

Proj. Ref. No.: **BAC1-2023-10-0082**

End-User: **DEPARTMENT OF RADIOLOGY**

Project: **SUPPLY, DELIVERY, INSTALLATION, TESTING
AND COMMISSIONING OF TWO (2) UNITS BRAND
NEW HIGH-END DIAGNOSTIC ULTRASOUND
MACHINE AND TWO (2) UNITS BRAND NEW MID-
RANGE DIAGNOSTIC ULTRASOUND MACHINES**

Contract: **SINGLE BID**

Opening of Bids: **01 December 2023**

Total ABC: **Php41,000,000.00**

Item No.	Qty.	UOM	Item Description	Unit Cost	Quotations (all taxes included)	
					In Figures	In Words
1	1	Lot	BRAND NEW HIGH-END DIAGNOSTIC ULTRASOUND MACHINE AND BRAND NEW MID-RANGE DIAGNOSTIC ULTRASOUND MACHINES	41,000,000.00		
	2	Unit	OVERVIEW: A. <u>MID-RANGE DIAGNOSTIC ULTRASOUND MACHINE</u> Shared service ultrasound system with built-in multi-disciplinary applications, and also equipped with functions not limited to abdominal, breast, thyroid, pelvic, renal, and OB-GYN imaging with latest technology in Shear Wave Elastography for breast, thyroid, and abdomen capable of both Quantitative and Qualitative assessment of tissue stiffness and elasticity;	7,000,000.00		
	2	Unit	B. <u>HIGH-END DIAGNOSTIC ULTRASOUND MACHINE</u> Shared service ultrasound system with built-in multi-disciplinary applications, and also equipped with functions not limited to abdominal, breast, thyroid, transcranial, vascular,	13,500,000.00		

Approved by:

Dean CHARLOTTE M. CHIONG, MD., PhD.
Chairperson

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			musculoskeletal, neonatal, pelvic, renal, and OB-GYN imaging with latest technology in Shear Wave Elastography for breast, thyroid, and abdomen capable of both Quantitative and Qualitative assessment of tissue stiffness and elasticity; has fusion imaging technology; and Advanced Needle Visualization with needle trajectory display.			
			TECHNICAL SPECIFICATIONS:			
			A. MID-RANGE DIAGNOSTIC ULTRASOUND (2 units) 1. General Specifications: a. Adjustable height console b. Articulating arm with left/right and horizontal/vertical articulation preferably with a locking position c. At least two (2) USB 2.0 ports in the control panel, and one (1) USB 2.0 port at the back of the system 2. Display: a. At least 21 inches (diagonal) LCD or better specification			

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			<ul style="list-style-type: none"> b. Minimum screen resolution: at least 1920 x 1080 pixels or higher c. With built-in stereo speakers d. Adjustable monitor positioning (with tilting, swivel, and folding mechanism) <p>3. Data Storage and Management:</p> <ul style="list-style-type: none"> a. Storage Drive: Integrated SSD at least 500 GB b. External Hard Drive: at least 1TB NVMe portable SSD c. File formats: Must be compatible with at least DICOM 3.0 standard and other PC file formats for all images and clips d. DVD/CD writer: Capable of writing at least 4.5 GB of data or higher into a DVD +/- R media at speeds up to 32X; or capable of writing at least 650MB of data into a CD +/- R media at speeds up to 64X 			

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			<ul style="list-style-type: none"> e. Clip storage: Live and cine f. Data storage: Allow storage in at least DICOM 3.0 standard and PC formats for all images, clips, volumes, etc. g. DICOM connectivity: Must be DICOM 3.0 compliant. h. The machine must be able to interface and communicate with PACS and RIS (vendor neutral) i. Allow DICOM print, Query/Retrieve, DICOM store, and DICOM Modality Work List capability j. Must have a solution for virus/malware protection <p>4. Imaging Modes:</p> <ul style="list-style-type: none"> a. Color Doppler Velocity b. Power angiography/power Doppler c. Pulsed wave (PW) Doppler d. Triplex Doppler mode 			

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			e. M-Mode f. Anatomical 3D imaging g. Maximum scanning depth of at least 30 cm or more h. Number of processing channels: 3,000,000 or better i. Minimum of 2000 frames per second frame rate j. Lines of density at 2D mode of at least 512 lines 5. Image Enhancement: a. Tissue Harmonic Imaging (THI) b. Special Vascular enhancement features such as B flow or similar feature c. 2D and spectral Doppler optimization d. Micro Vascular Imaging e. Panoramic imaging f. Enhanced tissue contrast resolution g. With speckle reduction imaging capacity h. Image Steering for biopsy 6. Transducers: a. Transducer ports: Four transducer port or more			

