

ADDENDUM to the TD: “the supply of 32 SLICES CT SCANNER WITH RELATED EQUIPMENTS _RWA19008-10007”

Dear Sir, Madam,

Taking into consideration de concerns and requests for clarifications from some of the interested bidders as regards to some of the technical specifications for the Supply of “**32 SLICES CT SCANNER WITH RELATED EQUIPMENTS _RWA19008-10007**”

Please find below, the clarifications to the received requests as well as some modifications on the terms of the TD

No	QUESTIONS	ANSWERS/CLARIFICATIONS
1	<p>Page 35: Tube cooling rate (kHU/min) 800 kHU/min or more</p> <p>Request to adjust: Tube cooling rate 800 kHU/min or more -> 500 kHU/min or more</p> <p>Rationale: our x-ray tubes are designed in such way that they have a very high heat storage capacity, making the need of a high cooling rate redundant.</p>	<p>The requested tube cooling rate is 800KHU/ min or more</p> <p>The bidder is free to provide his proposal and the evaluation committee will be the one to analyze and take a decision.</p>
2	<p>Page 35: Slice thickness 0.6–10 mm</p> <p>Can you please confirm this refers to the reconstructed slice thickness?</p>	<p>Yes, the required slice thickness requested is between 0.6mm to 10mm</p>
3	<p>Page 35: Min slice thickness in spiral mode acquisition should be less than 0.6 mm</p> <p>Request to adjust: Min slice thickness in spiral mode acquisition should be less than 0.6 mm -> less than 0.8 mm</p> <p>Rationale: the min. slice thickness in acquisition mode is -thanks our current state-of-the-art detector technology- less of an importance than it was before. Today we achieve high image resolution levels (reflected in our spatial resolution values) using wider detector elements, which is beneficial for the patient dose on the one hand and acquisition speed on the other</p>	<p>The Min slice thickness in spiral mode acquisition should be less than 0.6 mm,</p> <p>BUT again, it belongs to the evaluation committee to analyse different proposals received and take the final decision</p>
4	<p>We kindly ask to confirm if a 50kW generator could be supported by the local electrical network;</p>	<p>The beneficiary (CHUK) has a 600kva power backup generator and have also two step-down transformers 1000kva each of capacity</p>

5	<p>Ref. Generalities:</p> <ul style="list-style-type: none"> • “including mobile workflow and automation features for more flexibility & simplification of processes”, the specifications seem referred to a remote control as a “tablet” control, that currently only Siemens has. We kindly ask to delete the specification or to delete the word “mobile”. • “FDA and CE approval”, we kindly ask to confirm that CE certificate only is acceptable and to change the requirement into “FDA and/or CE approval”. 	<p>This is a tendering process, and we are not targeting any of the brands!</p> <ul style="list-style-type: none"> - A remote control is required as a part control room especially during the exposure monitoring. - FDA or CE or ISO approval (Certification) must be provided.
6	<p>Ref. Detector specifications, “slice thickness 0.6-10 mm”, the size 0.6 is restricted to SIEMENS CT. In order to open the requirement to more solutions without affecting the quality of the product, we kindly ask to change the specification to “slice thickness 0.625-10mm at least</p>	<p>Our technical requirements are as follow:</p> <ul style="list-style-type: none"> ➢ Load capacity must be of at least (Min) 220kg ➢ Max table speed must be 185mm/s <p>If there is any deviation in the bidders’ proposal, it will be analyzed and decided on, during the evaluation process</p>
7	<p>Ref. Patient Table specifications:</p> <ul style="list-style-type: none"> • “Load capacity at least 220kg”, in order to order to open the requirement to more solutions without affecting the quality of the product, we kindly ask to accept “Load capacity at least 220kg +/- 10%” • “Max table feed speed up to 185 mm/s or more”, in order to order to open the requirement to more solutions without affecting the quality of the product, we kindly ask to accept “Max table feed speed up to 185 mm/s +/-20%”, since the speed of the table represents a mechanical feature only and a speed up to 150 mm/s is normally accepted 	<p>Our technical requirements are as follow:</p> <ul style="list-style-type: none"> • Load capacity must be of atleast (Min) 220kg • Max table speed must be 185mm/s <p>If there is any deviation in the bidders’ proposal, it will be analyzed and decided on, during the evaluation process</p>
8	<p>Ref. Gantry specifications, “integrated laser camera”.</p> <p>In order to open the competition to different solutions, we kindly ask to accept also “separated laser camera connected to the system</p>	<p>This requirement is modified as follow:</p> <ul style="list-style-type: none"> - “Should have positioning laser lights and <u>integrated laser camera</u> or <p><u>Any position of the camera not far from the gantry to observe the patient is acceptable what is necessary is the patient monitoring, and the camera images should be displayed at the side of the operator”</u></p>
9	<p>Ref. Topogram and Spiral acquisition, “Maximum spiral scan time 250s or more”, please note that only some brands reaches 250s and the standard is 100s. in order to open the requirement to other solutions, we kindly ask to accept “Maximum scan time 100s”.</p>	<p>The specifications provided are a guidance the supplier/ manufacturer will follow to produce/choose the CT machine to be supplied.</p> <p>Any manufacturer can produce the CT machine according to the provided range of specifications; <u>The maximum</u> spiral scan time must be 250s.</p>

