



स्वामी रामानंद तीर्थ ग्रामीण शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, अंबाजोगाई.  
(अधिष्ठाता यांचे कार्यालय)

SWAMI RAMANAND TEERTH RURAL GOVT. MEDICAL COLLEGE & HOSPITAL, AMBAJOGAI DIST BEED  
PH NO (02446)245792/248963/249362/248438/-D, FAX- 02446/247132 Website www.srtrmca.org email-srt.acad@rediffmail.com  
NO.SRTRGMC&H'A/STORE/5926/2019 DATE-5/11/2019

**Sub: - Quotation for Purchase of Instrument & Equipment.....**

We are inviting the quotations as per G.R. for the following machinery and equipment's required at different department of this hospital. Quotation should be in the prescribed form and as per Terms and condition as follows.

Please quote your competitive rates in Indian Rupees only for the following items. Rates should be within the market rate Limits.

**TERMS & CONDITIONS**

1. Sales tax / Vat Clearance Certificate/ G.S.T.Certificate: - Attested copy of Sales Tax VAT Clearance Certificate mentioning clearance up to Oct 2019 or wherever applicable sales tax exemption certificate form sales tax authority.
2. Authorization Letter: - A dealer quoting on behalf of manufacturer must attach authorization letter from the manufacturer to self the equipment & to do after sales services as per. & Registration certificate of Your Institute.
3. ISO OR ISI Certificates: - In case of equipment with ISO or ISI mark, as per Quotation requirement relevant certificates from ISO or ISI should be attached.
4. Product Catalogue: - Original Catalogues / brochures should be enclosed giving technical details of the offered equipment. All specification should be substantiated by data sheets in original.
5. The delivery of goods should invariably be made with 6 weeks for indigenous terms and 12 weeks for imported items, from the date of confirm order. If the date of delivery cannot be strictly adhered to, then extension required by the quotation should be stated in the bid. No excuses for delay by any statutory like custom etc. Will be taken into consideration for extension of the period of delivery. The primary responsibility for supply of goods in time will be rest with the supplier.
6. Penalty on late delivery :- In the event of the late delivery of goods, the purchaser will recover for contractor by way penalty sum equal to half percent of price of the good (subject to maximum 5%) delivered late per week calculated from the next day after the agreed delivery period is over.
7. Warranty Period :- (including supply of spares) the warranty period shall be for Two years from the date of commissioning of all equipment's supplied as certified by the consignee.
8. Replacement of parts and service thereof due to manufacturing defects during warranty period will be entirely at the suppliers cost. The expenditure incurred for procurement of space transport, installation, commissioning and various duties there of shall be borne by the supplier.
9. Annual Maintenance Contract/ Comprehensive Maintenance Contract: - The supplier will have to agree to enter into a annual maintenance contract (AMC) @ 1% of the order value of the equipment Where required quotation will have to

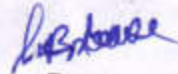
agree for comprehensive maintenance (CMC) inclusive of all spares @ 5% of the order value of the equipment. The period of such AMC/CMC will be of 8 years after completion of warranty period, in case of non-communication of AMC/CMC the supplier will be liable to pay a Penalty. Such penalty shall be recovered from the amount of bank guarantee. Payment for AMC/CMC on yearly basis will be made by the user institution, at the end of year after satisfactory performance report from the end user.

10. Payment: - Install payment of 90% of the contract value will be made on delivery and installation. Remaining 10% of contract value will be paid only on satisfactory commissioning of the machinery within 30 days or 1 month.
11. The successful quotation must ensure 100% uptime during warranty period in case of down time; warranty period will be extended for period of down time. The quotation will have to give Bank Guarantee (of Nationalized Bank) of 5% of ordered value valid for 10 years towards performance guarantee for warranty. If the equipment is not attended within 24 hours for Ambajogai and 48 hours for other places the supplier will be available to pay a penalty of 0.05% of purchase cost forever day of delay. Such penalty shall be recovered from the amount of bank guarantee; Certificate of such uptime/downtime shall be issued by the end user. Which shall be binding for the supplier?
12. Machinery Specification enclosed here with.
13. **Again no personal gain profit of purchasing institution & the provider, only one quotation given for the required purchase, Hence promising certificate is issued.**
14. **Orders of previous purchase from another Institutions.**

Note:-THE DECISION OF THE DEAN, SWAMI RAMANAND TEERTH RURAL GOVERNMENT MEDICAL COLLEGE & HOSPITAL AMBAJOGAI DIST BEED RESERVES THE RIGHT TO REJECT A WITHOUT ASSIGNING ANY REASON.

Please superscript the envelop with "QUOTATION FOR PURCHASE OF -----  
-----"due date.

Sealed quotation should reach this office on or before date: - ~~10/11/2018~~ 30/11/2019



Dean,

Swami Ramanand Teerth Rural Govt,  
Medical College & Hospital, Ambajogai, Dist-Beed.

To,

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) Notice Board & Website Development Committee, S.R.T.R.G. Medical College & Hospital, Ambajogai.

**Specification for Machinery & Equipments**

Sr.No.	Name Of instrument	Specification																																																																																																														
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1	LED Headlight	1. Watt (Powerful) 2. 20000LUX capacity 3. 2 Rechargeable batteries 4. Charger with charging adaptor 5. Powerful light for OPD Tracheotomy 6. Intensity adjustment from Minimum to maximum 7. Easily movable 8. Light weight																																																																																																														
2	Rigid Esophagoscope	<p style="text-align: center;">Technical Specification for Oesophagoscope set</p> <table border="1"> <thead> <tr> <th>Sr.No.</th> <th>Name</th> <th>Luman diameter in mm</th> <th>Lenth in CM</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td rowspan="6">1</td> <td rowspan="6">Oesophagoscope sheath (Tube)</td> <td>4*6mm</td> <td>27cm</td> <td>1</td> </tr> <tr> <td>6*8mm</td> <td>30cm</td> <td>1</td> </tr> <tr> <td>6*10mm</td> <td>35cm</td> <td>1</td> </tr> <tr> <td>8*12mm</td> <td>35cm</td> <td>1</td> </tr> <tr> <td>10*14mm</td> <td>45cm</td> <td>1</td> </tr> <tr> <td>12*16mm</td> <td>45cm</td> <td>1</td> </tr> <tr> <td>2</td> <td>Fibreoptic carrier</td> <td></td> <td>Each above lenth</td> <td>1 set</td> </tr> <tr> <td rowspan="2">3</td> <td rowspan="2">Oesophagoscope Forcep</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Single Jaw</td> <td>2.5mm</td> <td>40cm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>3.00mm</td> <td>55cm</td> <td>1</td> </tr> <tr> <td></td> <td>Peanut softtissue forcepe</td> <td>3.00mm</td> <td>55cm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>2.5mm</td> <td>40cm</td> <td>1</td> </tr> <tr> <td></td> <td>Rotation tenaculum forcepe</td> <td>2.5mm</td> <td>35cm</td> <td>1</td> </tr> <tr> <td></td> <td>Universal biopsy &amp; grasping</td> <td>3.5mm</td> <td>40cm</td> <td>1</td> </tr> <tr> <td>4</td> <td>Suction Tip</td> <td></td> <td>Each above lenth</td> <td>1set</td> </tr> <tr> <td>5</td> <td>Circular cup forceps double jaws</td> <td>2.5mm</td> <td>50cm</td> <td></td> </tr> <tr> <td>6</td> <td>Foreign wire basket with slide handle</td> <td>2.5mm</td> <td>45cm/ 50cm</td> <td></td> </tr> <tr> <td rowspan="6">7</td> <td rowspan="6">Suction tube</td> <td>2.0mm</td> <td>35cm</td> <td></td> </tr> <tr> <td>2.0mm</td> <td>40cm</td> <td></td> </tr> <tr> <td>2.0mm</td> <td>50cm</td> <td></td> </tr> <tr> <td>3.0mm</td> <td>35cm</td> <td></td> </tr> <tr> <td>3.0mm</td> <td>40cm</td> <td></td> </tr> <tr> <td>3.0mm</td> <td>50cm</td> <td></td> </tr> <tr> <td rowspan="3">8</td> <td rowspan="3">Chevaliar jackson iesophageal speculum and carrier</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Child</td> <td>13*17.5mm</td> <td></td> </tr> <tr> <td>Adult</td> <td>15mm*24.5mm</td> <td></td> </tr> </tbody> </table>	Sr.No.	Name	Luman diameter in mm	Lenth in CM	Number	1	Oesophagoscope sheath (Tube)	4*6mm	27cm	1	6*8mm	30cm	1	6*10mm	35cm	1	8*12mm	35cm	1	10*14mm	45cm	1	12*16mm	45cm	1	2	Fibreoptic carrier		Each above lenth	1 set	3	Oesophagoscope Forcep				Single Jaw	2.5mm	40cm	1			3.00mm	55cm	1		Peanut softtissue forcepe	3.00mm	55cm	1			2.5mm	40cm	1		Rotation tenaculum forcepe	2.5mm	35cm	1		Universal biopsy & grasping	3.5mm	40cm	1	4	Suction Tip		Each above lenth	1set	5	Circular cup forceps double jaws	2.5mm	50cm		6	Foreign wire basket with slide handle	2.5mm	45cm/ 50cm		7	Suction tube	2.0mm	35cm		2.0mm	40cm		2.0mm	50cm		3.0mm	35cm		3.0mm	40cm		3.0mm	50cm		8	Chevaliar jackson iesophageal speculum and carrier				Child	13*17.5mm		Adult	15mm*24.5mm	
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3	Mobile spotlight	1. should be made from stainless steel body 2. It should be revolving & easy to maove from one place to other 3. Intensity 40,000 LUX 4. The stand comes with locking wheels system 5. It should be durable & rust free 6. Easy to handle & easy to use 7. It should moving upward & downward, left & right																																																																																																														
4	Pure tone Audiometer	Channels 2 separate and identical channels Pure tone frequencies : AC and SF 12 standard 125, 8000 and 12500 Hz BC: 250-8000 Hz standard frequencies Insert phones 125-6000Hz standard frequencies Accuracy : Better than 1% Modulation: FM(Warble): 1-20Hz in 1 Hz steps, Mod.width 1%-25% in 1% steps AM for SISI: 5,4,3,1,0.75,0.50,0.25dB HL steps Attenuator:																																																																																																														

