

OFFICE OF THE DIRECTORATE OF HEALTH AND FAMILY WELFARE PUNJAB
(PARIVAR KALYAN BHAWAN SECTOR 34, CHANDIGARH)
STATE HEALTH SOCIETY (NPCB)

CORRIGENDUM

Bid Ref. NoM&E(NPCB)-Pb.-2011/1 dated 07-12-2011 published on 09-12-2011

A notice inviting tender for Procurement of machinery and Equipment other Hospital materials under National Programme for Control of Blindness published in the leading newspaper on 09-12-2011. A pre bid meeting/conference in of above tender was held on 19-12-2011 at 11.00 AM. Some changes in Specific Terms and Conditions were made during the pre-bid meeting. Proceedings of the meeting detailing the amendments made in Specifications/ Terms and Condition been uploaded on the web site www.pbhealth.gov.in. All the interested bidder download the proceedings of the pre bid conference from the web site www.pbhealth.gov.in.

State Programme Officer (NPCB)
Directorate of Health and Family Welfare, Punjab.

Proceedings of the Pre-bid meeting regarding tender for supply of Machineries & Equipments for State Health Society (NPCB) held on 19.12.2011 at 11:00 AM in the Room No. 320 of Parivar Kalyan Bhawan, Sector 34-A, Chandigarh.

A Pre-bid meeting regarding tender for supply of Machineries and Equipments for State Health Society (NPCB) was held on 19.12.2011 at 11:00 AM in Room No. 320 of Parivar Kalyan Bhawan Sector 34-A, Chandigarh:

A) Following officers attended this meeting:-

- 1) Dr. Shashi Khara, Deputy Director Store Purchase.
- 2) Dr. Rajesh Sharma, Joint Director (Proc.) O/o PHSC Mohali.
- 3) Sh. Piara Ram, Joint Controller (F&A) O/o DHS Pb.
- 4) Dr. Rakesh Kumar, Asstt. Director-cum-S.P.O, S.H.S. (NPCB)
- 5) Dr. Dharamveer Chalia, HOD Eye Deptt. GMCH, Patiala.
- 6) Dr. R.K Bansal, Asstt. Professor, Eye Deptt. , GMCH, Sector-32, Chd.
- 7) Dr. Neeti Singla, Medical Officer, O/o DHS Punjab.
- 8) S. Harbans Singh, Supdtt. (SP Branch) O/o DHS Punjab.

B) Following prospective bidders attended this meeting:-

- 1) Sh. Abhinav Dhawan M/s Toshbio Medicals Pvt. Ltd, New Delhi.
- 2) Sh. Sandeep Rajput M/s Joy Vision SCO 76 Sector 20-C, Chandigarh.
- 3) Sh. Krishan Sharma M/s Carl Zeiss India Pvt. Ltd., Bangalore.
- 4) Sanjeev Rana/Jatinder Pal Singh M/s ALCON LABS Ltd., Bangalore.
- 5) Sh. Jaspreet Singh M/s Rockwell Industrial Plants Ltd. VPO Sarsini Lalru, Punjab.
- 6) Sh. Shelender Manocha M/s Deepak Enterprises F-26, Okhla Industrial Area New Delhi.
- 7) Sh. Manish Dhawan M/s Towa Sales Corporation 223, Okhla Ind. Estate New Delhi.

The meeting began with a welcome note by Dr. Shashi Khara, Deputy Director, (SP) and the prospective bidders were apprised about the requirements, important tender conditions, procedure for submission of bids and generally committed errors by bidders while submitting bids. Thereafter prospective bidders were requested to ask for any clarifications/queries one by one starting with the terms and conditions of tender and specifications/formulations of items.

