

Zrenjanin, Dr Vase Savića br. 5

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07-1030/67 03 FEB 2025

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CLARIFICATIONS 1

RELATED TO TENDER PROCEDURE (QUESTIONS AND ANSWERS)

Programme	Interreg IPA CBC Romania – Serbia Programme		
Project title	Harmonization of Cardiovascular Diseases Management from Prevention to Heart Transplantation in the Cross Border Area - SIPHEALTH		
Name of the Contracting Authority	General Hospital "Đorđe Joanović" Zrenjanin, Dr Vase Savića 5, 23000 Zrenjanin Serbia		
Tender procedure	Medical equipment		
Reference No	RORS00008/GHZr/TD6		
Datum, Mesto / Date, Place	03.02.2025, Zrenjanin		

No	Question	Answer
1	Required: Min. 4 "pinless" equal active connectors for transducers, not counting "pencil" connectors Is it acceptable for the customer to minimally change this point so that it reads: Min. 4 active connectors for transducers, not counting "pencil" connectors	Yes, it is acceptable. Appropriate changes to tender dossier will be incorporated by corrigendum
2	Required: Monitor with panel size min. 21" on a movable artificial arm, with the resolution min. 1920x1080 pixels. Display of the ultrasound image allowed over the entire ultrasound screen in 16:9 format in high resolution.	Yes, it is acceptable. Appropriate changes to tender dossier will be incorporated by corrigendum
	Is it acceptable for the customer to minimally change this point so that it reads: Monitor with panel size min. 21" on a movable artificial arm?	
3	Required: Simultaneous real-time image display of the ultrasound image from the ultrasound monitor on the "Touch-screen" panel	Yes, it is acceptable. Appropriate changes to tender dossier will be incorporated by
	Is it acceptable for the customer to minimally change this point so that it reads: Simultaneous real-time image display of the ultrasound image from the ultrasound monitor on the	corrigendum



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	"Touch-screen" panel or dual mod on US monitor?!	
4	Required: Control panel with keyboard (on the touch screen or on the control panel) and interactive background lighting, heigh-adjustable (up and down min. 20 cm), with a rotating control panel (min. 170° from the center)	Yes, it is acceptable. Appropriate changes to tender dossier will be incorporated by corrigendum
	Is it acceptable for the customer to minimally change this point so that it reads: Control panel with keyboard (on the touch screen or on the control panel) and interactive background lighting, heigh-adjustable, with a rotating control panel?	
5	Required: Frequency range of the device from 1 to 22 MHz or wider	Yes, it is acceptable. Appropriate changes to tender
	Is it acceptable for the customer to minimally change this point so that it reads: Frequency range of the device from 1 to 15 MHz or wider	dossier will be incorporated by corrigendum
6	Required: The system has the ability to detect speed in CW Doppler min. 25 m/s	Yes, it is acceptable. Appropriate changes to tender
_2/3///	Is it acceptable for the customer to minimally change this point so that it reads: The system has the ability to detect speed in CW Doppler min. 15 m/s	dossier will be incorporated by corrigendum
7	Required: Quick waking-up of the device for operation (max. 120 seconds) - from completely switched off. Integrated battery for transport mode; in transport mode, it provides a source of energy for min. 40 minutes	Yes, it is acceptable. Appropriate changes to tender dossier will be incorporated by corrigendum
	Is it acceptable for the customer to minimally change this point so that it reads: Quick waking-up of the device for operation. Integrated battery for transport mode.	
8	Required: Linear transducers (supports high-frequency linear transducers >20 MHz)	Yes, it is acceptable. Appropriate changes to tender
10.11	Is it acceptable for the customer to minimally change this point so that it reads: Linear transducers (supports high-frequency linear transducers >15 MHz)	dossier will be incorporated by corrigendum
9	Required: Fully automatic cardiac software, Al-based, for automatic measurement in 2D and Doppler exams. Supports min. following 2D automatic measurements: IVSD, LVIDD, LVPWD, LVIDS, Aortic diameter, Asc AO Diam, Ao Sinus Diam, Ao STJ Diam, LVOT diameter, RV base, RV mid, RV length, RV annulus. Supports min. following Doppler measurements: MV Peak E Vel, MV Peak A Vel, LVOT VTI, LVOT Vmax, AV VTI, AV Vmax, PV VTI, TR Vmax	Yes, it is acceptable. Appropriate changes to tender dossier will be incorporated by corrigendum



