

Proj. Ref. No.: **PUR23-09-0883**  
End-User: **DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, DIVISION OF  
MATERNAL-FETAL MEDICINE**  
Project: **SUPPLY, DELIVERY, INSTALLATION, TESTING AND  
COMMISSIONING OF ONE (1) CENTRALIZED WIRELESS  
TELEMETRY SYSTEM**  
Contract: **SINGLE BID**

Opening of Bids: **21 December 2023**  
Total ABC: **Php9,000,000.00**

Item No.	Qty.	UOM	Item Description	Unit Cost	Quotations (all taxes included)	
					In Figures	In Words
1	1	Unit	<b>CENTRALIZED WIRELESS TELEMETRY SYSTEM</b>	9,000 ,000.00		
			<b>Components:</b>			
			A. <b>System</b> B. <b>Monitor</b> C. <b>Hardware</b> D. <b>Ultrasound Transducer</b> E. <b>Toco Transducer</b> F. <b>Trolley</b> G. <b>Mouse Tray</b> H. <b>Peripherals</b>			
			<b>Technical Specifications:</b> A. The System must have the following features: 1. Has real time capability to record and analyze data 2. Able to retrieve, review or print patient data after monitoring 3. Can perform monitoring of up to 16 patients or more 4. Has monitoring capability for twins and triplets 5. Includes the following parameters: a. FHR1 b. FHR2 c. FHR3 d. TOCO e. AFM			

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Chairperson

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			<p>6. Equipped with the following data transmission:</p> <p>a. Data Export: Ethernet/Wireless</p> <p>b. Report Format: PDF, JPG</p> <p>c. HIS connection: Health Level Seven (HL7)</p> <p>7. Has the capability to function as a continuously running equipment</p> <p>B. The Monitor must have the following features:</p> <p>1. At least 21-22 inches in size</p> <p>2. 16:9 Touch Screen Thin-Film Transistor (TFT) Color LCD Monitor</p> <p>3. Maximum Resolution at least 1920 x 1080 (H x V)</p> <p>4. Maximum Colors at least 16.7M Colors (6-bit + A-FRC)</p> <p>5. Pixel Pitch (um) at least 247.5 x 247.5</p> <p>6. Viewing Angle at least 150 degrees</p> <p>7. Luminance at least 250cd/m2</p> <p>8. LCD Mean Time Before Failures (MTBF) at least 30,000 hours</p> <p>9. Has the following buttons on the monitor:</p> <ul style="list-style-type: none"> <li>• Power</li> <li>• Volume increase/decrease</li> <li>• Touchscreen control switch</li> </ul>			

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			<ul style="list-style-type: none"> <li>Brightness increase/decrease</li> </ul> <p>10. Has the following Signal Interface:</p> <ul style="list-style-type: none"> <li>2 x RS-232/422/485 (isolated) Serial Ports</li> <li>2 x USB 3.0 ports; 4 x USB 2.0 ports</li> <li>VGA</li> <li>HDMI</li> <li>Speakers</li> <li>2 x Gigabit Ethernet (isolated) Interfaces (RJ-45)</li> </ul> <p>C. The Hardware must have the following features:</p> <ol style="list-style-type: none"> <li>ESP32-PICO-D4 (Central Processing Unit), or better</li> <li>4GB, DDR4-2666 (Random Access Memory), or better</li> <li>120 GB SSD (Computer Data Storage), or better</li> <li>Intel® HD Graphics 610 (Graphics Card), or better</li> <li>Realtek® ALC888S HD Audio Codec (Sound Card), or better</li> <li>CEB-3963-W110 (Motherboard), or better</li> </ol> <p>D. The Ultrasound Transducer must have the following features:</p> <ol style="list-style-type: none"> <li>Configuration of not less than eight (8) Probes</li> </ol>			

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			2. 12-Crystal Transducer or its equivalent 3. With at least 0.96 inches, 128 x 64 Pixel 4. Organic Light-Emitting Diode (OLED) Display, or its equivalent 5. Rechargeable Li-ion Battery with the following Characteristics: <ul style="list-style-type: none"> <li>Nominal Voltage of at least 3.7V</li> <li>Nominal Capacity of at least 1600 mAh</li> <li>Continuous Working Time of at least eight (8) hours or longer</li> <li>Necessary Charge Time not longer than five (5) hours</li> </ul> 6. Display on the Screen includes the following: <ul style="list-style-type: none"> <li>Battery indicator</li> <li>Transducer Signal Strength</li> <li>Patient's Name in English, displaying up to 32 characters or more, including the blank spaces between words</li> </ul> 7. Wireless 8. Has Type BF classification for protection against electric shock (Applied Parts) 9. Has an IPX8 water-resistance			

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			<p>rating</p> <p>10. Transducer duration eight (8) hours or longer</p> <p>11. Distance of distinct vision twenty (20) meters or longer</p> <p>E. The Toco Transducer must have the following features:</p> <ol style="list-style-type: none"> <li>1. Configuration of not less than seven (7) probes</li> <li>2. With at least 0.96 inch, 128 x 64 Pixel</li> <li>3. Organic Light-Emitting Diode (OLED) Display or its equivalent</li> <li>4. Rechargeable Li-ion Battery with the following characteristics: <ul style="list-style-type: none"> <li>• Nominal Voltage of at least 3.7 V</li> <li>• Nominal Capacity of at least 1600 mAh</li> <li>• Continuous Working Time of at least eight (8) hours or longer</li> <li>• Necessary Charge Time not longer than five (5) hours</li> </ul> </li> <li>5. Wireless</li> <li>6. Has Type BF classification for protection against electric shock (Applied Parts)</li> <li>7. Has an IPX8 water-resistance rating</li> </ol>			