Clarifications sought/submissions made by the bidders and the clarifications issued were as under:

Sr. No.	Query raised/ Clarification Sought	Clarification given by the PHSC Committee
1.	Delivery period should be increased from 45 days to 60 days.	The committee conceded to this demand. Delivery period should be increased from 45 days to 60 days.
2.	Oral as well as written queries were raised by the representatives of the various firms present in the pre bid meeting regarding technical specifications of equipments which are placed at Flag A to J.	Detailed discussions were held by the committee members present in the pre-bid meeting .Some of the suggestions which were received from the prospective bidders were incorporated in the specifications of the equipments. The committee members are of the view that revised specifications of the equipments will encourage better competition, which is in the favour of Department. So the committee recommended that the amended specifications of all equipments should be uploaded on the web site of the Department. The revised specifications of the equipments are placed herewith at Revised Annexure 5 (Appendix 1 to 22)

There was no other query from any of the prospective bidders and the meeting concluded with thanks note by Dr. Shashi Khara, Deputy Director (SP).

Submitted for further action please.

(Harbans Singh)
Superintendent O/o D.H.S.Pb.

(Dr. Niti Singla)
Medical Officer O/o DHS Pb.

(Dr. Rakesh Kumar)
Asstt. Dir. -cum-SPO (NPCB)

(Dr. R.K. Bansal)
Asstt. Professor, (Oph.
Deptt.), GMC, Patiala.

(Dr. Dharmvir Chalia)
HOD (Optth. Deptt.),
GMCH Sector 32, Chad.

(Sh. Piara Ram)
Joint Controller (F&A)
O/o DHS Pb.

(Dr. Rajesh Sharma)
Joint Director (Proc.), PHSC, Mohali.

(Dr. Shashi Khera)
Deputy Director (SP) O/o DHS Pb.

Technical Specification of Ophthalmic Refraction Unit

Required ophthalmic features:-

1. One fully upholstered elegant ophthalmic chair
 - With full motorized recline facilities
 - With full motorized up and down movement for 250-mm or more
2. One stand and console:-7
 - With illuminated soft light for examination
 - With controls for ophthalmic chair, for recline and up & down movements, back and forward movement. One foot pedal for the up and down movement is also required.
3. Required base dimensions and Floor Space

Base Dimension	Floor Space required
Height	7.6”
Length	after reclining 9.6”
Width	4”
Input voltage & power	220/230V
Output	3V, 6V, 12V
4. Accessories required:-
 - 1) Trial lens set with full spherical and cylindrical lens, prism and accessories:1
 - 2) Trial Frame with 4 slots: 1
 - 3) Distance Vision Horizontal Drum: 1
 - 4) AutoRefractometer with following features :
 - Min Pupil distance : 2 mm
 - Measuring range : Sphere - 20 to + 20 D in .12 D steps and Cylinder : - 8 to + 8 in 0.12 D steps
 - Pupil distance : 45 – 85 mm
 - Vertex distance : 0 , 12 , 13.75 mm
 - Supplied with 10 paper rolls
 - Should be latest ISO/CE certified

Warranty:2 yrs on unit and auto refractometer

CMC: 5 yrs after on unit and auto refractometer

NOTE: The above mentioned specifications are general and not specifically suited to a particular company/brand.

SPECIFICATIONS FOR KERATOMETER BAUSH AND LOMB TYPE

It should be

- Coincidence focusing system, Positive measurements to 0.2 mm accuracy
- 15 X wide-angle piece
- One position instrument. Measures both meridians without changing optical system
- Simple vertical adjustment to fit patient
- Two-way adjustable head and chin rests
- Dual eye-level sighting system. Facilitates horizontal alignment
- Positive fixation. Permits rapid measurement of central corneal area
- Precision objectives, Assures durability, Achromatic Lenses
- Measurement range : Radius of curvature, 9.4-6.4 mm (in 0.05 mm steps), Dioptre 36-52 (in 0.25 steps)
- Extra Bulb : 5
- Motorised table for keeping Keratometer
- Warranty : 2 yrs
- CMC : 3 years
- ISO/CE certified

Note : The specifications of all the above items are General and are not tailor made to suit any particular brand.

