

DR. RAJENDRA PRASAD CENTRE FOR OPHTHALMIC SCIENCES  
All India Institute of Medical Sciences  
Ansari Nagar, New Delhi-29

Ref. No. SO/RPC/Adv.Phaco/2015-16

Dated: 29.08.2015

**Subject: Purchase of Advance Phaco-emulsification Machine– 02 Nos. for Unit-III, Dr. R.P.Centre at AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.**

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As per decision taken/ approved by Competent Authority of Dr. R.P.Centre AIIMS for the purchase of subject cited equipment from M/s. Alcon Laboratories Inc., USA, on proprietary basis. The proposal submitted by M/s. Alcon Laboratories Inc., USA and PAC certifications are attached & uploaded on website.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within 15 days from the date of issue/uploading of the notification giving reference **SO/RPC/Adv.Phaco/2015-16**. The comments should be sent to Stores Officer, Dr. R.P.Centre at AIIMS on or before **15.09.2015 upto 12.30 P.M.**, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**Yours faithfully,**

**STORES OFFICER (RPC)**

**Encl: Related documents enclosed.**

- 1. PAC Certificate enclosed.**
- 2. Specification of equipment.**

## SPECIFICATION

### (A) Fluidics:

1. The System fluidics should allow the surgeon to preset the target intraocular pressure in the eye during surgery.
2. The System should detect and compensate for dynamic changes occurring in the fluidics (including irrigation pressure & aspiration pressure) to maintain the surgeon selected target IOP in the eye.
3. The System should allow excellent chamber stability to be maintained via less variation in pressure during the procedure compared to other systems.
4. Highly non-complaint tubing.
5. Slow venting of air in fluidics system.
6. Optical Pressure Sensor (OPS) to measure deflection of irrigation & aspiration pressure sensor diaphragms.
7. Dual Segment Pump with Advanced Fragmented Pump design
  - High Capacity
  - Low Pulsations (Waveform Cancelling)
8. Should have the facility to use vacuum level of 650 + mm Hg and reach Aspiration Flow Rates of 60 cc/min.

### (B) Phacoemulsification:

1. Torsional Hand piece and 'Intelligent Phaco' software facility and high efficiency 'Balanced Tip'
2. Capability to lperform MICS with sub 2.0 mm sizes
3. The System should indicate the Patient Eye Level(PEL) at tall times during the surgery.
4. The System should also give warning for the Irrigation Empty Bag
5. System should have the ability to drive Torsional Hand Piece with an oscillating frequency of 32Lhz.
6. The torsional handpeice should be able to drive latest generation Phaco tips like Kelman, Flared, Min flared and aspiration bypass (ABS) tips in both 1.1mm or 0.9mm configurations.

### (C) Other Features:

1. Autosert- Motorized/ Automated IOL injection
2. Ergonomic Wireless Footswitch
3. Facility for integration with "Digital Surgical Guidance" systems and also display of machine parameters and guidance parameters as Heads Up Display in the microscope as well by means of external accessory/ adaptation as described below.
  - Integration with Surgical Guidance System.
  - Seamless integration of guidance steps into the procedural sequence.
  - Phaco parameters overlay in surgeons ocular
  - Patient/Eye confirmation in the OR: registration of eye with respect to pre-operative reference image
  - Eye tracking and guidance overlay for
  - Capsularhexis/ Incision
  - IOL centration and/ or orientation
4. Facility to integrate "High Definition Media Center" archiving system when connected to the system.
  - HD Recording on built-in hard drive or USB
  - Centurion data embedded in each video frame
  - Wireless connection to Centurion
  - Basic editing capabilities
  - Remote Control
5. The system should be able to drive have 23ga anterior vitrectomy probe with highs peed cut rates of 4000 cpm.
6. System should have a wireless remote control for easy changing of functions etc during surgery, a full fledged Graphic User Interface (GUI) complete with voice feed back when parameters are changed etc.



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Fax : +91-80-4006 4800  
CIN No. : U33119KA1999FTC025496

Date: 22/06/2015

**To Whom-So-Ever It may Concern**

Subject: - **Proprietary Article Certificate (PAC) for Centurion Advance Phacoemulsification System**

This is to confirm that the **Centurion Advance Phacoemulsification System** is a **Proprietary Product** of our principals **M/S Alcon Laboratories Inc. Fort worth, Texas, USA** with the following salient/unique features:

**1. Ozil Torsional Hand piece with IP, Intelligent Energy Management System, for very high efficacy during anterior procedures, along with high efficiency "Balanced Tip" which accounts for the least heat generation at the wound site.**

**2. Intrepid Autosert Surgeon controlled Acrysof IOL injection system**

**3. Dual Segment Pump with Advanced Segmented Pump design**

- High Capacity
- Low Pulsations (waveform canceling)

**4. Optical Pressure Sensor (OPS)**

- Measures deflection of Irrigation & Aspiration Pressure Sensor diaphragms
- Reads 2D barcode with calibration info

**5. Irrigation Pressure Sensor (IPS) :-**

The System Fluidic detect and compensate for dynamic changes occurring in the fluidics system (Including Irrigation Pressure Detected at IPS & Aspiration Pressure detected at APS) to maintain the surgeon selected target IOP in the fluidics system comprising the eye as well.

The System Fluidics allow the surgeon to target intraocular pressure in the eye for the "system" during surgery .

**6. The system indicates the Patient Eye Level (PEL) at all times during the surgery .**



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7. Facility to integrate "**High Definition Media Center**" archiving system when connected to the system.

- HD Recording on built-in hard drive or USB
- Centurion data embedded in each video frame
- Wireless connection to Centurion
- Basic editing capabilities
- Remote control

8. Facility for integration with "**Digital Surgical Guidance**" systems and also display of machine parameters and guidance parameters as **Heads Up Display in the Microscope** as well by means of external accessory /adaptation as described below.

- Integration with Surgical Guidance System
- Seamless integration of guidance steps into the procedural sequence
- Phaco parameters overlay in surgeon's ocular
- Patient/Eye confirmation in the OR: registration of eye with respect to pre-operative reference image
- Eye tracking and guidance overlay for
- Incision
- Capsularhexis
- IOL centration and/or orientation

9. The System is able to drive **23 Ga Anterior Vitrectomy Probe** with high speed cut rates of **4000 CPM**.

10. The system also gives warning for irrigation Empty Bag.

**The declarations is being issued for Tender Process.**

**For Alcon Laboratories India Pvt. Ltd,**

  
**Amit Saxena**  
**(Zonal Sales Manager – Key Accounts)**