



Supplemental/Bid Bulletin No. 1
August 8, 2019

PUBLIC BIDDING No. 19-214-10

**Supply, Delivery, Installation, Testing and Commissioning of
 Computed Tomography (CT) Scanner (16 Slice) with Infrastructure
 for Vicente Soto Memorial Medical Center (VSMCC)**

Issued pursuant to Sec. 22.5 of the IRR of R.A. 9184 to clarify and/or amend certain provisions in the Bidding Documents issued for this project, considering the issues raised and clarifications made by prospective bidder/s during the Pre-Bid Conference held on **August 01, 2019**.

A. AMENDMENTS/INCLUSIONS

REFERENCE	BASIS FOR AMENDMENT/INCLUSIONS
Section III: Bid Data Sheet; BDS Clause 29.2	
Page 42 7. Proof (such as sales invoice, purchase request, etc.) that the brand has been sold to other health facility/hospital <u>local and international market</u> for the last five years.	
Page 43 9. Certification from the manufacturer: a. That the bidder/ <u>principal</u> has the engineer/s trained and capable for corrective and preventive maintenance for the bid model. Service engineer/s should be presently employed by the bidder/ <u>principal</u> or authorized by the manufacturer.	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>
Page 43 10. Certification from the bidder: a. That the brand or model of the equipment has been in local market and international market for at least last five (5) years.	
Section VII: Technical Specification page 70-78	
A. ACQUISITION MACHINE (Main Machine)	
1. Detector System	
xxx g. Slice thickness: 16 x 0.6 <u>0.7mm</u> or smaller, and capable of reconstruction at 0.6 mm slice thickness.	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>
2. Gantry	
xxx b. Physical or <u>digital</u> tilt (digital) -30 to +30 degrees for both sequential and helical scan or virtual tilt with dose reduction feature	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>

xxx d. Faster <u>Fastest</u> rotation time: 0.8 sec. or faster	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>
e. Directional controls on both sides of the gantry <u>or controlled remotely</u>	
3. X-Ray Tube Assembly	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>
a. Tube voltage: should have at least 3KV settings between 80 <u>70</u> kV to 130 <u>140</u> kV	
c. Maximum Tube current: at least 400 <u>350</u> mA	
d. Continuous scan time: at least 300 <u>100</u> seconds	
e. Focal spot sizes: small <u>and large</u> focal spots; at least 0.8 x 0.4 mm, large focal spot; at least 0.8 x 0.7 mm should be in accordance with the manufacturer's standard specifications.	
4. Couch	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>
xxx d. Couch controls: on both sides of the gantry <u>and or</u> foot pedal, and remote from the console <u>or controlled remotely.</u>	
xxx g. Horizontal travel: at least 4450 <u>1200</u> mm	
h. Vertical travel: at least of 450 <u>350</u> mm <u>or Fixed Table</u> Vertical travel: at least 350mm or Fixed Table	
B. CONTROL UNIT – one (1) two (2) sets of desktop computer (acquisition console and post processing desktop), each composed of:	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>
1. CPU: of at least 2 processors with minimum of 4 cores and 4 threads, minimum of 2.6 GHz <u>or Manufacturer's Standard</u>	
2. RAM: at least 16 GB <u>or Manufacturer's Standard</u>	
3. Monitor: at least 21" LED flat screen, 1920 x 1080 resolution <u>or Manufacturer's Standard</u>	
4. Video Card: appropriately match to the Monitor <u>or Manufacturer's Standard</u>	
5. Hard drive/storage: at least 1 TB <u>or Manufacturer's Standard</u>	
6. DVD/CD writer, 3.0 & 2.0 USB ports <u>or Manufacturer's Standard</u>	
7. Keyboard and mouse <u>or Manufacturer's Standard</u>	
8. Licensed operating system: Windows 8 or higher <u>or Manufacturer's Standard</u>	
C. READING WORKSTATION- one (1) two (2) sets, each composed of:	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>
1. CPU: minimum of 4 cores and 24 threads, minimum of 2.7 GHz clock frequency <u>or Manufacturer's Standard</u>	
2. RAM: at least 16 GB <u>or Manufacturer's Standard</u>	
3. Storage: at least 3 TB <u>or Manufacturer's Standard</u>	
4. Video card: appropriately match to the Monitor <u>or Manufacturer's Standard</u>	
5. CD and DVD+/-RW burner, with DICOM capability <u>or Manufacturer's Standard</u>	
6. Monitor: at least 24" medical grade TFT-LED color, 2MP minimum resolution <u>or Manufacturer's Standard</u>	
7. Licensed operating system: Windows 8 or higher <u>or Manufacturer's Standard</u>	