Technical Specification of Slit Lamp (INDIAN)

The Slit Lamps based on Haag Streit design to provide a high-resolution solution for anterior segment documentation and archiving.

Type	Galilean magnification changer with converging binocular tubes
Magnification selection	5 steps by drum rotation
Eye piece	10X/12.5X
Magnification ratio	6X to 40X
IPD Adjustment	52 to 90mm with power range \pm 8D
Slit Width	Continuous from 0 to 8mm or more
Slit Length	Continuous from 0 to 8mm or more
Slit Angle	0 to 180 degree with horizontal scanning capability
Filters	Blue, Red-Free, Amber UV Cut
Illumination Lamp	12V, 30W halogen lamp
Fixation Target	Red LED
Longitudinal Movement	90mm or more
Lateral Movement	100mm or more
Vertical movement	30mm or more
Vertical Movement Chin rest	60 to 80mm
Power Input	220 to 240 V/50 to 60Hz
Table	Original Hydraulic/Motorized with foot control
Accessories	dust cover :1, Spare bulbs:10, Applanation Tonometer:1, Focusing Rod:1
Product LATEST ISO/CE Certified	
Warranty	2 yrs
CMC	5 yrs after 2 yrs of warranty

The above mentioned specifications are in general and do not specifically suited to any particular company or brand.

Technical Specification of Streak Retinoscope (IMPORTED)

1. Hand Held Streak Retinoscope with XL 3.5 V Halogen lamp.
2. Rechargeable handle which can be directly plugged in AC supply for recharging
3. Simple operation with knurled thumb screw. The line and spot image can be focused with the operating element and turned 360°.
4. Holder for hanging and fixing the fixation card into position for dynamic retinoscopy.
5. Bayonet fitting for fast and secure attachment to the handle.
6. Accessories: Original Manufacturer Hard Plastic case(1),Original Rechargeable battery (1) and fixation cards for dynamic retinoscopy (2), Original Spare bulbs (10)

The equipment should be CE/FDA certified.

Warranty : 2 yrs

The above mentioned specification are in general and do not specifically suited to any particular company or brand.

Technical Specification of Slit Lamp (IMPORTED)

The Slit Lamps based on Haag Streit design to provide a high-resolution solution for anterior segment documentation and archiving.

Type	Galilean magnification changer with converging binocular tubes
Magnification selection	5 steps by drum rotation
Eye piece	10X/12.5X
Magnification ratio	6X to 40X
IPD Adjustment	52 to 90mm with power range $\pm 8D$
Slit Width	Continuous from 0 to 8mm or more
Slit Length	Continuous from 0 to 8mm or more
Slit Angle	0 to 180 degree with horizontal scanning capability
Filters	Blue, Red-Free, Amber UV Cut
Illumination Lamp	12V, 30W halogen lamp
Fixation Target	Red LED
Longitudinal Movement	90mm or more
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Vertical movement	30mm or more
Vertical Movement Chin rest	60 to 80mm
Power Input	220 to 240 V/50 to 60Hz
Table	Original Hydraulic/Motorized with foot control
Accessories	dust cover :1, Spare bulbs:10, Applanation Tonometer:1, Focusing Rod:1

Product CE/FDA Certified	
Warranty	<i>Two years on site warranty</i>
CMC	5 yrs

The above mentioned specification are in general and do not specifically suited to any particular company or brand.

Specifications for Eye Operating Microscope (IMPORTED)

1. Apochromatic optics
2. Step zoom range 4X-21X
3. Motorized Foot Pedal for Focusing and X-Y
4. Adjustable Pupillary Distance of Eye Pieces from 55-75 mm
5. Coaxial illumination for Good red reflex through fibre optic cable
6. Variable illuminates facility
7. Floor stands with rollable castors with lock facility
8. With Retinal protection device and built in filters
9. Objectives, High quality, apochromatic objective with anti reflective coating, 175-200 mm focal length, (minimum)
10. Eye Pieces : High eye points wide field screw type eye pieces 10X/12.5 with 17 mm field of view, diopteric setting +5D to -5D
11. Six spare halogen bulbs.
12. Constant voltage transformer UPS 1 KV.
13. Origin :- The equipment must be LATEST ISO 9001/CE approved
14. Electric input should 220-240 V
15. Set of sterilizable caps : 3 set
16. Dust cover : 1
17. Extra Fuse : 10
18. The equipment should be LATEST ISO / CE certified
19. Light source Halogen.
20. Should be CE/FDA Certified.

