



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  
**BIOSAFETY CABINET**

**PRODUCT SPECIFICATIONS**

- External dimension
  - Not larger than 1800x900x2100mm
- Internal work area
  - Not smaller 1200x650x650mm
- Gloves
  - 2
- Gloves
  - Butyl rubber gloves
  - Length: at least 800mm
- Air cleanliness
  - Main filter
    - Air supply filter
      - Efficiency: 99.99% at 0.3m
    - First exhaust filter
      - Efficiency: 99.99% at 0.3m
    - Second exhaust filter
      - Efficiency: 99.99% at 0.3m
  - Pre filter
    - Replaceable cleaning parts
- Noise
  - Initial fan speed setting
    - < 65dBA
- Illumination
  - ≥ 650 lux
- Main structure

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PREPARED BY:

END USER: \_\_\_\_\_  
DESIGNATION: \_\_\_\_\_

REVIEWED BY:

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:

JOVER C. PUNSALAN, MD, FPOA, FPSS, MSHHM  
OIC-Medical Center Chief

*Philhealth Accredited*  
REVISION: 7

FM-MCC-005

EFFECTIVITY DATE: APRIL 1, 2024



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Minimum Technical Requirements for  
**BIOSAFETY CABINET**

- 304 stainless steels
- 3mm steel plate overall welding
- External surface adopts electrostatic spraying
- Front window
  - Colorless
  - Transparent 8mm toughened explosion proof glass
- Work zone
  - Overall, 304 wire drawing stainless steel surface
- Pass box size
  - Internal size
    - not smaller than 450x350x400mm
  - External size
    - Not smaller than
      - 600x450x500mm
- Air velocity
  - One glove removes
    - Not less than 0.7 m/s
  - Gas volume flow rate of safety cabinet for per cubic meter
    - Not less than 0.05 m<sup>3</sup>/s
- Cabinet tightness
  - If cabinet pressurized
    - 500 Pa
  - The pressure drop
    - should not be less than 450 Pa for 30 minutes
- HEPA filter
  - Filter diameter
    - 0.3μ efficiency is 99.99%
  - Scan and detect HEPA filter

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Minimum Technical Requirements for  
**BIOSAFETY CABINET**

- Leakage rate at any point should not be > 0.01%
  - Do not scan and detect HEPA filter
    - Leakage rate at any point should not be > 0.005%
- Pressure difference display
  - Accuracy
    - $\leq 5\%$
- Withstand voltage
  - Increases to 1390Vac in 5seconds
- Grounding resistance
  - $\leq 0.1 \Omega$
- Control panel
  - LCD display
    - Not smaller than 128 x 64mm
  - Touch buttons
    - UV lamp
    - Fan control
    - Socket
    - Fluorescent lamp
    - Power
- Power requirement
  - 220 – 240 Vac

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**STANDARD ACCESSORIES:**

**NOTE: accessories sets is per unit**

- AVR

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Minimum Technical Requirements for  
**BIOSAFETY CABINET**

**STANDARD REQUIREMENTS UPON SUBMISSION OF BIDDING DOCUMENTS**

- Soft copy of user manual

**REQUIREMENT/S IF AWARDED THE CONTRACT**

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- 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.
- 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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