

महाराष्ट्र शासन

शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, गोंदिया

कुंवर तिलकसिंह सामान्य रुग्णालय परिसर, नेहरु चौक, गोंदिया, महाराष्ट्र-४४१६०१

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रुग्णालयातील विभागाकरीता आवश्यक असलेले रुग्णालयीन उपकरणे व साहित्य खरेदी करण्या करीता

जाहीर दरपत्रक सुचना

शासकीय वैद्यकीय महाविद्यालय व रुग्णालय गोंदिया या संस्थेकरीता आवश्यक असलेले रुग्णालयीन उपकरणे व साहित्य खरेदी करण्याकरीता इच्छुक पुरवठादाराकडून दोन लिफाफा पद्धतीने दरपत्रक मागविण्यात येत आहे.

मोहरबंद लिफाफ्यातील दरपत्रके सादर करण्याची अंतीम तारीख 18/02/2022 सायंकाळी ५.०० वाजेपर्यंतची असून दिनांक 21/02/2022 रोजी दुपारी १२.०० वाजता महाविद्यालयाच्या सभागृहात दरपत्रके उघडण्यात येईल. इच्छुक पुरवठादारास सदर सभेस उपस्थित राहता येईल.

दरपत्रक अधिष्ठाता, शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, गोंदिया यांचे नांवाने सादर करायचे असून प्रत्येक बाबीकरीता वेगवेगळे लिफाफे सादर करायचा असून प्रत्येक लिफाफ्यावर उपकरणाचे नाव नमुद करून खरेदी करण्याकरीता दरपत्रक असे स्पष्ट नमुद करण्यात यावे. तसेच दर हे पुरवठादाराने त्याचे लेटरहेड वर देण्यात यावे.

सर्व दर हे एक नगा करीता सर्व कर समाविष्ट करून नमुद करावे. अपूर्ण माहितीसह प्राप्त होणारी दरपत्रक नाकारण्याचा अधिकार अधिष्ठाता यांनी राखून ठेवलेला आहे. तसेच यादी मधिल काही बाबी किंवा मागविण्यांत येणा-या संपूर्ण दरपत्रकाची प्रक्रिया रद्द करण्याचा अधिकार अधिष्ठाता यांनी राखून ठेवलेला आहे.

S. N.	Stage	Start
1	Date of tender/ quotation to publish	10/02/2022
2	Bid/ quotation submission up to	18/02/2022 up to 5.00 pm
3	Bid/ quotation closing date	18/02/2022 at 5.00 pm
4	Envelope No- 1 Opening	21/02/2022 at 12.30 pm
5	Envelope No-2 Opening	After Technical Evaluation Stage

- 1) **Envelope No-1 (Technical envelope):** It should contain only technical documents 1) Shop Registration No & GST documents, 2) Authorization certificate (if bidder is not a manufacturer), 3) Covering letter of quoted equipment/ Instrument mentioning: Name, Make, & Model, 4) Compliance chart, 5) Product details: Brochure/ catalogue of Instrument, 6) User list & mobile no of users, 7) ISO/ ISI/ CE/ FDA/ certification documents (if applicable).
- 2) **Envelope No-2 (Commercial envelope):** It should contain price/ cost documents only). Representative of the bidder (manufacturer/ dealer/ supplier/ may remain present in the meeting by submitting authorization letter.
- 3) On one envelope, bidder should write carefully as envelope no 1 (Technical bid) & another envelope as envelope No 2 (Commercial envelope/ price bid). Also write the name of equipment, due date & time of quotation submission, name of the bidder & mobile no.
- 4) It is mandatory to submit the quotation envelopes in the stipulated date & time by post or in person at Government Medical College & Hospital, Gondia. Quotations received after due date & time will not be accepted under any circumstances.
- 5) The quoted rates (Cost of equipment + GST + installation charges if any) should be F.O.R. destination at up to surgical store / related dept. of Govt. Medical college & Hospital, Gondia premises. (No extra payment will be done for loading/ unloading of goods). It should be submitted on letter head of the bidder.
- 6) The quoted equipment/ instrument's make & model should be same in envelope no 1 & in the envelope no 2.
- 7) The quoted equipment/ item should be as per the specifications as provided from this office. If not as per specifications, please mention the deviations/ variations in the compliance chart. It is mandatory to prepare & submit the compliance chart. Also submit the brochure & tick the image of equipment in the submitted brochure in envelope no 1.
- 8) On issuing confirm supply order, bidder will have to acknowledge the receipt of supply order. The supplier has

to supply the goods within the stipulated time. If the supplier fails to supply/ comply, within stipulated time period, the supply order may be cancelled & such bidder/ supplier will be declared as defaulter. The defaulter supplier will not be entertained/ considered for supply of items in future.

