



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

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

Date: _____

Validity: 60 days

Minimum Technical Requirements for
Electrosurgical machine

PRODUCT SPECIFICATIONS

- Mode
 - Monopolar
 - At least 10 monopolar current
 - At least 2 active monopolar outputs
 - Bipolar
 - At least 7 bipolar current
 - At least 2 bipolar outputs
- Twin foot pedal
 - With IPX7 protection
- Neutral electrode alarm when loose contact with skin
- HF leakage monitoring
- Memory
 - At least 100 programs
- Power output
 - MONOPOLAR
 - Pure cut
 - Output: can reach up to 400 W
 - Voltage: can reach up to 3465 V
 - Frequency: 435KHz
 - Crest factor: 1.6
 - Blend 1
 - Output: can reach up to 300 W
 - Voltage: can reach up to 3595 V
 - Frequency: 435KHz
 - Crest factor: 2.3
 - Blend 2

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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
Electrosurgical machine

- Output: can reach up to 140W
- Voltage: can reach up to 7600 V
- Frequency: 435KHz
- Crest factor: 8.1
- A. Pure
 - Output: can reach up to 400W
 - Voltage: can reach up to 1470 V
 - Frequency: 435KHz
 - Crest factor: 1.6
- A. Blend
 - Output: can reach up to 300W
 - Voltage: can reach up to 1930V
 - Frequency: 435KHz
 - Crest factor: 2.3
- A. Endo
 - Output: can reach up to 250W
 - Voltage: can reach up to 1890 V
- Fulguration
 - Output: can reach up to 150W
 - Voltage: can reach up to 4700V
 - Frequency: 435KHz
 - Crest factor: 4.5
- Pin point
 - Output: can reach up to 250W
 - Voltage: can reach up to 3460V
 - Frequency: 435KHz
 - Crest factor: 2.6

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Minimum Technical Requirements for
Electrosurgical machine

- Soft
 - Output: can reach up to 280W
 - Voltage: can reach up to 3440V
 - Frequency: 435KHz
 - Crest factor: 2.5
- Spray
 - Output: can reach up to 140W
 - Voltage: can reach up to 7660 V
 - Frequency: 435KHz
 - Crest factor: 8.1
- BIPOLAR
 - Pure cut
 - Output: can reach up to 160W
 - Voltage: can reach up to 850V
 - Frequency: 435KHz
 - Crest factor: 1.5
 - Blend
 - Output: can reach up to 130 W
 - Voltage: can reach up to 1000 V
 - Frequency: 435KHz
 - Crest factor: 1.8
 - Micro
 - Output: can reach up to 130W
 - Voltage: can reach up to 450V
 - Frequency: 435KHz
 - Crest factor: 1.7
 - Precise

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Minimum Technical Requirements for
Electrosurgical machine

- Output: can reach up to 130W
- Voltage: can reach up to 760V
- Frequency: 435KHz
- Crest factor: 1.7
- Auto
 - Output: can reach up to 130 W
 - Voltage: can reach up to 450 V
 - Frequency: 435KHz
 - Crest factor: 1.7
- Macro
 - Output: can reach up to 130 W
 - Voltage: can reach up to 760 V
 - Frequency: 435KHz
 - Crest factor: 1.7
- Sealing
 - Output: can reach up to 130 W
 - Voltage: can reach up to 710 V
 - Frequency: 435KHz
 - Crest factor: 1.7
- Power supply
 - 220 – 240 Vac
- Standard compliance
 - DIN 42801

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Minimum Technical Requirements for
Electrosurgical machine

STANDARD ACCESSORIES:

NOTE: accessories sets is per unit

- AVR
- Trolley
- Spare filter
- Spare neutral electrode socket
- 10A fuse
- Metal connector for filter
- Twin footswitch pedal
- Bipolar cable
- Adaptor for plug size: 2-8mm
- Bipolar tissue forceps 18 cm 1.0mm straight
- Monopolar laparoscopy cable
- Cable for disposable neutral electrode
- Adaptor for USA-type neutral electrode
- Adaptor for valleylab/connected type

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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)

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Electrosurgical machine

- 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)
- 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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