		<p>1dB HL/2.5dB HL/5db HI step resolution over the entire range  Attenuator accuracy:  In whole range: better than 3 dB HL  Between two consecutive attenuator positions:  5dB HL step: better than 1dBHL 2.5dB HL step:  Better than 0.75 dB HL  1dB HL step: better than 0.3 dB HL  HL Range:  AC-10to 120 dB HL at mid-frequencies BC: 10 to 70 dB HL at mid-frequencies  HIS function : Low pass:250Hz, 500Hz, 1 kHz or 2 kHz High pass: 1 kHz, 2kHz, 3kHz or 4kHz  Amplification options: 0,5,10,15,20,25 dB SPL  Max. output:130 dB SPL (for TDH39) gain,50 dB SPL  Masking: Narrow band noise, Speech noise and White noise (Wide band noise)  Narrowband noise: Approximately 0.44 octaves  Calibration: Effective masking according to IEC and ANSI standards.  Speech noise: Fulfills IEC and ANSI requirements to speech noise.  White noise: Bandwidth bandwidth:100-20000 Hz  Total harmonic distortion Air &lt;2.5% Bone &lt; 5%  Selectable transducersAC: TDH39, ME-70, BC:BC-1,B-71 (Mastoid / Forehead) SF: TDH39, ME-70,  Free field amplifier/ loudspeaker  Outputs AC:2xmono jack, 1/4"BC:1 x mono jack, 1/4" SF:2 x mono jack, 1/4 "  External inputs CD/Tape:0.2 to 2.0 Vrms, 10k2 x RCA phone Microphone: 0.002 to 0.02 Vrms, 2 x 8-  ploe DIN Talk Back:0.002 to 0.02 Vrms, 5-pole DIN for all microphones  DC biasfor electric Mic. Optional input resistance between: 10 k and 6000  Interrupter: The pulse frequency can be adjusted in the range 0.25 to 2.5 Hz in 0.25 Hz steps  Impulse: The signal is presented for a preset period of time: 0.25 to 2.5 seconds, in steps of 0.25  seconds</p>																																						
5	OPD Instrument Set	<p>Technical specification for OPD Instrument Set</p> <table border="1" data-bbox="406 1153 1136 1758"> <thead> <tr> <th>Name</th> <th>Qty.</th> </tr> </thead> <tbody> <tr><td>Tongue depressor set of four different sizes</td><td>1</td></tr> <tr><td>IDL mirror with handle set of four different sizes</td><td>1</td></tr> <tr><td>Probe</td><td>3</td></tr> <tr><td>Head mirror</td><td>2</td></tr> <tr><td>Nasal packing forcep</td><td>1</td></tr> <tr><td>Plester knife</td><td>1</td></tr> <tr><td>Round knife</td><td>1</td></tr> <tr><td>Straight pick</td><td>1</td></tr> <tr><td>Curved pic</td><td>1</td></tr> <tr><td>Rasp</td><td>1</td></tr> <tr><td>Microear scissor straight</td><td>1</td></tr> <tr><td>Micro ear scissor left</td><td>1</td></tr> <tr><td>Malleus nibbler</td><td>1</td></tr> <tr><td>Alligator crocodile forcep serrated</td><td>1</td></tr> <tr><td>Allegator cup forcep</td><td>1</td></tr> <tr><td>Suction set of 14</td><td>1</td></tr> <tr><td>Adapter</td><td>3</td></tr> <tr><td>Nasal suction set of four</td><td>1</td></tr> </tbody> </table> <p>All instruments should be made of good quality stainless steel.  Should confirm to industry standards.</p>	Name	Qty.	Tongue depressor set of four different sizes	1	IDL mirror with handle set of four different sizes	1	Probe	3	Head mirror	2	Nasal packing forcep	1	Plester knife	1	Round knife	1	Straight pick	1	Curved pic	1	Rasp	1	Microear scissor straight	1	Micro ear scissor left	1	Malleus nibbler	1	Alligator crocodile forcep serrated	1	Allegator cup forcep	1	Suction set of 14	1	Adapter	3	Nasal suction set of four	1
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6	O.T.Table	<p>Technical Data:  Minimum Height : 75+/- 5cm  Maximum Height: 95+/- 5cm  Length Table Top: 180 cm to 195 cm  Width of Table Top : 50 cm  Lateral tilt: 20°+/- 2°  Trendelenburg: 30°+/- 3°  Hydraulic Lift: 22cm</p> <p>Should have  Single Action Hydraulic Lift  Heavy Mild Steel Base with Fibre wheels providing stability  To the entire table shuld have auto floor locking device.  The should provides smooth movement and the Speed of lowering the table should be permanently set</p>																																						

		<p>Accessories of OT TABLE  Aneasthetic Frame (1Pcs)  Paddle Side Supports (1Pair)  Intravenous Armboard (1 Pair)  Padded Shoulder Supports (1 Pair)  Knee Cruches (1 Pair)  One Matters Set Thickness 50mm</p>
ANAESTHESIA		
8	Syringe Infusion	<ol style="list-style-type: none"> <li>1. Syringe Pump Type / Model: Infusor II</li> <li>2. Dimensions 10.5 inch x 5.5 inch x 3.5 inch + handle</li> <li>3. Aitp, atoc Suromge detectopm</li> <li>4. AC [pwer sil]; u 240 60Hz Battery Type Rechargeable Battery Life 4 hours at 5ml /h</li> <li>5. Infusion mode : rate, time and body weight</li> <li>6. KVO Rate 0.1 – 999ml (0.1 ml per step) Programmable</li> <li>7. Programming RANGE: infusion Rate Volume To Be infused 0.1ml/ h to 1200ml/ h dependent on syringe size 0.1 ml to 9999ml</li> <li>8. Alarm for : occlusion, mains failure, battery failure, KVO, near end</li> <li>9. Approximate Pressure: Low (L) Medium © High (H)</li> <li>10. Keypad lock function</li> <li>11. Anti Bolus system</li> <li>12. P.C.A. control for pain ki</li> </ol>
9	Pulse Oximeter	<ol style="list-style-type: none"> <li>1. Compact portable bedside pulse oximeter with minimum 4 inch and above, multicolour TFT LCD display</li> <li>2. Continuous monitoring of SpO2 (arterial blood oxygen saturation) pulse rate and signal strength</li> <li>3. Should have manual selection of adult, pediatric and neonatal mode.</li> <li>4. Measuring Range: <ol style="list-style-type: none"> <li>a. SpO2: 1 to 100%</li> <li>b. Pulse Rate: 25 to 250 bpm</li> <li>c. pulse Amplitude: 0.03% to 20%</li> </ol> </li> <li>5. Accuracy SpO2 for Adult, Pediatric &amp; Neonate – 70% to 100% (+- 2 digits) &amp; 60% to 69% (+- 3digit)</li> <li>6. Display Shows: SpO2 (%) PR (HR in bpm), Plethysmographic Waveform, Pulse amplitude with visual indicators for pulse search, audible alarms silenced or off, interference indicator, battery charging and Alarm management</li> <li>7. Multicolor display screen with ideal contrast for easy readability</li> <li>8. Should offer accurate and reliable performance in monitoring conditions of low perfusion and signal interference. It Must show SpO2 value for low perfusion patients with accuracy - 70% to 100% (+-2 digits)</li> <li>9. should have wide range of sensors including forehead sensor for more effective monitoring option in low perfusion patients.</li> <li>10. Tenderer should have wide range of sensors for adult, pediatric, Neonatal and premature patient types separately for adhesive and Velcro type disposable sensors to accommodate diverse patient sizes, weights and needs.</li> <li>11. Sensor Event Report, allowing patient alarm events to be recorded on sensors for memory back up of 80 hours or more.</li> <li>12. Power Requirements: 100 to 240V, 50/60Hz and internal re-chargeable battery with 5 hours battery back –up</li> <li>13. It should be European CE and US FDA approved for device and sensors.</li> <li>14. Should be certified for CCHD Screening &amp; motion artifact by USFDA.</li> <li>15. It should be light weight of less than 2kg and size not above 84Hx260Wx170D (mm)</li> <li>16. It should comply with EN IEC 60601 standard</li> <li>17. User preset of high/low alarm on SpO2 and PR monitoring</li> <li>18. Audio visual alarm for SpO2 and PR in case measurements are outside preset range with alarm silence feature</li> <li>19. Should have Satseconds alarm management system to reduce the unwanted alarms which disturbs the sick patients.</li> <li>20. Automatic switch from mains to batteries in case of power failure</li> <li>21. Should have USB port for download and software up-gradation</li> </ol>

10	Fogger Machine	<ul style="list-style-type: none"> <li>• Compatible with all types of water based disinfectants including acidic, alkaline, oxidizing, quaternary ammonium based, peroxide and silver nitrate combination.</li> <li>• Produce nearly invisible droplets of particle size 0.1 -10 microns.</li> <li>• Suitable for 100 ~ 1,000 square feet area.</li> <li>• Made of corrosion proof, durable body made of heavy duty nylon material.</li> <li>• SS316 made nozzle pin</li> <li>• Have an integrated air intake filter.</li> <li>• Should have an integrated reservoir filter.</li> <li>• The tank should be &gt;6Lit volume .</li> <li>• Disinfectant Level should be visible in the tank .</li> <li>• Timer of 0-60 minutes should be integrated with the fogger body.</li> </ul>
OPHTHALMIC		
11	Schiotz Tonometer	<ol style="list-style-type: none"> <li>1. Should have precision measurement on scale of 0 to 20 subdivision and 0 to -1 subdivision</li> <li>2. Should be supplied with three weights [5.5gm, 7.5gm, 10gm] and a conversion table.</li> <li>3. Should have perfect reading of Scale with red pointer.</li> <li>4. Should have all vital part such as curved foot plate weighted plunger ,holder ,lever with needle ,weights made of stainless steel and other parts Should be chrome plated.</li> </ol>
12	Perkins Tonometer	<ol style="list-style-type: none"> <li>1. Should have precision measurement range of 0 to 50 mmHg.</li> <li>2. Should have LED Light source.</li> <li>3. Should have rechargeable battery power supply.</li> <li>4. Should be functional in temperature range -10 to 35°C.</li> <li>5. Should be functional in humidity range 30% to 90%.</li> <li>6. Should be functional in atmospheric pressure 800 to 1060 hPa.</li> </ol>
13	Slit Lamp with Teaching Aid	<ol style="list-style-type: none"> <li>1. Should be Galilean-type converging binocular microscope type.</li> <li>2. Should have atleast 2/3/5 step magnification .</li> <li>3. Should have real fields of view of 23 mm to 5.6 mm diameter.</li> <li>4. Should have interpupillary adjustments of atleast <u>48.5 to 77 mm</u> .</li> <li>5. Should have slit width from atleast from 0 to 14 mm continuously variable.</li> <li>6. Should have slit length 0 to 14 mm continuously variable.</li> <li>7. Should have slit inclination from 0 to 20°</li> <li>8. Should have slit rotation 0 to 180°</li> <li>9. Should have heat absorbing ,red free ,cobalt blue filters ,Neutral density.</li> <li>10. Should operate from 200 to 240Vac ,50Hz input supply.</li> <li>11. Should be supplied with motorised table.</li> <li>12. Should have a longitudinal movement of atleast 90 mm.</li> <li>13. Should have a lateral movement of atleast 95 mm.</li> <li>14. Should have a vertical movement of atleast 30 mm.</li> <li>15. Should have a chin rest vertical movement of atleast <u>80mm</u>.</li> <li>16. Should have good illumination using halogen/ xenon lamps.</li> <li>17. Should have attached teaching aid.</li> </ol>
14	Bjerrums Screen	<ol style="list-style-type: none"> <li>1. Should be Visual Field Testing Type</li> <li>2. Should be based on Principle of Scotoma testing for Glaucoma</li> <li>3. Should have measurement Range of Radial lines at 15' intervals &amp; Circles at 5' intervals</li> <li>4. Should Have Physical Parameters of about Size: 60-65" H x 40-45" W</li> <li>5. Should be made of Black Matte Material</li> <li>6. Should come with Standard Accessories of ; <ul style="list-style-type: none"> <li>• 1-1/2mm white test object,</li> <li>• 18" wand,</li> <li>• Black marking pins</li> <li>• a pad 50 double recording chart score sheets.</li> <li>•</li> </ul> </li> </ol>

15	Streak Retinoscope	<ol style="list-style-type: none"> <li>1. Should be Hand Held Type</li> <li>2. Should work on Principle of Retinoscopy</li> <li>3. Should have measurement Range of Streak Image width 1.1-1.5 mm &amp; Length 3-3.5 mm</li> <li>4. Should have step less Dimming from 0% to 100%</li> <li>5. Should have Illumination Type: LED</li> <li>6. Should have Metal Body &amp; Rechargeble Handle</li> <li>7. Should have single control for vergence &amp; Rotation</li> <li>8. Should be supplied with standard Accessories such as <ul style="list-style-type: none"> <li>• Streak Retinoscope,</li> <li>• USB Rechargeble handle,</li> <li>• Charger,</li> <li>• Case,</li> <li>• Holder for Fixation Cards.</li> </ul> </li> </ol>
16	Goldmans Applanation Tonometer	<ol style="list-style-type: none"> <li>1. Should be applanation type.</li> <li>2. Should be based on Goldmann Tonometry principle.</li> <li>3. Should have a measuring range from 0 to 78 mmHg in steps of 2 mmHg</li> <li>4. Should have an accuracy of <math>\pm 0.5</math>mmHg.</li> <li>5. Should be supplied with calibration bar ,prism and tonometer mount based to fix with optics.</li> <li>6. Should be compatible with all models of slit lamps.</li> <li>7. Should supply 1 no. spare prism.</li> <li>8. Controls should be visible and clearly defined.</li> <li>9. Labels and markings should be clear and visible.</li> <li>10. Should have operating temperature range of 10° to 35° C.</li> </ol>
<b>SURGERY</b>		
17	Multipara Monitor	<ul style="list-style-type: none"> <li>• 1 12.1 inch touch screen</li> <li>• 2 VGa Output</li> <li>• 3 Support Various Modules Including 3/5/12</li> <li>• 4 Leads ECG, Respiration,SPo2,NIBP, CO2, ag</li> <li>• Multi-dispaly Lorge Font, standard full leads,</li> <li>• trand oxy crg</li> <li>• 5 720h Monitoring Data storage</li> <li>• Support Multi-language central Monitoring Systems</li> <li>ECG <ul style="list-style-type: none"> <li>• 1 Lead Mode:I, II ,III, AVL,Avf, v</li> <li>• 2 gAIN: 0.25,*0.5, *1,*2</li> <li>• 3 hEART rATE:15-300BPM (Ault) 15-350(Neonetal)</li> <li>• 4 Resulution:1 BPM</li> <li>• 5 Accuracy:+-10%</li> <li>• 6 St measurement Range:-2.0-+2.0Mv</li> <li>• 7 Sweep speed:12.5mm/s,25mm/s,50mm/s</li> <li>• 8 bandwidth Disagnostic: 0.05-130Hz</li> </ul> </li> <li>• Monitor: 05-40Hz</li> <li>• Surgery :1-20Hz</li> </ul> <p>Spo2</p> <ul style="list-style-type: none"> <li>• 1 Measurement Range: 0-100%</li> <li>• 2 Resolution:1%</li> <li>• 3 Accuracy:2%(70-100%)</li> <li>• 4 Pulse rate:20-250Bpm</li> <li>• 5 Resolution:1BPM</li> </ul>

