No. IV-21011/10/2010-Prov-I
Government of India
Ministry of Home Affairs

26, Man Singh Road, Jaisalmer House,
New Delhi, 16.8.2010

To,
The DGs: Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D

Subject:- Specifications of various Medical/Hospital Equipments - regarding

Sir,

The Specifications for the following Medical/Hospital Equipments have been accepted and approved by the Competent Authority in MHA and the same are enclosed for information and Record:-

1. Phaco Emulsification Machine-Annex-I
2. USG Colour Doppler-Annex-II
3. Eye Operating Microscope-Annex-III

2. Henceforth, all the CPMFs should procure the above items required by them strictly as per the laid down Specifications.

Yours faithfully,
(S.B.Nanda)
Under Secretary to the Govt. of India

Enclosures: as above

Copy to:- DD(Procurement), MHA

Copy for information to:- PS to JS(PM), MHA
Specification of Phacoemulsification

1. Fully programmable multiprocessor control system.

2. Light weight, autoclavable, Four piezoelectric crystal Hand piece with a frequency of 40Khz.

3. Should be compatible with new generation tips like, bent tips, flared tips, mini flared tips and aspiration bypass tips in 1.1 mm or 0.9 mm configuration.

4. Should have advanced fluidics with quick, smooth control and safety of peristaltic pump along with disposable cassettes.

5. Should have aspiration flow rate capabilities up to 60cc/min in both linear and fixed modes throughout all phaco/IA/Vit sub modes.

6. Should have facility to use vacuum level of 650+ mmHg in both linear and fixed modes throughout all phaco/IA/Vit.

7. Should have high resolution foot switch with fully programmable and adjustable to varying foot lengths.

8. Energy delivery modes should have sub modes for hyperpulse and burst.

9. Hyperpulse mode should have capabilities to go up to 100pps.

10. Should have variable duty cycle from 5% to 95% in hyperpulse mode.

11. Should have a safety of “Off time” limit in the burst mode.

12. Ability to drive a cutter for anterior vitrectomy up to 1500 cpm.

13. The System should be able to drive the hand piece, which could provide an oscillatory motion to the phaco tip(+/− two degree at 100 Hz) at Sonic Frequency as well.

14. Should have a wireless remote control.

15. Should have voice confirmation during mode changes.

16. Should have visual animations of setup and surgical sub modes.

17. Should have coloured LCD touch screen (tiltable).

18. Should have cart with motorized IV pole.

19. Should be able to support micro coaxial cataract surgery.
## Accessories

1. Phaco Hand Piece .......................... 2
2. Coaxial Irrigation Aspiration handpiece .......................... 1
3. Bi-manual Irrigation Aspiration set .......................... 1
4. Anterior Vitrectomy Hand Piece .......................... 1
5. Anterior Vitrectomy Cutter tips .......................... 3
6. Bipolar Forceps .......................... 3
7. Bipolar cable .......................... 3
8. Disposable cassettes .......................... 100
9. Phaco tip 30 degree straight .......................... 2
10. Phaco tip 45 degree bent .......................... 2
11. Irrigation Aspiration straight Tip .......................... 1
12. Irrigation Aspiration 45 degree Bent tip .......................... 2
13. Sleeves set .......................... 3
14. Metallic Wrench .......................... 2

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\[\text{Commandant}\]
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