

Quotation Notice

For the supply of Instrument, Materials & Equipment

Dean Govt Medical college, Gondia, invites quotation for the supply of Instrument for various Department from Manufacturer/Dealers. Details list & specification is enclosed. Interested supplier/dealer can send their quotation.

Quotation should be sent in sealed envelope (duly sealed by selling wax) by post or hand delivery so as to reach this office on or before /22/02 up to 22/02/22 Date & timing of the opening of quotation 22/02/2022 at pm at college council Hall. Representative of the supplier may attend the meeting by submitting authorization letter.

1. The "Quotation" for Instruments and last Date 22/02/2022 should be clearly written on cover.
2. Quotation, which received late, will not be accepted under any circumstances.
3. Rate should be for free delivery at Govt. Medical college, Gondia premises only. Rate should be quoted including all charges. Rates must be quote on letter head along with Pan, VAT, CST Number.
4. Quoted goods should be strictly accordingly to the specification mentioned in the list. Make Model of items should be specifically statepd in quotation and catalogue/leaflets etc. should be submit along with the quotation.
5. After placing the order to lowest one, the order will have to executer in full within the stipulated time if the supplier fail to comply, within stipulated period after giving the order may be cancelled and he will be declared defaulter and his any offer will not be consider in future.
6. The undersigned reserved the rights to accept or reject any or all quotation without giving any reason.
7. The quotation should be sent in the name of the Dean, Govt. Medical College, Gondia.
8. Payment of the order goods will be made within 1 months from the date of supply & installation of the goods by CMP. For the CMP purpose (unregistered) supplier should submit copy of Pan Card, Cancelled Check, One photograph, & Bank Details.
9. The supplier should deliver the disc/chemicals/glassware in the concerned department of the institution.

Terms and conditions

- 1) Quotations are invited in Two bid envelop system. One envelop contains authority letter, specifications compliance chart, brochures and catalog .
- 2) Second envelop contains only price of equipment/instrument.



Dean

Government Medical college,
Gondia

List of Equipment

Sr. No.	Name of Machinery	Qty	Department
1	CENTRIFUGE	1	Biochemistry
2	ELECTROLYTE ANALYZER	1	Biochemistry
3	Laboratory Refrigerators (Glass/Solid door)	1	Biochemistry
4	Surgical Smoke Evacuator	1	Surgery
5	TRACHEOSTOMY SET (MEDIUM END)	2	ENT
6	IMPEDANCE AUDIOMETER (HIGH END)	1	ENT
7	HEADLIGHT (ENT) (HIGH END)	1	ENT
8	HEADLIGHT (ENT) (LOW END)	1	ENT
9	DRILL (LOW END)	1	ENT
10	FORMALINE CHAMBER	1	ENT
11	Punch biopsy tool	1	ENT
12	Biopsy Equipment	1	ENT
13	Enucleation Set	1	Ophthalmology
14	Gonioscop	3	Ophthalmology
15	Prism Bar	2	Ophthalmology
16	Schiotzs Tonometer	1	Ophthalmology
17	Maddox wing	3	Ophthalmology
18	Diplopia goggles	1	Ophthalmology
19	Near vision chart with different Languages	1	Ophthalmology
20	12 Channel ECG Machine	1	Medicine
21	Aerosol Drug Delivery System with reusable chamber	1	Medicine
22	B.P. Monitors	5	Medicine
23	Digital B.P Apparatus	7	Medicine
24	Pulse Oximeter Specification (Finger Probe)	10	Medicine
25	Pulse Oximeter (Hand Held)	1	Medicine
26	Pulse Oximeter Table top (High end)	1	Medicine
27	Pulse Oximeter Table top (Low end)	1	Medicine

Item wise (Equipment wise) separate Envelop may be submitted.