8. Keyboard and mouse or <u>Manufacturer's Standard</u>	
D. CLINICAL APPLICATIONS AND SOFTWARE CAPABILITIES	
1. Clinical Applications	
xxx c. Lung disease evaluation or <u>equivalent</u>	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>
xxx g. RECIST/PERCIST/WHO measurement or <u>equivalent</u>	
xxx E. VENDOR ACCESSORIES	
1. Personal Protective Equipment(PPE) with at least 0.25 mm lead thickness consisting of the following	
a. 3 <u>2</u> pcs. Lead rubber gown, wrap around type b. 3 <u>2</u> pcs. Thyroid shield (wrap around type) c. 2 <u>1</u> sets of Gonadal shields (consist of male adult, female adult, and infant, at least 0.5 mm lead equivalence) d. 2 <u>1</u> pairs of lead gloves e. 3 <u>1</u> pcs of lead goggles	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>
xxx F. THIRD PARTY ITEMS	
1. Three (3) <u>Two (2)</u> brand new air-conditioning units: split-type, (2 units, 3TR) and console room (1 unit, 2HP), 220V, 60Hz, 1 unit, 5TR and 1 unit, 1HP, for CT scan room and control console room, respectively.	<i>To amend the Requirement as per End-user's reply dated August 08, 2019</i>
xxx 3. Four (4) <u>Two (2)</u> units of appropriate UPS with AVR that has backup time of at least 20 minutes, two (2) for the control unit desktop and two (2) for the workstation <u>one (1) for the control console desktop and one (1) for the workstation</u> .	
4. One (1) UPS with a backup time of at least 20 minutes <u>unit-Constant Voltage Transformer (CVT) or Transient Voltage Surge Suppressor (TVSS)</u> , medical grade, that is appropriate for <u>to</u> the CT Scanner supplied and its peripherals.	
5. One (1) set of Circuit Breaker System appropriate for the CT scanner unit.	
6. One (1) dual single barrel power injector, inclusive of 300 pcs. with 500 pcs. syringe sets compatible with <u>to</u> the injector.	
7. Two (2) <u>One (1)</u> units dehumidifier 220 VAC, 60Hz, appropriate to the CT scan room.	
xxx 11. One (1) wheeled stretcher 12. One (1) DVD publisher	
13. One (1) DICOM <u>paper printer for A3 size paper (to include 3 boxes/300 sheets of paper films) or Dry Laser Printer that supports 14"x17" film size (to include 3 boxes/300 sheets of films).</u> i. Dry laser or thermal technology ii. Supports five (5) film sizes of (8"x10", 10"x12", 10"x14", 14"x14", and 14"x17"); has three(3) film trays, compatible with the existing printing system of the facility	
14. Remote service diagnostic capabilities with Wi-Fi/ <u>Wired</u> enable Gigabit Broadband internet connection. (if available at site, minimum of 16Mbps)	
xxx G. OTHER REQUIREMENT	

<p>xxx</p> <p>2. Warranty period/coverage of warranty: Three (3) <u>Two (2)</u> years for parts (inclusive of x-ray tube) and five (5) years for services. Warranty period shall commence after the conduct of 1st CT Scan procedure to a patient.</p>	<p><i>To amend the Requirement as per End-user's reply dated August 08, 2019</i></p>
<p>3. Undertaking that during the warranty period, the supplier shall conduct corrective maintenance within three (3) <u>two (2)</u> days upon proper notification from the end-user.</p>	
<p>xxx</p> <p>5. Address, and contact numbers, company websites, emails or alike of the service centers of the supplier in Cebu City engineer/s or technical representative/s of bidder/principal should be made available. The supplier Service Engineer should be based in Cebu.</p>	
<p>H. CT SCANNER FACILITY REQUIREMENTS:</p>	
<p>xxx</p> <p>5. The base of the x ray room window/s shall be located at a height of at least 2 meters from the floor of the adjacent area or room.</p>	<p><i>To omit the Requirement as per End-user's reply dated August 08, 2019</i></p>
<p>xxx</p> <p>7. The CT scan x ray facility shall have a waiting area, dressing area, film storage area and film reading room. The minimum size of the film storage area is 3m x 3.5m.</p>	
<p>8. A toilet for patient with a door opening directly to the x ray room shall be provided inside the CT scan examination room where examinations using contrast media are performed.</p>	