	<p>Ref. Modular Uninterrupted Power Supply for the CT system:</p> <ul style="list-style-type: none"> • “Should be modular”, please kindly confirm if a stand-alone UPS with related battery pack could be accepted, since it is technically and economically a better solution. • “Related electrical panel”, please kindly confirm if the “related electrical panel” is the internal control panel of the UPS, or “Related electrical panel” stands for the room electrical panel 	<p>Please note that these are two different requirements: The Modular Uninterrupted Power Supply for the CT system</p> <ul style="list-style-type: none"> • Should be modular and • Related electrical panel → should be separate (stands for the room electrical panel)
	<p>We would like as much as possible to have the specifications of the value coefficients and this will give a chance for other manufacturers to offer.</p> <ul style="list-style-type: none"> • Indeed, we kindly request to review the tender specifications which currently lead to a very specific Manufacturer and model which would be discriminatory and oriented. 	<p>The specifications provided have the range (minimum value and maximum value) kindly provide your proposal and the evaluation committee will only refer to the range and not to a specific brand</p>
	<p>You have requested that the CT Should have Maximum tube current range 400mA. Our system of 32 slices utilizes "short geometry design" which improves geometry efficiency compared to conventional long geometry system, because the inverse-square law dictates that longer source to detector distances requires more mA or you lose image quality. With Dose reduction proven technology, including ASiR, ODM, VISR, and Opti Dose; all work to ensure that a maximum mA of 350 is more than sufficient whatever the patient BMI. With the above clarification, could you please confirm us if mA of 350 is acceptable to you?</p>	<p>This requirement is revised as follow: The requested tube current range is maximum 400mA or more.</p> <p>This means that even proposals below this maximum are acceptable</p>
	<p>You have requested for Power output 30kW or more, delivering 400 mA.</p> <p>For your kindly information a generator delivering 400 mA is a generator of 48kW. As requested above we would like to know if we provide a system with generator power of 42KW and a maximum mA of 350 can be accepted because Utilizing ASiR, images obtained can have equivalent IQ to an acquisition with 1.67 times the mA and kW, which means 70kW, 583mA. Kindly clarify if equivalent power will be acceptable to you. Using less mA and without compromise in image quality is beneficial to the patient and the CT operator, as this means less exposure, and that’s why we feel that an mA of 350 (583Ma equivalent with ASiR) will be more advantageous to the hospital.</p>	<p>The requested power output generator should be up to 30kw or more not down, Automated tube current adjustment for optimum depending on patient size and anatomy.</p>
	<p>You have requested that Anode heat storage capacity 5.0 MHU or More. Kindly clarify if this specification is nominal or equivalent specification? Our proposal has Anode heat storage capacity 3.5 MHU and 6.3MHU equivalent with ASiR. Use of ASiR allows scanning at a lower mA and less tube heat output, resulting in the ability for longer duration helical scans similar to the capability of a 6.3MHU tube. This is an advantage in that we are able to attain images of higher quality without</p>	<p>The Anode heat storage capacity requested in the specification is 5.0MHU or more.</p> <p>It means that the 5.0MHU is the minimum range.</p>