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Government Medical College, Gondia

List for quotation

Name of Item with detail Specification

Sr. No	Name of Item
1	<p><u>CENTRIFUGE</u></p> <p>1. Speed Regulation Range for Centrifuge tubes - 150 - 4500 rpm</p> <p>2. Analysis Method - Preparative</p> <p>3. Temperature Control - Preferred</p> <p>4. Sample Introduction - Batch wise</p> <p>5. Rotor Configuration - 1. Horizontal / Swinging bucket 2. Fixed</p> <p>6. Maximum Speed - rpm 5000 - 15000 As per preference</p> <p>6. a. Maximum Capacity - 30 ml - 350 ml</p> <p>7. Maximum RCF - (250g - 18000 g)</p> <p>8. Acceleration Time & Deceleration - Multiple - Slow, Normal, Fast - Dynamic brake for quick deceleration required</p> <p>9. Timer Set points - 1 min - 30 min (increment of 1 min)</p> <p>10. Rotor capacity - At least 8 x 15 ml</p> <p>11. Sample volume - At least 1 ml</p> <p>12. Local Interface controlled - Digital, Front Panel, and Microprocessor</p> <p>13. Application software - No preference</p> <p>14. Programmable - Yes Preferred</p> <p>15. Operating Temperature - 15 C to 45 C</p> <p>16. Configuration - Bench top Model</p> <p>17. Timer sound Signal - Required</p> <p>18. Lid Lock & Safety Lid - Required</p> <p>19. Forced Braking Switch off, low noise level & user friendly</p> <p>20. Normal Operating voltage - 230 V</p>
2	<p><u>ELECTROLYTE ANALYZER</u></p> <p>1) Should be able to measure sodium, potassium and Chloride in serum urine, plasma and body fluids. Should be compact and single unit with auto loader. Optional estimation of calcium and lithium.</p> <p>2) should have a measuring method of Ion Selective Electrode (ISE). With separate electrodes.</p> <p>3) Should include automatic sample loader and external printer to be attached to computer with interfacing facilities</p> <p>4) Should have a throughput of minimum 50 samples per hour.</p> <p>5) Should have automatic calibration, 1 and 2 point calibration, 2 point time bound.</p> <p>6) Should have QC memory of at least 2 levels</p> <p>7) It should require 100 micro litter or lesser for serum sample.</p> <p>8) Automatic display of calibration, wash cycle, standby mode.</p> <p>9) Should have a memory of at least 20 samples.</p> <p>10) Should work on 200-240 Vac 50 Hz power supply.</p> <p>11) Should have safety certificate from a competent authority CE/ FDA.</p> <p>12) Freezing of cost for five years excluding of GST of close item reagents, Tubing, Auto wash solution and 100 ISE tests per day of electrolytes (include electrode of Na+ k+ cl- and reference electrode separately), ISE reagent Module (One test include Na+ k+ cl-).</p> <p>13) 50 tests and for ISE electrodes (include eletrode of Na+ k+ cl- and reference electrode</p>



separately), ISE reagent Module (One test include $\text{Na}^+ \text{ k}^+ \text{ cl}^-$) should accomapny with the instrument free of cost for stat up of instrument. One computer with printer to be provided with Instrument along with the compatible software free of cost.

- 14) During warranty period all consumables, tubing and Preventive maintenance kit (PM- kit) and other spare parts should be provided by the company free of cost.
- 15) L1 will be decided by the sum of Price of the equipment and close system consumables excluding of GST for 5 years for the workload of 100 tests per day.
- 16) WARRANTY: Two years warranty from date of installation. Should have CE/FDA approved certificates.

3 **Laboratory Refrigerators (Glass/Solid door)**

- 1) General - Range to 2°C to 8°C
- 2) Construction - 5 or 6 shelves of stainless steel of min 22 G / Glass inner case
- 3) Control System - Micro - processor temp controller with digital display, 7 graphic inkless temp recorders with maintenance free battery backup including charger.
- 4) Refrigeration system - Heavy continuous duty, Frost free, Audio visual Electronic alarm system, Calibrate Control Probe Temp and Sample Probe Temp power indicator light.
- 5) Supply - 220/240 V 50Hz, single phase rating - 160-260V.
- 6) Controlled fan cooling system for constant temperature and even temperature distribution across the entire refrigerating chamber. Automatic switch-off when front door opens
- 7) Safety thermostat to prevent dropping of the cold storage products temperature below $+2^\circ \text{C}$
- 8) Door opening alarm (visual / acoustic).

