

INTERREG IPA Cross Border Cooperation Programme Greece – Republic of North Macedonia 2014-2020

Contract title: Supply of Medical Equipment

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CLARIFICATION ABOUT TECHNICAL SPECIFICATIONS:

Question 1

Please clarify if the requested VH13-5 transducer can be compatible with the 2. Portable colour Doppler machine or 1. Stationary colour Doppler machine requested under 2 and 3 from this lot. Please clarify if it is acceptable to be offered Linear Transducer with frequency 12-5 MHz

Answer 1: The title of the equipment has to be generic and not specific to favored some specific brand. In this view, it is important the offered Transducer to meet the minimum characteristics from the specification and the same to be compatible with the selected station unit (Stationary Colour Doppler Machine) that is subject of this procurement.

We stress out that the Evaluation Committee is only responsible body for assessment of the offered tenders and compatibility of the offered Linear Probe and the relevant equipment.

Question 2

In LOT NO. 2: DIAGNOSTIC MEDICAL EQUIPMENT under 2 is stated following equipment 2. Portable colour Doppler machine. Please clarify regarding:

- minimum 15" high resolution monitor if it is acceptable to offer minimum 10" high resolution monitor

- Transducer included:

- type of array convex, min 2,0-5,0 MHz if it is acceptable to offer type of array convex, min 2,0-6,0 MHz

- type of array linear, min 3,5-13 MHz if it is acceptable to offer type of array linear, min 4-12 MHz

- Data image recording option, Large memory capacity for archiving images if it is acceptable to offer 128 GB internal storage that can save ~5000 images

- Additionally in order to receive high quality Portable colour Doppler please clarify if following characteristics can be added to the technical specifications as a minimum and change the specification accordingly:

Ultrasound system of the latest generation, broadband technology, portable, tablet type or appropriate

Dynamic range, min. 250 dB, digital process channels min. 80,000

Ultrasound weight maximum 2.5 kg (without trolley and probes), with integrated carrier-handle on it that

allows easier transfer

The device has a battery that allows autonomous operation of the device min. 1.5h

Display - touch screen at least 10 "
 Touch Screen sensitive that can react to touch with a glove
 The device supports a "bluetooth" keyboard as well as a wireless "mouse"
 Fast lifting of the appliance for operation, from switched off to ready for operation for a maximum of 30 seconds, and from "sleep mode" for a maximum of 5 seconds ready for operation.
 Frame rate, min. 280 fps
 Recording depth min. 28 cm
 Advanced technology to reduce artifacts and improve the visibility of tissue textures, such as XRES, SRI or appropriate
 Spatial image composition technology from several different directions (Compound Imaging) as SONO CT or equivalent
 Optimize 2D image, Color Doppler and PW Doppler at the touch of a button
 Active zoom function
 Highly sensitive mode for flows in small blood vessels as a power Doppler or appropriate
 The system supports the following types of probes
 Convex
 Linear
 Sectoral Cardiac
 Microconvex endocavitational
 Software packages and calculations for examinations of the musculoskeletal system, soft surface tissues, vascular system, veins, nerves (deep and superficial)
 Active software for enhanced needle visualization
 Trapezoidal view on the offered linear probe
 Networking, archiving and image review
 Cineloop memory
 Integrated Hard Disk not less than 120 GB, min. 2 USB ports, HDMI port, possibility to connect a micro SD card
 Archiving images in one of the PC formats, supports all DICOM protocols
 Possibility of wirelessly sending the ultrasound image to the "Smart TV" via Wi-Fi network

Answer 2:

-It is **not acceptable** minimum 10" high resolution monitor
 -Type of array convex in the specification is Minimum 2,0 – 5 Mhz, that means **it is acceptable** to offer type of array convex min 2,0 – 6,0 Mhz
 -Type of array linear in the specification is Minimum 3,5 – 13 Mhz, that means **is acceptable** to offer type of array linear min 4-12 Mhz,
 -**It is acceptable** to offer Large memory capacity for archiving images (128GB Internal storage)
 -Additionally, in order not to favor any specific brand, the following characteristics **can not be added** to the technical specification.

Question 3

In LOT NO. 2: DIAGNOSTIC MEDICAL EQUIPMENT under 3 is stated following equipment: 3. Stationary colour Doppler machine. Please clarify regarding:
 - Transducer included:
 - type of array convex, min 2,0-5,0 MHz if it is acceptable to offer type of array convex, min

2,0-5,0 MHz

- type of array linear, min 3,5-13 MHz if it is acceptable to offer type of array linear, min 5-12 MHz

- Data image recording option, Large memory capacity for archiving images if it is acceptable to offer 500 GB hard drive space

- Additionally in order to receive high quality Portable colour Doppler please clarify if following characteristics can be added to the technical specifications as a minimum and change the specification accordingly:

Basic characteristics of the device

The system is fully digital with a minimum of 65,000 digital process channels.