		<ul style="list-style-type: none"> <li>• 6 Accuracy: +_3BPM</li> <li>• NIBP</li> <li>• 1 Work Mode: Manual, Automatic, continuous</li> <li>• 2 Unit :mmHg,Kpa</li> <li>• 3 Measurement Range</li> <li>• Adult Sys:40-280mmhg</li> <li>• Dia: 10-225mmhg</li> <li>• Mean:20-2440mmHg</li> <li>• Pediatric</li> <li>• Sys:40-220 mmhg</li> <li>• Dia: 10-160MMHg</li> <li>• Mean:20-170 MMHg</li> <li>• Neonatal</li> <li>• Sys: 40-135mmhg</li> <li>• Dia: 10-180 mmhg</li> <li>• Mean: 20-110 mmHg</li> <li>• 4 Resolution: 1MMhg</li> <li>• 5 Accuracy: 5mmHg port Upgrade</li> <li>• Respiration</li> <li>• Measure range :0-15GB/PM</li> <li>• Resolution:18rpm</li> <li>• Accuracy: +_2%</li> <li>• Temperature</li> <li>• Measurement range: 0-50c</li> <li>• Accessories</li> <li>• 1 IbP Cable: 2</li> <li>• 2 Adult pediatric and neonatal cuff</li> <li>• 3 Adult and Pediatric spo2 Probe</li> <li>• 4 Power supply Cable</li> <li>• 5 Nibp Horse Pipe tubing</li> </ul> <p>Stabilizer 5 lead ecg cable</p>
18	5 functions Manual ICU Bed	<p>Best comparative ICU Bed with great comfort to patient . Having foam with pure PU Material mattress.</p> <p><b>Silent Feature</b></p> <ol style="list-style-type: none"> <li>1) Manual Foot moving downward &amp; Upward to patient.</li> <li>2) Manual Thigh adjustment to patient</li> <li>3) Manual head adjustment to patient</li> <li>4) Manual up &amp; down adjustment of patient</li> <li>5) Manual up &amp; down at west or Knee rest of patient.</li> <li>6) Pure solid material with antirust.</li> <li>7) Light weight for moving easy efficiency.</li> <li>8) Frame work made up of M.S.Tubes.</li> <li>9) Bed Mounted on 5" Caster , 2 brackets</li> <li>10) SS Telescopic IV Rod with 4 hook and at 4 location.</li> <li>11) Two Pieces individual side bars detachable facility.</li> <li>12) Overall Approx size 2180L / 940W / 470-700H ( mm )</li> <li>13) Collapsible Bed side Aluminum Railings. .</li> </ol>



19	Man man Drill for Craniotomy	<p>We are the prominent customer for specifically customized drill machine for craniotomy . We can make the high definition drill machine according to customer demand.</p> <p style="text-align: center;"><b>Specifications</b></p> <ul style="list-style-type: none"> <li>• Rotary Cutter</li> <li>• Weight - 700 gms. Approx</li> <li>• Ideal for craniotomy.</li> <li>• Autoclavable</li> <li>• Ergonomically Designed</li> <li>• Operates on Manman Driving Unit (220 V/5A AC)</li> <li>• Easy to operate during surgery .</li> <li>• Smooth handling.</li> </ul>																																							
20	Burr Hole set	<p>Burr Hole set contain 5 Different size of the cutter for various specialized surgeries . Pure SS Material with Anti-Rust facility. Long Life Durable product.</p>																																							
21	Electric Craniotomy	<p>We would like to introduce us as a leading wholesale surgical dealer in the Neurosurgery . Elecric Carniotome is the best product used for the neurosurgery procedure . It has a great advantage for the brain surgical procedure</p> <p>Elecric Craniotomy contains part like Motor , Stand , Foot Control, Flexible Shaft, Tool Kit , Oil Bottle and Special Container.</p> <p><b><u>Driving Unit</u></b></p> <ul style="list-style-type: none"> <li>a) It has a clear voltage of 220 / 5 Amp A.C. Supply</li> <li>b) Completely enclosed structure</li> <li>c) Foot control for ON or OFF</li> <li>d) Easy to make changes in speed at foot control</li> <li>e) Super quality with Long Life durability product</li> </ul> <p><b><u>STAND</u></b></p> <ul style="list-style-type: none"> <li>a) Caster for mobility</li> <li>b) Stand can be totally dismantle</li> <li>c) Easy to transport with suitcase packing</li> <li>d) Hanging type diving also available at demand</li> </ul>																																							
22	Advance Vascular Surgery set Having 63 Instruments including Loops	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sr.</th> <th style="width: 70%;">Instrument</th> <th style="width: 20%;">Quantity</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Allis forceps 8"</td> <td>06</td> </tr> <tr> <td>02</td> <td>Allis forceps 6"</td> <td>06</td> </tr> <tr> <td>03</td> <td>Artery forceps curved 6"</td> <td>12</td> </tr> <tr> <td>04</td> <td>Artery forceps curved 8" roberts</td> <td>02</td> </tr> <tr> <td>05</td> <td>Artery forceps curved 8" tonsil</td> <td>02</td> </tr> <tr> <td>06</td> <td>Artery forceps mosquito cd.</td> <td>08</td> </tr> <tr> <td>07</td> <td>Artery forceps mosquito st.</td> <td>12</td> </tr> <tr> <td>08</td> <td>B.p.handle no.3</td> <td>01</td> </tr> <tr> <td>09</td> <td>B.p.handle no.4</td> <td>02</td> </tr> <tr> <td>10</td> <td>B.p.handle no.7</td> <td>02</td> </tr> <tr> <td>11</td> <td>Cautery holder</td> <td>02</td> </tr> <tr> <td>12</td> <td>Chest spreader two bladed</td> <td>02</td> </tr> </tbody> </table>	Sr.	Instrument	Quantity	01	Allis forceps 8"	06	02	Allis forceps 6"	06	03	Artery forceps curved 6"	12	04	Artery forceps curved 8" roberts	02	05	Artery forceps curved 8" tonsil	02	06	Artery forceps mosquito cd.	08	07	Artery forceps mosquito st.	12	08	B.p.handle no.3	01	09	B.p.handle no.4	02	10	B.p.handle no.7	02	11	Cautery holder	02	12	Chest spreader two bladed	02
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25	Semi Flowers Bed	<p>Top frame with 2 sections: Panel with S S Sheet Top, Screws for Maneuvering Propped up back rest &amp; Leg Rest, Provision to fit patient guard rail: easily removable S S Bows: Tubular SS Legs with nylon shoes: IV Rod provision At 2 Location</p>																																																																	

26 Multipara Monitor

- 1 The monitor should have adult, paediatric and neonatal applications and should be user friendly.
  - 2 It should be capable of monitoring ECG, non-invasive blood pressure, oxygen saturation(SpO2) and Respiration , dual Temp, dual IBP & EtCo2. Should be future upgradeable to CO,CCO, BIS & EEG.
  3. The monitor should be modular in design with colour touch screen of minimum 15" in size with coloured waveforms. Display of waveform as well as the numbers should be clearly visible from a distance of up to 6-10 feet.
  4. The Touchscreen should be full touchscreen and not touch buttons.
  5. The modules should be freely exchangeable for same make of monitors.
  6. The monitor should display at least 8 curves at a given time and the operator should be able to arrange curves, graphics and measured value fields as desired on the screen. The operator should be able to freeze the waveforms as well.
  7. Monitor should have Emergency Transport module wherein it can be used during patient transfer and can be plugged into main unit again.
  8. Emergency module should have graphical color TFT touchscreen Display of atleast 5.5" which can display waveforms of ECG,SPO2, EtCO2 & 2 IBP And display parameters of NIBP, Respiration& dual Temp
  9. The Emergency Transport Module should be able to display 12 lead ECG on the screen at a time.
  10. Emergency module should have rechargeable battery built-in for at-least 240 minutes.
  11. Emergency transport module when used for transport should have direct wi fi connectivity to wi fi Central station and not through monitor only.
  12. Monitor should have facility to view other beds data on the screen
  13. The Main (Base) monitor also should have Wi Fi connection with central station.
  14. It should have a facility of data storage for at least 72 hours of trended parameters and should also have graphical & tabular trends.
  15. Should have a facility to deactivate all the alarms if necessary.
  16. The monitor should have full disclosure of at least 4 waveforms
  17. The monitor should have Following software's Hemodynamic Calculation,ST Analysis, Drug dose calculation
  18. The main unit should have rechargeable battery with operating time of at least 90 minutes
  19. The unit should have drug dose calculation, Oxygenation & ventilation calculation packages with connection facility to Standrad make ventillators
  20. The unit should be European CE (Notified Body) or US FDA approved. The certificates for the same should be submitted with the offer, without which offer is liable to be rejected.
  21. The monitor should be HL7 compatible
- ECG monitoring: Essential specifications**
1. Available leads: I,II, III, V, AVR, AVL, AVF, V
  2. Should display one or all the selected leads at a time
  3. Accuracy of +/- 2 beat / min.
  4. Should efficiently filter out the electrical disturbances.
  5. Should have ST segment analyser.
  6. Should have arrhythmia monitoring facility for more than 20 arrythmias
  7. Should have user selectable alarms.
  8. Heart rate measuring range: 15-300 beats/min
  9. Standard AHA standardized,, CE certified, ECG cable should be provided.
- Pulse Oximeter (SpO2)**
1. Should provide a digital value of the arterial oxygen saturation as well as diagnostic plethysmographic pulse waveform. SpO2 Measurement Technology

