



June 14, 2023

Validity: 60 days

Technical Requirements for
Defibrillator machine

Page | 1

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
 - 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
 - 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



- 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

STANDARD REQUIREMENTS UPON SUBMISSION OF BIDDING DOCUMENTS

- Soft copy of user manual

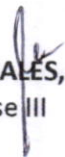
STANDARD ACCESSORIES: D1

- Reusable electrode 5 packs
- Automatic voltage regulator

REQUIREMENT/S IF AWARDED THE CONTRACT

- 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.
- With calibration certificate (When necessary)
- **Section V. Special Conditions of the Contract**
 - Delivery Place: Margosatubig Regional Hospital, Zamboanga del Sur
- **Section VI Schedule of Requirements**
 - Completion/Delivery Period: 60 calendar days upon receipt of the Notice to Proceed including the delivery, installation, testing and commissioning, Partial delivery allowed within the completion/delivery period.
 - Payment terms: Sixty (60) Calendar days.

PREPARED & REVIEWED BY


IVY REALES, RN
Nurse III



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

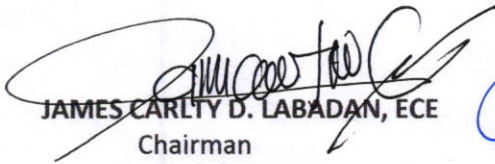


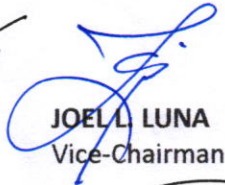
(0981) 141-4419

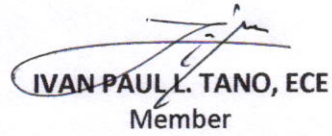
(062) 925-8033

mrh_gov@yahoo.com.ph / mrhgov@gmail.com

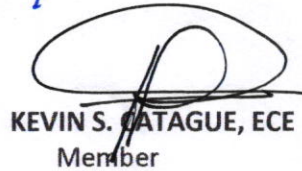
<http://mrh.doh.gov.ph>


JAMES CARLY D. LABADAN, ECE
Chairman


JOELL LUNA
Vice-Chairman

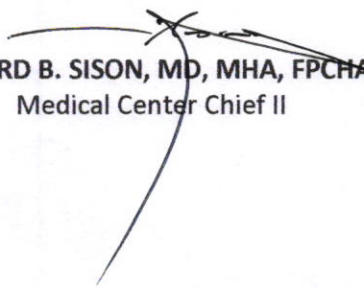

IVAN PAUL L. TANO, ECE
Member


CRIS ABEL M. GUEVARRA, MPA
Member


KEVIN S. CATAGUE, ECE
Member

Page | 4

APPROVED BY:


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

SPECIFICATIONS COMMITTEE