4 **Surgical Smoke Evacuator**

- The Smoke Evacuator should evacuate, and filter surgical smoke plume and aerosols created in any surgical procedure by an active surgical energy device.
- The Smoke Evacuator should simultaneously activate with all Surgical Energy Devices Ultrasonic, Advance Bipolar, Bipolar & Monopolar.
- Smoke Evacuator filter should be four stage ULPA grade to captures particulates and micro-organisms from .1 to .2 microns at an efficiency of 99.999%, should able to absorb odors and toxic gases produced in surgery.
- Smoke Evacuator should have five different run time setting for suction of residual smoke in different surgical procedures.
- System should offer 5 different suction speed for Lap & Open Surgeries.
- Filter Life Should be > 34 Hours with filter life indicator.
- Suction Speed should be 5 Lt / Minuit - 41 Lt / Minuit for Lap procedures to maintain Pneumoperitoneum, Open Procedures suction speed should be > 70 Lt / Minuit.
- The smoke evacuation system should comply with IEC60601.1 electrical specifications & should have Class I protection against electrical shock (UL60601-1, Clause 5.1)
- System should comply with electromagnetic emission CISPR11.
- Should be US FDA approved.

• Technical Specifications:

WEIGHT: Less than 30 lbs

OPERATING ENV. Temp.: $50 - 55^\circ \text{C}$ Range of operating environment.

POWER REQUIREMENTS: 220/240 VAC

Frequency, auto sensed: 50/60 Hz

Duty Cycle- Continuous

Dimensions LWH- 16 X 15 X 7.4 in

Vacuum Pressure - 4.95 psi

The unit should comprise of following instrument.

1. Smoke evacuator system with foot-switch – 1 pc
2. RF sensor for Simultaneous activation with Monopolar – 1 pc
3. Four Stage ULPA filter – 3 pc
4. Fluid trap – 10 pcs



5. Open surgery smoke evacuator pencil with PTFE coated tip (reduce smoke generation) & telescopic length of device allows surgeon to adjust the pencil by a full of 6 inches – 40 pcs
6. Laparoscopic tubing – 50 pcs
7. Connecting Cable for simultaneous activation with Ultrasonic, Advance Bipolar, Bipolar & Monopolar Devices - 02+B70

5 **TRACHEOSTOMY SET (MEDIUM END)**

SPECIFICATIONS:

1. Instruments should be made of high-grade stainless steel. The quality of steel should comply with the DIN, US-FDA, or European CE, issued by TUV
2. Instruments should be of high quality and precision.
3. Instruments should be light weight, strong and durable
4. Instruments should be non-magnetic
5. Instruments should be autoclavable at 134 deg C and follow international US-FDA and EN ISO norms for sterilization

INSTRUMENTS-

1. Needle Holder. Mayo-Hegar. 15cm/6"
2. Scalpel/B.P. Handle. 14cm. No.3
3. Retractor. Langenbeck. 6mm Wx20mmD. 21cm/8.25".
4. Fcps., Artery. Sp-Wells. Cvd. 15cm/6".
5. Fcps., Artery. Sp-Wells. Str. 15cm/6".
6. Retractor, Double hook. Blunt. 16cm/6.25". Also for Tracheostomy.
7. Fcps., Tracheal Dilating. Two Prongs. Trosseau/Laborde. 15cm/6".

6 **IMPEDANCE AUDIOMETER (HIGH END)**

- **Clinical purpose-** To evaluate status of tympanic membrane.
To diagnose middle ear pathologies

Used by clinical department/ward - ENT Department

Test Facility to be present: Automatic and manual tympanometry, acoustic reflex threshold, decay and latency examinations, ETF for intact and perforated eardrums, high frequency and multi-component tympanometry. Probe should be extremely light, small and sturdy metal probe

TEST PARAMETERS:

- Probe tone: 226 Hz @ 85 dB SPL, 678 Hz @ 80 dB SPL
800, 1000 Hz @ 75 dB SPL
- Admittance range: -2.0 to 8.0 mmho (@ 226 Hz)
-4.0 to 16.0 mmho (@ 678, 800 and 1000Hz)
- Press. range: From -600 to +400 daPa
- Pump control: Automatic and manual

TYMPANOMETRY

- Press. change: 15, 50, 100, 200, 300, 400, 600 daPa/sec,
AUTO (200 - 600 daPa/sec)
- Press. sweep: Bidirectional
- Tympan. meas.: Admittance [Y], Susceptance [B], Conductance [G]

ACOUSTIC REFLEX

- Acoustic refl. tests: Manual test, automatic threshold, fixed intensity, growing intensity, Reflex decay, reflex latency
- Stimulation: Ipsi and contralateral
- Stimuli: 250 (contra), 500, 1k, 2k, 3k, 4k, 6k, 8k (contra) Hz, BBN, HPN, LPN
- Max. intensity: 110 dB HL (ipsi), 120 dB HL (contra)
- Stim. duration: From 0.5 to 2.5 sec (selectable)



