



**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-500mm-600mm / D-600mm-700mm / H-1200mm-1500mm

**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