B. DURING PRE-BID CONFERENCE

DETAIL		CLARIFICATION
<p>Section III: Bid Data Sheet; BDS Clause 29.2 page 42-44</p>		
<p>1</p>	<p>xxx</p> <p>9. Certification from the manufacturer:</p> <p>a. That the bidder has the engineer/s trained and capable for corrective and preventive maintenance for the bid model. Service engineer/s should be presently employed by the bidder or authorized by the manufacturer.</p> <p>Requested Requirement:</p>	<p><i>Please refer to the above amendment.</i></p>
	<p>a. That the bidder/principal has the engineer/s trained and capable for corrective and preventive maintenance for the bid model. Service engineer/s should be presently employed by the bidder or authorized by the manufacturer.</p>	
<p>Section VII: Technical Specification page 70-78</p>		
<p>2</p>	<p>A. ACQUISITION MACHINE (Main Machine)</p> <p>1. Detector System</p> <p>xxx</p> <p>g. Slice thickness: 16 x 0.6mm or smaller, and capable of reconstruction at 0.6 mm slice thickness</p> <p>Suggested Specification:</p>	<p><i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i></p>

	g. Slice thickness: 16 x 0.7mm or smaller, and capable of reconstruction at 0.6 mm slice thickness	
3	<p>A. ACQUISITION MACHINE (Main Machine) xxx 2. Gantry xxx b. Physical tilt (digital): -30 to +30 degrees for both sequential and helical scan or virtual tilt with dose reduction feature xxx d. Faster rotation time: 0.8 sec or faster</p> <p>Suggested Specification: b. Physical tilt or digital: -30 to +30 degrees for both sequential and helical scan or virtual tilt with dose reduction feature d. Faster rotation time: 1 sec or faster</p>	<i>Please refer to the above amendment.</i>
4	<p>A. ACQUISITION MACHINE (Main Machine) xxx 4. Couch xxx d. Couch controls: on both sides of the gantry and foot pedal, and remote from the console xxx h. Vertical travel: at least 450mm</p> <p>Suggested Specification: No foot pedal if fixed table To delete Vertical Movement and replaced with Fixed Table.</p>	<i>Please refer to the above amendment.</i>
5	<p>A. ACQUISITION MACHINE (Main Machine) xxx 6. Power Requirements xxx d. Generator power: 30 KW or higher</p> <p>Suggested Specification: d. Generator power: 24 KW or higher</p>	<i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i>
6	<p>A. ACQUISITION MACHINE (Main Machine) xxx 6. Power Requirements xxx e. Equivalent Generator power of 75 KW with iterative reconstruction</p> <p>Suggested Specification: e. Equivalent Generator power of 60 KW with iterative reconstruction</p>	<i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i>
7	<p>B. CONTROL UNIT – two (2) sets of desktop computer (acquisition console and post processing desktop), each composed 1. CPU: of at least 2 processors with minimum of 4 cores and 4</p>	<i>Please refer to the above amendment.</i>

	<p>threads, minimum of 2.6 GHz 2. RAM: at least 16 GB 3. Monitor: at least 21" LED flat screen, 1920 x 1080 resolution 4. Video Card: appropriately match to the Monitor 5. Hard drive/storage: at least 1 TB 6. DVD/CD writer, 3.0 & 2.0 USB ports 7. Keyboard and mouse 8. Licensed operating system: Windows 8 or higher</p> <p>Suggested Specification: Manufacturer's Standard</p>	
8	<p>C. READING WORKSTATION-two (2) sets, each composed of: xxx 3. Storage: at least 3 TB xxx 6. Monitor: at least 24" medical grade TFT-LED color, 2MP minimum resolution</p> <p>Suggested Specification: 3. Storage: at least 1 TB 6. Monitor: at least 24" medical grade LED or LCD color, 2MP minimum resolution</p>	<i>Please refer to the above amendment.</i>
9	<p>D. CLINICAL APPLICATIONS AND SOFTWARE CAPABILITIES 1. Clinical Applications</p>	
	<p>xxx b. Automated Bone removal</p> <p>Suggested Specification: b. Automated or Manual Bone removal</p>	<i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i>
	<p>c. Lung disease evaluation</p> <p>Suggested Specification: c. Lung disease evaluation or equivalent</p>	<i>Please refer to the above amendment.</i>
	<p>xxx m. Automatic table removal n. Automatic spine labeling</p> <p>Suggested Specification:</p>	<i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i>
	<p>m. Automatic or Manual table removal n. Automatic spine labeling or equivalent n. Automatic or Manual spine labeling</p>	
10	<p>xxx q. RECIST/PERCIST/WHO measurement</p> <p>Suggested Specification: q. RECIST/PERCIST/WHO measurement or equivalent</p>	<i>Please refer to the above amendment.</i>
	<p>F. THIRD PARTY ITEMS xxx 14. On site remote service diagnostic capabilities with Wi-Fi</p>	<i>Please refer to the above amendment.</i>

