

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

Technical Specification for Equipment

Equipment: Table top Fetal Doppler

1. Easy to use, lightweight and capable of operating on dual power supply, mains and built-in rechargeable internal batteries.
2. Should display Heart Rate display, Heart beat indicator, Power source indicator, charging indicator and low battery indicator. Practical touch panel with liquid crystal display that is easy to read.
3. Should have Upright transducer ($\Phi 35 \times 122 \text{mm}$ 50g). Waterproof probe
4. Approximate dimensions 220mm (W) \times 210mm (H) \times 120mm (D). weighs approximately 1.5-2.5kg.
5. Battery capacity should be able to operate for approximately 3hrs in full battery capacity. Battery should start automatically charging when operating on AC. Should give low battery alarm when battery low.
6. Ultrasonic frequency 2.5MHz.
7. Audible output 1W. Adjustable audio output level. Operation sounds and buzzer sounds should not affect the output.
8. Ultrasonic output less than $10 \text{mW} / \text{cm}^2$
9. Heart rate measurement range between 50-220BPM with an accuracy of $\pm 3 \text{BPM}$ per 220BPM.

Complete Set should consist of		
No	Name	Quantity
1	Main Unit	1
2	Wired Upright transducer	1
3	Connecting Cord	1
4	Power cord	1

10. Durable & user friendly

Power Supply: Line voltage 220-240AC, 50-60Hz and fitted with a 13amp plug.

Standards/Certification, Safety

Should be a CE / FDA Approved product and should have ISO standards, IEC Standards standards.

Warranty

Minimum 12 months from the date of handing over/installation and commissioning.

User/Technical/Maintenance manuals to be supplied in English and certificate of calibration and inspection.