	<p>should be Infrared Absorption &amp; motion artefact tolerant from Nellcor/Massimo/Nihon Kohden</p>	
	<p>2. Measurement range: 0 to 100%</p>	
	<p>4. User selectable upper and lower alarm limits.</p>	
	<p>5. Standard reusable pulse oximetry probes for adult, pediatric and neonatal use.</p>	
	<p>6. Should be sensitive and function accurately even at low perfusion states of low blood pressure or hypothermic conditions. It should display perfusion index in %</p>	
	<p>Respiration</p>	
	<p>1. Range: 0-150 rpm or more</p>	
	<p>2. Accuracy: +2rpm</p>	
	<p>3. Should have an apnea alarm</p>	
	<p>Non-invasive blood pressure (NIBP) monitoring:</p>	
	<p>1. Should have Oscillometric method of measurement of BP.</p>	
	<p>2. Range: 10-300 mm Hg for adults, 10-300 for paediatric and 10-150 for neonates</p>	
	<p>3. Should provide over pressure protection</p>	
	<p>4. BP cuffs should be latex free, CE certified, washable and sterilizable, Velcro based, carrying artery symbol and indexline</p>	
	<p>5. Accessories, NIBP cuff:</p>	
	<p>a. For Adult Thigh</p>	
	<p>b. For arm: Large adult, Adult, Small adult, Paediatric, Neonatal</p>	
	<p>Invasive blood pressure (IBP) monitoring:</p>	
	<p>1. Should have 2 channels and upgradeable to 4 IBP</p>	
	<p>2. Should have range of -50-300</p>	
	<p>3. IBP overlapping facility should be available</p>	
	<p>4. IBP Labeling should be possible</p>	
	<p>5. Should display PPV/SPV</p>	
	<p>Accessories to be supplied with each Monitor :</p>	
	<p>5 Lead ECG cable - 2 nos.</p>	
	<p>Adult and Paediatric SpO2 Probe with Extension - 2 nos each</p>	
	<p>NIBP Cuffs (Adult, Paediatric &amp; Neonate) - 2 each</p>	
	<p>NIBP Hose -2no</p>	
	<p>Temperature Probes - 2 nos.</p>	
	<p>IBP Disposable Transducer- 10 nos.</p>	
	<p>IBP Patient Cable - 2 nos.</p>	
	<p>Power cord -1 no.</p>	
	<p>Warranty Card- 1 no.</p>	
	<p>Monitor Wall Mount Stand Socket for each Monitor</p>	
	<p>Bed Multi Parameter Central Monitoring with Wi Fi System Software with following features</p>	
	<p>1. System should have user friendly touchscreen</p>	
	<p>2. 16 bed alignments, with full screen zoom options.</p>	
	<p>3. Online Arrhythmia Recognition &amp; recall facility for all arrhythmias of bedside</p>	
	<p>4. 120 Hours Heart Rate Trend</p>	
	<p>5. 120 hours data storage, retain &amp; reviewal capacity.</p>	
	<p>6. Smart Alarm, Alarm Logging &amp; Alarm queue up facility.</p>	
	<p>7. HL7 Compatible</p>	
	<p>10. Patient's Data remains stored safely even after a Power Failure'</p>	
	<p>11. All the data (Current as well as Stored) can be printed on network printer.</p>	
	<p>12. Parameters : ECG, SpO2, NIBP, Resp, 2IBP, EtCO2 &amp; 2Temp or upgradable to parameters as viewed on Bedside monitor</p>	
	<p>22. UPS of 600 VA</p>	
	<p>25. 24" and above High Resolution TFT Monitor</p>	
	<p>26. HP Laser Printer</p>	

		27. Patient monitoring network shall use standard TCP/IP protocol and be capable of residing on hospital's network infra-structure
		28. Suitable appropriate size Table for Central Station
27	Pulse Oximeter	<ol style="list-style-type: none"> <li>1. Compact portable bedside pulse oximeter with minimum 4 inch and above, multicolor TFT LCD display.</li> <li>2. Continuous monitoring of SpO2 (arterial blood oxygen saturation), pulse rate and signal strength</li> <li>3. Should have manual selection of adult, pediatric and neonatal mode.</li> <li>4. Measuring Range: <ol style="list-style-type: none"> <li>a. SpO2: 1 to 100%</li> <li>b. Pulse Rate: 25 to 250 bpm</li> <li>c. Pulse Amplitude: 0.03% to 20%</li> </ol> </li> <li>5. Accuracy SpO2 for Adult, Pediatric &amp; Neonate – 70% to 100% (+ 2 digits) &amp; 60% to 69% (+ 3 digits)</li> <li>6. Display Shows: SpO2 (%), PR (HR in bpm), Plethysmographic Waveform, Pulse amplitude with visual indicators for pulse search, audible alarms silenced or off, interference indicator, battery charging and Alarm management settings</li> <li>7. Multicolor display screen with ideal contrast for easy readability</li> <li>8. Should offer accurate and reliable performance in monitoring conditions of low perfusion and signal interference. It must show SpO2 value for low perfusion patients with accuracy – 70% to 100% (+ 2 digits)</li> <li>9. Should have wide range of sensors including forehead sensor for more effective monitoring option in low perfusion patients</li> <li>10. Tenderer should have wide range of sensors for Adult, Pediatric, Neonatal and premature patient types separately for adhesive and Velcro type disposable sensors to accommodate diverse patient sizes, weights and needs.</li> <li>11. Sensor Event Report, allowing patient alarm events to be recorded on sensors for memory back up of 80 hours or more.</li> <li>12. Power Requirements: 100 to 240V, 50/60Hz and internal re-chargeable battery with 5 hours battery back-up</li> <li>13. It should be European CE and US FDA approved for device and sensors.</li> <li>14. Should be certified for CCHD Screening &amp; motion artifact by USFDA.</li> <li>15. It should be light weight of less than 2kg and size not above 84Hx260Wx170D (mm)</li> <li>16. It should comply with EN IEC 60601 standard</li> <li>17. User preset of high/low alarm on SpO2 and PR monitoring</li> <li>18. Audio visual alarm for SpO2 and PR in case measurements are outside preset range with alarm silence feature</li> <li>19. Should have Satseconds alarm management system to reduce the unwanted alarms which disturbs the sick patients.</li> <li>20. Automatic switch from mains to batteries in case of power failure</li> <li>21. Should have USB port for download and software up-gradation</li> </ol>
28	Gynaec Examination Table	<ul style="list-style-type: none"> <li>• It should be strong</li> <li>• It should be made up of stainless steel</li> <li>• It should be 7 ft.Long</li> <li>• It should contain instrument trolley</li> <li>• It should have racks</li> </ul>
30	10 mm 30 degree telescope with hand Instrument	<ul style="list-style-type: none"> <li>* Length 36 cm</li> <li>* Full HD telescope should contain 14 rods</li> <li>* 30 degree HD Hopkins telescope</li> <li>* wide angle straight forward</li> <li>* Autoclavable</li> <li>* Fibre optic light transmission incorporated</li> <li>* 2 Years warranty should be given</li> <li>* Demonstration of each individual instrument is compulsory</li> <li>* Necessary training for cleaning lubrication, sterilization care and maintance and handling of the instrument should be given to doctors or paramedical staff</li> </ul>

31	4 mm HD Hystroscope 30 degree with Hand Instrument	<ul style="list-style-type: none"><li>• Full Hd telescope should contain 14 rods</li><li>• 30 degree HD Hopkins telescope</li><li>• Wide angle straight forward</li><li>• Autoclavable</li><li>• Fibre optic light transmission incorporated</li><li>• 2 years warranty should be given</li><li>• Demonstration of each individual instrument is compulsory</li><li>• Necessary training for cleaning lubrication, sterilization care and maintenance and handling of the instrument should be given to doctors or paramedical staff</li></ul>
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
Pages

## Technical Specification of CO2 Insufflator

- Digital Indication of set pressure from 0-30 mm Hg.
- Digital Indication of intra abdominal pressure.
- Digital Indication of set and actual flow from 1 to 25 Liters/minute.
- Digital indication of total volume consumed 0 to 99 Liters.
- Pulsatile flow of gas in veress mode.
- Non-Pulsatile flow of gas in trocar mode (linear flow).
- Built in additional air Insufflator with automatic pressure cut-off with high flow.
- Auto cut-off and restart on abdominal pressure reaching set value.
- Built-in warmer to avoid fogging of telescope and prevent hypothermia.
- Universal regulator to accept any size of CO2 cylinder.
- In-built filter to curtail pollutants from cylinder gas.
- Safety Valve in regulator acting as an auto blow-off for excess CO2 pressure in cylinder.
- Cylinder gas Indicator in console (empty / full)
- Feather touch switch to change on to air mode.
- Feather touch tactile switch.
- Inbuilt stabilizer.
- Norseless operation.
- Compact size.
- Voltage 230V A. C. 50Hz  $\pm$  10%

### Accessories:

- Silicon autoclavable tube set
- Anti-microbial filter.
- High pressure hose(PVC tube)
- Pressure gauge regulator.
- Universal wrench (spanner).
- Power cord.
- Spare washer and fuse.
- It must provide 1 No. CO<sub>2</sub> Jumbo cylinder ( Medical Grade)

  
 Professor & Head  
 Department of Obstetrics & Gynaecology  
 S.R.T.R.Govt.Medical College,

  
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P.T.O

Page II

Technical Specification for LED light source

- It should be Micro-controller based technology.
- Should be LED based with more than 50,000 hours of life.
- Should have flicker free steady light output with consistent color temperature for long use.
- Light intensity adjustable from 0 - 100% manually.
- Should have low heat emission.
- Should have protection from abrupt disconnection of Fiber cable, which automatically shuts off the light output.
- Should have standby MODE to avoid power wastage during unused condition.
- Should have Real time and Surgery time indication with history backup.
- Color Rendering Index should be more than > 90
- Color temperature should be 5000 k $\pm$  500
- Maximum deviation in color temperature can be + / -300 k ( from 1% - 100% intensity)
- Input operating voltage 230VAC
- 3 years comprehensive warranty
- Power supply : 230 V + 10 %, 50Hz + 3%
- Operational training to user department.
- Operating and detail service manual should be provided.
- Operationalization: Operating Temperature: 40°C  
Storage Temperature: 60°C  
Relative Humidity: Up to 90% non-condensing.

*[Signature]*  
Professor & Head  
Department of Obstetrics & Gynaecology  
S.R.T.R. Govt. Medical College  
Ambajogal-431517

*[Signature]*



**ORTHOPEDIC**

34 IFT 150 programs

Interferential therapy has its uses in pain relief and muscular contraction . It is used as a technique to achieve either of these when other methods are not appropriate or unavailable, and are often conducted in conjunction with other treatments

**SPECIFICATION :**

- DIMENSION (L\*H\*D) 358mm, 149mm 354mm
- Weight : 5kg approx.
- Operating voltage : 220 v 50Hz
- Absorption : 50 watts
- Fuses : 1 Amp
- Room Temperature : 10\* to 40\* C
- Moisture : 10% to 40%
- Display : Large
- Preset program : 150
- Customize user program : 150

35 Ultrasound Therapy

Micro-controller based Ultrasound Therapy Unit with 3MHz

**Applications:**  
For neuromuscular and musculo skeletal disease to mobilise collagen tissues, remove edema & reduce pain

**Specifications:**

Dimension (L x H x D)	195 mm, 95 mm, 270 mm
Weight	3 Kg. (Approx)
Power Input	220 V, AC, 50 Hz
Ultrasound Frequency	3 MHz
Display	Digital
Max. Output in Cont. Mode	2 W/cm2 or 15 W
Max. Output in Pulse Mode	3 W/cm2 or 21 W
Pulse Repetition Rate (Plus Frequency)	50 & 100 Hz
Pulse Temporal-Peak (Average Ratio)	Duty Cycle 1:2, 1:4, 1:8, 1:16
Treatment Time	99 Minutes Maximum
Transducer	3 MHZ
End of Therapy	Buzzer

36 Traction Machine

**Product Description**

**Usage**  
Clinical, Hospital

**Brand**  
DoctorTech India

**Frequency**  
50-60Hz

**Dimension**

		<p>12 X 11.3 X 11 Inches</p> <p><b>Input Voltage</b> 90 To 270 V</p> <p><b>Max Weight</b> 90 Kgs</p> <p><b>Min Weight</b> 0-44 Kgs</p> <p><b>Minimum Order Quantity</b> 1 Piece</p> <p>We are offering <b>Digital Cervical &amp; Lumbar Traction Machine</b> to our clients.</p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>Built-in Microcontroller for accuracy and consistency.</li> <li>Soft touch membrane keys are used to select the parameters.</li> <li>Bar graph display indicates the traction force.</li> <li>Weight and hold time/rest time can be set with 1 unit step.</li> <li>Traction force from 3 kg to 45 kgs (up to 90 kgs with doubler)</li> <li>High quality improved heavy duty DC motor for durability and smooth function.</li> <li>Microcontroller based Accurate weight settings</li> <li>Real weight sensing mechanism</li> <li>Wide input Voltage range</li> <li>Soft touch switches</li> <li>Easy to operate</li> <li>Compete with international standards</li> </ul> <p><b>Standard Accessories:</b></p> <ul style="list-style-type: none"> <li>Output Cable with jack pin:2 pairs</li> <li>Neck Collar Belt</li> <li>Lumbar Belt</li> <li>Thoracic Belt</li> <li>Mainline cord: 1 no</li> </ul>
37	Traction Table	<p><b>Product Description</b></p> <p><b>Material</b> Mild Steel</p> <p><b>Usage/Application</b> Hospital</p> <p><b>Is It Adjustable Seat</b> Adjustable Seat</p> <p><b>Frame Surface Finish</b></p>