	<p>enable Gigabit Broadband internet connection (if available at site, minimum of 16 Mbps)</p> <p>Suggested Specification: 14. On site remote service diagnostic capabilities with Wi-Fi/Wired enable Gigabit Broadband internet connection (if available at site, minimum of 16 Mbps)</p>	
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C. CLARIFICATIONS

DETAIL	CLARIFICATION	
<p>Letter from ¹ Biosite Medical Instruments, Inc.</p>		
<p>Section VII: Technical Specification page 70-78</p>		
<p>1</p>	<p>A. ACQUISITION MACHINE (Main Machine) 1. Detector System xxx g. Slice thickness: 16 x 0.6mm or smaller, and capable of reconstruction at 0.6 mm slice thickness</p> <p>Suggested Specification: g. Slice thickness: 16 x 0.8mm or smaller, and capable of reconstruction at 0.8 mm slice thickness</p>	<p><i>Please refer to the above amendment.</i></p>
<p>2</p>	<p>A. ACQUISITION MACHINE (Main Machine) xxx 2. Gantry a. Aperture: at least 70 cm</p> <p>Suggested Specification: a. Aperture: at least 65 cm</p>	<p><i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i></p>
<p>3</p>	<p>A. ACQUISITION MACHINE (Main Machine) xxx 3. X-Ray Tube Assembly xxx c. Maximum Tube current: at least 400 mA</p> <p>Suggested Specification: c. Maximum Tube current: at least 233 mA</p>	<p><i>Please refer to the above amendment.</i></p>
<p>4</p>	<p>A. ACQUISITION MACHINE (Main Machine) xxx 4. Couch xxx</p>	<p><i>Please refer to the above amendment.</i></p>

¹ Email letter dated August 02, 2019

	<p>g. Horizontal travel: at least 1450mm</p> <p>Suggested Specification: g. Horizontal travel: at least 1380mm</p>	
5	<p>B. CONTROL UNIT – two (2) sets of desktop computer (acquisition console and post processing desktop), each composed of:</p> <p>Suggested Specification: B. CONTROL UNIT – one (1) set of desktop computer (acquisition console and post processing desktop), each composed of:</p>	<i>Please refer to the above amendment.</i>
6	<p>C. READING WORKSTATION-two (2) sets, each composed of:</p> <ol style="list-style-type: none"> 1. CPU: minimum of 4 cores and 24 threads, minimum of 2.7 GHz clock frequency <p>Suggested Specification: C. READING WORKSTATION-one (1) set, composed of:</p> <ol style="list-style-type: none"> 1. CPU: minimum of Multicores and 24 threads, minimum of 2.7 GHz clock frequency 	<i>Please refer to the above amendment.</i>
7	<p>D. CLINICAL APPLICATIONS AND SOFTWARE CAPABILITIES xxx</p> <ol style="list-style-type: none"> 3. Image Collection and Processing <ol style="list-style-type: none"> a. Display Matrix: at least at least 512 x 512 <p>Suggested Specifications: a. Display Matrix: at least at least 1024 x 1024</p>	<i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i>
8	<p>E. VENDOR ACCESSORIES</p> <ol style="list-style-type: none"> 1. Personal Protective Equipment(PPE) with at least 0.25 mm lead thickness consisting of the following: <ol style="list-style-type: none"> a. 3 pcs Lead rubber gown <p>Suggested Specifications: a. 3 pcs Lead gown</p>	<i>Please refer to the above amendment.</i>
10	<p>E. VENDOR ACCESSORIES xxx</p> <ol style="list-style-type: none"> 3. 1 unit of image quality phantom meeting the requirements of IAEA Human Health Series No. 19, or meeting the requirement of the European Society of Radiology, or American College of Radiology Accreditation Program. <p>Suggested Specification: To be removed because QC phantom is already enough for the system.</p>	<i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i>
11	<p>E. VENDOR ACCESSORIES xxx</p> <ol style="list-style-type: none"> 4. Nested 3-in-1 CT Dose Index (CTDI) Phantom for Dosimetry 	<i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i>