- Reflex decay: 10 or 20 sec
- Automatic tests: Quick A and B (seq. of tympanometry and reflex)
- ETF test: Intact or perforated eardrums

DEVICE SPECIFICATIONS

- Memory: 3 tympanometry + 16 reflex + 4 decay + 4 latency record. per ear
- Display type: color graphical with touch screen
- Display size/ res: 7" / 800 x 480 pixels
- Printer: Built-in Thermal Printer
- Language: multilingual interface

PC interface: USB (driverless)

7 HEADLIGHT (ENT) (HIGH END)

- Clinical purpose -Nasal Surgeries
Oral surgeries
Tracheostomy

Used by clinical department/ward - ENT Department

1. Should be a cold headlight system suitable for ENT Operating Theatre with provision to adjust light intensity.
2. Should have head light adjustment side to side and up and down and Multiple position swivel head – 180° rotation, made of chemical resistant resin and includes adjustable comfortable elasticated light weight head strap with lock.
3. Should be a coaxial fiber optic light headlight with a variable light spot.
4. Should have focusing sleeves for uniform quality illumination.
5. Should use a halogen light source with spare lamp and should have provision to change over in the event failure of the primary bulb.

Product	(KLS Martin) Med LED Chrome HEAD LIGHT SYSTEM-MC7 Pro
Power/Wattage	10W LED Producing bright, White light
Intensity/Lux	275,000 lux
Colour temperature	5000-6500k
Typical LED life	> 100,000 hours
Variable Module Spot	100mm-200mm @ 46cm
Variable intensity control	0 -275,000 lux @ 46 cm
Headband with LED module weight	350 grams
Battery life	4 hours in Full intensity
Battery charger	100-240V AC, 50/60 Hz input for worldwide operation
Battery recharge time	6.5 hrs
Certificate	yes CE
Ambient Temperature	0-30 Degree Celsius
SYSTEM INCLUDES	1 LED Headlight with rear cranial support HEAD BAND 2 Clip- on battery Holster 2 rechargeable Batteries(lithium-polymer) 1 USB charging cable 1 Padded Carrying case with Shoulder Strap 1 charger including adapter for EU, US, UK, AU

8 HEADLIGHT (ENT) (LOW END)

- Clinical purpose -Nasal Surgeries
Oral surgeries
Tracheostomy

Used by clinical department/ward - ENT Department

-High Power LED: - 10 Watt



- Mini portable wireless design
- High Illumination: - 1,10,000 lux
- Battery: - Rechargeable Li-Ion
- Bulb Life: - 50000 Hours
- CRI \leq 90
- Colour Temperature: - 5700k
- Working Hour per charge: - 4 Hours
- Charging time: - 1.5 Hour
- Light Intensity: - Adjustable
- Light Spot Size: - Adjustable
- Voltage: - DC3.7 Volt
- Extra Battery Optional
- Suitable for: - ENT, Surgery, Dental, Septoplasty

9 **DRILL (LOW END)**

- Clinical purpose -Mastoidectomy, Temporal bone dissection
Nasal Surgeries

Used by clinical department/ward - ENT Department

COST- APPROX. 25,000-35,000

GENERAL SPECIFICATIONS

- OUTPUT VOLTAGE- DC 0-32 V
- INPUT VOLTAGE- 230 V
- INCLUDES ONE CONTROL BOX
- ONE 40K RPM MICROMOTOR
- ONE ON/OFF SWITCH FOOT PADDLE
- ONE HANDPIECE
- AUTOCLAVABLE

FOOTSWITCH – 1 UNIT

> A FOOTSWITCH COMPATIBLE WITH THE CONTROL UNIT.SHOULD BE ABLE TO CONTROL THE HANDPIECE FOR CUTTING.

> IT SHOULD HAVE:

A. SHOULD HAVE FULLY PROGRAMMABLE FOOTSWITCH AS USER NEED

B. USER SHOULD BE ABLE TO CONTROL FOLLOWING FUNCTIONS VIA FOOTSWITCH · FORWARD REVERSE OSCILLATION SWITCH OVER TO HIGH/ LOW SPEED INCREASE OR DECREASE SPEED.