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			b. Transducer accessibility: Must have ergonomic access to all transducer ports c. At least one curved array transducer: frequency range of 2-6 MHz or wider frequency range with capability of doing Shear Wave Elastography in case of upgrade d. At least one endocavity transducer: frequency range of 4-9 MHz or wider frequency range e. At least one linear array or small parts probe: frequency range of 7-16 MHz or wider frequency range with capability of doing Elastography f. Multiple selectable harmonic frequencies per transducer g. All transducers must have real time adjustment of frequencies in B mode, Color and Doppler during sonographic examination			

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			<ul style="list-style-type: none"> h. Needle guide for biopsy procedures for endocavity, curved array, and linear array transducers i. Needle guide for biopsy procedures for endocavity, curved array and linear array transducers <p>7. Applications/Analysis Packages:</p> <ul style="list-style-type: none"> a. Abdomen b. Transcranial c. Vascular d. Neonatal e. Pelvis f. Renal g. OB-GYN h. Small parts (e.g. thyroid, breast, scrotal, musculoskeletal, etc. <p>8. Imaging Printing:</p> <ul style="list-style-type: none"> a. The ultrasound machine must come with a thermal paper printer with options to print using standard, high-grade, and high-density thermal papers. 			

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			b. The ultrasound machine must be able to print using an external-colored printer. 9. Additional Requirements: a. Uninterruptible power supply with at least 1500 VA power, providing at least 15 minutes of back-up running time, and with built-in and/or accompanying Automatic Voltage Regulator. Should be compatible with 110 Volts – 220 Volts and 50Hz – 60Hz input from wall socket.			
			B. HIGH-END DIAGNOSTIC ULTRASOUND (2 units) 1. General Specifications: a. Adjustable height console b. Floating panel (suitable whether operator is sitting or standing) c. Articulating arm with left/right and horizontal/vertical articulation preferably			

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			<p>with a locking position</p> <p>d. At least two (2) USB 2.0 ports in the control panel and one (1) USB 2.0 port at the back of the system</p> <p>2. Display:</p> <p>a. At least 22 inches (diagonal), IPS or OLED flat panel screen</p> <p>b. Minimum screen resolution: At least 1920 x 1080 pixels or better</p> <p>c. With built-in stereo speakers</p> <p>d. Adjustable monitor positioning (with tilting, swivel, and folding mechanisms)</p> <p>3. Data Storage and Management:</p> <p>a. Storage Drive: Integrated SSD of 1 TB</p> <p>b. File formats: Must be compatible with at least DICOM 3.0 standard or PC file formats for all images and clips</p> <p>c. DVD/CD writer: Capable of writing at least 4.5 GB or data or higher into a</p>			

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			<p>DVD +/- R media at speeds up to 32X; or capable of writing at least 650MB of data into a CD +/- R media at speeds up to 64X</p> <p>d. Clip storage: Live and cine</p> <p>e. Data storage: Allow storage in at least DICOM 3.0 standard or PC formats for all images, clips, volumes, etc.</p> <p>f. DICOM connectivity: Must be DICOM 3.0 compliant.</p> <p>g. The machine must be able to interface and communicate with PACS and RIS (vendor neutral)</p> <p>h. allow DICOM print, Q/R, DICOM store, and Modality Work List</p> <p>i. Must have a solution for virus/malware protection</p> <p>j. The vendor must provide an external storage solution (NVMe portable external SSD) for data back-up, with at least 1 Terabyte of storage.</p> <p>4. Imaging Modes:</p>			

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					In Figures	In Words
			a. Color Doppler Velocity b. Power angiography/power Doppler c. 55 Pulsed wave (PW) Doppler d. Triplex Doppler mode e. Anatomical 3D volume imaging f. Shear wave Elastography with quality indicator, for breast, thyroid and liver g. Maximum scanning depth of at least cm or more h. Number of hardware/physical channels: at least 128 i. M-Mode j. Number of processing channels: 10,000,000 or better k. Maximum system bandwidth at least 21 MHz or Higher 5. Image Enhancement: a. Tissue Harmonic Imaging (THI) b. Special Vascular enhancement features such as B flow or similar			

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			feature c. 2D and spectral Doppler optimization d. Micro Vascular Imaging e. Panoramic imaging f. Enhanced tissue contrast resolution g. With improved speckle reduction imaging capacity h. Image Steering for biopsy i. Fusion Imaging Technology j. Multi Modality Query Retrieve 6. Transducers: a. Transducer ports: Four (4) or more b. Transducer accessibility: Must have ergonomic access to all transducer ports c. At least one (1) endocavity transducer: frequency range of 4-9 MHz or wider frequency range d. At least one (1) curved array transducer: frequency range of 2-6			

