



Republic of the Philippines  
Department of Health  
**METRO MANILA CENTER FOR HEALTH DEVELOPMENT**

**SUPPLEMENTAL/ BID BULLETIN NO. 1**

**IB2024 – 040E  
PROCUREMENT OF ECG MACHINE. 12-CHANNEL WITH PEDIATRIC  
ELECTRODES**

This Supplemental/Bid Bulletin No. 1 is being issued to revise provisions/specifications in the Bidding Documents for a forecited project:

1. Query during Pre-bidding Conference:

Technical Specifications	Query	Response of the End User Unit
Capable of displaying 3/6/12-lead ECG waveform on one screen.	Capable of displaying 3/5 <b>or</b> 6/12-lead ECG waveform on one screen.- <b>for clarification</b>	Capable of displaying 3/5 or 6/12-lead ECG waveform on one screen. <b>RETAIN</b>
Capable of providing measurement results and auto-diagnosis for Heart Rate (HR), PR Interval, P Duration, QRS Duration, T Duration, QT/QTc Interval, P/QRS/T Axis, R(VS), S(VI), R(VS)+S(VI) amplitude, and Cornel Index.	Capable of providing measurement results and auto-diagnosis for Heart Rate (HR), PR Interval, P Duration, QRS Duration, T Duration, QT/QTc Interval, P/QRS/T Axis, R(VS), S(VI), R(VS)+S(VI) amplitude, and Cornel Index. Or its equivalent	Capable of providing measurement results and auto-diagnosis for Heart Rate (HR), PR Interval, P Duration, QRS Duration, T Duration, QT/QTc Interval, P/QRS/T Axis, R(VS), S(VI), R(VS)+S(VI) amplitude, and Cornel Index <b>or its equivalent</b>
Printed content must contain time, paper speed, sensitivity, calibration signal, name of lead, filter state, and patients' information	Printed content must contain time, paper speed, sensitivity, calibration signal <b>or its equivalent</b> , name of lead, filter state, and patients' information	Printed content must contain time, paper speed, sensitivity, calibration signal <b>or its equivalent</b> , name of lead, filter state, and patients' information
<b>Display:</b> Color LCD with resolution of at least 1280 x 800	<b>Display:</b> Color LCD with <del>resolution of at least 1280 x 800</del> removed	<b>Display:</b> Color LCD with a resolution of at least 1280 x 800 <b>or better</b>
<b>Printer</b> - With built-in thermal printer which supports Auto M*N, Auto M*N+1, Auto M*N+2, Auto M*N+3, rhythm M line, manual and other printing modes.  <b>Memory:</b> can store up to 4000 medical records	<b>Printer</b> - With built-in thermal printer which supports Auto M*N, Auto M*N+1, Auto M*N+2, Auto M*N+3, rhythm M line, manual and other printing modes <b>or its equivalent</b>  <b>Memory:</b> can store <b>at least 200</b> medical records with USB port - <b>for clarification</b>	<b>Printer</b> - With a built-in thermal printer that supports Auto M*N, Auto M*N+1, Auto M*N+2, Auto M*N+3, rhythm M line, manual, and other printing modes <b>or its equivalent</b>  <b>Memory:</b> can store at least 200 medical records with a USB port <b>RETAIN</b>
<b>Battery</b> - At least 5000 mAh built-in rechargeable battery and charging circuit that can last up to 10 hours during standby and 3 hours during continuous operation.	<b>Battery</b> - <del>At least 5000 mAh</del> built-in lithium ion rechargeable battery <del>and charging circuit</del> that can last up to <del>10 hours during standby</del> and 3 hours during continuous operation.	<b>Battery</b> -Built-in lithium-ion rechargeable battery that can last up to 3 hours during continuous operation or better.

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2. Changes in the Period of Completion:

**Completion Period:** The delivery, installation, testing and commissioning of the equipment and its accessories, including the training of end-users and maintenance staff must be completed with **60** calendar days upon receipt of Notice to Proceed.

Bidders are advised to use the **following attached forms and submit them together with all required documents for the submission of bids on the 14<sup>th</sup> day of June 2024, 9:00 AM:**

This Supplemental/Bid Bulletin No. 1 shall be integral to the Bidding Documents. All other provisions indicated in the bidding documents not affected by this Supplemental/Bid Bulletin No. 1 shall remain in effect.

For guidance and information of all concerned.

Issued this 7<sup>th</sup> day of June 2024 in MMCHD

Approved by:

SGD.