- 9) The undersigned reserves the rights to accept one or reject one or all quotation without giving any reason.
- 10) Quotation should be sent in the name of the "Dean, Govt. Medical College & Hospital, Gondia".
- 11) Demonstration of quoted equipment/ instrument (make & model) is must to user dept. It will be at the cost of bidder whose quotation is lowest one & is being accepted. If demonstration of equipment & its accessories is not satisfactory, quotation will be rejected.
- 12) On receipt of confirm supply order, the supplier has to supply the goods within 4-6 weeks if the item is Indian & 10-12 weeks if item is imported type.
- 13) On installation, the payment of the ordered goods will be done within 4-6 weeks & or subject to availability of grant/ funds). For the CMP purpose (unregistered) supplier should submit copy of pan card, cancelled check, one photograph, & bank details.
- 14) The free warranty period shall be two years from the date of installation of equipments. The successful bidder shall be required to deposit security deposit in the form of bank guaranty at the rate of 5% of the order amount for a period of two years.
- 15) Separate envelopes should be provided for each item and different tender form fee for each quotation form should be deposited in the mentioned bank account and a photocopy of the receipt should be attached.
- 16) The contractor shall be required to submit the bills in three copies for further procedure & payment shall be released as per terms & conditions with TDS of income tax & GST as per the prevailing rules.
- 17) These bills shall have to be submitted along with the delivery challan, installation report with the signature of concerned dept MS/ Deputy MS/ HOD / Unit head/ Matron/ Incharge sister.
- 18) The entry of equipment should be done by the concerned dept on the dead stock book register mentioning the register no & page no. on the installation report.
- 19) Warranty: The free warranty period shall be for two years from the date of commissioning/ installation of equipment. After completion of 2 years warranty period, manufacturer/supplier should give commitment to ensure after sale service of equipment as per mutual contract (Agreement between Dean & the supplier) as AMC (1% + GST) or CMC (5% + GST) & should ensure the supply of accessories for a period of 8 years. In case of non-compliance of AMC or CMC the supplier will be liable to pay penalty or for appropriate action. Payment of AMC or CMC on yearly basis will be made at the end of the year after satisfactory performance report from the end user. The successful tenderer/ bidder must ensure 95% uptime during warranty period. In case of downtime, warranty period will be extended for period of downtime. In case of failure of equipment & on complaint, the supplier's service engineer has to attend the call within 24 hours if supplier is from Gondia and within 48 hours if supplier is from other places. If not attended, supplier will be liable to pay a penalty of 0.07% of purchase cost for every day of delay. Such penalty will be recovered from the amount of security deposit. Certificate of such uptime / downtime issued by the end user will be binding for the supplier. Replacement of spares parts thereof due to manufacturing defects during warranty period will be entirely at the supplier's cost.
- 20) **Contract Agreement:** Bidder should submit Contract Agreement on non-judicial stamp paper of requisite value.
- 21) It is a condition of the contract that all through the currency thereof, the price at which you will the supply stores should not exceed the lowest price charged by you to any customer during the currency of the contract and that in the event of the prices going down below the rate contract prices you shall promptly furnish such information to us to enable to amend the contract rates for subsequent supplies.
- 22) The supplier has to submit security deposit in the form of Bank Guarantee @ 5% of the cost of equipment for a period of 2 Years (Free warranty period) within 7 Days after confirm supply order
 - Amount to be deposited to following account:



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* Document Tally List (Mentioned on the supplier's letter pad)

अ क्र	कागदपत्राचे नाव	जोडलेले आहे/नाही
१	Shop Registration No	
२	Authorization certificate (if bidder is not a manufacturer),	
३	Covering letter of quoted equipment/ Instrument mentioning: Name, Make, & Model,	
४	Compliance chart,	
५	Product details: Brochure/ catalogue of Instrument,	
६	User list & mobile no of users,	
७	ISO/ ISI/ CE/ FDA/ certification documents (if applicable).	
८	GST certificate & GST documents,	
९	Pan Card	
१०	Contact No	
११	Address	

ठिकाण:

निविदादाराची सही व तारीख

Instruments & Equipment's List

अ.क्र.	यंत्राचे नाव	आवश्यक नगसंख्या
१	Bilirubinometer	1
२	Nebulizer(Electric)	10
३	Thermometer, Digital	6
४	Cytospin (Cytocentrifuge)	1
५	Binocular Microscope-Pathology	3
६	CENTRIFUGE MACHINE	1
७	Anaesthesia Bolyes Machine	1
८	Regional Anaesthesia Ultrasound Guide Bloc Training Model	1
९	LMA- PROSEAL	2
१०	Portable Light cure unit (Medium End)	1
११	UV Chamber (Medium End)	1
१२	Computer (Low End)	4
१३	Laptop (Low End)-Pharmacology	1
१४	Manikins (Clinical Pharmacy)	2
१५	Models	2
१६	PROJECTOR	1
१७	DIGITAL VIDEO COLPOSCOPE (High End)	1
१८	Microscope, Oil Immersion	10
१९	Haemoglobin-meter Sahli's or Hellige (with spaces)	28
२०	Haemocytometers	32
२१	Sphygmomanometer without Mercury	25

२२	Stethoscopes	25
२३	Clinical thermometer (Mercury based instruments to be replaced with suitable alternatives)	50
२४	Compass aesthesiometer	22
२५	Knee hammer	18
२६	Tuning fork to test hearing ३२-१०००० cps(sets- १००, २५६, ५१२ Hz)	25
२७	retrofit DR panel	1
२८	Donor Couch	1
२९	DUAL PAN BALANCE	1
३०	Luxury donor couch	1
३१	Manual Plasma Expressor	2
३२	Portable tube sealer	2
३३	Placido disc	1
३४	Auto Refract meter with Keratometer	1



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Transcutaneous BILIRUBINOMETER