Warranty : Two years on site warranty

CMC – 5 years

Note : The specifications of all the above items are General and are not tailor made to suit any particular brand.

Technical specification of Hand Held IOP Measurement Device
(Tonometer)

Specifications:

1. Based on micro strain gauge technology with 1.0mm transducer tip. The device displays the average of 10 independent readings.
2. Dimension: 6 1/4" x 3/4" x1 3/4"
3. Weight: 71 g, hand held
4. Transducer: Micro Strain Gauge
5. Range of measurement: 5-55mmHg
6. Power source Battery pack
7. LCD screens on both side
8. Disposable Caps: 50
9. Should be CE/FDA Certified.

Warranty : Two years on site warranty

CMC – 5 years

NOTE: The above mentioned specifications are general and not specifically suited to a particular company/brand.

Technical Specification of Specular Microscope (Imported)

Clinical Specular Microscope with three modes	Auto , Semi-Auto and Manual	
Color LCD Screen	5.6 inches	
Chinrest	Adjustable, Motorized	
Photographic Coverage	0.25 × 0.5mm	
Capturing Magnification	150 X	
Pachimetry Measurement	0.01 mm step	
Working Distance	25mm	
Flash Intensity	High / Low	
Fixation Targets	1 central	4 Peripheral (S, T, I, N / 12, 2, 6, 10 o'clock)
Photo mode	Auto / Semi-auto / Manual	
Image Memory	5 images for each eye (total 10 images)	
Monitor	5.6 " Color LCD	
Base Travel	X ±46mm, Y ±14mm, Z ±20mm	
Head Travel	X ±10mm, Y ±14mm, Z ±10mm	
Power Voltage	220V - 240V	
In Built Printer	Thermal	

Accessories:

1. Motorized Table with foot control
2. Print Rolls : 10
3. Dust Cover : 1

The above mentioned specification are in general and do not specifically suited to any particular company or brand.

Should be CE/FDA Certified.

Warranty : Two years on site warranty

CMC – 5 years

Specification For A-Scan Biometer (IMPORTED)

1. Probe :- Frequency – 10MHz, Soft probe
Fixation – Internal LED
2. Measurement Mode : Automatic, Manual, for Aphakic, Pseudophakic & Cataract Mode
3. IOL Power Calculation Formulae :- – SRK-T, SRK – II, HOLLADAY, BINKHORST, HAIGIS, HOFFER-Q
4. Facility of axial length measurement with contact and immersion mode.
5. Facility to input IOL constants (minimum 8) and surgeon parameters(8)
6. Accuracy of measurement $\pm .1$ mm
7. Printer : In built/integrated

Accessories :- Standard accessories ; Foot pedal 1, Power cord 1, Test Chamber 1, Immersion cap 2, In build thermal Printer :-

Should be CE/FDA Certified.

Warranty : Two years on site warranty

CMC – 5 years

Note : The specifications of all the above items are General and are not tailor made to suit any particular brand.

Specification of Direct Ophthalmoscope (Imported)

1. Halogen light source for bright white light.
2. Very good Optical system with spherical optics.
3. Optics should be maintenance free.
4. Should have 6 different kinds of apertures and red free filter.
5. Lens Range:
+1D to +36D

-1D to -36D
6. Handle with Rechargeable Battery of large size (should not be pocket model).
7. Original carry case.
8. Spare Bulbs: 2
9. Should be CE/ FDA Certified.
10. **Warranty for 2 years.**

NOTE: The above mentioned specifications are general and not specifically suited to a particular company/brand.

