PROCUREMENT OF EQUIPMENT FOR GENERAL HOSPITAL IN ARANDJELOVAC
(PROCUREMENT NO. IOP/60-2021/UHI)
28th March 2022

Clarification no. 2

Regarding the list of questions that the Employer, Public Investment Management Office Belgrade, No. 11 Nemanjina street, have received from the potential bidders, concerning the procurement procedure: **Procurement of equipment for General Hospital in Arandjelovac" IOP/60-2021/UHI,** we give you the following answers:

Question 1:

Following the detailed analysis of the technical requirements, we would like to propose changes on requested characteristics related to the **LOT 4**, Line Item No. 1 CT scanner:

1. ID 2: Max Generator power (nominal hardware): at least 72 kW
Each manufacturer has different phrasing for hardware generator power. In order to have terminology which will satisfy all up to date technologies, please change technical request to: Max Generator hardware power: at least 72 kW.

Answer:

Purchaser accepts explanation and it will amend technical specification.

2. ID 3: mA range: at least 20-600 mA or more, with 5mA increments
Purchaser did not describe in detail under which conditions should be reach requested mA range. It depends on kV range, duration of scanning, type of procedure, iterative reconstruction algorithm used, 3D mA modulation algorithm used, etc. In order to have terminology which will satisfy all up to date technologies, please change technical request to: mA range: at least 20-460 mA or more (real, not equivalent values), with 5mA increments.

Answer:

Purchaser accepts explanation and it will amend technical specification.

3. ID 8: X-ray tube cooling rate: min 1 MHU/min
This request is contradictive with request ID 7: Real heat capacity of the tube anode (not equivalent value), minimum 7 MHU or X-ray tube cooling rate: min 2.7 MHU/min. In order to have fully undetsable request to all bidders, please change request to: X-ray tube anode cooling rate: min 1 MHU/min

Answer:

Purchaser accepts explanation and it will amend technical specification.

4. ID 28: CT body/brain 4D perfusion software package
CT body perfusion is rare method used only in national university dedicated oncology centers with highest level of surgery care and CT guided interventional radiology. From the other hand, CT brain 4D perfusion is must in today stroke management, providing immediate brain 4D perfusion evaluation on the console while patient is still on the CT table. In order to have terminology which will satisfy all up to date requirements in general hospital environment, please change technical request to: CT Brain 4D perfusion study and evaluation software package.

Answer:

Purchaser accepts explanation and it will amend technical specification.

5. ID 33: Advanced Cardiology study package
CT cardiology is extremely demanding procedure used only in national university dedicated cardio centers with highest level of cardiac surgery care and well established interventional cardiology. From the other hand, each manufacturer has different phrasing for different levels of application packages. In order to have terminology which will satisfy all up to date technologies and requirements in general hospital environment, please change technical request to: Cardiology study package (at least ECG gated calcium scoring, ECG waves display on console and gantry).

Answer:

Purchaser accepts explanation and it will amend technical specification.

6. ID 36: Injector class IV synchronization interface

Most injector configurations and typical/routine operational workflow with that devices requires the technician on the CT console to operate on the injector Touchscreen control module located also on the CT console desk. Having the injector module synchronized with the CT console is not a key benefit for users compared to the quality of the product and operational efficiency that reputable manufactures can provide. Even more, the synchronization could be a limitation in term of compatibility between CT vendors and Injector vendors.

In order to ensure real competitiveness between reputable injector manufactures that could provide quality products, we're asking to: delete ID 36 Injector class IV synchronization interface.

Answer:

Purchaser accepts the explanation, so ID 36 - Injector class IV synchronization interface will be deleted in the technical specification.

8. ID 41: ECG Monitor synchronized with CT system for cardiac prospective gating

CT cardiology is extremely demanding procedure used only in national university dedicated cardio centers with highest level of cardiac surgery care and well established interventional cardiology. From the other hand, each manufacturer has different phrasing for different technologies. In order to have terminology which will satisfy all up to date technologies and requirements in general hospital environment, please change technical request to: ECG Monitor synchronized with CT system for cardiac gating.

Answer:

Purchaser accepts explanation and it will amend technical specification.