1 USE		
1.1	Clinical purpose	Determining the concentration of bilirubin in the blood or other clinical specimen, most commonly to rapidly assess hyperbilirubinemia in neonates.
1.2	Used by clinical department/ward	NICU/PICU
TECHNICAL		
2 TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specific to this type of device)	1. Hand held device 2. Light source life 150,000 measurements 3. Sensors Silicon photodiodes 4. Internal Battery to support at least 200 measurements Also compatible with AC supply. 5. Protection class per IEC 60601-1 (Jaundice Meter) Internally powered ME equipment, Type BF, continuous operation, not AP Protection class per IEC 60601-1 (AC adapter) Class I ME equipment, externally powered, Type BF, continuous operation, not AP Ingress of liquids and particulate matter (IEC 60601-1) IPX0 Classification in accordance with EU Directive 93/42/EEC Appendix IX Ila UMDNS code/GMDN code 16-166/35475
2.2	Settings	Method to recalibrate/save current calibration.
2.3	User's interface	Backlit display with easy viewing in all ambient light levels.
2.4	Software and/or standard of communication (where ever required)	Inbuilt software. Convenient and quick USB interface.
3 PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	Width 45 X 60 mm Depth 40 X 50 mm Height 150 X 175 mm
3.2	Weight (lbs, kg)	Less than 400 gm
PERFORMANCE SPECIFICATIONS		
Measurement range		0.0 mg/dL to 20.0 mg/dL (0 μ mol/L to 340 μ mol/L)
Accuracy		± 1.5 mg/dL or ± 25.5 μ mol/L (>35 weeks gestation) ± 1.6 mg/dL or ± 27.4 μ mol/L (≥ 24 weeks gestation)
Accuracy after phototherapy		± 2.3 mg/dL or ± 39.00 μ mol/L (≥ 24 weeks gestation) ± 2.2 mg/dL or ± 38.00 μ mol/L (>35 weeks)
4 ENERGY SOURCE (Electricity, Ups, Solar, Gas, Water, Co2..)		
4.1	Power Requirements	220 VAC $\pm 10\%$, 50 Hz;
4.2	Battery operated	Yes (optional)
4.3	Tolerance (to variations, shutdowns)	Voltage corrector/stabilizer to allow operation at $\pm 10\%$ of local rated voltage.
4.4	Protection	NA
4.5	Power consumption	NA
4.6	Other energy supplies	Length of main power cables should be at least 3 meters.

5 ACCESSORIES, SPARE PARTS, CONSUMABLES

5.1	Accessories (mandatory, standard, optional)	Hard and splash-proof case to be supplied
5.2	Spare parts (main ones)	1) Battery Qty – 2 2) Charger Qty – 2 3) Any other accessories necessary for taking ECG
5.3	Consumables / reagents (open, closed system)	-

BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS

6 ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS

6.1	Atmosphere/Ambiance (air conditioning, humidity, dust...)	1) Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances. 2) Storage condition: Capable of being stored continuously in ambient temperature of 10 to 50 deg C and relative humidity of 15 to 90%.
6.2	User's care, Cleaning, Disinfection & Sterility issues	Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.

7 STANDARDS AND SAFETY

7.1	Certificates (pre-market, sanitary,...); Performance and safety standards (specific to the device type); Local and/or international	1) Should be CE (EU)/FDA (US) approved product. 2) Manufacturer/supplier should have ISO 13485 certificate for quality standard. 3) Should have IEC 61010 certificate.
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8 TRAINING AND INSTALLATION

8.1	Pre-installation requirements: nature, values, quality, tolerance	Availability of 5 Amp electrical socket.
8.2	Requirements for sign-off	1) Supplier to perform installation, safety and operation checks before hand over. 2) Local clinical staff to affirm completion of installation.
8.3	Training of staff (medical, paramedical, technicians)	1) Training of users on operation and basic maintenance. 2) Advanced maintenance tasks required shall be documented.

9 WARRANTY AND MAINTENANCE

9.1	Warranty	5 years
9.2	Maintenance tasks	1) Maintenance manual detailing. 2) Complete maintenance schedule.
9.3	Service contract clauses, including prices	1) The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee/warranty period should be attached. 2) Free servicing (min. 2/year) during warranty period.

10 DOCUMENTATION

10.1	Operating manuals, servicemanuals, other manuals	Should provide 2 sets (hard copy) of:- 1) User, technical and maintenance manual to be supplied in English/Hindi language along with machine diagrams. 2) List of equipment and procedures required for local calibration and routine maintenance. 3) Certificate of calibration and inspection.
10.2	Other accompanying documents	List of important spares and accessories, with their part numbers and cost.

11 NOTES


11.1	Service Support Contact details (Hierarchy wise; including a toll free/landline number)	Contact details of manufacturer, supplier and local service agent to be provided. Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer.
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NEBULIZER (ELECTRIC)

GENERAL		
1. USE		
1.1	Clinical purpose	designed to generate aerosolized medication/fluids (finely dispersed airborne droplets in a liquid phase) intended to be inhaled by a patient with a respiratory disorder.
1.2	Used by clinical department/ward	All
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specific to this type of device)	Medicine cup capacity of minimum 5ml.
2.2	Settings	Manual
2.3	User's interface	Manual
2.4	Software and/or standard of communication (where ever required)	NA
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	Should be compact
3.2	Weight (lbs, kg)	<2kg.
3.3	Configuration	
3.4	Noise (in dBA), heat dissipation	<60 dBA
3.5	Mobility, portability	Yes
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2		
4.1	Power Requirements	220VAC +10%, 50Hz power supply; 5A plug;
4.2	Battery operated	NA
4.3	Tolerance (to variations, shutdowns)	±10% of input AC
4.4	Protection	Electrical protection by resettable overcurrent breakers or replaceable fuses, fitted in both live and neutral lines
4.5	Power consumption	Should be compatible with other life saving equipments running parallel
4.6	Other energy supplies	NA
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	Accessories & Spares	With necessary accessories- nebulization mask (both adult and pediatric size), PVC tubing for nebulizer (two pair extra); cable cord
5.2	Consumables/reagents (open, closed system)	aerosol/medicinal solutions
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust ...)	Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.
6.2	User's care, Cleaning, Disinfection & Sterility issues	The unit should be cleanable with alcohol and/or other chemical agents.