	<p>Suggested Specification: To be removed because this is specified to a certain vendor.</p>	
12	<p>E. VENDOR ACCESSORIES xxx 5. 1 Set of non-invasive x-ray radiation multimeter and quality assurance/quality control test tools</p> <p>Suggested Specification: To be removed because it is not dedicated to CT scan it is only necessary if you are in a research center hospital, Institution who should only have that are those who gives licenses such as TUV, CE not for 16 slice CT scan only.</p>	<p>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</p>
13	<p>F. THIRD PARTY ITEMS xxx 3. Four (4) UPS with AVR that has backup time of at least 20 minutes, two (2) for the control unit desktop and two (2) for the workstation). xxx 6. One (1) dual barrel power injector with 500 pcs. syringe set compatible with the injector. xxx 12. One (1) DVD publisher</p> <p>Suggested Specification: 3. Two (2) UPS with AVR that has backup time of at least 20 minutes, one (1) for the control unit desktop and one (1) for the workstation). 6. One (1) single barrel power injector with 500 pcs. syringe set compatible with the injector. Because for a 16 slice ct scan is already compatible of single barrel injector only those with 64 slice for cardiac CT scan should use a dual barrel injector. 12. To be removed because they can view the image through their existing PACS system.</p>	<p>Please refer to the above amendment.</p>

DETAIL		CLARIFICATION
<p>Letter from ² Medcotek, Inc.</p>		
<p>Section VII: Technical Specification page 70-78</p>		
1	<p>A. ACQUISITION MACHINE (Main Machine) 1. Detector System xxx f. 32 slices maximum number of reconstructed slices per rotation</p> <p>Suggested Specification: f. 32 slices or more maximum number of reconstructed slices per rotation</p>	<p>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</p>

² Email letter dated August 02, 2019

2	<p>A. ACQUISITION MACHINE (Main Machine)</p> <p>1. Detector System xxx g. Slice thickness: 16 x 0.6mm or smaller, and capable of reconstruction at 0.6 mm slice thickness</p> <p>Suggested Specification: g. Slice thickness: 16 x 0.6mm or smaller, and capable of reconstruction at 0.6 mm slice thickness or better 40 x0.55mm, 40 x 1.1mm</p>	<p><i>Please refer to the above amendment.</i></p>
3	<p>A. ACQUISITION MACHINE (Main Machine)</p> <p>xxx 3. X-Ray Tube Assembly a. Tube voltage: should have at least 3KV settings between 80 kV to 130 kV</p> <p>Suggested Specification: a. Tube voltage: should have at least 3KV settings between 70 kV to 140 kV</p>	<p><i>Please refer to the above amendment.</i></p>
4	<p>A. ACQUISITION MACHINE (Main Machine)</p> <p>xxx 3. X-Ray Tube Assembly xxx c. Maximum Tube current: at least 400 mA d. Continuous scan time: at least 300 seconds e. Focal spot size: small focal spot; at least 0.8 x 0.4 mm, large focal spot; at least 0.8 x 0.7 mm</p> <p>Suggested Specification: c. Maximum Tube current: at least 350 mA d. Continuous scan time: at least 100 seconds e. Focal spot size: small focal spot; at least 0.8 x 0.7 mm, large focal spot; at least 1.4 x 1.2 mm</p>	<p><i>Please refer to the above amendment.</i></p>
5	<p>A. ACQUISITION MACHINE (Main Machine)</p> <p>xxx 4. Couch xxx h. Vertical travel: at least of 450mm</p> <p>Suggested Specification: h. Vertical travel: at least of 350mm</p>	<p><i>Please refer to the above amendment.</i></p>
6	<p>B. CONTROL UNIT – two (2) sets of desktop computer (acquisition console and post processing desktop), each composed of: xxx 7. Licensed operating system: Windows 8 or higher</p> <p>Suggested Specification: B. CONTROL UNIT – one (1) set of desktop computer (acquisition console and post processing desktop), each</p>	<p><i>Please refer to the above amendment.</i></p>

