**Procurement of equipment for Mother and Child Institute Dr Vukan Čupić, Belgrade**

**IOP/38-2019/UHI**

**Clarification No.8**

**Issued on 21th of October 2020**

QUESTION 1  
  
In your Bidding Documents, for lot 4, ID 4.1, under item 1.1 you defined the following: Gentry aperture at least 78 cm  
Considering that the said device is procured for a pediatric institution, as well as the fact that gentries of 78 cm or more are used exclusively in radiotherapy, as well as the fact that such a restrictive definition completely excludes the devices of the newer generation of reputable manufacturers, please redefine your request as follows and make the process competitive: Gentry aperture at least 78 cm (tolerance +/- 8%)  
In case you do not accept our request, please explain to us why the gentry size needs to be 78 cm for pediatric exams?

**Answer 1**: See the Clarification 5/answer 1

QUESTION 2  
  
Does your minimum requirement for maximum anode capacity refer to a nominal or effective (software-enhanced) value?

**Answer 2**: See the Clarification 5/answer 5

QUESTION 3  
  
In your Bidding Documents, for lot 4, ID 4.1, under item 7.6 you defined the following: Fastest image reconstruction time at least 55 images per second with all dose reduction options active  
Is it acceptable for the Contracting Authority to modify the requirement to: Fastest image reconstruction time at least 18 images per second with all dose reduction options active?

**Answer 3**: See the Claricication 5/answer 7

QUESTION 4  
  
Your Bidding Documents for lot 4 fail to define the number of detector rows, i.e. the number of acquisition slices that the offered model of computed tomography system needs to have. It is these parameters that also determine the class of device, and these values ​​define and distinguish computed tomography systems, and it is important how much information the user receives, especially given the pediatric studies and the sensitivity of diagnostics of our youngest patients. Please define your min requirements for detector rows as well as number of acquisition slices.

**Answer 4**: See the Clarification 5/answer 8

QUESTION 5  
  
In your Bidding Documents for lot 4, under item 5.1 you defined the following: Number of detector elements in one detector row excluding reference detector elements at least 800. With all other required elements this requirement is an eliminatory parameter especially for Philips systems. Our computed tomography systems have 672 detector elements in the detector array, but also more detector arrays compared to the same systems in the class. Also the composition of the detectors themselves as image receptors differ from manufacturer to manufacturer. The technology of our detectors enables better signal utilization and thus achieves the same or better image quality, even with fewer detector elements in the detector array. Please modify your requirement to:  
5.1. Number of detector elements in one detector row at least 672.  
  
**Answer 5**: See the Clarification 5/answer 9

QUESTION 6  
  
By your item 8.4 (lot 4) you defined the following tools of the specific manufacturer of advanced diagnostics software. In order to enable competition in the present procedure, please define the following as mandatory in addition to item 8.4:  
Offering of advanced diagnostic software that is "appropriate", i.e. offers the same or similar functionality, is acceptable. In case you do not accept the appropriate technologies and functionalities, please explain to us the reasons why you reject our request?

**Answer 6**: See the Clarification 5/answer 11

QUESTION 7  
  
In your Bidding Documents, for lot 4, ID 4.1, under item 7.7 you defined the following: Advance reconstruction algorithm for reduction of artifacts caused by metal presence in patient’s body (not Dual Energy)  
Advanced reconstruction algorithm for reduction of artifacts caused by metal implants has different commercial names with different manufacturers (O-MAR, SEMAR, iMAR, MAR etc.) For precision purposes, please define your requirement as follows:  
-7.7. Advance reconstruction algorithm for reduction of artifacts caused by metal presence in patient’s body ( O-MAR, SEMAR, iMAR, MAR or "appropriate")  
Also, kindly note that precise if Dual Energy is requested or not? Dual Energy is an advanced premium option primarily of cardiology computed tomography systems. With this acquisition technique, dual energy sequences that can assist with advanced diagnostic studies are obtained and reconstructed:  
-weighted average images (simulating single energy spectra)   
-virtual monoenergetic images (attenuation at a single photon energy rather than a spectrum)  
-material decomposition images (mapping or removing substances of known attenuation characteristics, such as iodine, calcium, or uric acid) -virtual non-contrast images (iodine removed)  
-iodine concentration (iodine maps)  
-calcium suppression (calcium removed)  
-uric acid suppression (uric acid removed)  
-electron density maps  
-effective atomic number (Zeff) maps  
  
We kindly ask you to specify whether or not a Dual Energy option needs to be offered in order to precise which class of device you require.