	<p>having to radiate the patients excessively. This MHU we are proposing is also advantageous as it leads efficient power consumption by the CT machine</p>	
	<p>Should have a filter that allows to lower the dose whilst maintaining image quality- All the CT units are currently using bowtie filter technology (specific to head and specific to body),</p> <p>however, we recommend you request for each vendor to supply the latest row data based Iterative reconstruction as this will enable through a reduction in image noise and improvement in image quality (low contrast detectability and contrast resolution) a substantial dose reduction to patient</p>	<p>Thank you for your recommendation, However, each bidder is free to add it after fulfilling all required specifications by the client in the tender document.</p>
	<p>We request that the questions related to Scout view time be removed as they are lock out specifications (Topogram scan Time : 1.4 – 7.5 s) toward a specific vendor.</p>	<p>Topogram scan time requested is in the range from 1.4s to 7.5s; the bidder is allowed to propose one topogram scan time which is in the range.</p> <p>Here we have many topogram scan time means that the range given is not specific.</p>
	<p>You have requested for Max table feed speed up to 185 mm/s or more. This specification is specific to a unique vendor and does not represent the speed of the CT in spiral acquisition, this specification is only valid for the topogram. CT Speed in helical acquisition is dictated by detector width at isocenter, Rotation time and pitch available. None of the CT available in the market within 32 Slice CT range would be able to provide a scan speed of 185 mm/s in helical mode. Would a table speed of 100mm/sec be acceptable to you?</p>	<p>This requirement is modified as follow</p> <p>The table feed speed should be maximum 185mm/s or less</p>
	<p>Maximum spiral scan time 250s or more. Can you clarify if this is expected to be single helical scan specification or multi helical specification? For information, most of the CT manufacturers are not providing more than 100 seconds single helical acquisition, as the largest anatomy which is the runoff angiography (from renal arteries to toes) required maximum 35 seconds' acquisition. A CT with a 20 mm detector width at isocenter, can cover 1600 mm of anatomy in 37 seconds. Would you consider a maximum continuous spiral scan time of 100s to be acceptable to you?</p>	<p>The Spiral scan time requested is modified as follow:</p> <p>Maximum spiral scan time 250s or more</p> <p>The spiral scan below 250s is in the acceptable range</p>
	<p>Kindly reformulate the Operator console specs to neutral specifications.</p>	<p>The specifications of the operator console are universal, some are in the range others are common operations necessary to a diagnosis machine. The specifications given are open to everyone.</p>
	<p>Operating system: Windows 10. Our CT systems are based on Linux operating system which is more stable and virus free. Is this acceptable to you? To have an open tender, it could be better to request every bidder to provide the operating system and explain the advantages</p>	<p>The requested operating system is Window 10, which is an operating system that is friendly used for teaching purposes.</p> <p>However, each bidder is free to provide his proposal and the evaluation committee will be the one to analyze and take a final decision</p>

10	Extension of the deadline for the submission of bids	<p>Considering the provided clarifications which might lead to further preparation and organization on the side of the interested bidders, the procuring Entity decides to extend the deadline for submission of bids for 2 additional weeks.</p> <p>Hence, the subpoint 3.4.5 How to submit tenders is modified and completed as follow (the rest of the content remain valid): “The signed and dated original and “copies” will be sent in a sealed enveloped mentioning: “BID”, the tender documents number (RWA19008-10007) and the Navision code (1900811)– Opening of tenders on 8th December 2021.</p> <p>The bid must be received before 8th December 2021 at 10:00 AM Kigali time. It must be sent to:”</p> <p>The Public opening of tenders (point 3.4.7) is therefore postponed for the 8th December 2021 at 10:30 Kigali time</p>
	Please, kindly provide the drawings of the room at the email;	Drawings are Annexed to this addendum