	<p>composed of: xxx 7. Licensed operating system: Windows 7 or higher</p>	
7	<p>C. READING WORKSTATION-two (2) sets, each composed of: xxx 7. Licensed operating system: Windows 8 or higher</p> <p>Suggested Specification: C. READING WORKSTATION-one (1) set, each composed of: 7. Licensed operating system: Windows 7 or higher</p>	<i>Please refer to the above amendment.</i>
8	<p>D. CLINICAL APPLICATIONS AND SOFTWARE CAPABILITIES 1. Clinical Applications xxx n. Automatic spine labeling</p> <p>Suggested Specification: n. Automatic spine labeling or Selected Spine Annotation</p>	<i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i>
13	<p>F. THIRD PARTY ITEMS xxx 3. Four (4) UPS with AVR that has backup time of at least 20 minutes, two (2) for the control unit desktop and two (2) for the workstation) 4. One (1) UPS with a backup time of at least 20 minutes, medical grade, appropriate for the CT Scanner.</p> <p>Suggested Specification: 3. Two (2) UPS with AVR that has backup time of at least 20 minutes, one (1) for the control unit desktop and one (1) for the workstation) 4. One (1) UPS with a backup time of at least 20 minutes, medical grade, appropriate for the CT Scanner or provision of Constant Voltage Regulator Ideal for the Whole System. xxx</p>	<i>Please refer to the above amendment.</i>
15	<p>F. THIRD PARTY ITEMS xxx 13. One (1) DICOM printer</p> <p>Suggested Specification:</p>	<i>Please refer to the above amendment.</i>
	For deletion since printing can be done with the existing PACS system.	
Section III: Bid Data Sheet; BDS Clause 29.2 page 42-44		
1	<p>xxx 7. Proof (such as sales invoice, purchase request, etc.) that the brand has been sold to other health facility/hospital for the last five years.</p> <p>Suggested Requirement:</p>	<i>Please refer to the above amendment.</i>

	7. Proof (such as sales invoice, purchase request, etc.) that the brand has been sold to other health facility/hospital for the last two to five years.	
2	<p>xxx</p> <p>9. Certification from the manufacturer:</p> <p>a. That the bidder has the engineer/s trained and capable for corrective and preventive maintenance for the bid model. Service engineer/s should be presently employed by the bidder or authorized by the manufacturer.</p> <p>Comment: This requirement should be retained as it is. It is correct to require that service engineers who would perform corrective and preventive maintenance should be employed by the manufacturer. Engineers from the manufacturer would not have a binding contract with the Hospital. Manufacturers must train their distributor's service engineers to guarantee uptime service.</p>	<i>Please refer to the above amendment.</i>
3	<p>xxx</p> <p>10. Certification from the bidder:</p> <p>a. That the brand or model of the equipment has been in local market for at least five (5) years.</p> <p>Suggested Requirement: a. That the brand or model of the equipment has been in local market for at least two to five (5) years</p>	<i>Please refer to the above amendment.</i>

DETAIL		CLARIFICATION
Letter from ³ Variance Trading Corporation		
Section VII: Technical Specification page 70-78		
1	<p>A. ACQUISITION MACHINE (Main Machine)</p> <p>1. Detector System</p> <p>xxx</p> <p>g. Slice thickness: 16 x 0.6mm or smaller, and capable of reconstruction at 0.6 mm slice thickness</p> <p>Suggested Specification: g. Slice thickness: 16 x 0.625 mm or smaller, and capable of reconstruction at 0.625 mm slice thickness</p>	<i>Please refer to the above amendment.</i>
2	<p>A. ACQUISITION MACHINE (Main Machine)</p> <p>xxx</p> <p>2. Gantry</p> <p>a. Aperture: at least 70 cm</p> <p>Suggested Specification: a. Aperture: at least 65 cm</p>	<i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i>

