



**BIDS AND AWARDS COMMITTEE**

**INVITATION TO BID  
 IB NO. 2022-09-30 (32)**

**PROCUREMENT OF FETAL AND MATERNAL MONITOR**

1. The Caraga Regional Hospital (CRH), through the **GAA -CAPITAL OUTLAY HFEP**, intends to apply the sum of being the Approved Budget for the Contract (ABC) of **TWO MILLION SEVEN HUNDRED FIFTY THOUSAND PESOS ONLY ( PHP 2,750,000.00 )** to payment under the contract for the **PROCUREMENT OF VARIOUS MEDICAL EQUIPMENT-REBID**. Bids received in excess of the ABC shall be automatically rejected at bid opening and items below are subject for a competitive bidding, to wit:

| <b>FETAL AND MATERNAL MONITOR</b>  | <b>QTY</b> | <b>UNIT OF MEASURE</b> | <b>UNIT COST</b> | <b>TOTAL COST</b> |
|--|------------|------------------------|------------------|-------------------|
| <b>I. PHYSICAL SPECIFICATIONS</b>  | 5          | UNIT                   | ₱550,000.00      | ₱2,750,000.00     |
| 1. The operating voltage and line frequency must be 100~240 V AC 50/60 Hz  |            |                        |                  |                   |
| 2. Diagonal screen display must be 15.6" and should be touch screen and the screen resolution must be 1920 x 1080 pixels |            |                        |                  |                   |
| 3. It must have RS232, RJ45, HDMI, Antenna interface   |            |                        |                  |                   |
| 4. The ultrasound transducer should be wireless  |            |                        |                  |                   |
| 5. TOCO transducer should be wireless  |            |                        |                  |                   |
| 6. The length of the remote event marker must be 2.5 meters or higher  |            |                        |                  |                   |
| 7. The ECG cable length must be 0.55 meters or higher  |            |                        |                  |                   |
| 8. The SpO <sub>2</sub> cable length must be 2 meters or higher  |            |                        |                  |                   |
| 9. The NIBP cable length must be 3.3 meters or higher  |            |                        |                  |                   |
| 10. The temperature probe cable length must be 3 meters or higher  |            |                        |                  |                   |
| 11. The battery working time must be greater than or equal 2 hours   |            |                        |                  |                   |



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|--|--|--|--|--|
| 12. It must have built-in printer recorder   |  |  |  |  |
| 13. The monitor has capable of triplets monitoring   |  |  |  |  |
| <b>II. TECHNICAL SPECIFICATIONS</b>  |  |  |  |  |
| <b>1. FHR Parameter</b>  |  |  |  |  |
| i. The fetal heart rate measurement range must be range from 50 bpm to 240 bpm; and the resolution must be 1 bpm or lower; and the accuracy must be $\pm 2$ bpm                                      |  |  |  |  |
| ii. The ultrasound output must be $I_{sppa,3} < 190 \text{ W/cm}^2$ ; $I_{spta,3} < 94 \text{ mW/cm}^2$ ; $I_{ob} < 3.5 \text{ mW/cm}^2$ ; $I_{sata} < 20 \text{ mW/cm}^2$ ; $TI < 1.0$ ; $MI < 1.0$ |  |  |  |  |
| iii. The temperature rises of US probe, when applied to the patient, the transducer may warm slightly less than 10 degrees Celsius above ambient temperature.  |  |  |  |  |
| iv. The max output power of the transducer must be less than 15 mW   |  |  |  |  |
| v. The effective radiating area of the transducer must be $942 \text{ mm}^2 \pm 15\% \text{ mm}^2$   |  |  |  |  |
| vi. The dielectric strength of US transducer must be $400 \text{ V}_{rms}$   |  |  |  |  |
| <b>2. TOCO Parameter</b>   |  |  |  |  |
| i. The TOCO range must be range from 0 to 100 and the non-linear error must be $\pm 10\%$ and the resolution must be 1   |  |  |  |  |



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| ii. The baseline drift due to temperature changes must be 1 unit per minute per degrees Celsius in free air and 5 units per minute per degrees Celsius in underwater |  |  |  |  |
| iii. The zero mode must be configured automatic and manual.  |  |  |  |  |
| iv. The automatic must be TOCO value becomes zero or below lasting for 30 seconds  |  |  |  |  |
| v. The dielectric strength of TOCO transducer must be 4000 $V_{rms}$   |  |  |  |  |
| <b>3. MFM and AFM Parameter</b>  |  |  |  |  |
| i. The display range must be range from 0 to 999   |  |  |  |  |
| ii. The fetal movement mode must be automatic and manual   |  |  |  |  |
| iii. The AFM mode must be trace or black mark, the trace option must be default  |  |  |  |  |
| <b>4. Maternal ECG Parameter</b>   |  |  |  |  |
| i. The maternal measurement range of MEEG must be range from 30 bpm to 240 bpm; and the accuracy must be $\pm 2$ bpm; and the resolution must be 1 bpm               |  |  |  |  |
| ii. The maternal heart rate alarm limits must be range from 30 bpm to 240 bpm  |  |  |  |  |
| iii. The MEEG anti-electric shock type must be defibrillating-proof  |  |  |  |  |
| iv. The ECG waveform must be manual control ECG waveform display   |  |  |  |  |



