

Proj. Ref. No.: **BAC1-2023-10-0080**  
End-User: **DIVISION OF PEDIATRIC GASTROENTEROLOGY- HEPATOLOGY  
AND NUTRITION-DEPARTMENT OF PEDIATRICS**  
Project: **SUPPLY, DELIVERY, TESTING AND COMMISSIONING  
OF ONE (1) UNIT METABOLIC MONITOR FOR  
INDIRECT CALORIMETRY**  
Contract: **SINGLE BID**

Opening of Bids: **01 December 2023**  
Total ABC: **Php4,000,000.00**

Item No.	Qty.	UOM	Item Description	Unit Cost	Quotations (all taxes included)	
					In Figures	In Words
1	1	Unit	<b>METABOLIC MONITOR FOR INDIRECT CALORIMETRY</b>	4,000,000.00		
			<b>Technical Specifications Metabolic Monitor for Indirect Calorimetry</b> <ol style="list-style-type: none"> <li>1. Able to measure the resting energy expenditure (REE) of both mechanically ventilated and spontaneously breathing individuals</li> <li>2. Suitable for both pediatric (weighing at least 10kg) and adult patients</li> <li>3. At least 10 inch TFT LCD color Display</li> <li>4. Easy-to-Use operation using navigation wheel, hard keys and/or touchscreen</li> <li>5. Can be connected to PC and printer thru USB, LAN or Bluetooth</li> <li>6. For spontaneously breathing subjects, can employ both canopy technique and facemask technique (for special patients, claustrophobic, etc)</li> <li>7. Can be used for mechanically ventilated patients receiving FiO2 up to 75%</li> <li>8. Unit should be portable and can be easily transported between rooms</li> <li>9. Has VO2 range: 10-1000 mL/min with VO2 accuracy of <math>\pm 3\%</math> or</li> </ol>			

Approved by:

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

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(Signature over Printed Name of President / Gen. Manager)

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			5mL/min 10. Has VCO <sub>2</sub> range 10-1000 mL/min with VCO <sub>2</sub> accuracy of $\pm 3\%$ or 5mL/min 11. Battery: Dual cell Lithium-ion battery capable of at least 3 hours of autonomy operation 12. Can be connected to a central station using standard wired connection using wireless connection. 13. With "demo" feature for staff training 14. Each unit must be delivered with the following: a. One (1) Main unit with at least 10 inch LCD screen b. One (1) cart with cylinder holder c. One (1) PC Core i5, Windows 10; 8g RAM; 256ssd; at least 22" monitor with mouse and keyboard d. One (1) inkjet printer e. One (1) mobile table for the PC and printer f. Calibration syringe 3 liters (resting/low flows) g. Gas, Metabolic mix (16% O <sub>2</sub> , 5% CO <sub>2</sub> , N <sub>2</sub> bal) - at least 2 pcs. h. Fifty (50) pcs starter kit for ventilated patients; each kit includes one (1) pc			

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			disposable flow sensor Flow-REE, one (1) pc FiO2 adapter to ventilator, two (2) pcs sampling lines, and one (1) pcs HMEF heat moisture exchanger w/ antibacterial filter i. Fifty (50) pcs starter kit for spontaneously breathing patients; each kit includes disposable canopy one (1) veil and one (1) antibacterial filter j. Two (2) pcs canopy hood (adult/large) k. Two (2) pcs canopy hood (pedia/small) l. Five (5) pcs silicone oro-nasal face masks with head cap (5 sizes, 1pc per size) m. One (1) Manual/unit n. One (1) pc power cord and uninterrupted power supply (UPS)			
<b>TOTAL APPROVED BUDGET FOR THE CONTRACT:</b>				<b>Ph4,000,000.00</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. Prototype equipment will be tested on actual patients for performance (eg. battery life, durability of the screen ).

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**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: Two (2) years on parts and 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. undertaking must be submitted.
5. Manuals: Original hard copy (not photocopy) or soft copy of operators manual in English Language.
6. Training: Product orientation for end users and troubleshooting training for atleast two (2) biomedical engineers for at least 3 days.
7. Quotation of the Annual Preventive Maintenance Cost after the warranty period expires.
8. Acceptance Procedures and Parameters: Visual and functional testing. Successful use of the equipment for at least one patient without any technical problems.

**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 three (3) years. The principal and the local distributor must have been in business partnership for at least three (3) years.
4. The Brand must have been in the local market for the past five (5) years. Proof required: Invoices or Purchase Orders.
5. The brand must have been installed in at least five (5) 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. List of local Service Center/s
8. Certificate of Performance Evaluation from the Single Largest Contract.
9. License to Operate (LTO) from the Philippine FDA.

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

1. Certification that the manufacturer has been in the business of manufacturing metabolic monitor for indirect calorimetry equipment for at least 10 years.
2. Guarantee letter from the manufacturer and local distributor to ensure availability of supplies, parts and accessories for at least ten (10) 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 document 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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