**Answer 7**: See the Clarification 5/answer 12

QUESTION 8  
  
In your Bidding Documents, for lot 4, ID 4.1, under item 8.4 you defined the following: 4D CT Brain Perfusion with display of blood flow, blood volume and Mean Transit Time (MTT), to define presence of acute cerebral infarcts. System has automatic correction of artefacts from patient movement. Software package makes calculation in all three orthogonal planes of volume on any slice. Ability to display 4D DSA contrast flow through blood vessels  
The requirement defined in this way is eliminatory and can only be met by one manufacturer (with all other defined items). Different manufacturers define their solutions differently even though they have the same purpose and functionality. All other manufacturers are not able to offer their solution for brain perfusion since the requirement contains the description of brain perfusion of only one manufacturer. In order to enable other world renowned manufacturers to participate in the subject procedure, please generalize your requirement so that it reads: -          Brain Perfusion with display of blood flow, blood volume and Mean Transit Time (MTT), to define presence of acute cerebral infarcts or "appropriate". 

**Answer 8**: See the Clarification 5/answer 13

QUESTION 9  
  
In your Bidding Documents, for lot 4, ID 4.1, under item 8.4 you defined the following: CT Perfusion 4D body. Package for calculation of perfusion of other organs in any axis. Special calculation method of perfusion of the organs that are fed with one blood vessel and different method for those organs that are fed with two blood vessels  
The requirement defined in this way is eliminatory and can only be met by one manufacturer. Different manufacturers define their solutions differently even though they have the same purpose and functionality. All other manufacturers are not able to offer their solution for body perfusion since the requirement contains the description of body perfusion of only one manufacturer. In order to enable other world renowned manufacturers to participate in the subject procedure, please generalize your requirement so that it reads:

-          CT Body Perfusion. Package for calculation of perfusion of other organs or "appropriate".

**Answer 9**: See the Clarification 5/answer 14

QUESTION 10  
  
In lot 4, segment 4.6, item 18, you state the following: "2 UNITS"  
Please clarify if by this you mean that for each of the two "WORKSTATION HARDWARE" referred to in item 8, 2 diagnostic monitors described in items 15, 16 and 17 are required?

**Answer 10**: See the Clarification 5/answer 17

QUESTION 11  
  
In lot 4, segment 4.6, item 25, you state the following: "The integration of all DICOM compliant modalities in the system (CT, MR, CR, US, Angio room, Mammography)"  
Please modify and define a more precise requirement to read as follows:  
"The support of all DICOM compliant modalities(CT, MR, CR, US, Angio, Mammography)"  
  
**Answer 11**: See the Clarification 5/answer 18

QUESTION 12  
  
In lot 4, segment 4.6, item 26, you state the following: "Acceptance and archiving unlimited number generated procedures (studies) per year in accordance with archive size"  
Please modify and define a more precise requirement to read as follows:  
"The system is scalable in terms of studies per year and in accordance with hardware size and software component choice."  
  
**Answer 12**: See the Clarification 5/answer 19

QUESTION 13  
  
In lot 4, segment 4.6, item 28, you state the following: "The choice of image compression for individual modalities (lossy or lossless)"  
  
Please modify and define a more precise requirement to read as follows  
"Support of image compression (lossy or lossless)"

**Answer 13**: See the Clarification 5/answer 20

QUESTION 14  
  
In lot 4, segment 4.6, item 32, you state the following: "Desk-top and Web client"  
Please modify and define a more precise requirement to read as follows  
"Desk-top client or Web client"

**Answer 14**: See the Clarification 5/answer 21

QUESTION 15  
  
Item 2 for lot 4 , the following is requested: Hardware channels: The system shall provide minimum 192 hardware channels  
  
Is a modification to this item acceptable to the Contracting Authority to read as follows: The system shall provide minimum 192 hardware channels or min. 4 million digitally process channels  
  
The technical characteristic defined in this way is intended to enable greater competitiveness in the public procurement procedure, since there are several equally important technical details related to the quality of the device among different manufacturers of ultrasound.