Specification of A/B Scan (IMPORTED)

Should be compact, touch panel display, color LCD display.

Should have minimum 8.4 inch TFT colour LCD display

Should be supplied with built-in or external printer for easy loading and auto cutter.

Should have facility of RS-232 port for LAN communication and for USB Memory.

Technical specification:-

A/B Scan

Probe	10 to 12 MHz transducer, 25 frames/sec
Scan angle	Variable scan angle 0-60D
Scan depth	0-60 mm
Sector line density	384 lines X 512 sample/line
Zoom	2.5 to 5.0 X
image record	Approx. 20 sec and 4 image display
Scale	Color, Gray scale 256 levels
Gain / TGC	0-90 dB variable / 0 to -20 dB variable
Gain curves	Log, Liner, S-Curves or equivalent
Dual Caliper facility for measurement of various structures	

Biometry

Probe	10 Mhz solid probe
Internal fixation	LED (Red),

Measurement facility for	Axial length, Anterior Chamber depth, Lens thickness
Accuracy	±0.05 mm
Axial length measurement range	12-40 mm
Minimum IOL calculation step	0.5 D
IOL calculation formulas	SRK-t, SRK 11, Holladay, Binkhorst, Haigis, Hofer Q

Standard accessories

A/B scan probe, foot switch, test piece, printer paper rolls (10), power cord, ultrasonic gel (3), dust cover, spare fuse (3).

Should have power supply 220 Volts/ 50 Hz

Should be CE / FDA Certified.

Warranty : Two years on site warranty

CMC – 5 years

Note : The specifications of all the above items are General and are not tailor made to suit any particular brand.

Specification of Vitrectomy Machine (IMPORTED)

1. Vitrectomy:

Should have peristaltic with venturi effect or venturi pump controlled with microprocessor

Linear Microprocessor control for optimum aspiration flow rates over the entire cutting range and optimum combination of efficient vitreous removal and multiple surgeon input data facility Should be pneumatic & magnetic drive for anterior and posterior vitrectomy. Should have cut rate of pneumatic cutter 2500 cuts/or more/min. Should have linear, single cut and fixed control of cutting frequency for vitrectomy. Audio signal or beep for infusion, aspiration, vacuum, ultrasound and diathermy. Air fluid exchange 0-120 mmHg controlled by foot switch or panels. Should be provided with compatible internal or external oil free compressor for medical grade air exchange Peristaltic pump with venturi effect 0-600 mmHg flow rate 1-50ml/min for peristaltic pump Venturi pump 0-600mmHg Machine should have integrated programmable motorized IV/VGFI pole with original carriage/trolley. Facility for 23G vitrectomy

2. Viscous fluid injection for silicone oil:-

Should have pneumatic drive for viscous fluid injection

Should have viscous fluid extraction 1000- 5000 centistokes

Should have factory preset pressure Airpump :High For injection of 5000 cst. fluids

Low For Injection of 1000 cst fluids

3. Dual Fiber Optic Illuminator:-

Should have integrated/external dual light source ;halogen, xenon, LED or metal halide source

Should be High/Low intensity control.

Should be integrated high intensity lens system for improved light output

Should be integrated heat protection filter for cold light and UV/IR filtering

4. Diathermy

Should have high frequency diathermy for endo and exo diathermy

Should be highly selective burn placement on retina and sclera

Should be suitable for bipolar and monopolar diathermy accessories

Should have linear diathermy power control by main footswitch

Should have On/Off diathermy power control by footswitch.

5. Phaco Emulsification and Fragmentation

Should be dual control of linear aspiration and linear phaco power.

Should be supplied with light weight handpiece for both emulsification and fragmentation.

Should have 28-40 KHz phaco emulsification (anterior) and phaco fragmentation (posterior) procedures.

Should have linear phaco mode 1-40 pulse/sec

Should have continuous auto tuning

Should be excellent intraocular flow and tissue control by dual linear functions: linear aspiration and followed by linear phaco power.