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			<p>8. Can display patient's name on transducer interface</p> <p>9. Transducer duration at least eight (8) hours or longer</p> <p>10. Distance of distinct vision twenty (20) meters or longer</p> <p>11. Display on the Screen includes the following:</p> <ul style="list-style-type: none"> <li>• Battery indicator</li> <li>• Transducer Signal Strength</li> <li>• Patient's Name in English, displaying up to 32 characteristics or more, including the blank spaces between words</li> </ul> <p>F. The Trolley must have the following features:</p> <ol style="list-style-type: none"> <li>1. Rotatable table board up to 360 degrees</li> <li>2. Transducer management circuit</li> <li>3. Table-board diameter at least 690mm-710mm</li> <li>4. Audio player circuit</li> <li>5. Able to support the following three (3) heights by manual adjustment <ul style="list-style-type: none"> <li>• (1020±50)mm</li> <li>• (970±50)mm</li> <li>• (920±50)mm</li> </ul> </li> <li>6. AC power supply interface</li> <li>7. Wi-Fi wireless Access Point (AP)</li> </ol>			

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			8. Configured with at least fifteen (15) transducer docking slots 9. Supplied with a storage container 10. Designed with four (4) wheels with brake  G. The Mouse Tray can be installed on the left side and right side of the trolley  H. The Peripherals include the following: 1. Built-in keyboard 2. Built-in speaker 3. Wireless mouse 4. External printer with the following features: <ul style="list-style-type: none"> <li>Print yield of up to 4,500 pages or higher for black-and-white, and 7,500 pages or higher for colour</li> <li>Able to print on paper sizes which include, but not limited to, A4, Letter and Legal (8.5 x 14")</li> </ul>			
			<b>Performance Specification:</b> A. FHR <ol style="list-style-type: none"> <li>Measurement Range at least 50 bpm - not more than 240 bpm</li> <li>Resolution at least 1 bpm</li> <li>Accuracy at least <math>\pm 2</math> bpm</li> </ol>			

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			4. Maximum Output Power not more than 15mW 5. Effective Radiating Area at least 942±15% mm <sup>2</sup>  B. TOCO 1. Range at least 0-100 2. No-linear Error at least ±10% 3. Resolution at least 1 4. Automatic and Manual Zero Mode  C. AFM 1. AMF Technique must be Pulsed Doppler Ultrasound 2. FM Mode must be automatic 3. AFM Mode must be Trace (default) or Black Mark 4. Display Range at least 0-999  D. RF Index 1. RF EIRP output power not greater than 20dbm 2. Frequency Range 2 GHz - 2.5GHz 3. Transmission Range (line of sight) not less than 20m 4. Transmission Rate approximately 10-12 Mbps 5. Channel Range at least 1-13  E. The Accessories must at least include the following:			

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			1. Twenty (20) pcs Transducer Belt, at least 95-105cm x 2-4cm 2. Five (5) pcs Ultrasound Gel, at least 200-400mL 3. At least 2 Reams of A4 Size paper 4. At least 50"-60" Size Slave Monitor			
<b>TOTAL APPROVED BUDGET FOR THE CONTRACT:</b>				<b>Php9,000,000.00</b>		

**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 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 Ninety (90) 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: One (1) year on parts and Two (2) years on services. Free quarterly preventive maintenance during the warranty period. Warranty Period shall commence from the date of acceptance by the end user after installation, testing and commissioning.
4. Signed service level agreement with the Philippine General Hospital.
5. Original hard copy (not photocopy) or soft copy of operators and service manuals in English Language.

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6. Product orientation for end users and troubleshooting training for at least two (2) biomedical engineers.
7. Quotation of the Annual Preventive Maintenance Cost after the warranty period expires.
8. Acceptance Procedures and Parameters: Visual and functional testing.

**C. Documents Required of the bidder to be submitted during Post-Qualification:**

1. Brochures/Technical data Sheet.
2. SEC registration to prove that the supplier is in the business of importing and supplying medical equipment.
3. Certified true copy of the Certificate of Distributorship for the last five (5) years. The principal and the local distributor must have been in business partnership for at least five (5) years.
4. Certificate that the Brand has been in the local market for at least five (5) years. Proof required: Invoices or Purchase Orders.
5. The brand must have been installed in at least ten (10) government and/or private hospitals. A list of the hospital and contact number must be submitted.
6. Certification by the supplier that at least one service engineer is available locally to provide quick on-site support
7. Certification that components of the system are of the same brand except when otherwise stated as "third party" in the specification.
8. List of local Service Center/s
9. Certificate of Performance Evaluation from the Single Largest Contract.
10. License to Operate (LTO) from the Philippine FDA.

**D. Documents required of the principal to be submitted during Post-Qualification**

1. Certification that the manufacturer has been in the business of manufacturing hospital equipment for at least 10 years.
2. Guarantee letter from the manufacturer to ensure availability of supplies, parts and accessories for at least five (5) years after expiration of the warranty period.
3. Certification by the principal that service engineers are factory trained on service and repair.
4. ISO compliance certificate of the manufacturer.
5. List of the manufacturer's office and contact details in the following territories: Western Europe, US/Canada and Japan.

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