

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, 8/09  
The DGs: Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSE/BPR&D  
P.B.N. 11/8/09  
8/09 2/06 12/09

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.

o/c  
Yours faithfully,

(S.B.Nanda)

Under Secretary to the Govt. of India


Encls: as above


Copy to:-DD(Procurement),MHA

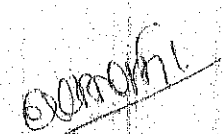
Copy for information to:-PS to JS(PM),MHA

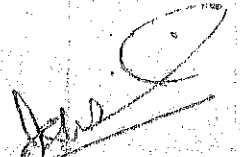
### Specification of Phacoemulsification

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 microcoaxial cataract surgery.

  
 5/10/09  
 आर्य समाज (सिद्धि) क्लब  
 Adol. D. C. (Medical), CPFS  
 आर्य समाज क्लब, सिद्धि नगर  
 IITP Camp, Tigr. N. Delhi-62

  
 Dr. R. K. Verma, Commandant

  
 M-I Dr. D. K. Verma, M.D.

  
 Co. Officer

## Accessories

1. Phaco Hand Piece	2
2. Coaxial Irrigation Aspiratin 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

✓  
P.O

Dr R.K. Kotwala  
CMO (SG)  
ITBP

सुदीप  
M-E

Dr D.K. Verma  
DC (Eye Specialist)  
ITBP

मि. टी.  
M-T

Dr Anand Singh  
SMD  
ITBP

डॉ. जे. सी. टी. एम.  
Co-opted

Dr J.S. T.M.  
R-P. Center  
Allahabad, New Delhi

~~Commandant~~  
Commandant  
T. T. D. Police  
T. T. D. Police

✓  
55/05/89

अपर महाविभाग (चिकित्सा) के प. स.  
Addl. D.G. (Medical), CPBS  
माहि. सी. अफिल कैंप, तिगरी नई दिल्ली-62  
ITBP Camp, Tigr, N. Delhi-62