6. Footswitch

Should have dual linear control of aspiration and phaco/vitrectomy

Should be ergonomic design footswitch for control of all (linear) functions.

Should be dual linear footswitch functions with simple downwards movement

7. Remote control for changing the parameters. Machine must have facility of wireless remote control

8. Accessories

9. 1. Pneumatic cutters:20G and 23G: 10 each
2. Endodiathermy: 20G and 23G: one each
3. Endoilluminator 20G and 23G: 10 each
4. Air delivery line with filter: 10
5. Silicone application for visco silicone oil exchange: 10
6. Frigmatome tips 20g and 19G: one each
7. Infusion terminal 4mm :10
8. 23G trocar set: 10
9. Phaco hand piece/frigmatome: two
10. Phaco tips: 0-30 D: 1.8mm, 2.2mm, 2.8mm : 2 each
11. Phaco sleeves: 10
- 12 Test chamber:10
13. IA tips coaxial 1.8mm, 2.2mm, and 2.8mm : one each
14. IA cassetts/tubings: Autoclavable: 3
15. Phaco wrench: one

Should be CE/FDA Certified.

Warranty: Two years on site warranty

CMC: 5 years

Should be supplied with CVT/UPS as per requirement of the machine.

Note : The specifications of all the above items are General and are not tailor made to suit any particular brand.

Technical specifications for Motorized O.T. Table with Motorized Surgeons Chair (INDIAN)

MOTORIZED O.T. TABLE:

- SPRING CONTROL LEVELING FOR TILTING POSITION
- THE ADJUSTABLE CUSHIONED HEAD REST COMFORT FOR OPERATING AND ALSO ADJUSTABLE WRIST SUPPORT
- DIMENSIONS:
LENGTH – 1880±10mm, WIDTH: 690±10mm, NET WEIGHT: 110-125 Kg.

- Base size 915x540mm
- Upholstery size 1595x590±10mm
- ELECTRONIC MOVEMENT:

UP & DOWN

MINIMUM HEIGHT – 600mm or less

MAXIMUM HEIGHT – 890 mm

Vertical adjustment range – 280-310 mm

WEIGHT CAPACITY – 125 or more Kg

- TILTING: trendelenberg and reverse trendelenberg 28 degree and 15 degree)
- Power: 220V 50Hz
- IV stand provision on the table
- Foot and hand held control for changing the positions
- Should be latest ISO/CE Certified.

Warranty 2 years

CMC 5 years

MOTORIZED SURGEON'S CHAIR:

ERGONOMICALLY ADJUSTABLE

- Foot regulated height adjustment.
- Multi Position arm support
- Electric height level adjustment range of 150mm
- Back wheels lock simultaneously
- Hand height controls
- 24V DC operated motor
- Positionable foot Support
- Fixed or rotating seat motor driven minimum 550mm to maximum 700mm
- Movement 5 twin castor with lock
- Power supply AC 220V (50/60 Hz)
- Lifting Capacity: 220 Kg.
- Stroke Value : 150mm
- Net Weight: 35 – 40 Kg.
- Should be latest ISO/CE Certified.
- Warranty : 2 years
- CMC : 5 years

Note : The specifications of all the above items are General and are not tailor made to suit any particular brand.

CATARACT INSTRUMENTS SET

1. Barraquer Wire Speculum
2. Hass Iris Forceps
3. St. Martin Forceps
4. Mcpherson Forceps Angled 11 mm
5. Jaffe Tying Forceps (Straight)
6. Superior Rectus Forceps
7. Vannas Capsulotomy Scissors Curved
8. Castroviejo Corneal Scissors Universal
9. De-Wecker's Iris Scissors
10. Barraquer Needle Holding Forceps (Micro)
11. Hartman Mosquito Forceps Straight
12. Hartman Mosquito Forceps Curved
13. Koman Nair Iris Spatula/repositor
14. Lewis Lens Loop, Small
15. BARD-PARKER HANDLE
16. Lens hook
17. Lens spatula
18. Two way reverse Simcoe cannula

Should be made of high grade stainless steel

Note : The specifications of all the above items are General and are not tailor made to suit any particular brand.