7. STANDARDS AND SAFETY		
7.1	Certificates (pre-market, sanitary,...)	FDA (US)/CE (EU) and BIS/ISO 13485:2003; ISO 27427-2013; IEC-60601-1.
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, tolerance	Supplier to perform installation, safety and operation checks before handover.
8.2	Requirements for sign-off	Certificate of calibration and inspection from the factory.
8.3	Training of staff (medical, paramedical, technicians)	Training of users in operation and basic maintenance shall be provided.
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	5 Years
9.2	Maintenance tasks	Maintenance manual detailing complete maintenance schedule
9.3	Service contract clauses, including prices	Local clinical staff to affirm completion of installation
10. DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	Advanced maintenance tasks required shall be documented User, technical and maintenance manual to be supplied in English language List to be provided of equipment and procedures required for local calibration and routine maintenance
10.2	Other accompanying documents	List to be provided of important spares and accessories, with their part numbers and cost. Certificate of calibration and inspection to be provided
11. NOTES		
11.1	Service Support Contact details (Hierarchy wise; including a toll free/landline number)	Contact details of manufacturer, supplier and local service agent to be provided
11.2	Recommendations or warnings	List to be provided of important spares and accessories, with their part numbers and cost. Certificate of calibration and inspection to be provided


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THERMOMETER DIGITAL

GENERAL		
1. USE		
1.1	Clinical purpose	to measure body temperature
1.2	Used by clinical department/ward	All
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specific to this type of device)	1. Range of temperature measurement 32°C-42°C (89.6°F-109.4°F). 2. Can be calibrated in both centigrade and Fahrenheit, but if only one option is available, then Fahrenheit is preferable. 3. Buzz signal function. 4. Takes 60-90 seconds to measure temperature. 5. Can be used in the armpit/axilla, orally and rectally. 6. Accuracy of temperature $\pm 0.1^{\circ}\text{C}$ and $\pm 0.2^{\circ}\text{F}$.
2.2	User's interface	LCD display
2.3	Software and/or standard of communication (where ever required)	inbuilt
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	NA
3.2	Weight (lbs, kg)	NA
3.3	Configuration	NA
3.4	Noise (in dBA)	NA
3.5	Heat dissipation	NA
3.6	Mobility, portability	Portable
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2,		
4.1	Power Requirements	As per device
4.2	Battery operated	yes
4.3	Tolerance (to variations, shutdowns)	NA
4.4	Protection	NA
4.5	Power consumption	As per device
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	Accessories (mandatory, standard, optional)	NA
5.2	Spare parts (main ones)	NA
5.3	Consumables / reagents (open, closed system)	Batteries
BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS		
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust...)	Capable of being stored continuously in ambient temperature of 0 to 50°C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 40°C and relative humidity of 15 to 90%.

6.2	User's care, Cleaning, Disinfection & Sterility issues	Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.
7. STANDARDS AND SAFETY		
7.1	Certificates (pre-market, sanitary,...); Performance and safety standards (specific to the device type); Local and/or international	ISO:13485 Manufacturer
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, tolerance	Supplier to perform operation checks before handover.
8.2	Requirements for sign-off	Certificate of inspection from the factory.
8.3	Training of staff (medical, paramedical, technicians)	NA
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	5 years
9.2	Maintenance tasks	NA
9.3	Service contract clauses, including prices	NA
10. DOCUMENTATION		
10	Operating manuals, service manuals, other manuals	Required
11. NOTES		
11	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	
11	Recommendations or warnings	NA

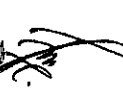

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Equipment: Cytospin (Cytocentrifuge)

Date: _____

Specifications	
1.	Compact cyto centrifuge for cytology samples
2.	Rotor capacity of at least 6 slides
3.	Speed should be 600 to 4200 rpm -Selectable operating of 2,4,6,8, 10 and 30 minutes
4.	The cover should be leak resistant with chamber gasket -Easy to clean rotor and Chamber
5.	
6.	Display with foil keypad
7.	Microprocessor controlled acceleration and breaking
8.	Start and stop should be rapid and gentle
9.	Facility to see during run through viewing port is must.
10.	Should be Supplied with Compatible filter cards 1000 pcs Cyto funnels: 1000pcs
11.	Microscope slides for cyto centrifuge 1000 nos (1mm in size)
12.	At least 5 installation in Government of Maharashtra is must along with performance
13.	certificate to be submitted along with scope of supply
14.	The company should have minimum 8 to 10 years' experience in sales & servicing of
15.	Quoted instruments.
16.	Maintenance contract should be with Manufacture only (not with dealers). Details of Manufacturer to be provided.
17.	Should have service center in Mumbai & also engineer support.
18.	Satisfactory demonstration is essential for technical qualifications.
19.	Onsite installation, training and commissioning should be done free of cost.
20.	List of installations and feedback letters from the reputed government medical Institutes for this instrument supplied to assess performance and services.
21.	3 years warranty and 5 years CAMC should be provided with supply of spare parts for at least 5 year.
22.	The installation will be deemed complete only when the machine is validated according to standard criteria
23.	Installation is the responsibility of Supplier. Site preparation, Site preparation must be done by Supplier before the delivery of equipment.
24.	Supplier must provide Acrylic cover for the equipment supplied. It must take care of Rat menace.

Please give the contact details of:


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Technical Specification
Binocular Microscope

Description:-

LED Illuminator with regular power supply, quadruple ball bearing, high resolution nosepiece, co-axial coarse and fine focusing controls, high resolution semi-plan Achromat objectives 4x, 10x, 40x (spring) and 100x (spring, oil immersion), 206deg rotatable inclined binocular tube, fungus resistant optics for tropical use, wide field paired eyepiece HWF10x (F.N.18), right hand control co-axial low drive mechanical stage and rack & pinion focusable Abbe condenser 0.9/1.25 N.A with iris diaphragm complete set.

