



**SUPPLEMENTAL / BID BULLETIN**  
**UNIVERSITY OF THE PHILIPPINES MANILA**  
*The Health Sciences Center*  
**Bids and Awards Committee 1**  
Taft Avenue, Manila  
Trunk Line No. 8554-8400 Local 3014/3015



**BID BULLETIN NO. 2023-31**  
**5 April 2023**

**for the Supply, Delivery, Testing and Commissioning of One**  
**(1) Unit Flat Panel Digital Mobile C-Arm**  
**PUR23-03-0226**

Pursuant to Section 22.5.1 of the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184, the Bids and Awards Committee 1 is issuing this bid bulletin to modify or amend the following items in the Bid Documents in response to and address the request / clarification of the prospective bidder/s who attended the pre-bid conference held on 31 March 2023:

1. The following data should be modified in the Technical Specifications as:

Item No.	From	To
1.a	Flat Panel Detector Type: Armophous Silicon	Flat Panel Detector Type: Armophous Silicon <u>or Complementary Metal Oxide Semiconductor (CMOS) detector</u>
1.c	Image Matrix: At least 1560 x 1424 pixel, with a pixel pitch of less than 185µm to achieve the highest resolution.	Image Matrix: At least 1560 x 1424 pixel, with a pixel pitch of less than 185µm to achieve the highest resolution. <u>Units with 1536 x 1496 pixels are also acceptable.</u>
1.f	Tri-modal magnification: 26 cm; 18 cm and 12 to 14 cm	Tri-modal magnification: 26cm; 18cm and 12 to 14cm <u>or better magnification</u>
2.a	X-ray Generator Type: Microprocessor controlled, monoblock generator with maximum generator output of at least 15kW	X-ray Generator Type: <u>Switch design or</u> microprocessor controlled, monoblock <u>or split type</u> generator with maximum generator output of at least 15kW
3.c	Anode Heat Storage: Must not be less than 310 kHU	Anode Heat Storage: <del>Must not be less than 310 kHU</del> <u>At least 300kHU</u>
4.a	Collimator type: Iris or shutter type with on screen collimator position indicator	Collimator type: <u>Lead</u> Iris or shutter type <u>or rotatable double leaf Tungsten</u> with on screen collimator position indicator
4.b	Material: Tungsten, rotatable, double leaf or lead shutter type	
6.b	At least 44 lines/cm and 13:1 grid ratio	At least <del>44 lines/cm</del> <u>34 lines/cm</u> and 13:1 grid ratio
9.b	One of the LCD monitors must be touchscreen.	One of the LCD monitors must be touchscreen. <u>If not a touchscreen monitor, it should at least be annotatable.</u>
9.d.iv	With up and down tilt	With up and down <del>tilt</del> <u>movement</u>

## 2. Clarification

Item No.	Query	Remarks
<b>1.a</b>	Detector Type: Amorphous silicon  The prospective bidder is requesting to consider:  <i>'Detector Type: Amorphous silicon or other detector material'</i>	The use of 'other detector material' as a descriptive term for the detector type is not acceptable. But as stated above and verbalized during the prebid conference, CMOS detector is an acceptable technology.
<b>1.b</b>	Detector size: At least 26 cm x 26 cm  The prospective bidder is requesting to change to:  <i>'Detector Size: at least 20cm x 20cm of detector or higher'</i>	The offered dimension is too small for the intended application.
<b>1.e</b>	Detector DQE of at least 70%  The prospective bidder is requesting to change to:  <i>'Detector DQE of at least 70% or better'</i>	The offered specification is already compliant to the required specifications.
<b>3.c &amp; 3.d</b>	3.c Anode Heat Storage: Must not be less than 310 kHU 3.d Anode cooling capacity: Must not be less than 75.5 kHU/min  The prospective bidder is requesting to consider:  <i>'3.c Anode Heat Storage: Must not be less than 310 kHU'</i> <i>'3.d Anode cooling capacity: Must not be less than 75.5 kHU/min'</i>	The anode heat storage will be modified to at least 300kHU but the anode cooling capacity will be maintained because the offered specification (85,000 HU/min) is already compliant.
<b>9.a</b>	With dual Medical Grade LCD display: at least 19-inch  The prospective bidder is requesting to consider:  <i>'With dual or single display monitor with 2-split screens of two 19 inches or 20 inches displays, medical grade or ultra high definition UHD'</i>	A single display monitor is not acceptable. Malfunction of the lone monitor renders the C-Arm unable to function.

This shall form an integral part of the Bid Documents.

For the information and guidance of all concerned.

=Original Signed=

**Dean CHARLOTTE M. CHIONG, MD, PhD**  
Chairperson, Bids and Awards Committee 1

Received by the Bidder:

\_\_\_\_\_  
Signature over Printed Name

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Date