Technical Specifications for Intra Ocular Lens

Intra Ocular Lens Power	8.0D	to 30.0D	in 0.5	diopetre increments
Optic	:	PMMA	with UV absorber,	Lathe cut and tumble polished
Sterilization	:	Dual Sterilized i.e. steam & ETO should be packed in dual sterilized pack.		
Optical diameter	:	5.25	mm	
Overall Length	:	12.00	mm	
Positioning Holes	:	0		
Optic design	:	Biconvex		
Angulation	:	10	degree	

Technical Specifications for Intra Ocular Lens

Intra Ocular Lens Power	:	8.0	–	30.0	in 0.5	diopetre increments
Optic	:	PMMA	with UV absorber,	Lathe cut and	tumble polished	
Sterilization	:	Dual Sterilized i.e. steam & ETO should be packed in dual sterilized pack.				
Optical diameter	:	5.50	mm			
Overall Length	:	12.50	mm/12.00mm			
Positioning Holes	:	0				
Optic design	:	Biconvex				
Angulation	:	10degree				

Note : The specifications of all the above items are General and are not tailor made to suit any particular brand.

Technical Specifications of Visco Elastic

Generic Name	Pack
Hydroxy Propyl Methyl Cellulose 2% w/v	5 ml Vial
Sterile Latest ISOtonic Base	

Should be dual sterilized and dual filtered with dual sterile packing.

Note : The specifications of all the above items are General and are not tailor made to suit any particular brand.

Technical Specifications for Microsurgical Blades and sutures

Sutures

Needle	Suture Material	Suture Length	Suture Sizes (10-0)
Diameter - 0.15mm Length - 6.0mm/5.6mm 3/8 Circle - 140°/1/2 circle -160°	Nylon Black Monofilament	30cm (12")	
<i>Silk Sutures</i>			
Needle	Suture Material	Suture Length	Suture size (8-0)
Diameter - 0.20mm Length - 6.0mm 3/8 Circle - 140	Silk Black Braided Silicone coated	30cm (12")	

Disposable Microsurgical Blades

<i>Keratome Blade</i>	
2.6 mm	45° Angled, Bevel up/down
3.2 mm	45° Angled, Bevel up/down
5.2 mm	45° Angled, Bevel up/down
<i>Crescent Blade -</i>	
2.6 mm	55° Angled, Bevel up/down
<i>Implant / Extension Blade -</i>	
5.2 mm	45° Angled, Bevel up/down
2.6 mm	55° Angled, Bevel up/down
<i>Stab Blade /side port</i>	
2.6 mm	55° Angled, Bevel up/down

Should be coated with Medical grade silicon oil.

Should be made from SS420 stainless steel.

Specification of YAG Laser (Imported)

Treatment Laser Type	ND-YAG
Wavelength	≥1050nm
Mode	Fundamental Q-Switched/Super Gaussian Laser YAG III
Energy	Adjustable from 0.2 to 10mj
Spot Size	8μ-10μ
Burst Mode	1,2,3 pulses each
Pulse width	4 nano-sec (typical)
Repetition Rate	Maximum 0.4s per pulse or 2.5hz
YAG Laser offset shift	≤350μm, both anterior or posterior around aiming focal plane
Focal length	107mm-170mm
Cone angle	16 degree
Magnification	5 step
Aiming beam laser	Dual beam 635 to 670 nm diode continuously variable intensity upto 200 μW
Electrical power	220-240V, 50/60Hz
Cooling System	Air Convection

Safety Specification

Should be CE/FDA certified.

Table

Original Motorized

Warranty

Two years onsite warranty

CMC

5 yrs

The above mentioned specifications are in general and do not specifically suited to any particular company or brand.