> SHOULD BE CE AND FDA (USA) APPROVED.

HIGH SPEED MICRO-DRILL MOTOR - 1 QTY

> THE DRILL SHOULD HAVE AN ELECTRIC MOTOR DRIVEN THROUGH A CONSOLE

> MAXIMUM MOTOR SPEED SHOULD BE NOT MORE THAN 40,000 RPM

> THE MOTOR SHOULD BE SLEEK WITH DIAMETER NOT MORE THAN 20 MM

> LENGTH OF THE MOTOR SHOULD NOT BE LESS THAN 110 MM

> THE WEIGHT OF THE MOTOR (INCLUDING HOSE) SHOULD BE LESS THAN OR EQUAL TO 300 GRAMS

> IT SHOULD REDUCE THERMAL NECROSIS BY PROVIDING INTEGRATED IRRIGATION

> MOTOR SHOULD BE ABLE TO RUN ON A FIXED OR A VARIABLE MODE THROUGH THE CONSOLE SHOULD BE CE AND FDA (USA) APPROVED.

ESSENTIALS CONSUMABLES

1. CUTTINGS BURS OF SIZE 7.5 CMS (1MM- 6MM DIAMETER) (15 QTY).

2. DIAMOND BURS OF SIZE 7.5 CMS (1MM – 6MM DIAMETER) (15 QTY).

10 **FORMALINE CHAMBER**

1.It should be made up with acrylic sheet chamber for instrument storage

2.Dimensions approximately size 26" x 8" x 8"

3.Sheet thickness 6 mm (made of clear transparent acrylic sheet)

4.It should have three white perforated tray

5.It should have handle on top 13 cm x 4.3 cm of 8 mm thickness

6.It should have door on the side for closing

7.It should have lock on the front near the door



	<p>8. It should have supporting stick on the side of lock door to open</p> <p>9. Provider should provide AMC/CMC as per government norms</p>
11	<p><u>Punch biopsy tool</u></p> <ol style="list-style-type: none"> 1. Punch biopsy tool should have safety capped for protection 2. It should have surgical griphandle 3. Colour coded handles by size (diameters from 4 mm — 8mm) 4. It should have stainless steel sharp circular blade. 5. It should be of light weight, approximately of length of 10cms. 6. It should be autoclavable.
12	<p><u>Biopsy Equipment</u></p> <p>Technical Specification:-</p> <p>Blade handle:</p> <ul style="list-style-type: none"> • bphandle size 3 and no. 15 blade. [The No. 15 blade has a small curved cutting edge and is the most popular blade shape ideal for making short and precise incisions.] <ol style="list-style-type: none"> 2. Fine tissue forceps (preferably Adson forceps) <ul style="list-style-type: none"> • Dimensions: Overall length 4 5" (114 mm) • Material: Standard grade stainless steel • Tips: Curved, straight fine point • Grip: Ribbed grip • Should be autoclavable, reusable 3. toothed tissue forcep <ul style="list-style-type: none"> • Dimensions: Overall length 4.5" (114 mm) • Material: Standard grade stainless steel • Tips: Curved, straight fine point • Grip: Ribbed grip • should be autoclave, re sterile, reusable 4. Syringe and local anesthetic. <ul style="list-style-type: none"> • As per the requirement standards of surgical procedures 5. Suture material and needle <ul style="list-style-type: none"> • Monofilament and synthetic suture material Curved needles with cutting edges 6. Needle driver/holder. <ul style="list-style-type: none"> • made from stainless steel • Should have ratchet locked to the instrument at the user end. • Needle holder 4", 6", 8" sizes 7. Curved scissors. <ul style="list-style-type: none"> • As per the requirement standards of surgical procedures 8. Hemostatic agents (silver nitrate or absorbable gelatin sponge) 9. Retractor appropriate for the site. 10. Sterile containers <p>All stainless steel items should be rust free & corrosion free.</p>
13	<p><u>Enucleation Set</u></p> <ol style="list-style-type: none"> 1. Adson fixation forceps 2. Hartman mosquito forceps straight 3. Colibri forceps 1 x 2 teeth 0.12mm 4. Desmarres Lid retractor size 1-12mm width 5. Enucleation scissors ring handle medium curve 6. Enucleation scissors ring handle strong curve 7. Knapp strabismus scissors blunt tip ring handle straight