सह संचालक
वैद्यकीय शिक्षण व संशोधन, मुंबई

संचालक
वैद्यकीय शिक्षण व संशोधन, मुंबई



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CENTRIFUGE MACHINE

Technical Specification:-

1. Easy to program with digital display of speed and time.
2. Speed should be between 300-4500 RPM, adjustable in increments of 100RPM.
3. Timer should be adjustable.
4. It should be provided with mode selectors for different protocols such as APRF, iPRF, iPRF+, A PRF liquid, iPRF Metc.
5. It should have option of customized mode.
6. It should be supplied with APRF tubes (one box of 60), SPRF tubes (one box of 20) and blood collectors with holders(one boxof20).
7. It should have safety devices like door interlock, overspeed detector etc.
8. It should be supplied with PRF box, mini tube holder, compactors, mini tray, tourniquets, PRF bowl, PRF scissors, forceps, PRF pad, PRF forceps" Giraffe" etc.
9. Should have CE certification.
10. Should be provided with a user manual. Demonstration is compulsory



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Technical Specification Anaesthesia Bolyes Machine

Sr. No.	Specification of Anaesthesia Machine with Tec- 7 vaporizer- 1 & with close circuit - 1	Specification of Anaesthesia Machine with Tec - 7 vaporizer - 1 & with close circuit - 1
1	Anaesthesia Machine : Flow Meter- 2 or 3 tube rota meter	Anaesthesia Machine : flow Meter - 2 or 3 tube rota meter - Provided
2	Material : MS/ fibre body with 4 wheels (two wheels with brakes)	It has material : MS/ fibre body with 4 wheels (two wheels with brakes)- Provided
3	Design: As per ISO norm with preset regulator valves for safety of pt & machine	It has Design: As per ISO norm with preset regulator valves for safety of pt & machine - Provided
4	Audiovisual alarm for gas failure	It has Audiovisual alarm for gas failure - Provided
5	FGF outlet for open / close circuit	It has FGF outlet for open/ close circuit - Provided
6	Provision for oxygen supply - Two part [One for oxygen cylinder & one for central supply	It has Provision for oxygen supply - two part [one for oxygen cylinder & one for central supply] - Provided
7	Provision for Nitrous Oxide supply - Two part [one for N2O cylinder & one for central supply]	It has Provision for nitrous oxide supply - Two part [one for N2O cylinder & one for central supply]- provided
8	Emergency flush valve & emergency high pressure relief valve	It has emergency flush valve & emergency high pressure relief valve- provided
9	Selectatec bar for two vaporizer	It has selectatec bar for two vaporizer provided
10	Hypoxic Guard & master slave safety system	It has Hypoxic Guard & Master Slave safety system Provided
11	Close circuit circle system with reusable patient circuit	Close circuit circle system with reusable patient circuit - Provided
12	Bain's circuit	It has Bain's circuit - provided
13	JR Paediatric circuit	It has JR paediatric circuit - provided
14	Scope of Supply	Scope of supply provided
15	Anaesthesia Machine Unit - 1no	It has Anaesthesia Machine Unit - 1no provided
16	Vaporizer: Sevoflurane / Isoflurane Tec 7 - 1 no	It has Vaporizer : Sevoflurane / Isoflurane (Tec- 7) 1-no provided
17	Close circuit reusable patient circuit (Adult)	It has Close circuit reusable patient circuit (Adult) 1No. Provided
18	Bain's circuit	It has Bain's circuit 1no. Provided
19	JR Paediatric circuit	It has JR Paediatric circuit 1no. Provided
20	High pressure Oxygen tubing (White colour) (8-10 Mtr length with pin Index yoke block for oxygen (At one end) & Oxygen probe front loaded Compatible (at other end) - 1 no.	High pressure Oxygen tubing (white colour) (8-10 mtr length with pin index yoke block for oxygen (At one end) & Oxygen probe front loaded Compatible (at other end) - 1NO Provided

Technical Specification
Anaesthesia Bolyes Machine

21	High pressure Nitrous oxide tubing (White colour) (8-10 mtr length with pin Index yoke block for oxygen (At one end) & Oxygen probe front loaded Compatible (at other end) - 1 no.	High pressure Nitrous oxide tubing (white colour) (8-10 mtr length with pin index yoke block for oxygen (At one end) & Oxygen probe front loaded Compatible (at other end) - INO Provided
22	Any other accessories as per anaesthesia machine specs	Any other accessories as per anaesthesia machine specs Provided.


सह संचालक
वैद्यकीय शिक्षण व संशोधन, मुंबई

संचालक
वैद्यकीय शिक्षण व संशोधन, मुंबई


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SPECIFICATION	
SPECIFICATIONS FOR REGIONAL ANAESTHESIA ULTRASOUND GUIDE BLOCK TRAINING MODEL	
It should be made of durable tissue and realistic ultrasound imaging characteristics.	
It should contain three to four 5mm nerves and branched 6mm vessel bifurcating into three or four vessels.	
It should have durable self healing tissue which allows multiple punctures.	
It should show the users a positive fluid flow when the vessels are accurately accessed.	
Model vessels provided should be prefilled with red simulated blood refill solution (BRS180-Red).	
Vessels should be easy to refill.	
Simulated anaesthetics when injected into the model should be able to verify the location of needle tip and simulate regional anaesthesia procedures.	
It should have both ultrasound guided venous access and peripheral nerve block training.	
Surface contour should offer detailed scanning similar to human body.	
It should be durable and should be useful for repeated training.	
Use should permit 18 - 21 gauge needles and catheters.	

