tenderer to make comments on his proposed goods and also to make reference to his documentation

The tenderers are required to demonstrate that specifications of the items that they offer are responsive to the requirement set out in the tender dossier and to identify model and manufacturer of each individual item in their technical offer and to provide necessary documentation such as catalogues, brochures, booklets that inform of details of technical specifications that sufficiently define the equipments being offered, and thus should enable the contracting authority to check the information provided in the technical offer. Offers that do not permit to identify precisely the models and the specifications quoted may be rejected during evaluation.

MANDATORY REQUIREMENTS FOR LOT 2

Main supplies Electricity 220-230 Volt single phase, 380 Volt three phase, Frequency 50 Hertz.

All equipment connected to an electrical outlet shall be provided with a solid "Schuko" Plug.



Ambient temperature: 40°C (hot zone)

Humidity: 70-80%

Altitude: Sea level

All equipment shall be delivered complete with all accessories, cables, plugs and sockets, required for operation including any software driver and manuals.

WARRANTY:

All items supplied in this Lot shall include full **commercial warranty** granted for a minimum of **one (1) year**. The warranty provided shall be described in detail in the tender.

STANDARDS:

All equipment should be from a branded source with a certified quality assurance system and have the following certifications:

- International Standard Organization (ISO);
- CE marking

Tenderers shall ensure conformity of the equipment with all applicable Serbian (Medicines and Medical Devices Agency) and EU technical regulations.

All equipment shall fully comply with international safety measures and regulations.

TRAINING:

The tenderer has to organize appropriate user training in Serbian language for effective and problem-free use of the equipment included in this LOT in each of the location mentioned in the distribution list below.

A **training proposal** for the operation of the equipment will be submitted by the tenderer in the tender.

This proposal shall include at least:

- Schedule and duration
- Description of training materials

MARKING AND LABELING

All equipment shall be marked with labels in English bearing the EU logo as per EU visibility Guidelines. See special conditions for additional details.

DOCUMENTS:

The following documents shall be delivered for all equipment:

- Service and operation manuals in English and Serbian language.
- Execution guidance / installation drawings.
- Certificates of compliance to safety norms and standards and/or trial test results at the manufacturer's facility.

TECHNICAL SPECIFICATIONS:

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, re- marks, ref to docu- mentation	5. Evaluation Committee's notes
2.1	Mammographic Workstation			
	Quantity: 14 (fourteen)			
	Dual socket with Quad Core server type processor, 2.3GHZ, 8MB/1066 CPU 8GB Memory, Hard drive 900 GB SAS			
	Preinstalled, licensed MS Windows 7 or MS XP 6-			
	Data and database management on SQL			
	Management of Patients, medical examination pixel data			
	DICOM Gateway (Query/Retrieve)			
	DICOM storage			
	100Mb/1Gb network card			
	Graphics card			
	16 x DVD-ROM/CD-RW combined unit			
	Keyboard: 101 key-enhanced USB standard QWERTZ + Serbian			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, re- marks, ref to docu- mentation	5. Evaluation Committee's notes
	Momedical computer screenuse: USB 2-button digital scroll + pad			
	Monitor: 19" standard for Patient management (1280 x 1024)			
	2 x medical computer screen for mammography, black/white, 5 MP <ul style="list-style-type: none">- Visible diagonal at least 21"- Physical resolution at least 2560x2048 pixels- View angle 170° horizontally and vertically- At least 10-bit grayscale display from a single pallet (1024)- Possibility to adjust the height of the computer screen; possibility of dismantling- Integrated sensor which continually guards and adjusts the luminance output of the two diagnostic viewing areas at the front of the display- Transparent calibration without interrupting the diagnostic workflow- Contrast at least 800:1- max. luminance at least 500 cd/m2- Computer screen must have at least 280cd/m2 in the calibrated DI-COM mode (GSDF)- Presentation of the image ratio, as well as the display of the matrix on the computer screen in the ratio 1:1 must be possible The breast imaging diagnostic stations must allow: <ul style="list-style-type: none">- User registration with a user name and a password- Setting up several user profiles- Assigning user groups			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, re- marks, ref to docu- mentation	5. Evaluation Committee's notes
	<p>SA-MDS must contain the basic tools for reviewing and data (image) editing which are used for diagnostic purposes in mammography and breast imaging as follows:</p> <ul style="list-style-type: none"> - The present display and image format (hanging protocol) with regard to the modality and body part (organ) - User-defined presets which are activated upon logging into the system - Side by side display of several studies - Stack display of studies - Display of several series on the computer screen - Display of several series on several computer screens - Simultaneous synchronized move of several series on one or several computer screens - setting up the window and the width for an individual image and the entire series - The relevant images can be specifically marked (key image marking) - Tools for calibrating the size of the pixel are available - Software including basic rendering functions (MIP, MPR) - Must support diagnostic - Technologists comments - Notification of unviewed images - Configuration (Automatic presets on preferences): Mammography (Comparative Review Mode, W/L, Magnification etc) 			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, re- marks, rel to docu- mentation	5. Evaluation Committee's notes
	Window level: - Window level - Window level reset - Invert			
	Geometry: - Flip horizontal vertical - Rotate left right 180° - Geometry reset			
	Magnify/Pan: - Extended Monitor Display - Magnify glass - Magnify Rectangle - Magnify / Pan reset - Pan - Zoom - Zoom-Thumbnails - Zoom 1:1 Pixel - Zoom True Size - Zoom to full screen - Magnify Glass: Interactive Magnification - Magnify Glass: 1:1 / not shown Pixels option - 1:1 Pixel screen layout fixed for MG/CR images - Paired panning while in Zoom 1:1 Pixel mode			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, re- marks, ref to docu- mentation	5. Evaluation Committee's notes
	<p>Comparative Review Modes (CRM):</p> <ul style="list-style-type: none"> - CRM: User configurable hanging protocols - Prior studies / image support - Lack of incidence support (CRM not affected by missing exposure) - Additional incidence support (in hanging protocol) - Retake support - Implant / Displaced view support - Partial view code handling - Multi modality support - Multi vendor support - IHE mammo hanging protocols (view code sequence) - Display and print demographics based on image laterality - Prior studies / image support 			
	<p>Printing (DICOM)</p> <ul style="list-style-type: none"> - Mammo diagnostic printing - Printing true size - True size print indicator - DICOM 3.0 storage 			
	Warranty (minimum one year)			
	Training			

1. Item Number	2. Specifications	3. Specifications Offered	4. Notes, re- marks, ref to docu- mentation	5. Evaluation Committee's notes
2.2	Uninterrupted Power Supply			
	Quantity: 14 (fourteen)			
	Technology Line - Interactive			
	USB/serial connection			
	Capacity: 1500 VA			
	Backup time at least 10 Min. at 80% of full load			
	Must include internal AVR and protection from radio and electromag- netic interference			
	Dry maintenance-free batteries (user replaceable)			
	Input voltage: 176-280 V, 50/60 Hz +/- 3 Hz (auto sensing)			
	Auto test on start up			
	Led and audio alarm			
	CD with software, User Manual (English + Serbian [if available])			
	Warranty: 12 months			

LOT 2 Delivery, installation and training list:

No.	Items to be delivered and installed	Location	Institution
1	1 Mammography workstation & UPS	Nis	Clinical Centre
2	1 Mammography workstation & UPS	Pancevo	General Hospital
3	1 Mammography workstation & UPS	Sabac	General Hospital
4	1 Mammography workstation & UPS	Loznica	General Hospital
5	1 Mammography workstation & UPS	Smederevo	General Hospital
6	1 Mammography workstation & UPS	Pirot	General Hospital
7	1 Mammography workstation & UPS	Leskovac	General Hospital
8	1 Mammography workstation & UPS	Novi Pazar	General Hospital
9	1 Mammography workstation & UPS	Prokuplje	General Hospital
10	1 Mammography workstation & UPS	Bor	General Hospital
11	1 Mammography workstation & UPS	Arandjelovac	General Hospital
12	1 Mammography workstation & UPS	Uzice	General Hospital
13	1 Mammography workstation & UPS	Kragujevac	Primary Health Centre (Dom zdravlja)
14	1 Mammography workstation & UPS	Nis	Primary Health Centre (Dom zdravlja)