**Answer 15**: See the Clarification 5/answer 71

QUESTION 16  
  
Item 9 for lot 4 , the following is requested: Integrated Gel Warmer  
Is it acceptable to the Contracting Authority an external gel heater to be supplied with the device? The modification will not lead to a change the clinical functioning of the device.

**Answer 16**: See the Clarification 5/answer 74

QUESTION 17 (12)  
  
In lot 4, segment 4.6, item 26, you state the following: "Acceptance and archiving unlimited number generated procedures (studies) per year in accordance with archive size"  
  
Please modify and define a more precise requirement to read as follows:  
"The system is scalable in terms of studies per year and in accordance with hardware size and software component choice."

**Answer 17**: See the Clarification 5/answer 19

QUESTION 18  
  
In lot 4, segment 4.6, item 37, you state the following: "STANDARD TOOLS AVAILABLE ON ALL WORKPLACES – UNLIMITED USERS"  
Please modify and define a more precise requirement to read as follows  
"STANDARD TOOLS AVAILABLE ON ALL DIAGNOSTIC CLIENTS"

**Answer 18**: see the Clarification 5/answer 23

QUESTION 19  
  
In lot 4, segment 4.6, item 47, you state the following: "CINE-mode, Image rotation (90 °, 180 °, -90 °), Image flip (vertical, horizontal)"  
Please modify this requirement to read as follows:  
"CINE-mode, Image rotation (90 °, 180 °, -90 °) or (90 °, 180 ° = 2 x 90 °, -90 °), Image flip (vertical, horizontal)"

**Answer 19**: See updated technical spec  
  
QUESTION 20  
  
In lot 4, segment 4.6, item 54, you state the following: "(Ruler)"  
Please modify this requirement to read as follows:  
"(Ruler) or measurement tool"

**Answer 20**: See the Clarification 5/answer 25

QUESTION 21  
  
In lot 4, segment 4.6, item 65, you state the following: "Archiving on CD/DVD with Viewer program"  
Please clarify this requirement, that is, whether by this requirement you mean recording of a patient CD / DVD.  
If yes, please modify this requirement to read as follows: "Creating patient CD's/DVD's with Viewer program"

**Answer 21**: See the Clarification 5/answer 26

QUESTION 22  
  
In lot 4, segment 4.6, item 66, you state the following: "ADVANCED TOOLS AVAILABLE ON ALL WORKPLACES WITH CONCURRENT ACCESS"  
Please modify and define a more precise requirement to read as follows  
"TOOLS AVAILABLE ON ALL DIAGNOTIC CLIENTS WITH CONCURRENT ACCESS"

**Answer 22**: See the Clarification 5/answer 27

QUESTION 23  
  
In lot 4, segment 4.6, item 74, you state the following: "MIP, MinIP, AvgIP,"  
Please modify this requirement to read as follows:  
"MIP, MinIP"  
to allow more bidders to participate in this public procurement

**Answer 23**: See the Clarification 5/answer 28

QUESTION 24  
  
In lot 4, segment 4.6, item 87, you state the following: "Distance measurement in 3 projections"   
Please clarify exactly what you mean by this requirement.

**Answer 24**: See the Clarification 5/answer 30

QUESTION 25  
  
In lot 4, segment 4.6, item 98, you state the following: "Zero footprint viewer available on all workplaces (tablet, pc, mobile phone) – Unlimited users"   
Please modify and define a more precise requirement to read as follows  
"Zero footprint viewer available on all clinicians workplaces (tablet, pc, mobile phone)"

**Answer 25**: See the Clarification 5/answer 31

QUESTION 26  
  
In lot 4, segment 4.6, item 102, you state the following: "Zero footprint viewer (standard tools) for Unlimited users"   
Please modify and define a more precise requirement to read as follows  
"Zero footprint viewer (standard tools) on all clinicians workplaces "

**Answer 26**: See the Clarification 5/answer 32

QUESTION 27  
  
In lot 4, segment 4.6, item 109, you state the following: "Ruler"   
Please modify this requirement to read as follows:  
"(Ruler) or measurement tool"