Appropriate CE/FDA (u.s.)/equivalent Certifications to be added


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SPECIFICATIONS OF LMA- PROSEAL

- LMA should be reusable.
- It should be made of a softer silicone cuff so as to reduce the likelihood of throat irritation and stimulation.
- Reinforced Airway tube and A built in drain tube designed to channel fluid away and permit gastric access for patients with GERD or during extended cases where end tracheal intubation is not required.
- Achieve high seal pressure at 32cm H₂O –providing a tighter seal against the glottis opening with no increase in mucosal pressure.
- Reuses upto 40 times with certificate
- US-FDA approved
- Sizes: 1,1.5,2,2.5,3,4,5



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Portable Light cure unit

Specifications Medium end

- It should have increased efficiency to cure all types of resin materials with advanced photo initiators
- It should be of wireless design allowing complete freedom of movement
- It should provide continuous operation with LiPo battery
- It should have adjustable time setting for controlled curing efficiency
- It should have intuitive single touch operation for better handling.
- It should provide optimum accessibility to restoration areas with large probe diameter
- It should be suitable for polymerization of all types of restorations, base, liners, pit and fissure sealants, adhesives
- It should have an anti glare tip at the probe end for focused light output and reduce eye damage
- It should be energy saving with reduced overexposure



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UV Chamber

Specifications Medium end

- Should be a stainless steel chamber with minimum 12 die pressed stainless steel trays.
- Should have imported UV tube mounted on stainless steel reflector
- Should emit UV-C light
- Door switch should have interlock
- Should have electronic circuits for instant start without flickering of the tube.
- UV tube of atleast 15W with a double tube
- Chamber size should not be less than 23"x13"x8"
- No. of trays: 12 (9 shallow and 3 deep)
- Should have a door closing mechanism with magnetic gasket.
- Microdoor switch immediately which cuts off the UV source when the door is opened preventing accidental UV exposure



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Computer (Low End)

I3 Processor 8th Generation

4 GB RAM

1 TB Disc Space

Monitor 21" (4:3) LED

Additional Accessories		
		Low End
a)	Keyboard wired	Yes
b)	Mouse Wired	Yes
c)	Speaker	Yes
d)	USB Port (Min 2.3)	Yes
e)	Web Camera	Yes
f)	HDMI (Min 1)	Yes
g)	WIFI capability	Yes
h)		

With

- Windows 10 Genuine with MS Office 19 Genuine (Professional)


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Laptop (Low End)

Sr.No.	Specifications	Low
1.	Operating System	Windows 10
2.	Processor	Genuine MS office I3 Quardcore 2.5 GHZ Top Generation
3.	RAM	8 GB
4.	ROM	1 TB
5.	Graphics	2 GB
6.	Display Size	15"
7.	Warranty	3/5 Years
8.	Additional Accessories	
a)	Keyboard wired	Yes
b)	Mouse Wired	Yes
c)	Speaker	Yes
d)	USB Port (Min 2.3)	Yes
e)	Web Camera	Yes
f)	HDMI (Min 1)	Yes
g)	WIFI capability	Yes


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Manikins (Clinical Pharmacy)

For Demonstration of

- Intravenous injection
- Enema
- Local Injection
- Intra muscular Injection
- Intra Cardiac
- Other routs of drug administration

Specifications:-

Life like Manikins for drug administration for IV, IM, Intra Cardiac Injection, Enema and other routs of injection


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Models

ANTIMICROBIAL DRUG ACTION ON DIFFERENT SITES OF BACTERIAL CELL
NEUROHUMORAL TRANSMISSION OF ACETYLCHOLINE
GABAA RECEPTOR
SITE OF DRUG ACTION IN GLAUCOMA
DRUG SIDE EFFECTS
PAIN PATHWAYS
HYPERTENSION



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Projector

Technical Specification		
1.	TECHNOLOGY	3LCD Technology, RGB liquid crystal shutter 0.55 inch with C2 Fine
2.	IMAGE	Color Light Output - 3,600 Lumen- 2,400 Lumen (economy) White Light Output - 3,600 Lumen Resolution - XGA, 1024 x 768, 4:3 Native Contrast - 16,000 : 1 Lamp UHE, 210 W, 6,000 h durability, 12,000 h durability (economy mode) Keystone Correction - Auto vertical: $\pm 30^\circ$, Manual horizontal $\pm 30^\circ$ Colour Reproduction - Up to 1.07 billion colours
3.	OPTICAL	Throw Ratio zoom - 1.48 – 1.77:1 Size - Digital Resolution – XGA, 1024 x 768, 4:3 Projection lens F Number – 30 Inches – 300 Inches Projection length focal length – 16.9 mm – 20.28mm Offset – 8:1
4.	CONNECTIVITY	USB Display Function – 3 in 1: Image / Mouse / Sound Interfaces – USB 2.0 Type B, RS-232C, Ethernet interface (100 Base-TX / 10 Base-T), Wireless LAN a/n (5GHz) (optional), VGA in (2x), VGA out, HDMI in, Composite in, Stereo mini jack audio out, Stereo mini jack audio in (2x), Cinch audio in, USB 2.0 Type A
5.	GENERAL	Epson i Projection App – Ad-Hoc / Infrastructure Power consumption - 327 Watt, 225 Watt (economy) Product dimensions - 302 x 249 x 87 mm (Width x Depth x Height) Product weight - 2.7 kg Noise Level - Normal: 37 dB (A) - Economy: 28 dB (A) Positioning - Ceiling Mounted, Desktop Colour - White
6.	OTHER	Warranty 36 months Carry in, Lamp: 36 months or 1,000 h Optional warranty extension available



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Specifications Microscope, Oil Immersion

Bright field.

Focusing

1. Coaxial coarse and fine focusing mechanism (graduated, 0.002 mm) with upper stop, to prevent the contact between objective and specimen.
2. Flat fine focusing knob on the right side.
3. Adjustable tension of course focusing knob.

Stage

1. Double layer with mechanical sliding stage, size 233x147 mm, X-Y movement range 78x54 mm.
2. Belt-drive in X direction.
3. Anti-scratch surface.
4. Vernier scale on the two axes, accuracy 0.1 mm.