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|--|--|--|--|--|
| v. The ECG falls off must be detect automatically  |  |  |  |  |
| vi. The differential input impedance must be greater than 5 megaohms   |  |  |  |  |
| vii. The display sensitivity must be 2.5 mm/mV, 5 mm/mV, 10 mm/mV, 20 mm/mV, 40 mm/mV  |  |  |  |  |
| viii. The electrode offset potential tolerance must be $\pm 500$ mV  |  |  |  |  |
| ix. The response time to charge in MHR   |  |  |  |  |
| 1. MHR range must be 80 bpm to 120 bpm within 7 to 11 seconds  |  |  |  |  |
| 2. MHR range must be 80 bpm to 40 bpm within 7 to 12 seconds   |  |  |  |  |
| x. The tall T-wave rejection ratio must be 1.5 mV T-Wave amplitude   |  |  |  |  |
| <b>5. SpO<sub>2</sub> Parameter</b>  |  |  |  |  |
| i. The measuring range of SpO <sub>2</sub> must be from 50% to 100%; and the resolution must be 1%; and the measuring accuracy must be range from 70% to 100%; and data update period must be 1 second |  |  |  |  |
| ii. The pulse rate measurement should be ranges from 25 bpm up to 300 bpm; and the resolution must be 1 bpm; and the accuracy must be $\pm 2$ bpm  |  |  |  |  |
| iii. The SpO <sub>2</sub> alarm limits must be range from 50% to 100%  |  |  |  |  |
| <b>6. NIBP Parameter</b>   |  |  |  |  |



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|   |  |  |  |  |
|---|--|--|--|--|
| i. The measurement must have systolic, diastolic and mean artery pressure                                   |  |  |  |  |
| ii. The method use in NIBP must be oscillometric  |  |  |  |  |
| iii. The measurement range must range from at least 20 mmHg to 235 mmHg; and the resolution must be 1 mmHg  |  |  |  |  |
| iv. The measuring time maximum must be up to 120 seconds  |  |  |  |  |
| <b>7. TEMP Parameter</b>  |  |  |  |  |
| i. The measurement ranges from 0 degree to 50 degrees Celsius and the resolution must be 0.1 degree Celsius |  |  |  |  |
| ii. The temperature unit must be in degrees Celsius or degrees Fahrenheit                                   |  |  |  |  |
| iii. The refresh time must be range from 1 to 2 seconds and the self-check test must be in 5 to 10 minutes  |  |  |  |  |
| iv. The measurement mode must be direct   |  |  |  |  |
| <b>III. ACCESSORIES</b>   |  |  |  |  |
| 1. Three (3) pcs US Transducer, Wireless  |  |  |  |  |
| 2. One (1) pc TOCO Transducer, Wireless   |  |  |  |  |
| 3. One (1) pc Marker  |  |  |  |  |
| 4. Four (4) pcs Transducer Belt   |  |  |  |  |
| 5. One (1) pc ECG Cable   |  |  |  |  |



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|   |  |  |                    |                      |
|---|--|--|--------------------|----------------------|
| 6. One (1) pc SpO <sub>2</sub> Sensor                           |  |  |                    |                      |
| 7. One (1) pc NIBP Cuff   |  |  |                    |                      |
| 8. One (1) pc NIBP Tube   |  |  |                    |                      |
| 9. One (1) pc Temperature Probe                                 |  |  |                    |                      |
| 10. One (1) pc Trolley  |  |  |                    |                      |
| <b>IV. CONSUMABLES</b>  |  |  |                    |                      |
| 1. One (1) pc Ultrasound Gel                                    |  |  |                    |                      |
| 2. Fifty (50) pcs ECG Electrodes, Disposable                    |  |  |                    |                      |
| 3. Ten (10) pcs Recording Paper                                 |  |  |                    |                      |
| <b>V. OTHER REQUIREMENTS</b>                                    |  |  |                    |                      |
| 1. ISO as being required for Medical Equipment                  |  |  |                    |                      |
| 2. Attached User's Manual                                       |  |  |                    |                      |
| 3. Attached Service Manual                                      |  |  |                    |                      |
| 4. Winning Bidder shall provide Trainings to the end-user       |  |  |                    |                      |
| 5. Warranty Period of atleast 2 years, in parts and in service. |  |  |                    |                      |
|   |  |  | <b>GRAND TOTAL</b> | <b>₱2,750,000.00</b> |

2. The CRH now invites bids for the procurement of the above-captioned project. Delivery of the Goods is required within the period specified under SECTION VI (Schedule of Requirements). Bidders should have completed, within two (2) years from the dated of submission and receipt of bids, a contract similar to the Project, equivalent to : a) At least two (2) similar contracts, and the aggregate contract amounts should be equivalent to at least **FIFTY PERCENT (50%) of the ABC** as required above as minimum requirement of Single Largest Completed Contract (SLCC)