8. Knapp strabismus scissors blunt tips ring handle curved
9. Lancaster eye speculum
10. Wells enucleation spoon small
11. Bunge evisceration spoon small
12. Bunge evisceration spoon large
13. Sterilization box with silicone mat

14 **Gonioscop**

4-Mirror, All --Glass Design

50% more image magnification than our classic G-4 Gonio enables more detailed viewing of the trabecular meshwork

Available with a o large ring (28.5 mm) o a small ring (25.5 mm) o 2-position handle (right/left handed)

No flange version is ideal for dynamic and indentation gonioscopy

Flanged version provides stability for laser trabeculoplasty

4 mirror, Sussman style lens with unbeatable Volk optics

Also available in a handled (Posner-style) model

Mirror Angles	Image Laser Diameter	Spot Contact	Magnification	Size
4X64	1.50	0.67	Flange 15mm No Flange-8.4mm	

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15 **Prism Bar**

Clinicians can use prism bars to determine phoria deviation when testing ocular alignment.

Clinicians can also use prism bars to establish the measurements used for calculating the amount of correction needed in strabismus surgery and for monitoring changes in ocular alignment with recovery from muscle imbalance. Sizes: 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 7, 8 Diopter

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16 **Schiotzs Tonometer**

17 **Maddox wing**

Hand held device used to measure heterophoria at near. It consists of septum and two slit apertures one for each eye

The Handle:

The handle is retractable and is located at the base of the instrument. This is where the patient holds the apparatus.

The Eye Piece:

Located anteriorly, the eye piece is where the patient looks into.

The Eye-piece lens holder:

Mainly used to hold lens for patients who have difficulties seeing the board with their glasses

The Septa:

There are 2 septa that separates the eye piece so that the patient has two separate fields of view.

The Scale Card:

Used to measure the deviation of heterophorias, small heterotropias (with NRC) and also torsion. The scale card has the horizontal, vertical and torsional scales. The board also contains the red and white arrows. This will be further discuss throughout the video.

The Torsion Lever:

On the measuring board there is an adjustable lever which the patient subjectively aligns to measure torsion.

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18	<u>Diplopia goggles</u> Red and green goggles
19	<u>Near vision chart with different Languages</u> 1.All national languages inclusive 2.Available as N 60 to N 6 3.Spiral binding format book 4.Preferrably white paper with black colored letters
20	<u>12 Channel ECG Machine</u> Should be 12-channel ECG recording with 12 lead simultaneous acquisition Should have minimum 7-inch Touch screen color display Should have QWERTY Alphanumeric Keyboard Should have Auto, Manual, Rhythm and R-R analysis modes which can be chosen freely Should have Glasgow ECG interpretation Should have detection for failure electrodes on display Should have different sampling modes to choose from Pre-sample, Real-time sample, Periodic Sample and Arrhythmia triggered sample Should have Pacemaker detection facility Should have a frequency response of 0.01-300 Hz Should have sampling frequency of 16000 Hz Should have CMRR of 2123dB Should have A/D of 24 bits; Time constant of 23.25s. Should have option to select the gain from 1.2 mm/mV, 2.5 mm/mV, 5 mm/mV, 10 mm/mV, 20 mm/mV or 10/5 mm/mV Should have AC filter, DFT Filter: 0.01Hz/0.05Hz/0.15Hz/0.25Hz/0.32Hz/0.5Hz/0.67Hz, EMG Filter: Off/25Hz/35Hz/45Hz, LOWPASS Filter:300Hz/270Hz/150Hz/100Hz/75Hz Should have inbuilt WiFi for ECG data transmission Should have Multiple file formats: DAT, PDF, SCP, FDA-XML, DICOM Should be able to export multiple file format directly to USB Should have remote FTP server upload feature with Auto transmission once ECG acquired Should have a large storage of minimum 700 ECG's Should have preview function to view ECG waveform before printing Should have High resolution thermal recorder with high resolution waveforms, calibration mark, gain, speed and filter Should have different recording speeds: 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s. Should have option to select a style to print the ECG waves of 12 leads from: 3x4, 3x4+1R, 3x4+3R, 6x2, 6x2+1R, 12x1 Should support external USB printer Should have Li-ion battery Should able to operate for 4 Hours & print about minimum 280 ECG in Auto mode Should support multi-languageShould support bar code reader Should have upgradable feature of PC interface for feature of order function > Product should be European CE Certified > Manufacturer should be 13485:2016 certified company The device should be provided with standard accessories: ECG Cable -1 No Gel Bottle- 1 No Chest Electrodes (Set of 6)- 1 No Limb Electrodes (Set of 4)-1 No: Paper Roll- 1 Roll User Manual-1 No Power Supply :- Input to be 220-240 VAC 50 N Fitted with Indian fit Should be FDAOE European CE Approved. Electrical safely conforms to standards for Electrical Enfety IEC-60601-1 General requirement and IDC 606011 2 Electro Documentation- Use manual in Englis list important Spare Parts & Accessories. Certification of Calibration of inspection from factory