Nosepiece

1. Quintuple revolving nosepiece, rotation on ball bearings, backward tilt.

Head

1. Binocular observation head inclined 30°. Diopter adjustment on left eyepiece. Interpupillary adjustment 48-75mm.

Eyepieces

1. Wide Field, WF 10x/20, High Eye point.

Objectives

1. Infinity corrected optical system IOS:
 - IOS N-PLAN 4x/0.10, W.D. 16.8 mm
 - IOS N-PLAN 10x/0.25, W.D. 5.8 mm
 - IOS N-PLAN 40x/0.65, W.D. 0.43 mm
 - IOS N-PLAN 100x/1.25, W.D. 0.13 mm (Oil/Water immersion)
2. All objectives should be fungus resistant.

Condenser

1. Abbe condenser, sliding-in, N.A. 1.25 with centering system.

Accessories

1. Instruction manual and dust cover included.

Battery Back-up

1. Included battery: rechargeable – Lithium-Poly. Capacity: 2600 mAh.
2. Output voltage: 5.5Vdc. - Dimensions: 120x73x10 mm.



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Specifications

Haemoglobin-meter Sahli's or Hellige (with spaces)

The Haemoglobin meter Sahli's type, should be square tube type and the kit should consist of the following: -

- Comparator Holder –
 1. It should be black in colour and the windows should have the following dimensions: -
 - a. Height: 3 cms (Minimum)
 - b. Width: 0.5. cms (Minimum)
- Colour comparator
- Square Hb Tube graduated on both sides for measurement of haemoglobin in percentage and gram %
- 20 Microlitre Hb – Pipette
- Amber coloured acid bottle
- Glass Stirrer
- Dropper with Teat
- Cleaning Brush
- The kit should also be supplied with the following standard accessories:
 1. Square Hb tubes: 01 no.
 2. Hb pipettes: 01 no.
 3. HCL N/10: 500ml
 4. Dropper: 01 no.
 5. Glass stirrer: 01 no.



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Specifications
Haemocytometers

Haemocytometers (New Improved Neubauer's Chamber with RBC and WBC Pipettes)

Thick glass slide with central depressed platform separated on either side from remain platform by deep moats.

Level of this platform exactly 0.1mm lower than the general surface of slide.

Depressed platform is ruled in squares central depressed platform is divided in to two parts by a length wise moat and from surrounds slide by two breadth wise moats. 16 square large block is demarcated from its neighbor by an extra interrupted line Central large square divided in to 25 square.



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Specifications

Sphygmomanometer without Mercury


Sphygmomanometer with rising spot LED and adult arm cuff; Dual power operation(Battery cum USB adaptor), Auto Power-off



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Specifications Stethoscopes
Make of Standard Quality


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Specifications

Clinical thermometer

(Mercury based instruments to be replaced with suitable alternatives)

Clinical Thermometer, Standard Make of Good Quality



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Specifications
Compass aesthesiometer
Compass Aesthesiometer Two limbs of compass with graduated arc / horizontal scale.



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Specifications Knee hammer
Knee hammer- Standard Make of Good Quality


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Specifications

**Tuning fork to test hearing 32-10000 cps(sets- 100, 256, 512 hz)
(Medium End)**

Tuning fork to test hearing 32-10000 cps (sets-100, 256, 512 hz) Standard Make of Good Quality.


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Product Name: Donor Couch
COST: 60,000

Sl no	Specification
1	Should comply IEC safety /EMI/EMC standards, ISO 9001 ,ISO 13485 certified and CE marked
2	Should have a maximum lifting capacity of upto 135 Kg
3	Should have Lockable castors for easy mobility
4	Should have an adjustable head rest
5	Must have variable positioning for either arm with comfortably wide armrests which are swivellable and height adjustable
6	Must have interfacing facility with blood collection monitor
7	Should have BCM cum accessories stand with telescopic IV pole as accessory
8	Should have comfortable chair type with soft padding for cushioning and rexin cover. The soft upholstery should have a thickness of 100mm
9	Must be adjustustable to any position between seating / donation position and vasovagal attack position
10	Must have a safety switch to quickly adjust to vasovagal position
11	Must have a noise free mode of operation




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Specifications of DUAL PAN BALANCE


COST : 30,000

Sr.No	Specifications
1	Should be user friendly.
2	Bright Jumbo 16x2 LCD displays of weight and volume with accuracy of 1gm.
3	Rechargeable battery operated.
4	Helps better balancing of refrigerated centrifuge.
5	Tare provision to account for the weight of the blood bags.
6	Auto Calibration.
7	Micro Controlled based technology for high accuracy.
8	Battery support system up to 18 Hrs.
9	2 year warranty.
10	AMC- @ 1%.
11	CMC- @ 5%.


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Product Name: Luxury Donor Couch
COST :60,000


Sl no	Specification
1	Should comply IEC safety /EMI/EMC standards, ISO 9001 ,ISO 13485 certified and CE marked
2	Should have a maximum lifting capacity of upto 150 Kg
3	Should have Lockable castors for easy mobility
4	Should have an adjustable head rest
5	Must have variable positioning for either arm with comfortably wide armrests which are swivellable and height adjustable
6	Must have interfacing facility with blood collection monitor
7	Should have BCM cum accessories stand with telescopic IV pole as an optional accessory along with paper holder
8	Should have comfortable chair type with soft padding for cushioning and rexin cover. The soft upholstery should have a thickness of 100mm
9	Must be a three motored equipment and could be adjustustable to any position between seating / donation position and vasovagal attack position
10	Should have a battery back up that can perform approx 10 cycles of operation on a fully charged battery as an optional accessory
11	Must have a wired remote control for easy movement to any position between seating & vasovagal attack position
12	The remote control should also have three memory positions for easy adjustment at times of urgency
13	Should have Trolley as optional accessories
14	Must have a single switch/ button to quickly adjust to vasovagal position
15	Must have a noise free mode of operation