		<p>Powder Coated</p> <p><b>Number Of Legs</b></p> <p>6</p> <p><b>Set Contents</b></p> <p>Bed And Stool</p> <p>Owing to devoted experts, we have been competent to present a wide range of <b>Adjustable Steel Three Fold Traction Bed</b>. These products are made as per industry norms and standards.</p>
38	Cpm	<p><b>Description:</b></p> <p>Continuous passive motion therapy immediately after surgery can give several important patient benefits like maintenance or improvement in the range of motion, reduction in pain and discomfort recovery. It also offers improvement in the fluid dynamics. An electronic control system for increasing and decreasing range of motion. Patient safety switch provided.</p> <p><b>Specification:</b></p> <p>operational voltage: 220v, 50hz</p> <p>weight: 10 kg</p> <p>dimensions: w 320 mm x d 335mmx h 150 mm</p> <p>hold time: 0-10 sec.</p> <p>rest time: 0-10 sec.</p> <p>angle control: 0-120o</p>
39	Laser Therapy	<p>Item</p> <p>Description</p> <p>Laser medium</p> <p>GaAlAs Semiconductor</p> <p>Laser wavelength</p> <p>808nm and 650 nm</p> <p>Terminal laser output</p> <p>11 laser beams with 650nm and 4 laser beams with 808nm</p> <p>Terminal maximum power output</p> <p>Probe A is 180mW and Probe B is 775mW</p> <p>Timing setting</p> <p>10-60 minutes and 6 grades adjustable</p> <p>Working temperature</p> <p>-40-55°C</p> <p>Relative humidity</p> <p>below 80%</p> <p>Atmospheric pressure</p> <p>86kpa-106kpa</p> <p>Dimension(cm)</p> <p>product</p> <p>34*24*16</p> <p>package</p> <p>36.2*25.4*30.2</p> <p>Weight(KGS)</p> <p>3.5kg</p>
40	Major Tens	<p><b>TECHNICAL SPECIFICATION:</b></p> <p>Power Source :220-24 V v AC 50/60Hz</p> <p>Fuse: 5AMP Channel : Four independent output</p> <p>Pulse Frequency : 2Hz, 10Hz, 50Hz,100Hz, 125Hz</p> <p>Six Automode: Cont. (Continuous)</p> <p>Burst1, Burst 2</p> <p>PWM-C (Pulse width Modulation-continuous)</p> <p>Sweep, Comb Pulse Amplitude: 0 - 80 mA/Channel Timer : 0 - 99 min</p> <p>Weight: 2.5g./unit approx</p>

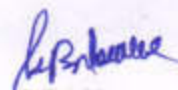
		<p>Pulse Amplitude: 0-80mA/Channel</p> <p><b>Accessories:</b> 1pc: Main Cord ,4pcs - Wire 8pc- Rubber Electrode ,2set of Straps.<b>Optional Accessories:</b> Carry Bag, Gel Bottle</p>
41	Moist heat	<p>Moist Heat Therapy Unit (with 4Pack) is also known as hydrocollator Moist Heat Therapy Unit (with 4Pack) is used for heating the Steam Packs. Steam Packs Available Inside:</p> <ol style="list-style-type: none"> <li>1) Small (Size: 5" x 12")-1pc</li> <li>2) Standard(10" X 12") - 1pc</li> <li>3) Full Back(10" X 22")-1pc</li> <li>4) Cervical - 1pc</li> </ol> <p>Technical Specification: Inner Chamber Size:13" X 9" X (14"H) Outer Chamber Size: 16" X 12" X (19"H) Heater : 1250 watt Stainless grade 304</p>
42	Treadmill	<p>Around 4 feet hight. Button model Digital Screen with programs of cardiac rehabilitation</p>
43	Gun adjuster	<p>Specification of Physio Gun -Helps relieve muscle pain, stiffness and soreness -Increases range of motion -Increases circulation and blood flow -Lightweight, easy-to-use for self-myofascial release</p> <p>-The Deep Percussion Device is a cordless state-of-the-art vibration massage device that relieves muscle stiffness and soreness, increases circulation and range of motion, and improves the overall health of the body's soft tissue. Technology Specifications and Features: -Powerful high-torque motor featuring Quiet Glide technology -3 speed settings deliver up to 3200 percussions per minute -Rechargeable lithium-ion battery (Up to 3 hours of use per charge) -4 interchangeable head attachments -Lightweight (2.5lbs/1.13kg), ergonomic design</p>
44	Muscle Stimulator	<ul style="list-style-type: none"> <li>• Input voltage : 220 V AC 50 Hz</li> <li>• Galvanic : Maximum Output 100 volt</li> <li>• Interrupted galvanic : A switch to select 4 different mode of frequency</li> <li>• Faradic : compriser 40 pulse of 0.9 ms. Each pulse of 0.9 ms</li> <li>• Surge Faradic : Step less control to increases</li> </ul>
<b>MEDICINE</b>		
47	Infusan Pump	<ul style="list-style-type: none"> <li>• Should be operated on drip rate peristaltic finger pump method.</li> <li>• Should compatible with most of the IV set ( macro/micro drip sets)</li> <li>• Should have the following flow rates</li> <li>• IV set ml/hr drops/min <ul style="list-style-type: none"> <li>15 drops/ml 3-450ml/hr 1-100drops/min</li> <li>20 drops/ml 3-450ml/hr 1-100drops/min</li> <li>60 drops/ml 1-100ml/hr 1-100drops/min</li> </ul> </li> <li>• Should have a flow rate accuracy of +- 10% and drip rate accuracy of +-2%</li> <li>• Should have a volume infused display from 0 to 999.9ml</li> <li>• Should have a purge and KVO facility</li> <li>• Should have an audible and visual alarm for occlusion pressure, air alarm, door open, empty, low battery</li> <li>• Should have a LCD display with backlight and graphical display of infusion should have a minimum 2hr battry back up at highest delivery rate</li> <li>• Should work with input 200 to 240V ac 50 Hz supply</li> </ul>

48	Defibrillator	<ul style="list-style-type: none"> <li>• Should be compact, light weight, easy to use, Bi-Phasic Defibrillator with Manual ( with easy 1-2-3 operation)</li> <li>• Should monitor ECG and display them</li> <li>• Should be able to print the ECG on thermal papers</li> <li>• Should be capable of doing synchronized cardio version</li> <li>• Should be operated from mains as well as battery</li> <li>• Should be a low energy Biphasic defibrillator monitor with recorder, having capability to deliver shocks from 2 joules to 200 joules</li> <li>• Should monitor ECG through paddles, pads and monitoring electrodes and Defibrillate through pads and paddles</li> <li>• Should compensate for body impedance for a range of 25 to 150 ohms should have a built in 50 mm strip printer</li> <li>• Should have charging time of less than 5 seconds for maximum energy</li> <li>• Should have High resolution more than 8 inch Colour display for viewing monitoring parameters like ECG, SpO<sub>2</sub>, NIBP and etCO<sub>2</sub> with 4 waveform capability of 4 seconds</li> <li>• Both Adult and pediatric paddles should be available</li> <li>• Should have event summary facility for recording and printing at least 55 events.</li> <li>• Should have a battery capable of usage for at least 5 hours of monitoring</li> <li>• Should be capable of printing Reports on Event summary, configuration, self test, battery capacity etc.</li> <li>• Should have facility for self test/ check before usage and set up function.</li> <li>• Should have facility to monitor parameters like SpO<sub>2</sub>, NIBP and etCO<sub>2</sub> along with non invasive pacing (Demand &amp; Fixed mode) facility.</li> <li>• Should be able to upgrade the defibrillator for 12 lead ECG monitoring and ECG transmission</li> </ul>
<b>BIO-CHEMISTRY</b>		
50	Centrifuge (Bench Top)	<p style="text-align: center;"><b>"TABLE TOP LABORATORY CENTRIFUGE"</b></p> <p>It should be suitable for routine sample analysis in Medical, Hospital, Biochemistry.  It should have head and adaptor for rotor.  It should have operator safety with stainless steel chamber.  It should have brushless induction motor.  It should have frequency drive.  It should have microprocessor controller.  It should be with 7 segment LCD display of speed, time.  It should be with digital countdown timer &amp; continuous run.  It should be with imbalance detector, dynamic brake, safety lid lock.  It should have acceleration and deceleration profiles.  It should be with swing out rotor of capacity 24 tubes of 15 ml capacity.  It should be supplied with rotor, glass centrifuge tubes and accessories.  It should have maximum Speed not less than 6000 rpm or 5070 g with full capacity.  It should be suitable with supply of 220-240 volts 50 Hz single phase.  With at least two years warranty and operation manual.  <b>Free installation and training to lab staff.</b></p>
51	Electronic Bottle dispenser	<p style="text-align: center;"><b>" ELECTRONIC BOTTLE TOP DISPENSER "</b></p> <ul style="list-style-type: none"> <li>➤ It should be safe, convenient &amp; customisable for broad range of application which should permit bottle dispensing of aggressive reagents like acids alkalies, saline and organic solvents.</li> <li>➤ It should be made up of chemical &amp; thermal resistance material.</li> <li>➤ It should have ceramic piston, glass cylinder, high resistant fluoro-plastic parts.</li> <li>➤ It should have 360° rotating dispensing head with flexible discharge tube with safety handle to facilitate serial dispensing even into narrow test tubes.</li> <li>➤ <b>It should have electronic adjustments for adjusting of dispensing volume</b> and display screen.</li> <li>➤ It should have incremental volume set ups.</li> <li>➤ Dispensing Volume (1) 0.2 ml to 2.0 ml. - 01 No. (2) 0.5ml to 5.0 ml. - 01 No.</li> <li>➤ It should be fully autoclavable at 121° C.</li> <li>➤ It should have easy to attach aspiration tube with a secure threaded connection.</li> </ul>

		<ul style="list-style-type: none"> <li>➤ It should have user replaceable valves.</li> <li>➤ It must be provided with wide range of adapters to fit common bottle sizes.</li> <li>➤ It must be easy to calibrate and adjust in order to comply with ISO 9001 &amp; GLP guidelines.</li> <li>➤ It should have 2 year warranty.</li> </ul>
52	Semi Autoanalyser	<p><b>OPTICS :</b></p> <ul style="list-style-type: none"> <li>- Static Photometer</li> <li>- Diffraction gratings/ interference filters</li> <li>- 340,405,450,505,546,578,600 and 670nm</li> <li>- Silicon photodiode detectors</li> <li>- Photometric range from 0 to 2.5 OD</li> <li>- Quartz halogen lamp of 12V,20W</li> </ul> <p><b>MEASURING :</b></p> <ul style="list-style-type: none"> <li>-a. flow cell</li> <li>-b. (10 mm) square cuvette.</li> <li>-c. (6 mm) round glass tube with adaptor.</li> <li>- d.Peltier temperature control 25°C,30°C,37°C and off</li> <li>- e.peristaltic pump.</li> <li>-f. Minimum aspiration volume 200µl</li> </ul> <p><b>ANALYSIS MODES :</b> Mono/Bichromatic,Fixed end point, Kinetic</p> <p><b>MEMORY :</b></p> <ul style="list-style-type: none"> <li>- 200 user defined test programs <ul style="list-style-type: none"> <li>- 1000 tests results</li> <li>- Reagent blank</li> <li>- 2 level QC</li> </ul> </li> </ul> <p><b>BUILT IN QC :</b></p> <ul style="list-style-type: none"> <li>- Daily and monthly monitoring for 2 level Levy-Jenning QC graphs</li> </ul> <p><b>DISPLAY :</b></p> <ul style="list-style-type: none"> <li>- High resolution graphics LCD</li> </ul> <p><b>KEYBOARD :</b></p> <ul style="list-style-type: none"> <li>- Touch screen / multi function keys</li> </ul> <p><b>PRINTER :</b></p> <ul style="list-style-type: none"> <li>- In built high resolution graphic thermal printer operational on demand only</li> </ul> <p><b>INTERFACE :</b></p> <ul style="list-style-type: none"> <li>- RS-232C serial port</li> <li>-parallel port</li> <li>-port for external keyboard(with external keyboard)</li> </ul> <p><b>POWER :</b></p> <ul style="list-style-type: none"> <li>- External universal SMPS adaptor</li> <li>-18 v DC, 100 w,90-264V,50/60 Hz</li> </ul> <p style="text-align: center;"><b>System with UPS having 2 hrs back up of reputed brand.</b></p>
53	High Capacity Centrifuge	<p style="text-align: center;"><b><u>"HIGH CAPACITY CENTRIFUGE"</u></b></p> <p>It should be suitable for routine sample analysis in Medical, Hospital, Biochemistry as well as research institute.</p> <p>It should have head and adaptor for rotor.</p> <p>It should have operator safety with stainless steel chamber.</p> <p>It should have brushless induction motor.</p> <p>It should have frequency drive.</p> <p>It should have microprocessor controller.</p> <p>It should be with 7 segment LCD display of speed, time.</p> <p>It should be with digital countdown timer &amp; continuous run.</p> <p>It should be with imbalance detector, dynamic brake, safety lid lock.</p> <p>It should have acceleration and deceleration profiles.</p> <p>It should be with swing out / angular rotor of capacity 32 to 40 tubes of 15 ml capacity each.</p> <p>It should be supplied with rotor for 36 tube x 15ml capacity glass centrifuge tubes and accessories.</p> <p>It should have maximum Speed not less than 6000 rpm or 7350 g with full capacity. With speed holding accuracy 100 RPM.</p> <p>It should be suitable with supply of 220-240 volts 50 Hz single phase.</p> <p>With at least two years warranty and operation manual.</p> <p><b>Free installation and training to lab staff.</b></p>