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 IB NO. 2022-09-30 (32)**

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3. Bidding will be conducted through open competitive bidding procedures using a nondiscretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”. Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183. **This project has a delivery period of 60 calendar days from the Receipt of the Notice to Proceed.**
4. Interested bidders may obtain further information from the Bids and Awards Committee (BAC) Secretariat, at Procurement Section, Caraga Regional Hospital, Surigao City and inspect the Bidding Documents at the address given above during 8:00 AM – 5:00 PM, Monday to Friday.
5. A complete set of Bidding Documents may be acquired by interested Bidders on **SEPTEMBER 6, 2022 – SEPTEMBER 30, 2022 (BEFORE 9:00 A.M.)** from the address above and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount specified below:

| BIDDING SCHEDULE       |  |
|------------------------|--|
| PRE-BIDDING CONFERENCE | SEPTEMBER 16, 2022, FRIDAY @ 9:00 A.M. @ BAC Conference Room CRH @ 9:00 A.M. VIA GOOGLE MEET |
| OPENING OF BIDS        | SEPTEMBER 30, 2022, FRIDAY @ BAC Conference Room CRH @ 9:00 A.M. VIA GOOGLE MEET             |
| BIDDING DOCUMENTS      | PHP 5,000.00   |

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids. The following Philippine Bidding Documents can be accessed in the PhilGEPS, to wit:

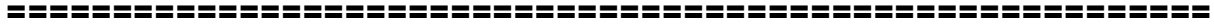
- a. Technical Specification / Terms of Reference
- b. Instruction to Bidders:



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**INVITATION TO BID  
 IB NO. 2022-09-30 (32)**

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- b.1. Documents to be submitted (Checklist- This will be discussed during the Pre-Bid Conference)
  - b.2. Memorandum of Undertaking – Provision thereof is strictly Implemented
  - c. GUIDELINES ON THE CONDUCT OF THE ELECTRONIC SUBMISSION AND RECEIPT OF BIDS BY THE PROCURING ENTITY – CARAGA REGIONAL HOSPITAL (CRH)
  - d. Philippine Bidding Documents
6. The CRH will hold a **Pre-Bid Conference on the above mentioned date, time and venue**, which shall be opened to prospective bidders. The Pre-Bidding Conference and Opening of Bids shall be conducted through videoconferencing, webinar or virtual. Please send your intent to participate to our email address as provided below.
  7. **Bids must be duly received by the BAC Secretariat at via designated email on or before SEPTEMBER 30, 2022 AT 9:00 A.M.** All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18. **Bid opening shall be on SEPTEMBER 30, 2022 AT 9:00 O’CLOCK IN THE MORNING** at the BAC Conference Room, Beside Procurement Office, Caraga Regional Hospital, Rizal Street, Surigao City as VIRTUAL / ELECTRONIC BIDDING. Bids will be opened in the presence of the bidders’ representatives who choose to attend at the address above. Late bids shall not be accepted.
  8. Furthermore, the standard Philippine Bidding Document (PBD) is form and part of this Invitation in accordance to RA 9184 and other applicable laws, rules and policy.
  9. The CRH reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.
  10. **The Opening and Receipt of Bids is strictly implemented through Electronic Submission.** Given the COVID-19 Pandemic, Procurement activity has been expedient and one of this is the Conduct of Electronic Submission of Bids. The CRH thru the Bids and Awards Committee (BAC) has submitted Certification, certified by the highest official managing the Information Technology, describing the electronic system or procedure to be used by the CRH for the electronic submission and receipts of bids and a statement that the same is compliant with the GPPB Resolution NO. 12-2020 requirements.
  11. Bidding documents shall be emailed to this email address, with activated password to: [crhbac2020@gmail.com](mailto:crhbac2020@gmail.com). You may deposit on line for the payment of the bidding documents to this account below:

|                        |                                     |
|------------------------|-------------------------------------|
| <b>BANK NAME:</b>      | LAND BANK OF THE PHILIPPINES        |
| <b>ACCOUNT NAME:</b>   | Caraga Regional Hospital-Trust Fund |
| <b>ACCOUNT NUMBER:</b> | 0982 -1288 – 70                     |





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- 12. Furthermore deposit slip shall be submitted via email to: [crhprocurement.bac@gmail.com](mailto:crhprocurement.bac@gmail.com)
- 13. The Procuring Entity will no longer accept nor entertain any form of Bids Submission except Electronic. Failure to comply electronic submission will be immediately disqualified. **Guideline on the Electronic Submission is hereby attached.**
- 14. For further information, please inquire to:

**BAC SECRETARIAT**  
 Procurement Section  
 Caraga Regional Hospital. Rizal Street, Surigao City  
 Tel. Nos. (086) 826-9058  
 Mobile Nos: **Globe:** 09056077915/ **Smart:** 09486649803  
 E-Mail Address: [crhprocurement.bac@gmail.com](mailto:crhprocurement.bac@gmail.com)

Approved by:

**HILARION P. PASAL, CE, SE**  
 Engineer III  
 Chairman, Bids and Awards Committee