³ Email letter dated August 02, 2019

3	<p>A. ACQUISITION MACHINE (Main Machine) xxx 2. Gantry xxx e. Directional controls on both sides of the gantry</p> <p>Suggested Specification: To consider Directional controls on Middle top of gantry accessible on both sides</p>	<p><i>Please refer to the above amendment.</i></p>
4	<p>A. ACQUISITION MACHINE (Main Machine) xxx 3. X-Ray Tube Assembly xxx b. Anode heat storage capacity: at least 3.5 MHU</p> <p>Suggested Specification: b. Anode heat storage capacity: at least 2 MHU; equivalent 3.3 MHU</p>	<p><i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i></p>
4	<p>c. Maximum Tube current: at least 400 mA d. Continuous scan time: at least 300 seconds e. Focal spot size: small focal spot; at least 0.8 x 0.4 mm, large focal spot; at least 0.8 x 0.7 mm</p> <p>Suggested Specification: c. Maximum Tube current: at least 200 mA; equivalent 333mA with ASIR d. Continuous scan time: at least 90 seconds helical e. Focal spot size: small focal spot; at least 0.8 x 0.6 mm nominal focal spot</p>	<p><i>Please refer to the above amendment.</i></p>
5	<p>A. ACQUISITION MACHINE (Main Machine) xxx 4. Couch xxx d. Couch controls: on both sides of the gantry and foot pedal, and remote from the console</p>	<p><i>Please refer to the above amendment.</i></p>
	<p>Suggested Specification: To consider the couch controls on the Middle top of gantry accessible on both sides, Foot pedal and remote from console</p>	
6	<p>A. ACQUISITION MACHINE (Main Machine) xxx 6. Power Requirements xxx c. (1) Constant Voltage Transformer appropriate for the equipment and its peripherals. xxx e. Equivalent Generator power of 75 KW with iterative reconstruction</p>	<p><i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i></p>

	<p>Suggested Specification: c. To consider removing the AVR requirement since the UPS we will provide has a built in Voltage regulator. e. To consider Generator power of 40kW equivalent with iterative reconstruction with low dose technology which doesn't affect the image quality.</p>	
7	<p>B. CONTROL UNIT – two (2) sets of desktop computer (acquisition console and post processing desktop), each composed of:</p> <p>Suggested Specification: To consider 1- Operator's Console (acquisition and post processing desktop)</p>	<i>Please refer to the above amendment.</i>
8	<p>B. CONTROL UNIT – two (2) sets of desktop computer (acquisition console and post processing desktop), each composed of: xxx 3. Monitor: at least 21" LED flat screen, 1920 x 1080 resolution</p> <p>Suggested Specification: To consider Monitor at least 21.5" LCD monitor 1280 x 1024</p>	
9	<p>B. CONTROL UNIT – two (2) sets of desktop computer (acquisition console and post processing desktop), each composed of: xxx 8. Licensed operating system: Windows 8 or higher</p> <p>Suggested Specification: To consider manufacturer's standard licensed operating system LINUX OS or Windows 8 or higher</p>	<i>Please refer to the above amendment.</i>
10	<p>C. READING WORKSTATION-two (2) sets, each composed of: xxx 6. Monitor: at least 24" medical grade TFT-LED color, 2MP minimum resolution 7. Licensed operating system: Windows 8 or higher</p>	<i>Please refer to the above amendment.</i>
	<p>Suggested Specification: To consider monitor of at least AW workstation: Dual 19" LCD monitor 1280 x 1024, equivalent medical certification. Linux OS To consider manufacturer's standard licensed operating system LINUX OS or Windows 8 or higher.</p>	
11	<p>D. CLINICAL APPLICATIONS AND SOFTWARE CAPABILITIES 1. Clinical Applications xxx n. Automatic spine labeling</p> <p>Suggested Specification: To consider the SEMI Automatic spine labeling</p>	<i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i>

12	<p>E. VENDOR ACCESSORIES</p> <p>xxx</p> <p>3. 1 unit of image quality phantom meeting the requirements of IAEA Human Health Series No. 19, or meeting the requirement of the European Society of Radiology, or American College of Radiology Accreditation Program.</p> <p>4. Nested 3-in-1 CT Dose Index (CTDI) Phantom for Dosimetry</p> <p>5. 1 Set of non-invasive x-ray radiation multimeter and quality assurance/quality control test tools</p> <p>Suggested Specification: Suggest to remove since the FDA will be the one to provide during the testing and accreditation of the unit only once.</p>	<p><i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i></p>
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DETAIL	CLARIFICATION	
Letter from ⁴ Himex Corporation		
Section VII: Technical Specification page 70-78		
1	<p>A. ACQUISITION MACHINE (Main Machine)</p> <p>1. Detector System</p> <p>xxx</p> <p>g. Slice thickness: 16 x 0.6mm or smaller, and capable of reconstruction at 0.6 mm slice thickness</p> <p>Suggested Specification: Changed to at least 32 x 0.625mm or thinner, and capable of reconstruction at 0.625mm slice thickness. Specification of 0.6mm pertains to a one particular brand's specification and that slice thickness in the industry is between 0.625 – 0.8mm for 16/32 CT scanner.</p>	<p><i>Please refer to the above amendment.</i></p>
2	<p>A. ACQUISITION MACHINE (Main Machine)</p> <p>xxx</p> <p>2. Gantry</p> <p>xxx</p> <p>b. Physical tilt (digital): -30 to +30 degrees for both sequential and helical scan or virtual tilt with dose reduction feature</p> <p>Suggested Specification: Only Physical gantry tilt be considered with respect to CT-scanner gantry tilt capability. This is due to the fact that physical gantry tile (actual physical tilting of gantry be certain angle) can minimize irradiation of eyes as well as breast tissue, and reduce artefacts from teeth during cranial scanning.</p>	<p><i>Please refer to the above amendment.</i></p>

