



# MARGOSATUBIG REGIONAL HOSPITAI



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ᅟ	(0901)	141-4413

mrh\_gov@yahoo.com.ph/mrhgov@gmail.com

Margosatubig, Zamboanga	del Sur	BAGON
ov@yahoo.com.ph/mrhqov@gmail.com	http://mrh.do	oh.gov.ph

Date:	
Validity: 60 days	

#### Minimum Technical Requirements for **FETAL AND MATERNAL MONITOR**

#### **PRODUCT SPECIFICATIONS**

- Display
  - At least 15 inches
  - 1920 x 1080 Pixel
- Fetal heart rate
  - 0 Range
    - 50 240 bpm
  - Resolution
    - 1 bpm
  - Accuracy 0
    - ± 2 bpm
  - $I_{stpa}$
- <100 mW/cm<sup>2</sup>
- Output power
  - <15mW
- Effective radiating area (12 crystals)
  - 942 ± 15% mm<sup>2</sup>
- Dielectric strength
  - At least 4000 Vrms
- TOCO
  - Range 0
    - 0 100
  - Non-linear error
    - ± 10%
  - Resolution
    - **1**%
  - Dielectric strength
    - At least 4000 Vrms

PREPARED & REVIEWED BY

END USER: DESIGNATION:

JAMES CARLTY D. LABADAN, ECE

CHAIRPERSON

**KEVIN S. CATAGUE, ECE** VICE-CHAIRPERSON

JOEL L. LUNA MEMBER

IVAN PAUL L. TANO, ECE MEMBER

CRIS ABEL M. GUEVARRA, MPA

MEMBER

APPROVED BY:

RICHARD B. SISON, MD, MHA, FPCHA, FPSMS

Medical Center Chief II

FM-MCC-005

EFFECTIVITY DATE: APRIL 1, 2024

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#### Minimum Technical Requirements for **FETAL AND MATERNAL MONITOR**

- ➤ MFM & AFM
  - Display range
    - 0 999
  - FM mode
    - **Automatic**
    - Manual
  - AFM mode
    - Trace or black mark
  - AMF technique
    - Pulsed doppler ultrasound
- **MECG** 
  - MHR measurement range
    - 30 240 bpm
  - MHR measuring accuracy
    - ±2 bpm
  - Resolution
    - 1 bpm
  - MHR alarm limits
    - 28 243 bpm
- SpO<sup>2</sup>
  - Range 0
    - 50 100%
  - Resolution
    - 1%
  - PR measurement range
    - 30 240 bpm
    - Resolution: 1 bpm
    - Accuracy: ±30 bpm

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> Philhealth Accredited **REVISION: 7**

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Date:		
Validit	ty: 60 days	

#### Minimum Technical Requirements for FETAL AND MATERNAL MONITOR

- ➤ NIBP
  - Measurement
    - Systolic pressure
    - Diastolic pressure
    - MAP
  - Measurement method
    - Auto
    - Manual
- Recorder specification
  - > Paper
    - Z-fold thermosensitive
  - Paper width
    - Not wider than 152 mm
  - Printing width
    - At least 110 mm
- Transducers
  - Wireless transducer
  - Shock resistance at least 1.5 meter drop
- Power requirement
  - o 220-240Vac
  - Rechargeable lithium-ion battery (main unit)
    - Can last up to 2 hours
    - At least 5100 mAh nominal capacity
    - At least 300 battery cycle
  - Transducer
    - Rechargeable Lithium-ion battery
      - At least 8 hours working time
      - Wireless charging

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CHAIRPERSON

DESIGNATION:

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CRIS ABEL M. GUEVARRA, MPA

APPROVED BY:

FM-MCC-005

RICHARD B. SISON, MD, MHA, FPCHA, FPSMS Medical Center Chief II

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Date:	
Validity: 60 days	

#### Minimum Technical Requirements for FETAL AND MATERNAL MONITOR

- At least 1600 nominal capacity
- At least 300 life cycle
- Central monitoring system
  - o Hardware
    - CPU: at least i5 or equivalent technology
    - RAM: at least 8GB
    - SDD: at least 1TB
    - Operating system: windows 11
    - Display: at least 21 inches
    - Printer: inkjet with continuous ink system
    - UPS: at least 1.5KVA
    - Speaker
    - Computer desk and Stool
  - Software performance
    - Waveform storage and review: up to 24 hours
    - Trend: up to 1400 groups
    - NIBP measurement storage and review: up to 200 groups
    - Event list: up to 1000 groups
    - Record storage: up to 200,000 records
    - Alarm type
      - Physiological alarm
      - Technical alarm
    - Alarm mode
      - 3 levels audible and visual alarm
- Standard compliance
  - o IEC 60601-2-27:2011

RICHARD B. SISON, MD, MHA, FPCHA, FPSMS

Medical Center Chief II

FM-MCC-005

#### **STANDARD ACCESSORIES:**

APPROVED BY:				
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END USER: DESIGNATION:				
PREPARED & REVIEWED BY				

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Date:	
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#### Minimum Technical Requirements for FETAL AND MATERNAL MONITOR

#### **NOTE:** accessories sets is per unit

- Three (3) pieces US transducer (wireless)
- One (1) piece TOCO transducer (wireless)
- > One (1) piece marker
- > Four (4) piece transducer belt
- ➤ One (1) piece ECG cable
- > One (1) piece SpO2 sensor
- One (1) piece NIBP cuff
- > One (1) piece NIBP tube
- Uninterruptible power supply

#### STANDARD REQUIREMENTS UPON SUBMISSION OF BIDDING DOCUMENTS

Soft copy of user manual

#### REQUIREMENT/S IF AWARDED THE CONTRACT

- Unit must be BRAND NEW.
- Manual in English Language
  - 2 copy of Operation manual (Hard copy)
  - Service manual with soft copy
- Training Program
  - for end-user on equipment's operation with certificate
  - Technical training with certificate (When necessary)
- > Three (3) years warranty on parts and service after commissioning and acceptance
- > Certification on the availability of spare parts for the next 5 years
- Down time of machine will be added as extension of the warranty.

RICHARD B. SISON, MD,	MHA, FPCHA, FPSMS			
APPROVED BY:				
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Date: Validity: 60 days

#### Minimum Technical Requirements for **FETAL AND MATERNAL MONITOR**

- With calibration certificate (When necessary)
- Supplier must respond to a service call before 72 hours and should be onsite not more than 7 days.
- Section V. Special Conditions of the Contract
  - Delivery Place: Margosatubig Regional Hospital, Zamboanga del Sur
- Section VI Schedule of Requirements
  - Completion/Delivery Period: \_\_\_\_ calendar days upon receipt of the Notice to Proceed including the delivery, installation, testing and commissioning, Partial delivery allowed within the completion/delivery period.

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