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	Is it acceptable for the customer point so that it reads: Fully aut Al-based, for automatic measure exams.			
10	Required: Fully automatic Al-based following functions: 1.22.15 - Calculation of the GLS ("Strain") value of the left ventricle, it without any manual definition of calculation of common strain and the common strain and the common strain and the common strain values allowed 1.22.16 - Fully automatic calculation images/sections already processed under the common strain values allowed 1.22.17 Complete automatic calculation images/sections already processed under the common strain values of each segment in apical strain	Global Longitudinal by pressing a button rdiac structures required. Sections (AP4, AP3 and lowed. Automatic The analysis of sections ording. Display of the 18th blic" strain in the form of a y of "endo" and "mid" on of EF, using the same of for LV strain analysis. It is sment of the segmental wall motion"). Display of ections. Display of the allowed of the values in the wall motion score lowed to minimally change this	Yes, it is accept Appropriate dossier will corrigendum	changes to tender
11	Required: 1.22.20 Fully autoffware, Al-based, which automat segments and quantifies the left verthe heart during a full cycle, based the heart. The analysis allowed of well as display of mean values in to speed up the exam of patients was a result automatically yields the 1.22.21 - Measurements and volume the end of systole and at the end of 1.22.22 - The volume of the left attraction.	entricle and left atrium of on the 3D acquisition of multiple heart cycles as one analysis. The aim is with chronic diseases and following measurements: these of the left ventricle at f diastole, ium at the end of systole	Yes, it is accept Appropriate dossier will corrigendum	



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	1-		neac Principle	
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	1.22.24 - Heart rate			
	1.22.25 - Cardiac output			
	Is it acceptable for the customer to m point so that it reads: Fully automatic which automatically detects the segment the left ventricle and left atrium of the cycle, based on the 3D TTE acquisition.			
12	Required: Matrix transthoracic cardiac transducer 1 - 5MHz or wider, which enables 2D and 4D display of the heart on the device, with min. 3,000 crystal elements; supporting technology that enables rotation of the ultrasound beam, without moving the transducer (from 0 to 360°) in real time on the device.		Yes, it is acceptable. Appropriate changes to tender dossier will be incorporated by corrigendum	
	Is it acceptable for the customer to point so that it reads: Matrix transducer 1 - 5MHz or wider, whic display of the heart on the device,			
13	Required: 1.27 The device is upgrade hardware and software options:	eable with the following	Yes, it is acceptable. Appropriate changes to tender	
	1.27.1 Program for estimating the le three-dimensional TEE volume data. measurements after confirming the pr following: min. and max. axis, range a local measurement correction allowed	Automatic ojection are min. and area. Global or	dossier will be incorporated by corrigendum	
	1.27.2 3D quantification Live 3D, 3D cropping, cutting and quantification, in measurements and calculation of area volume in min. two planes, ejection fraventricular mass,	icluding distance a, left ventricular		
	1.27.3 Software for mitral valve anal volume data. Recognition and labeling mitral valve without any manual labeling leaflets and coaptation required. Visual anatomy in the form of a static and dy	g of the topology of the ng of the annulus, alization of mitral valve		
	1.27.4 Doppler view/mode with the f for better visualization of vascular stru artifacts, which uses and combines in and power doppler views/mode. Available	ctures while reducing formation from color		



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1.27.5 Also available in combination with high-sensitivity Doppler display/mode for the visualization of microvascular structures

1.27.6 TEE transducer from 2 to 8 MHz or wider, intended for 2D and live 3D (4D) TEE exams, in single crystal technology and matrix technology, with min. 2,500 crystal elements.

1.27.7 Linear transducer with a frequency range of 2-22 MHz or wider, in single crystal and matrix technology, transducer width FOV min. 50mm, with the number of crystals min. 1,900

Is it acceptable for the customer to minimally change this point so that it reads: The device is upgradeable with the following hardware and software options:

- 3D Quantification Live 3D, 3D Zoom; offers viewing, cropping, cutting and quantification,
- 4D TEE transducer,
- Software for mitral valve analysis

Vanja Kunkin, Director