Question 2:

9. ID 52: Advanced non-invasive CT angiography (CTA) analysis tools with automatic bone removal, at least two licenses

ID 53: Software for assessment and automatic visualization and monitoring of pulmonary nodules and diagnosis -CT LNA (lung nodule analysis), at least two licenses

ID 54: Advanced tools for analysis of lung disease (e.g. chronic obstructive pulmonary disease), at least two licenses
For server-client architecture vendors has different approach for licenses. Some vendors have many frequent features already included under ID 51: 3D anatomy analysis and display tools (3D volume rendering, MIP, MPR, VRT), at least three licenses. Also, for ID 55, 56 and 57 purchaser did ask for one license as this is advanced applications which are rarely used in general hospital radiology environment where only one radiologist works on CT in the shift.

ID 52, 53 and 54 are also advanced applications and there is no need to have more than one license which can be used on any of these 3 clients when it is really needed. ID 47 guarantees that all available licenses would be dynamically distributed between clients. Number of licenses for different software modules should be determined based on the estimated and real clinical needs.
In order to have terminology which will satisfy all up to date technologies and requirements in general hospital environment, please change technical request to:

ID 52: Advanced non-invasive CT angiography (CTA) analysis tools with automatic bone removal, at least one license

ID 53: Software for assessment and automatic visualization and monitoring of pulmonary nodules and diagnosis -CT LNA (lung nodule analysis), at least one license

ID 54: Advanced tools for analysis of lung disease (e.g. chronic obstructive pulmonary disease), at least one license

Answer:

Purchaser accepts explanation and it will amend technical specification.

10. ID 55: CT body/brain 4D perfusion software package, at least one license

CT body perfusion is rare method used only in national university dedicated oncology centers with highest level of surgery care and CT guided interventional radiology. From the other hand, CT brain 4D perfusion is must in today stroke managment, providing immediate brain 4D perfusion evaluation on the console while patient is still on the CT table. In order to have terminology which will satisfy all up to date requirements in general hospital envioroment, please change technical request to: CT brain 4D perfusion software package, at least one license

Answer:

Purchaser accepts explanation and it will amend technical specification.

11. ID 57: Advanced Cardiology study package (calcium score, CT analysis of coronary blood vessels, functional cardiac analysis), at least one license.

As explained under question Nr. 5, in order to have terminology which will satisfy all up to date requirements in general hospital envioroment, please change technical request to: Cardiology study package (Scoring calcifications of coronary blood vessels, cardiac calcium plaque burden quantification and coronary artery disease risk assessment), at least one license.

Answer:

Purchaser accepts explanation and it will amend technical specification.

12. ID 20: Minimum layer (slice) thickness: max. 0.625mm

In term of detector technology, a sub millimeter physical thickness of detector elements is crucial to deliver high diagnostic confidence and volumetric resolution. All acquired projection and stored as raw data are subject of further reconstruction process to provide final clinical images. From that point of view, reconstruction algorithms are having significant role and these algorithms can differ between manufacturers. In some cases that could lead to limitations in reconstructed clinical images and providing confident diagnostic reading.
Can you please confirm that also minimum reconstructed slice thickness in all scanning modes (sequence/axial and spiral/helical) shall not exceed 0,625 mm?

Answer:

Purchaser confirm that minimum layer (slice) thickness: max. 0.625mm must be in fulfilled in all scanning modes (sequence/axial and spiral/helical).

Question 3:

13. Following the detailed analysis of the technical requirements, we have noticed that there are no hardware requirements related to the detector system. The number of physical detector elements is a key parameter, which is directly connected to acquisition data. Higher number of detector elements would provide significantly more data (signals) for reconstruction/image generation and would guarantee system quality and clinical performance. Knowing the importance of that parameter, we would suggest implementing the following requirement:

- Total number of physical detector elements, at least 47000

Answer:

There will no change or new technical features in technical specification regarding this request.

14. ID 60: Triple head CT injector, with 2 heads for contrast media and 1 head for saline solution. Possibility of synchronization with CT scanner and possession of air monitoring with sensors.

CT injector is just accessory (additional equipment) to the main subject CT scanner. Usual technology is dual head CT injector, one for contrast media and one for saline. Also synchronization with CT is not developed in practical work as we have described under question Nr. 5. Air monitoring must be supervised all the time by operator (radiographer). Requested specification is locked out for many CT injector vendors. Please accept following change: Dual head CT injector, with 1 head for contrast media and 1 head for saline solution. Possession of air monitoring with sensors or LED lights for easy visual detection of air bubble presence.

Answer:

Purchaser accepts explanation and it will amend technical specification.

