



**Indira Gandhi Memorial Hospital
Male', Republic of Maldives
Biomedical Engineering Department**

Technical Specification for Equipment

Equipment: Medical Refrigerator

Type: Upright Pharmacy Refrigerator with Data Logger

Capacity: 200L-300L

Temperature Range: +2°C to +8°C

Cooling System: Compressor-based forced air circulation

Temperature Control: Microprocessor-based digital thermostat with LED/LCD display

Defrosting: Automatic defrost

Refrigerant: R600a or environmentally friendly refrigerant.

Exterior Dimensions: W-600mm-700mm / D-700mm-800mm / H-1500mm-1800mm

Interior Layout: Stainless steel or Powder-coated steel interior compartments, including shelves, drawers, and storage options.

Door Type: Solid with magnetic gasket seal (Glass doors are preferable)

Data Logger: The refrigerator should be equipped with a built-in data logging system to record and monitor temperature conditions.

Data Logging Features: Should be with data logging system, such as temperature recording intervals, data storage capacity, and data retrieval options

Alarms and Alerts: The refrigerator should be equipped with audible and visual alarms to alert users in case of temperature deviations or other anomalies.

Display and Controls: The refrigerator should be featured with a digital display panel with intuitive controls for temperature adjustment and monitoring.

Power Requirements: Power Requirements: 220-240V, 50Hz, maximum 500-800 watts

Safety Features: The refrigerator should be designed with safety features like door locks and password protection to prevent unauthorized access.

Certification and Compliance: Should have relevant certifications or compliance standards the refrigerator meets, such as FDA, CDC, or industry-specific requirements.

Warranty: Minimum 24 months from the date of handing over/installation and commissioning