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Specifications for Manual Plasma Expressor


COST :20,000

Sr.No	Specifications
1	Should be user friendly.
2	Mode of operation-Manual & Electronic mode.
3	Their should be Provision for interfacing with Compo Scale for separating a definite quantity of plasma to the satellite bag.
4	Should comply with safety requirements of ISO 9001 ,ISO 13485 certified and CE marked .
5	Should have a stainless steel body material with spring loaded acrylic sheet.
6	The handle should be with ball which helps easy handling for expressing the plasma.
7	Should have transparent plate which allows easy visibility of the level of expressing the blood product, with bag pressing mechanism.
8	Flow rate should be with the speed of 150 to 250ml per minute.
9	It should weigh not more than 4 to 5 kg.
10	2 year warranty.
11	AMC- @ 1%.
12	CMC- @ 5%.


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Product Name: Potable Tube Sealer
COST: 100000

SI No	Technical Specification
1	Should be a Heavy duty radio frequency sealer
2	Should have facility for Automatic detection of the tube by pressing of a lever which activates sensor
3	Should have a minimum sealing time (<1.5 sec)
4	No warm up time requirement for the equipment before sealing
5	Should have a battery charging time no more than 3 hrs
6	Switch mode power supply of uniform sealing irrespective of power supply variations
7	Compatible with the tubes of various manufacturers of blood bag. Should seals upto 5 mm tubes
8	Indications for ready seal and power
9	Protection against electric shock
10	Preferably power unit and sealing handle should be separate with a RF cable length of 2.44 meters
11	To be operational on 100 to 240 Volt at 50 Hz single phase
12	Should have the following Indications:
	Battery Power Level
	Charging
	Battery Low/ Battery Calibration
13	Sealing indication on the Head
	Should have maximum weight not exceeding 2100 gms (base unit) and 230 gms (sealing head)


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Placido disc

	Placido disc	<p>Round cornered 10-1/2" x 11" disc with two sided print. Includes handle and trial lens holder. Material: White vinyl washable. Round cornered 10-1/2" x 11" disc with two sided print.</p> <p>USA FDA and/or EUROPIAN CE and/or Country of origin CE</p>
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14	Auto Refract meter with Keratometer	<p>Features</p> <ul style="list-style-type: none"> • Multifunctional Power auto-ref keratometer. • Provides the measurement of refraction & keratometry, pupil and cornea diameter • Touch screen with tiltable colour LCD Monitor • Joystick For easy operation and one touch lock • Multiple data output through USB, Video terminal Bluetooth • Faster Printout Results
		<p>Refractometry</p> <ul style="list-style-type: none"> • Vertex distance : 0, 12.0 and 13.5mm • Spherical Power: -225D to +22D in 0.12D/0.25D Increments • Cylinder Power :0.0 to ± 10D in 0.12D/0.25 D increments • Axis : 10 to 1800 in 10 increments • Cylinder form : - ,+ and mix • Pupil Distance: 10 to 85 mm in 1mm increments
		<p>Keratometry</p> <ul style="list-style-type: none"> • Radius of curvature : 5.00 to 10.20mm in 0.01mm increments • Corneal Power: 33.00 to 67.50D in 0.05/0.12/0.25D increments • Corneal astigmatism : 0 D to -15 D in 0.05/0.12/0.25 D increments • Axis : 10 to 1800 in 10 increments • Corneal diameter : 2.0 to 12.0mm in 0.1mm increments • Refraction index: 1.3375 • Min. Pupil diameter : $\varnothing 2.0$mm • Memory : 10 Measurement for each eye • Printer : thermal printer • Monitor : 7" LCD colour Monitor • Monitor Power Saving • Function : 5mins
		<p>Electrical Specifications</p> <ul style="list-style-type: none"> • Power Supply : ~110-220V, 50-60Hz • Power Consumption : 100W • Chin rest Movement : 65mm Motorized
		<p>Physical Parameter</p> <ul style="list-style-type: none"> • Dimensions : 265 (W) x 480 (L)x445(H) mm (approx) • Weight : net 26 kg and gross 32kg • CE of country of origin and /or US FDA and /or

		European CE
		Accessories-
		1. Print paper rolls x 10 packs
	Measurable Range Auto refractometer	Sphere-30.00D to +25.00D (VD=12mm) (0.01/0.12/0.25D Increments) Cylinder -0D to 12D (0.01/0.12/0.25D Increments) Axis 0 Deg. To 180 Deg. (1 Deg. increments)
	Measurable Range Auto Keratometer	Radius curvature 5.00 to 13.00 mm (0.01mm Increments) Refractive power 25.96 to 67.50D (n=1.3375) (0.01/0.12/0.25 D increments) Astigmatism 0D to + 12D (0.01/0.12/0.25D Increments) Axis 0Deg. To 180 Deg. (1 Deg./5Deg.Increments)
	Ordinary Measurement area Peripheral measurement area Psagital radius measurement	Dia 3.3mm (R=7.7mm) Dia 6.0mm (R=7.7mm) 25 Deg. Each from the centre (Superior side, Inferior side, temporal side, Nasal side)
	Measurable minimum pupil diameter	Diameter 2mm
	PD measurable range	30 to 85mm (1mm Increments) (Near point PD: 28 to 80 mm at WD= 40 cm)
	Corneal Size Measurement Range Should be auto measure	10 to 14mm (0.1mm increments)
	Pupil Size Measurement Range should be auto measure	1 to 10mm (0.1mm increments)
	Auto tracking & Auto Shooting	Y direction, Auto Shooting
	Vision Comparison	Corrected Vision with spherical lens
	Chart	Scenery Chart
	Display	Tilttable 5.7-inch colour LCD

Auto Refract meter with Keratometer