Question 4:

Following the detailed analysis of the technical requirements, we would like to propose changes on requested characteristics related to the LOT 4, Line Item No. 2 Digital mammography system.

1. ID 30: SSD 1 TB
Every vendor validates and test certain hardware specification of the acquisition workstation to enable efficient way of using their own software. In order to have terminology which will satisfy all up to date technologies and requirements, please change technical request to:

ID 30: HDD min. 1 TB

Answer:

Purchaser accepts explanation and it will amend technical specification.

2. ID 43: Memory min 32 GB RAM

ID 44: SSD 2 TB

Every vendor validate and test certain hardware specification of the diagnostic workstation to enable efficient way of using their own software platform for diagnostic and reading. In order to have terminology which will satisfy all up to date technologies and requirements, please change technical request to:

ID 43: Memory min 16 GB RAM

ID 44: SSD min. 512GB and additional HDD min. 1 TB

Answer:

Purchaser accepts explanation and it will amend technical specification.

3. ID 51: Clinical education
Can you please confirm that you mean on mandatory application specialist education at end-user premises?

Answer:

Purchaser confirm that clinical education means application specialist education at end-user premisses.

Question 5:

Following the detailed analysis of the technical requirements, we would like to propose changes on requested characteristics related to the **LOT 4,** Line Item No. 4 PACS - PICTURE ARCHIVING AND COMMUNICATION SYSTEM

1. ID 254: Computer for diagnostic workstation -2 pcs, with the following performance: CPU: I3 9 / 10gen 4cores or equivalent, MB: 1GB Lan, RAM: 16GB DDR4, HDD: SSD 120GB, DVD: DVDRW, VGA: Discrete 2-4GB GDDR5, connection with 3 monitors: 1 VGA HD resolution and 2 diagnostic 5MP monitors with DVI-D and port input display, Mouse, keyboard, CASE: MIDI 500W, MON: 1x21"", OS: WIN 10 64bit

Purchaser requested in Line item Nr. 2 Digital mammography system - ID 39 dedicated diagnostic workstation for advance mammography reading (upgradable to support Tomosynthesis, contrast enhanced mammography, etc.) which will be connected to hospital PACS.
Hardware requested in ID 254 is related to mammography, but PACS will not provide mammography reading and workflow like it is already requested in Line item Nr. 2. Also, in ID 265 purchaser requested 2MP diagnostic monitors. Please accept following change:

ID 254: Computer for diagnostic workstation -2 pcs, with the following performance: CPU: I3 9 / 10gen 4cores or equivalent, MB: 1GB Lan, RAM: 16GB DDR4, HDD: SSD 120GB, DVD: DVDRW, VGA: Discrete 2-4GB GDDR5, possibility of connection with 3 monitors: 1 VGA HD resolution and 2 diagnostic 2MP monitors with DVI-D and port input display, Mouse, keyboard, CASE: MIDI 500W, MON: 1x21"", OS: WIN 10 64bit

Answer:

Purchaser accepts explanation and it will amend technical specification.

2. ID 265: 2MP DIAGNOSTIC MEDICAL MONITOR- 6 PCS

Purchaser requested in ID 254 two PACS workstations with 2 diagnostic monitors per each, so please change this request accordingly to: 2MP DIAGNOSTIC MEDICAL MONITOR- 4 PCS

Answer:

Purchaser accepts explanation and it will amend technical specification.

3. ID 80-89
ID 2: DIAGNOSTIC CLIENT FOR IMAGE REVIEW (MIN. 1 CONCURENT USER)

Purchaser requested in Line item Nr. 1 CT scanner with 3 diagnostic workstations with advanced reading solutions.
Requested PACS features under ID 80-89 will never be used for reading beside existing CT workstations, as their functionality and synchronization with CT workflow will never be on same level. provide such level of advance CT reading. Also, request under ID 2 is in collision with request ID 254 where 2 PACS clients are requested. Please accept following changes:

Delete requests ID 80-89
ID 2: DIAGNOSTIC CLIENT FOR IMAGE REVIEW (MIN. 2 CONCURENT USERS)

Answer:

Purchaser accepts explanation related to Line item no. 4 – PACS- PICTURE ARCHIVING AND COMMUNICATION SYSTEM, ID 2: DIAGNOSTIC CLIENT FOR IMAGE REVIEW (MIN. 2 CONCURENT USERS) and it will amend the technical specification.