**Answer 27**: See the Clarification 5/answer 33

QUESTION 28  
  
In lot 4, segment 4.6, item 112, you state the following: "Tools for manipulating CT studies in zero footprint viewer – Unlimited users"   
Please modify and define a more precise requirement to read as follows  
"Tools for manipulating CT studies in zero footprint viewer on all clinicians workplaces"

**Answer 28**: See the Clarification 5/answer 34

QUESTION 29  
  
In lot 4, segment 4.6, item 113, you state the following: "MPR, MPI, MINIP, AVGIP"   
Please modify this requirement to read as follows:  
"MPR, MPI, MINIP or AVGIP"  
to allow more bidders to participate in this public procurement

**Answer 29**: See the Clarification 5/answer 35

QUESTION 30  
  
In lot 4, segment 4.6, item 135, you state the following: "The application supports the automatic creation of basic medical documentation based on the law of the Republic of Serbia;"   
Please indicate all basic medical documents for which the application should support automatic creation so that we can make a proper and adequate bid

**Answer 30**: See the Clarification 5/answer 40

QUESTION 31  
  
In lot 4, segment 4.6, item 140, you state the following: "Records of consumable material and automatic connection with procedures"   
Please exclude this requirement from the Bidding Documents since this functionality is, as a rule, an integral part of HIS, i.e. BIS, - not RIS  
  
**Answer 31**: See the Clarification 5/answer 41

QUESTION 32  
  
In lot 4, segment 4.6, item 141, you state the following: "Integration with existing BIS (Hospital Information System) system (communication - exchange of HL7 messages);"   
Please exclude this requirement from the Bidding Documents given that much more information is required to create a proper and adequate bid than whether the existing BIS uses the HL7 protocol. The topics that matter are what degree of integration is preferred, what types of HL7 messages will be exchanged, e.g. ADT, ORM, ORU etc.

**Answer 32**: See the Clarification 5/answer 42

QUESTION 33  
  
In lot 4, segment 4.6, item 143, you state the following: "Management of additional medical data and questionnaires;"   
Please specify exactly what additional medical information should the offered RIS support

**Answer 33**: See the Clarification 5/answer 43

QUESTION 34  
  
In lot 4, segment 4.6, item 144, you state the following: "Functionality for entering laboratory findings of interest (urea, creatinine, etc );"   
Please exclude this requirement from the Bidding Documents since this functionality is, as a rule, an integral part of HIS, i.e. BIS, not RIS

**Answer 34**: See the Clarification 5/answer 44

QUESTION 35  
  
In lot 4, segment 4.6, item 149, you state the following: "Input of glomerular filtration rate or determination of eGFR based on the level of creatinine;"   
Please exclude this requirement from the Bidding Documents since this functionality is, as a rule, an integral part of HIS, i.e. BIS, not RIS

**Answer 35**: See the Clarification 5/answer 45

QUESTION 36  
  
LOT 1 CARDIOVASCULAR ULTRASOUND MACHINE 1.3.1  
  
Item 1.2 , the following is requested: LCD monitor size min 23" (+/-1”) Full HD on articulating arm  
  
Is a modification acceptable to the Contracting Authority to read as follows: LCD monitor size min 23" (+/- 2’’) Full HD on articulating arm  
  
A minimum 2'' modification of this item will not affect the clinical functioning of the device, nor will the size of the monitor itself be critical to the diagnostic image quality of the device. The minimum modification is intended to enable greater competitiveness in the public procurement procedure.

**Answer 36**: See the Clarification 5/answer 46

QUESTION 37  
  
Item 1.10 , the following is requested: Maximum display depth in B mode minimum 44 cm  
  
Is a modification acceptable to the Contracting Authority to read as follows: Maximum display depth in B mode minimum 44 (+/- 14 cm)  
  
A depth of 44 cm is available on abdominal transducers, which are not subject matter to the public procurement, but exclusively cardiac transducers (sector transducers) and thus this requirement is of an eliminatory character. If, however, the Contracting Authority believes that the sector transducer should also have a depth of 44 cm, please specify which transducer, out of the transducers to be purchased with the device, needs to fulfill this requirement.

**Answer 37**: See the Clarification 5/answer 47

Public Procurement Committee