21	<p><u>Aerosol Drug Delivery System with reusable chamber</u></p> <p>Unit should consists of-</p> <p>USB Controller:</p> <ul style="list-style-type: none"> • The USB Controller system is a microprocessor-based controller to aerosolize the drug in two modes intermittent modes (30 min & 6 hours) through the nebulization unit (Solo /Pro) • It should operate with AC/DC adapter (input 100 to 240 VAC 50-60 Hz, output 9V) or from a USB port on medical electrical equipment approved to IEC/EN 60601-1 • Power Consumption should be s2.0 Watts (while nebulizing) for portable applications • The AC/DC adapter should be warranted against defects in manufacturing for a period of two years from the date of purchase. <p>(Autoclavable Nebulizer System)</p> <ul style="list-style-type: none"> • The Pro Nebulization should operates on vibrating of 1-5 micron and is controlled with wired controller (Pro X/USB) • It should be designed to deliver all medications approved gene uniform article for use with standard nebulisers to treat infants through to adult's quick setup and silent operation • It should be a multiple patient use unit and can be autoclaved at 132C-135C (270F-275F) • It should support nebulization through standard syringe pumps with dedicated/Non-standard luer connectors to eliminate the risk of misconnection for the precise volumetric dosing for reliable, .controlled aerosol delivery • It should Designed for Drop-by-drop continuous nebulisation control with the tubing priming volume maximum 3.65ml. • The input rate of medication into the nebulization unit under continuous nebulisationshould be up to a maximum of 12ml/hr. • The drug/medication cup capacity should be < 10ml
22	<p><u>B.P. Monitors</u></p> <p>Type- Upper Arm</p> <p>Display- LCD</p> <p>Date and Time- No</p> <p>Battery Type- AA</p> <p>Number of Batteries Required-4</p> <p>Measurement Method- Automatic</p> <p>Minimum Pressure Measurement Range-0mmHg</p> <p>Maximum Pressure Measurement Range-299 mmhg</p> <p>Minimum Pulse Measurement Range-40 beats/min</p> <p>Maximum Pulse Measurement Range-180 beats/min</p> <p>Pulse Measurement Accuracy-±5</p> <p>Pressure Measurement Accuracy-±3</p> <p>Sales Package- BpMoniting</p> <p>Warranty</p> <p>OMRON Indian Warranty and Free Transit Insurance</p> <p>Warranty Summary-3year</p> <p>Warranty Service- Customer needs to call customer care</p> <p>Covered Warranty- Main Unit</p> <p>Not Covered in Warranty- Batteries</p>
23	<p><u>Digital B.P Apparatus</u></p> <p>Type- Arm Type Fully Automatic</p> <p>Maximum Pulse Measurement-180 beats/min</p> <p>Pulse Measurement Accuracy- Plusmn 5% of reading</p> <p>Pressure Measurement Accuracy- Plusmn 3mmhg</p> <p>Sales Package- Easy Comfy cuff, Main Instrument Unit Instruction Manual, 4AA Batteries.</p>

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Pulse Oximeter Specification (Finger Probe)

Operational requirements: -

Suitable for adults, Paediatric patients.

Display Requirements: -

High Resolution, 1 inch Colour TFT

Parameters to be displayed: -

Spo2%, Heart Rate/ Pulse Rate

Display Range:-

1) Oxygen Saturation (SpO2): 0-100%

2) Pulse Rate (PR) 25-240bpm

Accuracy:-

1) Oxygen Saturation (SpO2): Adults

Paediatrics: 3 %

2) Pulse Rate: ± 5 bpm.

Alarm:-

Audio alarm for Low Saturation (Below 30), Low Battery, System Failure.

Battery & Back up:-

Rechargeable with 4 Hours back up.

Trends:-

NA.