54	Bottle dispensers	<p style="text-align: center;"><b>" BOTTLE TOP DISPENSER "</b></p> <ul style="list-style-type: none"> <li>➤ It should be safe, convenient &amp; customisable for broad range of application which should permit bottle dispensing of aggressive reagents like acids alkalies , saline and organic solvents.</li> <li>➤ It should be chemical &amp; thermal resistance.</li> <li>➤ It should have ceramic piston, glass cylinder, high resistant fluoplastic parts.</li> <li>➤ It should have 360° rotating dispensing head with flexible discharge tube with safety handle to facilitate serial dispensing even into narrow test tubes.</li> <li>➤ It should have incremental volume set ups.</li> <li>➤ Dispensing Volume (1) 0.2 ml to 2.0 ml.-01No. (2) 0.5 ml to 5.0 ml.-01 No.</li> </ul> <p>It should be fully autoclavable at 121° C.</p> <ul style="list-style-type: none"> <li>➤ It should have easy to attach aspiration tube with a secure threaded connection.</li> <li>➤ It should have user replaceable valves.</li> <li>➤ It must be provided with wide range of adapters to fit common bottle sizes.</li> <li>➤ It must be easy to calibrate and adjust in order to comply with ISO 9001 &amp; GLP guidelines.</li> <li>➤ It should have 2 year warranty.</li> </ul>
55	Pipette dispensers	<p style="text-align: center;"><b>" PIPETTE DISPENSER "</b></p> <ul style="list-style-type: none"> <li>*It should be easy to use, reliable for serial pipetting, dispensing of aggressive reagents like acids alkalies , saline and organic solvents.</li> <li>* It should be ideal to use with glass and plastic standard pipettes from 1ml to 100ml based on positive displacement principle with pore size 0.45µm and <b>preferably motorized control.</b></li> <li>* It should have reusable safety check valves &amp; hydrophobic 0.2µm PTFE membrane filter to prevent contamination of the unit by liquid or vapours of the solution being aspirated into the pipette.</li> <li>* It should have single channel with dispensing volume 1ml to 10ml.</li> <li>* It should display no of executed dispensing steps, volume display.</li> <li>* It should have automatic combi tip recognition arrangement.</li> <li>* It should have at least 20 different settings for every combi tip size.</li> <li>* It should be wall or carousel mountable.</li> <li>* It should be provide with AC recharger.</li> <li>*It should have 2 year warranty.</li> </ul>
<b>PHARMACLOGY</b>		
56	Student physiography	<ul style="list-style-type: none"> <li>-Coloured TFT display (online offline recording)</li> <li>- Digital Physiograph with time and event channel</li> <li>- 6 couplers fitted in a single unit</li> <li>- 8 transducers ( force, pressure, volume, respiration belt, isotonic)</li> <li>- Interface to computer through USB</li> <li>- Software to review and print the recorded data from PC</li> </ul>
57	Critical Flicker	<p>Power 12V DC P@5 Amp, 2.1mm centre positive DC plug  Fuse – 0,5 amp, 5 X 20 mm fast blow  Frequency- 1-100Hz, increments with error of 0.05%  View angle 1.9*  Light/ Dark ratio 1:1  Typical luminescence 58Cd/m<sup>2</sup>  Stimulus colour white</p>

58	Hand Steadiness	Distance between 2 steel plate 0.625 inch at one end and 0.125 inch at other end
59	Animal Weighing Balance	Electric Capacity – minimum 1 gm
60	Mannequin for Demonstration	To demonstrate the various routes of drug administration
61	Vortex Mixer	Model: BST/VM-501 1000 RPM in continuous mode Orbit: 4.2mm Action type: touch & continuous Max load: 1kg Power: 220/230 V 50 Hz
62	Rotarod assembly	With rotating cylinder Diameter: 30mm (mice)/ 70 mm (rats)
63	Metabolic Cages (diuretic Studies)	Water bottle: 150 ml S. S. cage body with grill type floor with attached funnel, Mesh plate for separation Urine collection beaker P.P. M. S. powder coated stand Rack made of S.S 304 Material & suitable to hold 6-8 metabolic cages for small rodents (economy model) DUC-1

  
DEAN,

Swami Ramanand Teerth Rural Govt.  
Medical College & Hospital, Ambajogai



स्वामी रामानंद तीर्थ ग्रामीण शासकीय वैद्यकीय महाविद्यालय, अंबाजोगाई.  
(अधिष्ठाता यांचे कार्यालय)

SWAMI RAMANAND TEERTH RURAL GOVERNMENT MEDICAL COLLEGE, AMBAJOGAI DIST BEED  
PH NO (02446) 245792/2449362/248438/- D, FAX- 02446/247132 Website www.srtrmca.org email-srt.acad@rediffmail.com  
SRTRGMCA/STORE/19-20/PLAN/GOVT./3449/2019 DATE - 15 / 11 /2019

**Sub: - Quotation for Purchase of Instrument & Equipment.....**

We are inviting the quotations as per G.R. for the following machinery and equipment's required at different department of this hospital. Quotation should be in the prescribed form and as per Terms and condition as follows.

Please quote your competitive rates in Indian Rupees only for the following items. Rates should be within the market rate Limits.

**TERMS & CONDITIONS**

15. GST Registration Certificate.
16. Authorization Letter: - A dealer quoting on behalf of manufacturer must attach authorization letter from the manufacturer to self the equipment & to do after sales services as per.
17. ISO OR ISI Certificates: - In case of equipment with ISO or ISI mark, as per Quotation requirement relevant certificates from ISO or ISI should be attached.
18. Product Catalogue: - Original Catalogues / brochures should be enclosed giving technical details of the offered equipment. All specification should be substantiated by data sheets in original.
19. The delivery of goods should invariably by make with 6 weeks for indigenous terms and 12 weeks for imported items, from the date of confirm order. If the date of delivery cannot be strictly adhered to, then extension required by the quotation should be stated in the bid. No excuses for delay by any statutory like custom etc. Will be taken into consideration for extension of the period of delivery. The primary responsibility for supply of goods in time will be rest with the supplier.
20. Penalty on late delivery :- In the event of the late delivery of goods, the purchaser will recover for contractor by way penalty sum equal to half percent of price of the good (subject to maximum 5%) delivered late per week calculated from the next day after the agreed delivery period is over.
21. Warranty Period :- (including supply of spares) the warranty period shall be for Two years from the date of commissioning of all equipment's supplied as certified by the consignee.
22. Replacement of parts and service thereof due to manufacturing defects during warranty period will be entirely at the suppliers cost. The expenditure incurred for procurement of space transport, installation, commissioning and various duties there of shall be borne by the supplier.

23. Annual Maintenance Contract/ Comprehensive Maintenance Contract: - The supplier will have to agree to enter into a annual maintenance contract (AMC) @ 1% of the order value of the equipment Where required quotation will have to agree for comprehensive maintenance (CMC) inclusive of all spares @ 5% of the order value of the equipment. The period of such AMC/CMC will be of 8 years after completion of warranty period, in case of non-communication of AMC/CMC the supplier will be liable to pay a Penalty. Such penalty shall be recovered from the amount of bank guarantee. Payment for AMC/CMC on yearly basis will be made by the user institution, at the end of year after satisfactory performance report from the end user.
24. Payment: - Install payment of 90% of the contract value will be made on delivery and installation. Remaining 10% of contract value will be paid only on satisfactory commissioning of the machinery within 30 days or 1 month.
25. The successful quotation must ensure 100% uptime during warranty period in case of down time; warranty period will be extended for period of down time. The quotation will have to give Bank Guarantee (of Nationalized Bank) of 5% of ordered value valid for 10 years towards performance guarantee for warranty. If the equipment is not attended within 24 hours for Ambajogai and 48 hours for other places the supplier will be available to pay a penalty of 0.05% of purchase cost forever day of delay. Such penalty shall be recovered from the amount of bank guarantee; Certificate of such uptime/downtime shall be issued by the end user. Which shall be binding for the supplier?
26. Machinery Specification enclosed here with. The instrument supplied should be as per specifications.
27. Again no personal gain profit of purchasing institution & the provider, only one quotation given for the required purchase, hence promising certificate is issued.
28. Orders of previous purchase form another institutions.

Note:-THE DECISION OF THE DEAN, SWAMI RAMANAND TEERTH RURAL GOVERNMENT MEDICAL COLLEGE & HOSPITAL AMBAJOGAI DIST BEED RESERVES THE RIGHT TO REJECT WITHOUT ASSIGNING ANY REASON.

Please superscript the envelope with "QUOTATION FOR PURCHASE OF -----"due date.  
Sealed quotation should reach this office on or before date: -30/11/2019.

(टिप- यंत्रसामुग्रीच्या खरेदी करिता दरपत्रके मागविण्याची कार्यवाही शासनाकडून प्राप्त होणारी प्रशासकीय मान्यता व उपलब्ध होणारा निधी यांच्या अधिन राहून करण्यात येत आहे.)



Dean,

Swami Ramanand Teerth Rural Govt,  
Medical College, Ambajogai, Dist-Beed.

To,

- 1.-----
- 2.-----
- 3.-----

5. Notice Board & Website Development Committee, S.R.T.R.G. Medical College, Ambajogai.

## Specification of Instrument & equipment, College

Sr. No.	Item Name	Approx Qty Required	Specification																																																
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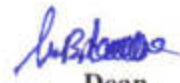
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03	Lab Refrigerator (400 Litter.)	04 Nos.	<b>Specifications</b> <ul style="list-style-type: none"> <li>• Should have ISI mark</li> <li>• Should have capacity of approx, 400 lit.</li> <li>• Should have front opening.</li> <li>• Should be double door.</li> <li>• Should be operated in mains 220-240 V AC 50 Hz input power supply. ss</li> </ul>																												
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06	Incubator	02	<b>Specifications</b> <ol style="list-style-type: none"> <li>1. Incubator are sturdy double walled units of size 18 inch x 18 inch x 18 inch dimensions.</li> <li>2. Inner chamber made of M.S/S.S and outer made of mild steel with power coating.</li> <li>3. Gap between the walls fitted with glass wool insulations to avoid hear loosed.</li> <li>4. Heating elements are made of high grade chrome plated nichrome wire.</li> <li>5. Temp. Is controlled by thermostat</li> <li>6. Temp. range from 5°C above ambient to 60 ° C and accuracy (with digital accuracy +/- 0.5°C)</li> <li>7. Air ventilations is provided on the top of all unit to remove the hot gases/fumes</li> <li>8. In lab type incubators heaters are placed in the bottom side of the unit.</li> <li>9. All the control switches and pilot lamps are fitted on the front panel.</li> <li>10. Trays should be supplied with G.I. wire mesh</li> </ol>																												