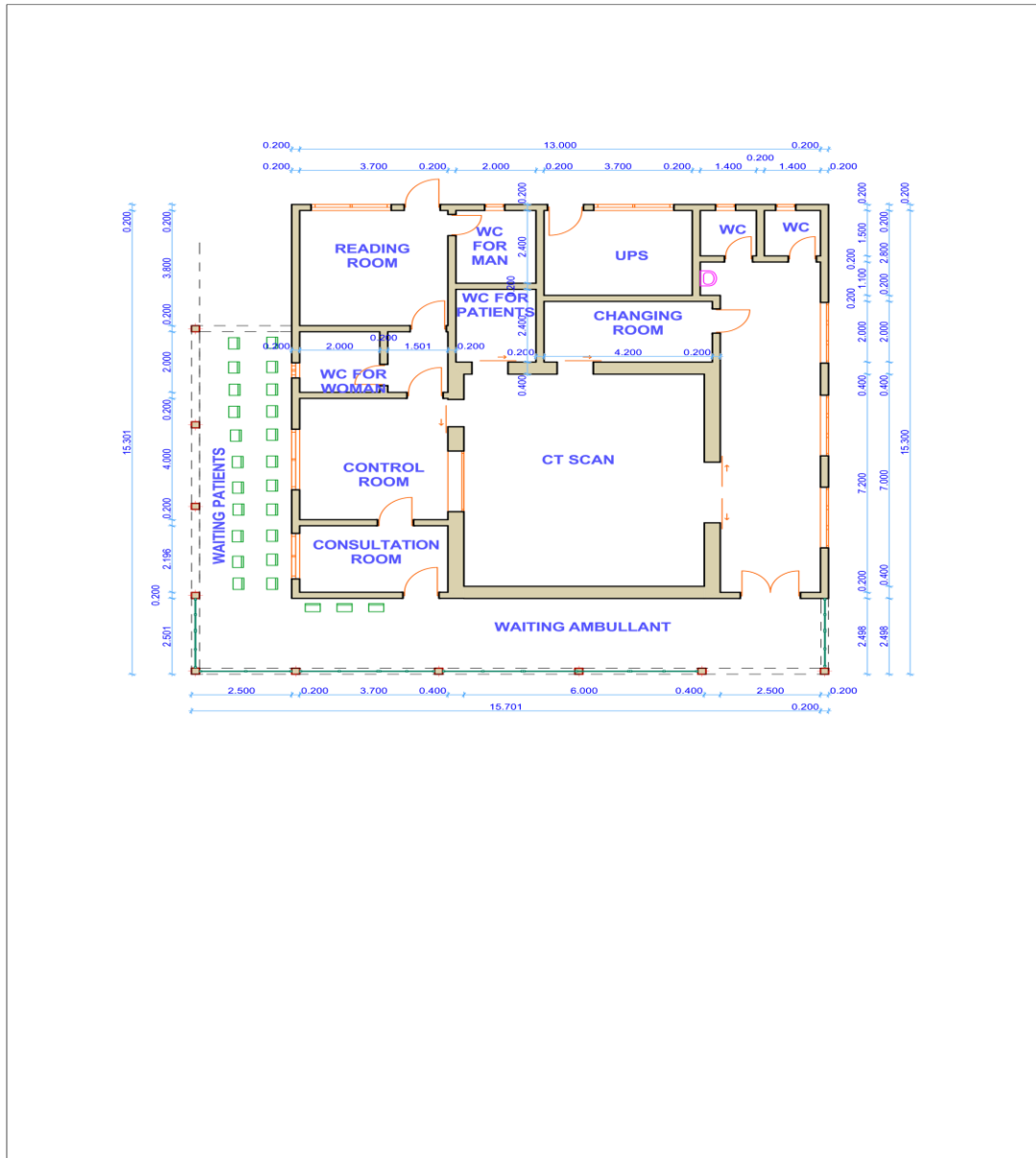
Annex-1: OUTCOME OF THE SITE VISIT and REVISED DESIGN.

After the site tour, participants discussed and agreed to the following:

Discussed issues	Action / Recommendations or Proposed Solutions
<p style="text-align: center;"><u>Location of the CT room on the design</u></p> <p>The team discussed about the relocation of CT room and change the design for the purpose of radiation protection to the patient.</p> <p><u>Site tour</u></p> <p>After the site tour these are the findings works done are:</p> <ul style="list-style-type: none"> • Fencing is done. • Foundation preparation is ongoing 	<p>Based on the ground conditions the CT room position cannot be changed we decided to extend the waiting area to avail a free space for ambulance trolleys.</p> <p>Reading room should have the exit door to avoid the saturated flow of the staff; WC for staff should be separately for men and women and the lead sliding doors will be added as</p>

it is mentioned on the design below which can increase the amount planned.

REVISED DESIGN



We thank you for your valuable collaboration,

Kind regards ;

Signature: 
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