Technical Specifications Of The Trial Set: Total 225 Lenses (INDIAN)

- Lenses: 0.12 to 20sph +/- one pair each
0.12 to 06cyl +/- one pair each
10 Prisms up to 12.
07 standard accesses. (2 blanks, pinhole, slit, red, green & Maddox rod)
- Size: 0.12 to 6.00 Dioptors 25mm reduced aperture lenses
7.00 to 20 Dioptors 20mm reduced aperture lenses
- Colour: Plus power lenses fitted in Black powder coated alum rims Minus power lenses fitted in Red powder coated alum rims
- Sph lenses are with handle
- Cyl lenses without handle
- Illumination: Long tubelight/ 2 bulbs with on-off switch
- Container: Raising Lens rack fitted in polished wooden case with carry handle.

Note : The specifications of all the above items are General and are not tailor made to suit any particular brand.

Flash Autoclave (IMPORTED)**Fully Automatic Autoclave with following features****Technical Specification:**

Chamber Size	Ø 300x710mm (D) of stain less steel rust proof
Overall	450 (D)x600(w)x980(H)/mm
Chamber Capacity	50 liter
Power Supply	230V 50/60Hz
Sterilization Control	By Pressure
Fill Water System	Auto-Fill water system
Dry Function	Auto dry function
Water Consumption Per Cycle	1000~1200cc
Temperature Display	Gauge
Pressure Display	Pressure gauge Ø 1 1/2" (Ø 40mm)
Program (Function) Display	LED display
Indication	Door closed, Low water, Over heat display
Power Consumption	2900W/13Amp, Heater/2300W, dry heater /600W
Program For Selection	121°C/135°C Wrapped/ Unwrapped, dry/ undry, Liquid special program selection
Sterilizer Temp. For Selection	121°C/134°C
Special Function For Selection	Liquid sterilization program
Dry Function	30 minutes by installed program
Pressure Safety Valve	Set-up 2.6 kg/cm ²
Over Temperature Protection	Temp. Protected by program. And independent temp. protection device
Electric Overload Protection	Yes

Over Pressure Protection	Safety Valve
Door Lock Indicator	Micro Switch as to door lock sensor
Chamber Water Level Sensor	Yes
Pressure Door Auto-Lock	Yes
No Fuse Breaker (15amp)	Internal installation x2pc
Warranty	Two years on site warranty
CMC	5 yrs

The equipment should be CE/FDA certified.

The above mentioned specifications are in general and do not specifically suited to any particular company or brand.

Technical Specifications of Slit Lamp with Camera(Imported)

Type	:	Galilean Converging Bionocular
Magnification change	:	Rotating/ Revolving Drum
Diopter adjustment	:	±5D
Total magnification Ratio	:	5 steps
Pupillary adjustment	:	50mm -75mm
Eyepieces	:	12.5x

Slit Illumination

Slit length	:	Continuously variable from 1mm to 14mm
Slit width	:	Continuously variable from 0 to 14mm
Slit angle	:	0°-180° (continuously adjustable both vertical and horizontal)
Lamp	:	Halogen Lamp
Filters	:	UV, Red-free, Cobalt Blue

Base

Lateral movement	:	100mm
Longitudinal movement	:	90mm
Vertical movement	:	30mm
Chin-Rest	:	
Fixation	:	Green/ Red LED
Vertical movement	:	76mm
Power	:	230-240V

Technical Specifications for integrated Digital Camera

1. 12.2 megapixel
2. Large LCD Display (3.0 inch)
3. Auto Focus

The rate should be quoted for following items:

1. Applanation tonometer
2. Beam Splitter with camera mount for the above camera
3. Adapters for Digital Camera
4. Digital Camera

Two spare bulbs, Eye piece and CVT should be supplied as standard accessories.

Should be CE/FDA certified.

Warranty Two years onsite warranty

CMC 5 yrs

The above mentioned specifications are general and do not specifically suited to any particular company or brand.