			11. Air circulation fan for uniform temp.												
07	Centrifuge Machine (16 Tubes holding capacity)	04	<p><b>Specifications</b></p> <ol style="list-style-type: none"> <li>1. Steeples speed Regulator</li> <li>2. Safety Lid interlock to prevent cover opening during centrifugation</li> <li>3. Dynamic brake for quick deceleration</li> <li>4. Wide choice of swing Out/Angle rotors and reduction adaptors</li> <li>5. 16 tubes Holding Capacity</li> </ol> <table border="1"> <tr> <td>Max Speed</td> <td>Rpm</td> <td>4400</td> </tr> <tr> <td>Max RCF</td> <td>G</td> <td>2350</td> </tr> <tr> <td>Max Capacity</td> <td>MI</td> <td>200</td> </tr> <tr> <td>W x D H</td> <td>mm</td> <td>330 x 370 x 295</td> </tr> </table>	Max Speed	Rpm	4400	Max RCF	G	2350	Max Capacity	MI	200	W x D H	mm	330 x 370 x 295
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08	Continuous temperature monitoring system	01	<p><b>Specifications</b></p> <ol style="list-style-type: none"> <li>1. Should have live monitoring system along with numerical &amp; graphical options.</li> <li>2. Should have Audible &amp; Visible alarm indication</li> <li>3. Must have facility for Numerical data report with date wise encrypted file be generated automatically</li> <li>4. Must have facility for Graph Report, Continuous graph report be generated directly from the software</li> <li>5. Must have Setup for all users to keep separate username &amp; password</li> <li>6. User name must be selectable or one can write Username</li> <li>7. All users must be able to change their own password</li> <li>8. Must have facility for Data Portability Import-Export to Pen Drive</li> <li>9. Exported Data must be non-editable &amp; must not be viewed in other environment. To view the backup data, one should import in the Computer Screen again.</li> <li>10. All record must be electronically stored in computer memory and must be printable.</li> </ol>												
09	Coagulometer	02	<p><b>Specifications</b></p> <ol style="list-style-type: none"> <li>1. The analyser should work on Turbodensitometric principle</li> <li>2. Should be able to perform only Clotting tests like PT, APTT, Fibrinogen, Thrombin time and Factor assays.</li> <li>3. The analyser should have minimum two (2) reagent position</li> <li>4. The analyser should have minimum five (5) incubating positions for cuvettes.</li> <li>5. The analyser should have minimum one (1) measurement channel at 37 degree C for optimum reaction environment</li> <li>6. The analyser should have minimum 12 programmable assays</li> <li>7. Should have minimum 10,000 result storage memory</li> <li>8. The analyser should have in built printer with stabilizer</li> </ol>												
10	Gel card centrifuge machine	02	<p><b>Specifications</b></p> <ol style="list-style-type: none"> <li>1. Table top centrifugation of gel system cards.</li> <li>2. Centrifuge should have at least 08 card capacity for centrifugation</li> <li>3. Centrifuge should have prefixed rpm (range 80 to 1200 rpm)</li> <li>4. Centrifuge should have prefixed time for centrifugation of 08 cards so it becomes easy for testing ( range 8 to 12 minuits)</li> <li>5. Centrifuge should be easy to operate, user friendly and should be compact instrument</li> <li>6. Centrifuge should be associated with its accessories like <ol style="list-style-type: none"> <li>a. Workstation should be associated with its accessories like</li> <li>b. Incubator</li> <li>c. Micropipettes or required quantity</li> <li>d. With micropipette tips.</li> </ol> </li> </ol>												

11	Fully automated Elisa Reader	01	<b>Specifications</b>	
			System type	Open system
			Plate type	96 well
			Wells type	U.V. and flat bottom wells
			Operating mode	Absorbance Quantitative Qualitative Semi- Quantitative Kinetic mode
			Measurement mode	Continuous/sleep
			Shaking mode	Three liner speeds-low medium and fast time duration can be set
			Wavelength selection	Monochromatic Bi chromatic multichromatic
			Calculation mode	Nonlinear standards Cut off Index formula Column subtraction Linear regression Point to point Cubic spline Linear log
			Blank option	Blank control assay validation
			Number or programmable standards/calibrators	
			Test programs	
			Photometer	8, channel optical measuring system lamp: tungsten halogen Wavelength:400 to 800 nm Standard filters:405 nm, 450 nm, 630 nm (10 nm band pass) (optional filters 578 nm, 700nm) Dynamic range : (0.0-4.0 OD) Photometric accuracy : <1% at 2.5 OD at 450 nm Repeatability:<0.5 % at 2.5 OD at 450 nm Linearity: <1% at 2.5 OD at 450 nm
			Measurement time	Normal : 16 sec single wavelength Speed : 8 sec single wavelength
			Display	High resolution graphics LCD 320x240 pixels.
			Keyboard	Sturdy waterproof & membrane panel
			PC communication	RS232/USB
Built in thermal printer	High regulation, 384 dotsperline, thermal with full graphics facility, option for connecting external printer.			
Computer interfacing software	Windows based software Eli-LIMS with data management (optional) PC link identification software enables reading of microbiology kits.			

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**Dean,  
Swami Ramanand Teerth Rural Govt,  
Medical College, Ambajogai, Dist-Beed.**



स्वामी रामानंद तीर्थ ग्रामीण शासकीय वैद्यकीय महाविद्यालय, अंबाजोगाई.  
(अधिष्ठाता यांचे कार्यालय)

SWAMI RAMANAND TEERTH RURAL GOVERNMENT MEDICAL COLLEGE, AMBAJOGAI DIST BEED  
PH NO (02446) 245792/2449362/248438/- D. FAX- 02446/247132 Website www.srtrmca.org email-srt.acad@rediffmail.com  
SRTRGMCA/STORE/PLAN/19-20/COLLEGE/ 9450/2019 DATE - 15 / 11 /2019

**Sub: - Quotation for Purchase of Instrument & Equipment.....**

We are inviting the quotations as per G.R. for the following machinery and equipment's required at different department of this hospital. Quotation should be in the prescribed form and as per Terms and condition as follows.

Please quote your competitive rates in Indian Rupees only for the following items. Rates should be within the market rate Limits.

**TERMS & CONDITIONS**

1. GST Registration Certificate.
2. Authorization Letter: - A dealer quoting on behalf of manufacturer must attach authorization letter from the manufacturer to self the equipment & to do after sales services as per.
3. ISO OR ISI Certificates: - In case of equipment with ISO or ISI mark, as per Quotation requirement relevant certificates from ISO or ISI should be attached.
4. Product Catalogue: - Original Catalogues / brochures should be enclosed giving technical details of the offered equipment. All specification should be substantiated by data sheets in original.
5. The delivery of goods should invariably by make with 6 weeks for indigenous terms and 12 weeks for imported items, from the date of confirm order. If the date of delivery cannot be strictly adhered to, then extension required by the quotation should be stated in the bid. No excuses for delay by any statutory like custom etc. Will be taken into consideration for extension of the period of delivery. The primary responsibility for supply of goods in time will be rest with the supplier.
6. Penalty on late delivery :- In the event of the late delivery of goods, the purchaser will recover for contractor by way penalty sum equal to half percent of price of the good (subject to maximum 5%) delivered late per week calculated from the next day after the agreed delivery period is over.
7. Warranty Period :- (including supply of spares) the warranty period shall be for Two years from the date of commissioning of all equipment's supplied as certified by the consignee.
8. Replacement of parts and service thereof due to manufacturing defects during warranty period will be entirely at the suppliers cost. The expenditure incurred for procurement of space transport, installation, commissioning and various duties there of shall be borne by the supplier.

9. Annual Maintenance Contract/ Comprehensive Maintenance Contract: - The supplier will have to agree to enter into a annual maintenance contract (AMC) @ 1% of the order value of the equipment Where required quotation will have to agree for comprehensive maintenance (CMC) inclusive of all spares @ 5% of the order value of the equipment. The period of such AMC/CMC will be of 8 years after completion of warranty period, in case of non-communication of AMC/CMC the supplier will be liable to pay a Penalty. Such penalty shall be recovered from the amount of bank guarantee. Payment for AMC/CMC on yearly basis will be made by the user institution, at the end of year after satisfactory performance report from the end user.
10. Payment: - Install payment of 90% of the contract value will be made on delivery and installation. Remaining 10% of contract value will be paid only on satisfactory commissioning of the machinery within 30 days or 1 month.
11. The successful quotation must ensure 100% uptime during warranty period in case of down time; warranty period will be extended for period of down time. The quotation will have to give Bank Guarantee (of Nationalized Bank) of 5% of ordered value valid for 10 years towards performance guarantee for warranty. If the equipment is not attended within 24 hours for Ambajogai and 48 hours for other places the supplier will be available to pay a penalty of 0.05% of purchase cost forever day of delay. Such penalty shall be recovered from the amount of bank guarantee; Certificate of such uptime/downtime shall be issued by the end user. Which shall be binding for the supplier?
12. Machinery Specification enclosed here with. The instrument supplied should be as per specifications.
13. Again no personal gain profit of purchasing institution & the provider, only one quotation given for the required purchase, hence promising certificate is issued.
14. Orders of previous purchase form another institutions.

Note:-THE DECISION OF THE DEAN, SWAMI RAMANAND TEERTH RURAL GOVERNMENT MEDICAL COLLEGE & HOSPITAL AMBAJOGAI DIST BEED RESERVES THE RIGHT TO REJECT WITHOUT ASSIGNING ANY REASON.

Please superscript the envelope with "QUOTATION FOR PURCHASE OF -----"due date.  
Sealed quotation should reach this office on or before date: 30/11/2019.

(टिप- यंत्रसामुग्रीच्या खरेदी करिता दरपत्रके मागविण्याची कार्यवाही शासनाकडून प्राप्त होणा-या निधीच्या अधिन राहून करण्यात येत आहे.)

  
Dean,

Swami Ramanand Teerth Rural Govt,  
Medical College, Ambajogai, Dist-Beed.

To,

- 1.-----
- 2.-----
- 3.-----

4. Notice Board & Website Development Committee, S.R.T.R.G. Medical College, Ambajogai.

## Specification of Instrument & equipment, College

Sr. No.	Item Name	Approx Qty Required	Specification
<b>Dept. of Physiology (शरीरक्रियाशास्त्र)</b>			
01	BMR Apparatus	01 Nos.	A recording spirometer is a spirometer with recording kymograph. The XOOM spirometer consist of a hollow double-walled vessel The space between the two walls contains water, making it air light In the space between the two walls an inverted hollow cylindrical bell of 6l capacity is placed The bell is attached to a counterbalance with a chain, which passes over a pulley The counter balance carries a pen for writing on the kymograph paper The kymograph can operate at four different speeds selectable from the front panel The ZOOM spirometer records the volume and capacity of lung
02	Trade mill	01 Nos.	Use frequency semi-professional Maximum user weight 150 kg Power (peak/continue) 4,5CV/3,0CV Speed 1-22K/h Max, Electrical elevation 0-15 ECO mode Yes Speed instant keys yes Elevation instant keys yes Running area (L×W) 155×55 cm Damping system smart konik + Flex system Contact heart rate measuring yes Fan yes Soft Drop System (SDS) NO Transport wheels yes Length 200 cm Width 94 cm Height 148 cm Weight 137 kg Foldable No Programs Preset programs (Prg) 36 Random program (RP) No Customizable profiles (uprg) 1 Fitness test (FT) No Heart rate control programme (HRC) 1 Recovery fat test (BF) yes Monitor Screen TFT 9" Monitor with HIT by BH training scheme NO Universal holder for smartphones and / or tablets yes Telemetric heart rate yes Bluetooth heart rate no
<b>Dept of FMT (न्यायवैद्यकशास्त्र)</b>			
03	Anthropometric Set	01 Nos.	The shape functioning of the kit is designed for safe storage and transportation of anthropometric measuring tools. The upper layer is made of waterproof fabric that is highly resistant to mechanical damage and