Broadband technology (so-called "broadband" = simultaneously and without delay broadcasting and receiving all frequencies supported by the probe)

Dynamic range, min. 270 dB

Frame rate of the device, min. 1,100 fps

Scanning depth min. 30 cm

Number of gray shades in 2D, M-mode min. 256

Possibility to select a minimum of 8 focal zones

In Doppler mode, a minimum of 8 baseline positions

Possibility to adjust TGC (min. 8 sliders on the control panel) and LGC control

Constant display of mechanical and thermal index on the screen in real time

Possibility to adjust PW "sample volume" from 0.8 to 28mm or wider

Ergonomics

The appliance must be equipped with 4 wheels, of which a minimum of 2 must be capable of independent locking

LCD / LED color display with the ability to move in multiple directions, diagonal not less than 19 inches, resolution 1280x1024. Possibility of lighting control.

Min. 4 active probe connectors - not counting "Pencil" probes

Ultrasound mass maximum 52 (+/- 5) kg

Height-adjustable control panel with integrated alphanumeric keypad.

Active shooting modes, advanced features

Advanced technology to improve contrast resolution, reduce artifacts and visibility of tissue textures

Spatial image composition technology from several different ones that works in conjunction with "Tissue harmonic".

Real-time automatic analysis of Doppler values: peak velocity, RI, PI, systole

Optimize 2D image and PW Doppler at the touch of a button

Continuous automatic image optimization, with the option of on / off on / off optimization options

"High-definition zoom" function ("write zoom") and "read zoom" function

Simultaneous real-time 2D image comparison with Color Doppler image and / or Color Power Doppler

Sensitive Doppler mode for small blood vessel flows (Power Doppler or equivalent)

The system should have active modes: 2D, Color doppler, Tissue Harmonic, M-mode, HPRF PW Doppler, Duplex for 2D and Doppler

Options with predefined settings for abdominal, 2D and 4D OB / Gyn, pediatric, musculoskeletal examinations, and superficial soft tissue examinations, with tools for appropriate measurements.

Networking, archiving and image review

Cineloop memory, min. 1,200 frames

Internal Hard disk not less than 500 GB, HDMI, minimum 3 USB ports (of which min.1 on the front)

Archiving images in one of the PC formats as well as DICOM 3.0 protocols, with predefined reports of the review in DICOM acceptable format.

Answer 3:

-Type of array convex in the specification is Minimum 2,0 – 5 Mhz, so **it is acceptable** to offer type of array convex min 2,0 – 5,0 Mhz

-Type of array linear in the specification is Minimum 3,5 – 13 Mhz, that means **is acceptable** to offer type of array linear min 5-12 Mhz,

- **It is acceptable** to offer Data image recording option, Large memory capacity for archiving images if with 500 GB hard drive space

Additionally, in order not to favor any specific brand, the following characteristics **can not be added** to the technical specification.

Question 4

Linear probe VH13-5 Transducer Frequency Bandwidth for ECHO ultrasound; (to be changed from VH13-5 to VF13-5)• Quantity: 1 pcs;

- Maximum Display Depth: 60 mm;
- Frequency Bandwidth: 4.1 – 12.1 MHz; (to be changed to 4,5-12,1 MHz)
- Exam Types: minimum musculoskeletal;

Answer 4:

The title of the equipment has to be generic and not specific to favored some specific brand. In this view, it is important the offered Transducer to meet the minimum characteristics from the specification and the same to be compatible with the selected station unit (stationary colour Doppler Machine) that is subject of this procurement

It is **acceptable** to offer 4,5-12,1 MHz, because the minimum is 4,1 – 12,1MHz

Question 5

Portable color Doppler machine;

- Quantity: 1 pcs;
- minimum 15" high resolution monitor
- Dynamic range adjustable
- applications: minimum general and musculoskeletal
- minimum 2 probe connectors + Battery/adapter (**Proposal for change into min. 3 probe connectors**)
- Transducer included:
 - type of array convex, min 2,0-5,0 MHz
 - type of array linear, min 3,5-13 MHz
- Operating modes, minimum: B, M, PW Doppler, Color Doppler, Power Doppler

- Data image recording option, Large memory capacity for archiving images
- Trolley

Answer 5:

It is **not acceptable** to change the number of connectors “into minimum 3 probe connectors”.

Question 6

Stationary color Doppler machine;

- Quantity: 1 pcs;
- minimum 15" high resolution monitor (**Proposal for change into min. 21"**)
- Dynamic range adjustable
- applications: minimum general and muskuloskeletal
- minimum 2 probe connectors (**Proposal for change into min.3**)
- Transducer included:
 - type of array convex, min 2,0-5,0 MHz
 - type of array linear, min 3,5-13 MHz (**proposal to change into 3,7-13 MHz**)
- Operating modes, minimum: B, M, PW Doppler, Color Doppler, Power Doppler
- Data image recording option, Large memory capacity for archiving images
- Printer,
- Trolley

Answer 6:

The proposed modifications for changing into “min 21 high resolution monitor” and into “minimum 3 probe connectors **are not acceptable**.”

Type of array linear in the specification is Minimum 3,5 – 13 Mhz, that means **is acceptable** to offer type of array linear min 3,7-13 Mhz,

11.10.2021