**JEREMIAS FRANCIS Y. CHAN, MD**  
Licensing Officer V / BAC Chairperson

## VII Technical Specification

Republic of the Philippines  
Department of Health  
Metro Manila Center for Health Development

### TECHNICAL SPECIFICATIONS

<b>Item No. 1</b>	<b>PROCUREMENT OF ECG MACHINE. 12-CHANNEL WITH PEDIATRIC ELECTRODES</b>	Qty./Unit	<b>2 UNITS</b>
Name of Manufacturer:			Country of Origin
Brand:			Model: (if applicable)
ABC: <b>360,000.00</b>			
PURCHASER'S SPECIFICATION			STATEMENT OF COMPLIANCE
<p>TECHNICAL SPECIFICATIONS:</p> <ul style="list-style-type: none"> <li>• <b>Features</b> <ul style="list-style-type: none"> <li>- Operates with touch screen and function buttons</li> <li>- Synchronized collection for 12-lead ECG, supports 12-lead and Cabrera-lead waveform</li> <li>- Adopts digital signal processing technology and get high-quality ECG via power frequency filter, baseline filter, EMG filter and Low-pass filter for ECG signals.</li> <li>- Capable of displaying 3/6/12-lead ECG waveform on one screen.</li> <li>- Capable of displaying HR value, print mode, sensitivity, paper speed, filter state, clock, battery level, background grid lines, measured data and interpretation information.</li> <li>- Capable of auto-measurement and auto-interpretation for routine ECG parameters.</li> <li>- Capable of providing measurement results and auto-diagnosis for Heart Rate (HR), PR Interval, P Duration, QRS Duration, T Duration, QT/QTc Interval, P/QRS/T Axis, R(VS), S(VI), R(VS)+S(VI) amplitude, and Cornel Index <i>or its equivalent</i></li> <li>- Must be powered by AC and DC</li> </ul> </li> <li>• <b>Display:</b> Color LCD <i>or better</i></li> <li>• <b>Printer</b> <ul style="list-style-type: none"> <li>- With built-in thermal printer which supports Auto M*N, Auto M*N+1, Auto M*N+2, Auto M*N+3, rhythm M line, manual and other printing modes <i>or its equivalent</i></li> <li>- Printed content must contain time, paper speed, sensitivity, calibration signal <i>or its equivalent</i> name of lead, filter state, and patients' information</li> </ul> </li> <li>• <b>Memory:</b> can store up to 4000 medical records</li> <li>• <b>Recording Paper:</b> high-speed thermal paper</li> <li>• <b>Sampling precision:</b> 24-bit</li> <li>• <b>Waveform data sampling frequency:</b> 1 kHz</li> <li>• <b>Connectivity:</b> Wi-Fi, LAN and USB connection</li> <li>• <b>Battery</b> <ul style="list-style-type: none"> <li>- <i>Built-in rechargeable battery that can last up to 3 hours during continuous operation or better</i></li> <li>- With battery overcurrent and overvoltage protection circuit.</li> </ul> </li> <li>• <b>Power Supply:</b> 220VAC, 50/60Hz</li> <li>• <b>Accessories:</b> <ul style="list-style-type: none"> <li>- 1 set of ECG Electrodes for Pedia</li> </ul> </li> </ul>			

- 200 pcs. of ECG Electro Pads for Pedia

**Requirements if awarded the Contract**

**1. Completion Period:** The delivery, installation, testing and commissioning of the equipment and its accessories, including the training of end-users and maintenance staff must be completed with 60 calendar days upon receipt of Notice to Proceed.

**2. Testing:** Prior to acceptance, the end user shall conduct a physical inspection and functionality test. The equipment must be functioning and must have no physical damage and defect.

**3. Training:** The supplier shall provide a training on the proper use and maintenance of the equipment to the end-users and to the hospital maintenance staff within 3 days upon the delivery of the equipment.

**4. Warranty**

a) Warranty certificate for two (2) years on parts and service. The supplier shall either repair or replace any item or part in the equipment that is found to be defective in material or workmanship under normal use. The warranty period shall commence from the date of acceptance by the end-user after testing and commissioning.

b) Preventive maintenance at least every six (6) months or according to the manufacturer's recommendations;

c) Corrective maintenance within five (5) calendar days upon notification from the end-user regarding equipment breakdown/defects.

d) The number of days where the equipment is unusable due to equipment defects/faults shall be added to the warranty period.

e) The supplier shall specify post-warranty comprehensive preventive maintenance costs including list and prices of major spare parts of the equipment for three (3) years after the warranty period.

**5. Notarized undertaking** that the supplier shall conduct the necessary corrective maintenance within five (5) calendar days upon notification of the equipment breakdown from the end-user. The undertaking shall include a statement that the number of days where the equipment is unusable due to defective material or workmanship, shall be added to the warranty period.

**6. Manuals:** The supplier must provide the end-user one (1) hard and one (1) soft copy of the following:

a) Service manual in English language

b) Operation manual in English language

**7. With "DOH-MMCHD HFEP" (Government Property not for sale) sticker in each unit.**

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Source of Fund: SAA 2023-02-000687 (HFEP 2023 ConAp)

Recipient: Mandaluyong City Medical Center