			requires minimal maintenance. The side walls are reinforced to ensure shape retention and impact resistance in the event of a fall, keeping the measuring tools safe from damage. The soft padded interior is divided into compartments that contain elastic bands to securely hold the instruments in place.
			List of instruments and equipment that the kit is designed for: 1. A226 Anthropometer 2. K-211 Spreading caliper 3. P-216 Pelvimeter 4. T-520 Modified thoracometer 5. V-372 Small height rod 6. M-222 Sliding caliper 7. Best II K-501 Caliper 8. Soft metric tape 9. Writing pad and data sheet (notepad) pocket 10. Pen pocket 11. Disinfectant pocket 12. Pocket for the "Instructions for use of Anthropometry Measurement Tools" 13. Spare pocket
<b>Department of Microbiology (सुक्ष्मजीवशास्त्र)</b>			
04	Microscope Binocular Every Faculty (Advance Research Binocular ISI Certified)	06 Nos.	BMC-330 Biological Binocular Research Microscope Model- BMC-330 Condition - New Frequency - 50/60 Hz Condenser - Na 1.25 abbe condenser with iris diaphragm Stage - 132mm×140mm double Layers mechanical stage moving range 50 mm ×75mm Is it portable – portable Precision – 01 mm Eye piece – achromatic objective (4X,10X,40XS,100XS) Optical System – Finite color corrected optical system Viewing head 30 degree inclined monocular head, 30 degree inclined binocular head Frame – Coaxial coarse and fine adjustment with adjustable external wide voltage ac adapter 100V-220V Keeping in mind the ever-evolving needs of our clients, we are devoted towards offering an optimum quality array of BC+MC-330 Biological Microscope Viewing Head – 30 deg. inclined trinocular head splitting ration R:T 80:20 Interpupillary distance :50-75mm,+/- dioptre adjustable.
05	Microscope Binocular Every Faculty (Research Microscope Fine Quality Eye Tieces)	06 Nos.	<b>Viewing Head :</b> Binocular tube, 30° inclined, 360° rotatable <b>Eyepiece :</b> Wide Field eyepiece WF 10x, FOV 18 MM <b>Nosepiece:</b> Quadruple nosepiece (ball bearing type) <b>Objective :</b> QUSP Series Semi- PLAN DIN Objective 4x,10x,40x(S) & 100x Qil, (S) <b>Mechanical Stage:</b> Graduated Mechanical rectangular stage, size 140 × 140 mm with cross travel 90 × 65 mm (Y) on ball bearing with co-axial controls. <b>Focusing Movement:</b> CO AXIAL coarse & fine focusing mechanism, with tension control ring. Ergonomically designed for easy grip. esp, for tension control. <b>Condenser:</b> Moveable ABBE Condenser, enterable, NA 1.25 with aspheric lens. Iris diaphragm and special FROSTED white filter, Swing-in and swing-

			out filter holder <b>Light Source:</b> Illumination system LED 3.3 W 3V with intensity control regulator, universal power supply 110 V-240V, CE approved.																																																																												
06	Microscope with universal condenser containing oil immersion, bright field, phase contrast & dark ground.	01 Nos.	<p><b>Stand:</b> Single mode sturdy with anti-rust materials. Extended base for better stability</p> <p><b>Viewing Bodies:</b> 45 °inclined Binocular or Trinocular Head, 360° rotatable, inter pupillary distance 54-74 mm Eyepiece Wide field focusable paired eyepiece 10×18 mm with foldable eye guard. Lockable Nosepiece Quadruple Nosepiece (Ball bearing type) with rubber grip</p> <p><b>Objectives:</b> LP series DIN Plan Achromatic objectives 4×, 10x (spring loaded), 100x (spring loaded, oil), anti-fungus.</p> <p><b>Mechanical Stage:</b> Rectangular stage size 135x125 mm, X/Y travel range 76mm x 50mm. Low drive movement controls with ball bearing slides for smooth operation</p> <p><b>Condenser:</b> Sub stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragm with snap-in blue filter. Rack and pinion movements on metal guides</p> <p><b>Focusing:</b> Co-axial coarse and fine focusing on ball drive system for highly smooth operation</p> <p><b>Illumination:</b> LED or Halogen 6V-20W illumination with variable illumination control Up to 100,00 hours of LED life and 2000 hours of Halogen lamp life</p> <p><b>Electricals:</b> Input 220V-240V AC, CE</p> <p><b>Approved:</b> Optional accessories Phase contrast kit, Polarizing kit, Dark field kit, Green Filter, Video adapter, Labomed Digital cameras</p>																																																																												
07	Micropipettes-Multi channel.	04 Nos.	<p><b>12 Channel Micropipettes Specification</b></p> <table border="1"> <thead> <tr> <th>VOLUME RANGE</th> <th>INC. Microltr</th> <th colspan="2">A</th> <th colspan="2">CV</th> </tr> <tr> <th></th> <th></th> <th>+-%</th> <th>+Microltr</th> <th>+-%</th> <th>+Microltr</th> </tr> </thead> <tbody> <tr> <td>05-50 Microltr</td> <td>0.1</td> <td>0.8</td> <td>0.4</td> <td>0.4</td> <td>0.2</td> </tr> <tr> <td>10-100 Microltr</td> <td>0.2</td> <td>0.8</td> <td>0.8</td> <td>0.3</td> <td>0.3</td> </tr> <tr> <td>20-200 Microltr</td> <td>0.2</td> <td>0.8</td> <td>1.6</td> <td>0.3</td> <td>0.6</td> </tr> <tr> <td>40-300 Microltr</td> <td>0.2</td> <td>0.8</td> <td>2.4</td> <td>0.3</td> <td>0.9</td> </tr> </tbody> </table> <p><b>Single Channel Fixed Volume Micropipette Specification</b></p> <table border="1"> <thead> <tr> <th>VOL. MIC</th> <th colspan="2">A</th> <th colspan="2">CV</th> </tr> <tr> <th></th> <th>+-%</th> <th>+Microltr</th> <th>+-%</th> <th>+Microltr</th> </tr> </thead> <tbody> <tr> <td>100.0 Microltr</td> <td>0.6</td> <td>0.6</td> <td>0.2</td> <td>0.2</td> </tr> <tr> <td>100.0 Microltr</td> <td>0.6</td> <td>1.2</td> <td>0.2</td> <td>0.4</td> </tr> <tr> <td>100.0 Microltr</td> <td>0.6</td> <td>1.5</td> <td>0.2</td> <td>0.5</td> </tr> <tr> <td>100.0 Microltr</td> <td>0.6</td> <td>3</td> <td>0.2</td> <td>1</td> </tr> <tr> <td>100.0 Microltr</td> <td>0.6</td> <td>6</td> <td>0.2</td> <td>2</td> </tr> <tr> <td>100.0 Microltr</td> <td>0.6</td> <td>12</td> <td>0.2</td> <td>4</td> </tr> </tbody> </table>	VOLUME RANGE	INC. Microltr	A		CV				+-%	+Microltr	+-%	+Microltr	05-50 Microltr	0.1	0.8	0.4	0.4	0.2	10-100 Microltr	0.2	0.8	0.8	0.3	0.3	20-200 Microltr	0.2	0.8	1.6	0.3	0.6	40-300 Microltr	0.2	0.8	2.4	0.3	0.9	VOL. MIC	A		CV			+-%	+Microltr	+-%	+Microltr	100.0 Microltr	0.6	0.6	0.2	0.2	100.0 Microltr	0.6	1.2	0.2	0.4	100.0 Microltr	0.6	1.5	0.2	0.5	100.0 Microltr	0.6	3	0.2	1	100.0 Microltr	0.6	6	0.2	2	100.0 Microltr	0.6	12	0.2	4
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9	Laparoscopic Hand Instrument Set	01	<ul style="list-style-type: none"> <li>• Standard Handy, Portable, Instruments.</li> <li>• Should be autoclavable .</li> <li>• Instruments should be strong and long – lasting.</li> <li>• These should be completely sterile and well insulated.</li> <li>• Demonstration of each individual instrument is compulsory.</li> <li>• 1 Year warranty should be given.</li> </ul>
10	10 mm 30 degree HD Telescope	01	<ul style="list-style-type: none"> <li>• Length 36 cm</li> <li>• Full HD Telescope should contain 14 rods.</li> <li>• 30 degree HD Hopkins Telescope.</li> <li>• Wide angle straight forward.</li> <li>• Autoclavable.</li> <li>• Fiber Optic Light Transmission incorporated.</li> <li>• 2 Years warranty should be given.</li> <li>• Demonstration of each individual instrument is compulsory.</li> <li>• Necessary training for cleaning lubrication, sterilization care and maintenance and handling of the instrument should be given doctors or paramedical staff.</li> </ul>
11	LED Light Source with CO2 Insufflator with fiber optic cable	01	<p><b>Technical Specification of CO2 Insufflator</b></p> <ol style="list-style-type: none"> <li>1. Digital indication of set pressure form 0-3 mm Hg.</li> <li>2. Digital indication of intra-abdominal pressure.</li> <li>3. Digital indication of set and actual flow from 1 to 25 Litter/minute.</li> <li>4. Digital indication of total volume consumed 0 to 99 Litters.</li> <li>5. Pulsatile flow of gas in verses mode.</li> <li>6. Non-Pulsatile flow of gas in trocar mode (liner flow).</li> <li>7. Built in additional air insufflator with automatic pressure cut-off with high flow.</li> <li>8. Auto cut-off and restart on abdominal pressure reaching set value.</li> <li>9. Built-in warmer to avoid fogging of telescope and prevent hypothermia.</li> <li>10. Universal regulator to accept any size of CO2 cylinder.</li> <li>11. In-built filter to curt all pollutants form cylinder gas.</li> <li>12. Safety Value in regulator acting as an auto blow-off for excess CO2 pressure in cylinder.</li> <li>13. Cylinder gas indicator in console (empty/full)</li> <li>14. Feather touch switch to change on to air mode.</li> <li>15. Feather touch tactile switch.</li> <li>16. Inbuilt stabilizer.</li> <li>17. Noiseless operation.</li> <li>18. Compact size.</li> <li>19. Voltage 230 V A.C. 50Hz +/- 10%</li> </ol> <p><b>Accessories:</b></p> <ol style="list-style-type: none"> <li>1. Silicon autoclavable tube set.</li> <li>2. Anti-microbial filter.</li> <li>3. High pressure hose (PVC tube)</li> <li>4. Pressure gauge regulator.</li> <li>5. Universal wrench (spanner)</li> <li>6. Power cord.</li> <li>7. Spare washer and fuse.</li> <li>8. It must be provide 1 No. CO2 Jumbo Cylinder (Medical Grade)</li> </ol> <p><b>Technical Specification for LED Light Source.</b></p> <ul style="list-style-type: none"> <li>• It should be Micro-controller based technology.</li> <li>• Should be LED based with more than 50,000 hours of life.</li> <li>• Should have flicker free light output with consistent color</li> </ul>

			<p>temperature for long use.</p> <ul style="list-style-type: none"> <li>• Light intensity adjustable form 0-100% manually.</li> <li>• Should have low heat emission.</li> <li>• Should have protection form abrupt disconnection of Fiber cable, which automatically shuts off the light output.</li> <li>• Should have standby MODE to avoid power wastage during unused backup.</li> <li>• Color Rendering Index should be more than &gt; 90</li> <li>• Color temperature should be 500 k+.-500</li> <li>• Maximum deviation in color temperature can be +/-300 k (form 1%-100% intensity )</li> <li>• Input operating voltage 230 V AC</li> <li>• The years comprehensive warranty</li> <li>• Power supply : 230 V + 10 %, 50 Hz + 3 %</li> <li>• Operational training to user department.</li> <li>• Operating and detail service manual should be provided.</li> <li>• Tropicalization : Operating Temperature : 40 ° C Storage Temperature : 60 ° C</li> <li>• Relative Humidity: Up to 90 % non- condensing.</li> </ul>
12	<b>Hysteroscopic Hand Instruments Set with HD 4 MM 30 Degree Hysterescope</b>		<p><b>Hysteroscopic Hand Instrument Set specifications .</b></p> <ul style="list-style-type: none"> <li>• Standard Handy, Portable, Instruments.</li> <li>• Should be autoclavable.</li> <li>• Instruments should be strong and long – lasting.</li> <li>• These should be completely sterile and well insulated.</li> <li>• Demonstration of each individual instrument is compulsory.</li> <li>• 1 year warranty should be given.</li> </ul> <p><b>HD 4 mm 30 degree Hysterescope specifications.</b></p> <ul style="list-style-type: none"> <li>• Full HD telescope should contain 14 rods.</li> <li>• 30 degree HD Hopkins telescope</li> <li>• Wide angle straight forward</li> <li>• Autoclavable</li> <li>• Fibre optic light transmission incorporated.</li> <li>• 2 years warranty should be given.</li> <li>• Demonstration of each individual instrument is compulsory.</li> <li>• Necessary training for cleaning lubrication, sterilization care and maintance and handling of the instrument should be given to doctors or paramedical staff.</li> </ul>

  
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