Purchaser accepts the explanation, so the requested PACS features under Line item no. 4 - PACS- PICTURE ARCHIVING AND COMMUNICATION SYSTEM, ID 80-89 will be deleted in the technical specification.

Question 6:

Following the detailed analysis of the technical requirements, we would like to propose changes on requested characteristics related to the LOT 4, Line Item No. 5 Digital X-ray machine (ceiling, 2 flat panels)

1. ID 34: Max height of the detector center from floor is 30 cm

Main purpose for this request is to determine maximum height of the detector center from floor in lowest position of vertical Bucky stand. It is very important as ROI has to be in the center of the detector and in case of children or lower legs examination in standing position it is not needed to put stairways in order to make proper positioning of the patient. Please exchange wording of this request to be as follows:

ID 34: Minimum height of the detector center from floor is max. 30 cm

Answer:

Purchaser accepts explanation and it will amend technical specification.

Question 7:

Lot 4:

1. The purchaser requests Manufacturer`s Authorisation for Sales and Aftersales, for Bidder and Service Company and that service company shall employ minimum number of qualified persons – certified by the manufacturer of equipment for servicing - 1(one) per item model offered. Please confirm that these documents should be issued only by manufacturer of the main systems (equipment) from the document "Technical specification with price schedule" and not by the manufacturers of additional equipment listed in the detailed technical specification?

Answer:

Manufacturer`s Authorisation for Sales and Aftersales, for Bidder and Service Company and service certificate for item model offered should be submitted only from manufacturer of the main system (equipment).

2. The purchaser requests delivery period of maximum 90 days from the date of the advance payment. Due to Covid-19 restrictions, worldwide lackage of semiconductors and unpredictable situation with gas and energy supply after crisis in Ukraine, delivery times becomes longer and longer with many vendors and production facilities. Please change following request to: Delivery period of maximum 180 days from the date of the advance payment.

Answer:

Purchaser accepts explanation and it will amend delivery period to maximum 180 days.

3. We kindly ask the Purchaser to confirm that Manufacturer's Authorizations for Sales and Aftersales, for Bidder and Service Company as well as the Manufacturer's Technical Statement requested in tender documents can also be signed by the authorized EU or Regional representative of the Manufacturer?

Answer:

Purchaser accepts explanation and confirm that Manufacturer's Authorizations for Sales and Aftersales, for Bidder and Service Company as well as the Manufacturer's Technical Statement requested in tender documents can be signed by the authorized EU or Regional representative of the Manufacturer.

Question 8:

Lot 3:

1. The purchaser requests Manufacturer`s Authorization for Sales and Aftersales, for Bidder and Service Company and that service company shall employ minimum number of qualified persons – certified by the manufacturer of equipment for servicing - 1(one) per item model offered. Please confirm that these documents should be issued only by manufacturer of the main systems (equipment) from the document "Technical specification with price schedule" and not by the manufacturers of additional equipment listed in the detailed technical specification?

Answer:

Manufacturer`s Authorisation for Sales and Aftersales, for Bidder and Service Company and service certificate for item model offered should be submitted only from manufacturer of the main system (equipment).

2. The purchaser requests delivery period of maximum 90 days from the date of the advance payment. Due to Covid-19 restrictions, worldwide lackage of semiconductors and unpredictable situation with gas and energy supply after crisis in Ukraine, delivery times becomes longer and longer with many vendors and production facilities. Please change following request to: Delivery period of maximum 180 days from the date of the advance payment.

Answer:

Purchaser accepts explanation and revised request for delivery period to maximum 180 days.

3. We kindly ask the Purchaser to confirm that Manufacturer's Authorizations for Sales and Aftersales, for Bidder and Service Company as well as the Manufacturer's Technical Statement requested in tender documents can also be signed by the authorized EU or Regional representative of the Manufacturer?

Answer:

Purchaser accepts explanation and confirm that Manufacturer's Authorizations for Sales and Aftersales, for Bidder and Service Company as well as the Manufacturer's Technical Statement requested in tender documents can be signed by the authorized EU or Regional representative of the Manufacturer.

Question 9:

Please confirm that the standards ISO 20000-1 and ISO 27001 pertain to Lot 5: IT Equipment and that the bidders tendering goods for the other Lots do not need hold them.

Answer:

Yes, we confirm. ISO standards ISO 20000-1 and ISO 27001 are requested only for Lot 5: IT Equipment.

Public Procurement Committee

Marija Stanisavljević