



Republic of the Philippines  
Department of Health  
**MARGOSATUBIG REGIONAL HOSPITAL**  
Margosatubig, Zamboanga del Sur



(0981) 141-4419

[mrh\\_gov@yahoo.com.ph/mrhgov@gmail.com](mailto:mrh_gov@yahoo.com.ph/mrhgov@gmail.com)

<http://mrh.doh.gov.ph>

Date: \_\_\_\_\_

Validity: 60 days

Minimum Technical Requirements for  
**DEFIBRILLATOR MACHINE**

**PRODUCT SPECIFICATIONS**

➤ ECG

- 3, 5 and 10 leads
- Internal and external reusable paddles
- Loose lead indicator
- Size
  - 2.5 mm/mV
  - 10 mm/mV
  - 20 mm/mV
  - 40 mm/mV
- On screen speed of ECG
  - 25 mm/sec
- Frequency response
  - MAINS filter
    - 50/60Hz
  - Diagnostic
    - 0.05 – 150 Hz
  - Muscle filter
    - 0.67 – 40 Hz
  - On-screen response
    - 0.05 – 40 Hz
- Heart rate
  - 30 – 300 bpm
- Heart rate response time
  - From 80 – 40 bpm : 8 seconds
  - From 80 – 120 bpm: 5 seconds
- Alarm response time for tachycardia
  - 206 bpm (1mV): 3 seconds

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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

*Philhealth Accredited*  
REVISION: 7

FM-MCC-005

EFFECTIVITY DATE: APRIL 1, 2024



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Minimum Technical Requirements for  
**DEFIBRILLATOR MACHINE**

- 195 bpm (2mV): 3 seconds
- Alarms
  - Visual alarm
  - Sound alarm
    - General alarm
    - Unit ready for shock
    - Lead off alarm
- Defibrillator
  - Waveform
    - Truncated exponential biphasic
    - Output energy accuracy
      - $\pm 15\%$
    - Patient impedance range
      - 25 – 300 ohms
  - Manual defibrillator
    - Output energy
      - External paddle
        - 1 – 360 joules
    - Paddle
      - Reusable external paddles
      - Multifunction disposable electrodes
    - Charge control
      - Front panel button
      - External paddle button
    - Charging time
      - 5 seconds at 200 J
      - 7 seconds at 360 J
  - Automated defibrillator

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**DEFIBRILLATOR MACHINE**

- Output energy
  - 150 – 360 Joule  $\pm 15\%$
- Guiding messages
  - Audible and screen messages that guide the user during operation
- Charge indication
  - Charging tone
  - Charge complete tone
  - Flashing shock button on the front panel
- Shock control
  - Front panel button
- Detection characteristics
  - VF sensitivity
  - VT sensitivity
  - NSR specificity
- NIBP
  - Systolic pressure
    - Adult: 50– 250 mmHg
    - Pedia: 50 – 150 mmHg
  - Diastolic pressure
    - Adult: 30 – 190 mmHg
    - Pedia: 30 – 100 mmHg
- Screen
  - Not smaller than 170 x 120 mm screen size
  - TFT color with LED backlight
  - Resolution: at least 800 x 600 pixel
- Data storage
  - Compact flash removable external memory
  - At least 16 MB

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Minimum Technical Requirements for  
**DEFIBRILLATOR MACHINE**

- Power supply
  - 220 – 240 Vac
  - Battery
    - NiMH or better
    - Charging time not more than 3 hours
- Standard compliance
  - IEC 61000 – 4 – 2
  - IEC 61000 – 4 – 4
  - IEC 61000 – 4 – 11

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**STANDARD ACCESSORIES:**

**NOTE: accessories sets is per unit**

- Reusable electrode 5 packs
- Automatic voltage regulator

**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

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Minimum Technical Requirements for  
**DEFIBRILLATOR MACHINE**

- 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.
- 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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