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			<p>MHz or wider frequency range</p> <p>e. At least one (1) phased array/"hockey stick" transducer or pediatric probe: frequency range of 4-15 MHz</p> <p>f. At least one (1) linear array or small parts probe: range of 4-19 MHz or wider frequency range</p> <p>g. Multiple selectable harmonic frequencies per transducer</p> <p>h. Needle guide for biopsy procedures for endocavity curved array and linear array transducers</p> <p>i. Connector type: Must have the micro-pinless technology</p> <p>7. Applications/ Analysis Packages:</p> <p>a. Abdomen</p> <p>b. Transcranial</p> <p>c. Vascular</p> <p>d. Neonatal</p> <p>e. Pelvis</p> <p>f. Renal</p> <p>g. OB-GYNE</p>			

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			<ul style="list-style-type: none"> h. Small parts (e.g. thyroid, breast, scrotal, musculoskeletal, etc.) i. Strain Elastography with Ratio j. Shear Wave Elastography with Quality Indicator with up to 12 measurements with KPA and m/s unit shown simultaneously. k. Measurement of Fatty liver and Hepatic protocol Feature with summary report of SWE and Liver Steatosis 8. Image Printing: <ul style="list-style-type: none"> a. The ultrasound machine must come with a thermal paper printer (third party) with options to print using standard, high-grade, and high density thermal papers b. The ultrasound machine must have an option to print using an external colored printer. 9. Additional Requirements: <ul style="list-style-type: none"> a. Uninterruptible power 			

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			supply (third party) with at least 1500VA power, providing at least 15 minutes of back-up running time, and with built-in and/or accompanying Automatic Voltage Regulator (third party). Should be compatible with 110 Volts – 220 Volts and 50Hz – 60Hz input from wall socket.			
TOTAL APPROVED BUDGET FOR THE CONTRACT:				Php41,000,000.00		

TERMS AND CONDITIONS:

A. Requirement/s if declared as Lowest/Single Calculated Bids:

1. Presentation of Technical data sheet and/or presentation of a prototype equipment that prove compliance to the specifications within seven (7) calendar days after receipt of Notice of Lowest / Single Calculated Bid.

B. Requirement/s if awarded the contract:

1. Delivery Period: Within Sixty (60) calendar days after receipt of Notice to Proceed (NTP).
2. Delivery Place: Equipment Section, Property & Supply Division, Philippine General Hospital, Taft Avenue, Manila
3. Warranty Period / Coverage of Warranty:

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- a. Three (3) years comprehensive (parts and service) for all deliverables, including UPS and AVR for both high-end and mid-range diagnostic ultrasound machines.
 - b. Preventive maintenance during the warranty period.
 - c. Service support must include 24-7 technical phone support and technical remote services, initial response time of at most 4 hours from report of problems, and at most 24 hours for on-site support.
 - d. Free software updates (Clinical and Technical) during the period of warranty.
 - e. Warranty period to commence from the date of acceptance by the end user after installation, testing and commissioning.
 - f. Must submit a quotation on comprehensive preventive.
4. Undertaking to connect the ultrasound machines to the PGH Central Block Radiology Workstations and PAC-RIS.
 5. Manuals: The supplier must provide original hard copy and soft copy of operators and service manuals in English Language upon delivery.
 6. Training:
 - a. At least One (1) week on-site training of four (4) Radiologists on Operations and Advanced Ultrasound Applications
 - b. On-site familiarization training for OETS Technical personnel on basic biomedical troubleshooting.
 7. Acceptance Procedures and Parameters: at least One (1) week of use without significant physical and technical problems arising from regular use.

C. Requirements to be submitted by the bidder for bid opening:

1. Brochures/Technical data Sheet for the main equipment, Proprietary and Third Party Accessories.

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2. SEC registration to prove that the supplier is in the business of importing and supplying medical equipment for the past Ten (10) years.
3. Certification that the manufacturer has been in the business of manufacturing diagnostic ultrasound equipment for at least Ten (10) years.
4. Proof that the bidder has been in the business supplying the same brand modality in the last five (5) years.
5. The Brand must have been in the local market for the past five (5) years. Proof required: Invoices or Purchase Orders.
6. Guarantee Letter from the manufacturer and local distributor to ensure availability of supplies, parts and accessories for at least five (5) years after expiration of the warranty period
7. Certification by the principal/ manufacturer that service engineers are trained on service and repair
8. Certification by the supplier that at least one service engineer is available locally to provide quick on-site support.
9. Certificate of Performance Evaluation from the Single Largest Contract.
10. Certificate of product registration from the FDA or certificate of exemption from the DOH.
11. ISO/IEC compliance document of the manufacturer
12. Country of Manufacturing Site must be from Western Europe, US/Canada and Japan

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