

Procurement of Medical Devices for University Children Hospital “Tiršova”

IOP/11-2017/RD

Clarification no. 11

Issued on December 7, 2017

1. Item 4.4. High end Digital Remote-controlled Radiography/Fluoroscopy system with dynamic Flat Panel Detector will replace existing system. Purchaser has requested in line 52: Bidder has to deinstall existing RF system. Please confirm model and manufacturer of existing system and if it has to be dismantled in professional way, and packed accordingly so that it can be used on a different location, or is the equipment planned to be scrapped? Please also state if the Bidder has to move system to specific the location and is it inside University Children`s Hospital (UDK)?

Answer 1: The manufacturer of the existing system is Visaris, Belgrade. Model Digraf D. It is necessary that the apparatus be disassembled and packaged. It will be stored inside University Children`s Hospital.

2. System requested for LOT 2 Cardiology – Item 2.8. Digital angiography will replace existing system. Purchaser has requested in line 108: Supplier is obliged to dismantle and remove existing angiography system Axiom FC Siemens to the location specified by the user University Children`s Hospital (UDK). Please confirm if Axiom Artis FC has to be dismantle in professional way, and packed accordingly so that it can be used on a different location, or is the equipment planned to be scrapped? Please also state the location where the system should go, is it inside University Children`s Hospital (UDK)?

Answer 2: The existing digital angiography has to be packed accordingly. It will be stored inside University Children`s Hospital.

3. Requested for ID 4.2. Mobile radiography system under 24. Big detector weight max 3 kg. Is it detector weight 3.1.kg acceptable?

Answer 3 : Acceptable. A large detector with a mass of 3.1 kg is acceptable.

4. Requested for ID 4.2. Mobile radiography system under 44. Distance from focal spot to floor in vertical direction in range of min. 500-2100 mm. Is it range 550-2030 mm acceptable?

Answer 4: The customer stays on the request, but the device with distance from focal spot to floor in vertical direction in range of 550-2030 mm is also acceptable for the customer.

Item 4.2

5. In your document Technical Specifications za Lot4_Radiology, following is requested:

- 2 Power min. 40 kW
- 3 Voltage in range of min 40-133 kV
- 4 Maximum current value, min. 450 mA

We want to underline the following:

The above three requirements together are describing the possibility of a radiographic system to produce a high-quality image in order to provide patients with the best possible diagnosis and reduce the need for repetition of the images. The stronger the generator, the higher the mA value for the given value of kV, the shorter the exposure for the set value of mAs. In the case of a system capable of making 500 mA per 100 kV, if it is necessary to have 125 mAs to achieve image of high quality, this means that the exposure will last 0.25 seconds. In the case of the proposed 40 kW system, such a system will be able to produce a current of 300 mA per 100 kV, so that the 125 mAs exposure will take 0.42 seconds. The difference between the 0.25 seconds and 0.42 seconds significantly affects the quality of the image because the patients are moving and sometimes the organs that are moving (due to breathing or heart surgery) are sometimes recorded.

In order to buy a system with the best possible imaging performance and thus protect children as your patients, please accept our request.

Question: Do you accept change of requested characteristics so they stand as follows:

- 2 Power min. 50 kW
- 3 Voltage in range of min 40-150 kV
- 4 Maximum current value, min. 500 mA (at 100 kV)?

Answer 5: The customer stays on the request, but the device with the proposed characteristics is also acceptable for the customer.

6. In your document Technical Specifications for Lot4_Radiology, following is requested:

- 14 Manual and automatic collimation

As far as the mobile radiographic system is concerned, it means that all the exposures are "free", that is, outside the case (the so-called bucky). Therefore, the device has no reference where the detector is located and, therefore, automatic collimation makes no sense except to limit the competition. In Serbia, hundreds of mobile radiographic systems are in operation, of which dozens are digital. So far, no user of these systems has made a remark that they are not able to do a collimation, or to limit the field of view manually. Please accept our request and thus increase competition in the public procurement process.

Question 2: Do you accept change of requested characteristic so it stands as follows: "Manual or manual and automatic collimation"?

Answer 6: Not acceptable. The customer stays on the request.

7. In your document Technical Specifications for Lot4_Radiology, following is requested:

44 Distance from focal spot to floor in vertical direction, in range of min 500 – 2100 mm

Bearing in mind that all the exposures are "free", that is, outside the case (the so-called bucky), the required range is very rigid and limiting. Please accept our request and thus increase competition in the public procurement process.

Question : Do you accept change of requested characteristic so it stands as follows: "Distance from focal spot to floor in vertical direction, in range of min 550 – 2100 mm"?

Answer 7: The customer stays on the request, but the device with distance from focal spot to floor in vertical direction in range of 550-2100 mm is also acceptable for the customer.

8. In your document Technical Specifications za Lot4_Radiology, following is requested:

48 System weight max 400 kg

The majority of the weight of each mobile radiographic digital system is made up of batteries. Depending on the manufacturer, some systems allow longer, and some shorter paths that can be passed with one charge of a battery. Also, depending on the manufacturer, some systems allow greater number of exposures, and some smaller number with one battery charge. Certainly, in order to maximize the possible path and to maximize possible number of exposures it is necessary to have larger batteries. What's more, some manufacturers even have separate batteries for movement and exposure to maximize the independence of X-ray technicians.

Bearing in mind the fact that you have been looking for a motorized movement system, it's not clear why system weight is important. We have to point out that for operator it will be irrelevant if the system has 300, 400, 500, 600, 700 or 800 kg when the batteries are emptied. We guarantee that in this situation, the operator will want double the weight of the system only so that it can continue to move. So it's not clear why you chose just 400 kg, if you had in mind the state of the operator and its ability to move the system to which the batteries were empty, then you should limit it to 100 kg.

This all mean that the weight is limited or to restrict competition or because it is completely irrelevant whether the system can work longer or shorter and can make more or less exposures.

Of course, if competition matters, and if it's important for you to move the device as long as possible and to do as many exposures, you will accept our request.

Question 4: Do you accept change of requested characteristic so it stands as follows: "System weight max 600 kg"?

Answer 8: Not acceptable. The customer stays on the request.

9. In your document Technical Specifications za Lot4_Radiology, following is requested:

49 System width max 600 mm

We do not know that in any hospital in the Republic of Serbia there is any door 600 mm wide through which the mobile radiographic digital system should pass. If such a door existed, it would be a catastrophe for the hospital because through such a door patient beds, wheelchairs

and similar cannot pass. Not to mention that a large percentage of Serbia's population cannot pass through the door 600 mm wide.

It's not clear why you chose 600 mm, why not 550 or 625 mm?

In order to enable significantly higher competition, please accept our request.

Question: Do you accept change of requested characteristic so it stands as follows: "System width max 700 mm"?

Answer 9: Not acceptable. The customer stays on the request.

4.1 Ultrasound

10. Is it possible to change "21.5" flat panel liquid crystal display (LCD) with LED backlighting" with 22" OLED display under number 16. on the list?

Answer 10: The customer stays on the request, but the device with the proposed characteristics is also acceptable for the customer.

11. Could you define more precise the requirement under number 25. on the list?

Answer 11: The system should have MultiHertz imaging in each mode: 2D or THI, color and spectral Doppler frequencies.

12. Could you define more precise the requirement under number 35. on the list?

Answer 12: The system should have AutoColor flow state optimization in all three variants, whether set to high, medium or low flow.