Physical Characteristics:-

Light Weight.

Technology:-

Own.

SpO2 Sensor:-

Adult & Pediatric, 1 each.

Warranty:-

2 Years.

Certifications:-

CE (NB)/ USFDA Approval.

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Pulse Oximeter (Hand Held)

Operational requirements: -

Suitable for adults, Paediatric patients.

Display Requirements: -

High Resolution, 2-3 inch Colour TFT

Parameters to be displayed: -

Spo2%, Heart Rate/ Pulse Rate

Plethysmograph in form of Bar Graph

Display Range:-

1) Oxygen Saturation (SpO2): 0-100%

2) Pulse Rate (PR) 25-240bpm

Accuracy:-

1) Oxygen Saturation (SpO2): Adults

Paediatrics: 3 %

2) Pulse Rate: ± 5 bpm.

Alarm:-

Audio alarm for Low Saturation (Below 30), Low Battery, System Failure.

Battery & Back up:-

Rechargeable with 6 Hours back up.

Trends:-

NA.

Physical Characteristics:-

Weight Should be Not exceed 500gms



Technology:-
 Nomine or equivalent / Own.
 SpO2 Sensor:-
 Adult & Pediatric, 1 each.
 Warranty:-
 2 Years.
 Certifications:-
 CE (NB)/ USFDA Approval.

26 **Pulse Oximeter Table top (High end)**

Operational requirements: -
 Suitable for all type of patients adults, Paediatric, infant, and neonate.
 Display Requirements: -
 LCD/ TFT Colour Display 7 inch or more with adjustable Brightness. Touch Screen
 Parameters to be displayed: -
 Spo2%, Heart Rate/ Pulse Rate, respiration rate,
 Perfusion Index, Plethysmograph in form of Wave form.
 Display Range:-
 1) Oxygen Saturation (SpO2): 0-100%
 2) Pulse Rate (PR) 25-240bpm
 3) Perfusion Index (PI) 0.02-20%
 4) Respiration Rate: 0-70 Breaths/minute
 Accuracy:-
 1) Oxygen Saturation (SpO2): Adults
 Paediatrics: 2 %
 Neonates: 3%
 2) Pulse Rate: ± 3 bpm.
 Respiration Rate: - 1 Breath / Minute
 Alarm:-
 Audible and visual alarms for High/ Low SpO2, High/Low Pulse rate, Probe Off, Cable
 Disconnects and low Battery
 Battery & Back up:-
 Rechargeable with 8 Hours back up.
 Trends:-
 Trend Display up to 96 Hours for Spo2 & PR.
 Physical Characteristics:-
 Weight should not exceed 1.5Kg with Battery.
 Technology:-
 Massimo Set.
 SpO2 Sensor:-
 Adult & Paediatric & Neonatal 2 each or universal 2Nos.
 Warranty:-
 2 Years.
 Certifications:-
 CE (NB)/ USFDA Approval.

27 **Pulse Oximeter Table top (Low end)**

Operational requirements: -
 Suitable for all type of patients adults, Paediatric, infant, and neonate.
 Display Requirements: -
 LCD/ TFT Colour Display 4-5 inch or more with adjustable Brightness. Touch Screen
 Parameters to be displayed: -
 Spo2%, Heart Rate/ Pulse Rate
 Perfusion Index, Plethysmograph in form of Wave form.
 Display Range:-



- 1) Oxygen Saturation (SpO₂): 0-100%
- 2) Pulse Rate (PR) 25-240bpm
- 3) Perfusion Index (PI) 0.02-20%

Accuracy:-

1) Oxygen Saturation (SpO₂): Adults

Paediatrics: 2 %

Neonates: 3%

2) Pulse Rate: \pm 3 bpm.

Alarm:-

Audible and visual alarms for High/ Low SpO₂, High/Low Pulse rate, Probe Off, Cable Disconnects and low Battery

Battery & Back up:-

Rechargeable with 6 Hours back up.

Trends:-

Trend Display up to 24 Hours for Spo₂ & PR.

Physical Characteristics:-

Weight should be not exceed 2kg with Battery.

Technology:-

Nelcore.

SpO₂ Sensor:-

Adult & Paediatric & Neonatal 2 each or universal 2Nos..

Warranty:-

2 Years.

Certifications:-

CE (NB)/ USFDA Approval.



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Government Medical college,
Gondia

