Specification for Vitrectomy Machine 5000 Cuts/Minute to 7500 Cuts/Minute – 4 No.

Vacuum
1. Should have the facility to generate direct venture vacuum of up to 650 mmHg through cassette system having 2 independent aspiration ports.

CUTTER
1. Should have the ability to drive vertical guillotine vitrectomy cutter to go up to 7500 cuts / minute
2. Should have the facility to allow surgeon to select from 3 different duty cycle options at any given cut rate.
3. Should have the 3-D technology to linearly control vacuum and cut-rate simultaneously in vitrectomy mode

IOP Control
1. Should have the capacity to monitor infusion pressure constantly
2. Should have the capacity to compensate the infusion pressure constantly with results in a more stable IOP.

Illumination
1. The system should have at least dual port Xenon Illumination
2. The System should recognize the gauge of illuminator connected and adjust the illumination accordingly.
3. The system should have the facility to monitor the bulb life, to avoid surprises
1. The System should have RFID capacity, which recognizes the probe connected, and automatically loads the settings.

MIVS
1. Should have the capacity to support MIVS options like 23 G and 25G
2. Should have a single entry system

Laser Facility
1. Inbuild 532 green laser facility with 2 filters.

Other Features
1. The System should have the Automated Silicon Oil Injection Capability
2. The System should have the Automated Silicon Oil Injection Capability
3. The System should have Auto Fluid / Air Exchange
4. The System should have Auto Gas Fill (C3F8 and SF6) option
5. Should have the fully programmable footswitch with the facility to change procedural modes through footswitch.
6. Should have the facility of diathermy.
7. Should have the facility to digitally control the infusion pressure and the facility to toggle between a regular infusion pressure and an higher alternate pressure (to achieve tamponade effect) with the help of footswitch – VGFI Facility.
8. Should have the facility for the extrusion of sub-retinal fluid.
9. Should have the facility of voice re-confirmation
10. Should have programmability to store various parameters.
11. Should have the facility of fragmentation with the help of 4 crystal Ultrasound hand piece.
12. Phacofragmater handle a) 20G, b) 23G if available

The Pre-Bid meeting for this item will be held on 19/11/2012 at 3.30 PM at LT-6, 6th floor Dr. R.P.Centre, AIIMS. The firm who wants to participate on this tender they will attend the pre bid meeting.