⁴ Email letter dated August 02, 2019

3	<p>A. ACQUISITION MACHINE (Main Machine) xxx 3. X-Ray Tube Assembly xxx d. Continuous scan time: at least 300 seconds</p> <p>Suggested Specification: Continuous scan time: at least 100 seconds be considered. With modern CT-scanners, continuously scanning for 300 seconds is no longer standard practice due to high-speed nature of contemporary scanners.</p>	<p><i>Please refer to the above amendment.</i></p>
4	<p>A. ACQUISITION MACHINE (Main Machine) xxx 4. Couch xxx e. Motor-driven couch top movement system</p> <p>Suggested Specification: Motor driven couch top movement system with manual horizontal and vertical movement (450mm-1000mm). Advantage of this is for a time efficient and easy loading/unloading of patient for scanning, especially for pediatric, elderly and immobile patients.</p>	<p><i>The Original Technical Specification is retained as per End-user's reply dated August 08, 2019.</i></p>
5	<p>E. VENDOR ACCESSORIES 1. Personal Protective Equipment(PPE) with at least 0.25 mm lead thickness consisting of the following: a. 3 pcs Lead rubber gown</p> <p>Suggested Specifications: a. 3 pcs Lead gown</p>	<p><i>Please refer to the above amendment.</i></p>
	<p>F. THIRD PARTY ITEMS xxx 4. One (1) UPS with a backup time of at least 20 minutes, medical grade, appropriate for the CT Scanner. xxx 6. One (1) dual barrel power injector with 500 pcs. syringe set compatible with the injector. 7. Two (2) units dehumidifier 220 VAC, 60Hz</p>	
6	<p>Suggested Specifications: 4. Request that a CVT or Transformer and AVR Setup will be accepted instead of a (1) unit UPS due to budget constraints. Also, long term maintenance for a UPS will be needed as the need to replace the battery of it every two years. 6. To change the requirement to One (1) Single barrel power injector instead as the requirement is only for a 16-slice CT Scan. 7. To change the requirement to One (1) unit humidifier as this can already suffice the room size of the CT Scanner.</p>	<p><i>Please refer to the above amendment.</i></p>

9	<p>H. CT SCANNER FACILITY REQUIREMENTS: xxx</p> <p>7. The CT scan x-ray facility shall have a waiting area, dressing area, film storage area and film-reading room. The minimum size of the film storage area is 3m x 3.5m.</p> <p>8. A toilet for patient with a door opening directly to the x-ray room shall be provided inside the CT scan examination room where examinations using contrast media are performed.</p> <p>Suggested Specification: Request to remove the requirements because this would entail an expensive cost and might deem the budget insufficient.</p>	<i>Please refer to the above amendment.</i>
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DETAIL	CLARIFICATION	
Letter from ⁵ Assurance Controls technologies Co., Inc.		
Section VII: Technical Specification page 70-78		
1	<p>A. ACQUISITION MACHINE (Main Machine) xxx</p> <p>3. X-Ray Tube Assembly xxx</p> <p>c. Maximum Tube current: at least 400 mA</p> <p>Suggested Specification: c. Maximum Tube current: at least 180 mA</p>	<i>Please refer to the above amendment.</i>

By Rule, all other provisions in the Bidding Documents correspondingly affected by these amendments are likewise deemed amended to conform to this Bid Bulletin.

Amendments made herein shall be considered an integral part of the Bidding Documents.

(SGD)
ENGR. PABLO ROMAN C. ANDRES
Chairperson, PS BAC X

For the purpose of this Bulletin and for better understanding of its contents, the following rules shall apply: (a) ~~double~~ ~~Strikeout~~ – denotes deletion; (b) Underline – denotes inclusion or new item/requirement; and "xxx" – denotes separation of phase/s being amended from the rest of the main text.

⁵ Email letter dated August 02, 2019