



महाराष्ट्र शासन

शासकीय वैद्यकीय महाविद्यालय, जळगांव

**Government Medical College, Jalgaon**

Jilhapeth, Govt. Hospital Campus, Jalgaon - 425001, M.S. (INDIA)

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जा.क्र.शावैमज/यंत्र/उपकरण/खरेदी/विनिर्दिष्टेनिश्चित/

/२०१८

दि.

/०१/२०१८

विभागाचे नाव:- शरीररचनाशास्त्र विभाग

यंत्रसामुग्रीचे नाव :- सोबत जोडलेल्या यादीनुसार

**-: SPECIFICATION :-**

अ.क्र.	यंत्रसामुग्रीचे नाव	विनिर्दिष्टे
1.	Drill Machine	Complete with Jacob chuck ad key ad motor 220 V with set of cutting blade
2.	Table width Marble or Stainless steel Half standard Size	Dissection table with Marble or Stainless steel top of size 3"x2"x3"
3.	Hand Saw	Manually operated stainless steel 30 cm x 20cm x 2cm
4.	Band Saw for cutting body Ribs	<ul style="list-style-type: none"> <li>Size of Cutting Table 785x 585 mm approxi.</li> <li>Total Table Traveller 1245 mm approx.</li> <li>Extension Table 455 x 760 mm approx.</li> <li>Size of wheel 455 mm approx.</li> <li>Height 1700 mm approx.</li> <li>Table should be of thick SS sheets with special heavy axles for easy and firm movement. Supplied complete with one balde, starter, chord and plug, Suitable to work on 220 V single phase 50 Hz A/c supply.</li> <li>Spare accessories blade for above.</li> </ul>
5.	Brain Knife	<ul style="list-style-type: none"> <li>Length : 30 cm</li> <li>Complete SS</li> <li>Length : 30 cm</li> <li>Width : 2.5 cm</li> <li>Sharp Blade 8"</li> </ul>
6.	Trolley Table (Steel Light)	Powder coated frame with SS Castor for ease in shifting with 3 shelves 1st top 2nd middle and 3rd bottom
7.	Computer with Laser Printer with Scan and Xerox	I 7 intel, one TB storage within build software, PDF,JPG, TIFF,MTIFF, laser colour Printer, with scanner and photo copier and wi fi facility.
8.	X-Ray Viewing Lobby	For 3 plates, uniform visibility of light, digital lightening with on/off switch ad current indicator.
9.	Meat cutting Machine for thin body suction ( Trans and vertical for Gross Anatomy sectional study)	Cutting table 90- x 90 cm with spare blade and motor belt, complete with motor, pulley, on/off switch and electric cord
10.	Embalming Machine for Cadavers	<ul style="list-style-type: none"> <li>Handy Portable Model</li> <li>Embalming Machine with noiseless Pump for Suction and delivery at preset optimum Pressure.</li> </ul>

		<ul style="list-style-type: none"> <li>• Fluid delivery rate 8 to 12 Ltrs/Hr with delivery to be 4 mtrs long &amp; Two cannula</li> <li>• Complete stainless Steel Outer body</li> <li>• Stainless Steel inner tank With fluid capacity of minimum 5.5 liters.</li> <li>• Mounted on castors for easy Movement.</li> <li>• Grips Provided for lifting.</li> <li>• Inbuilt stand, Fixed for Mounting Cannula tubing and mains cable</li> <li>• Mains on and in-use indication.</li> <li>• Maximum injection Pressure range : 45-60 psi</li> <li>• Automatic shut off Manually on and off system.</li> <li>• Standard voltage 220V/60Hz AC</li> <li>• Power cord : 20 ft, polarized heavy duty.</li> <li>• Inbuilt Fluid level indication</li> <li>• Pressure gauge.</li> <li>• Flow adjustment by manual system as well as</li> <li>• The cannula can be inserted inside the delivery tube and clamped properly for efficient Performance.</li> </ul>
11.	Dissection Microscope	Dissection microscope with Rack and pinion movement of eye pieces, Eye pieces 10x, Steady base in wooden box with lock and key. ISI mark
12.	Microtome Rotary	<ul style="list-style-type: none"> <li>• Manual Microtome with specimen feed system</li> <li>• Vertical cross roller bearings mechanism for maintenance free operations</li> <li>• Section Thickness feed to the specimen from 0.5 to 60 micrometer with increments of</li> <li>• 0.5 microns from 0 to 2 microns</li> <li>• 1 microns from 2 to 10 microns</li> <li>• 2 microns from 10 to 20 microns</li> <li>• 5 microns from 20 to 60 microns</li> <li>• Specimen feed of 28 mm and vertical stroke length of 60 mm</li> <li>• Specimen retractions 220 micrometer in a single stroke</li> <li>• Mechanical trimming thickness selection of 10 and 50 micrometer</li> <li>• Precise specimen orientation of 80 in X-Y-Z with anti tilt feature.</li> <li>• Knife holder base with lateral displacement</li> <li>• Hand wheel lockable at any position</li> <li>• Additional 12'o clock locking by simple pulling handle</li> <li>• Slot cover to protect the interior of instrument from sectioning debris</li> <li>• Blade rail for disposable blade</li> <li>• Knife holder for steel knife</li> <li>• 10 packets of blade each</li> <li>• Knife 12 cms</li> <li>• BASIC COMMON NECESSITIES</li> <li>• Input voltage 230 volts 50 Htz as per Indian standards</li> <li>• 2 copies of service manual and technical data</li> <li>• UPS preferably since wave based with maintenance free batteries with duration 60 hours</li> <li>• Microtomes sledge large cutting</li> </ul>
13.	Microtome Sledge for large cutting	<ul style="list-style-type: none"> <li>• Construction made up of Cast Mechanite precision ground</li> <li>• And finished with durable solvent and detergent proof</li> </ul>

		coating <ul style="list-style-type: none"> <li>Specimen advance 0-40 micron in 1 micron increments retraction</li> <li>Operates on return stroke</li> <li>Manual gross advance rewind facility</li> <li>Knife holders support arms reversible with slew facility</li> <li>Tilt with indicator scale and full width knife guards single side double clamp facility available as option.</li> <li>Object holder vice clamp fitted as standard but quick release</li> <li>Cassette clamp available as an option if required</li> <li>Maximum block size 170 x 250 mm</li> <li>Accessories tool kit oil operating manual</li> <li>Dimensions Length 50-60 cm height 30-35 cms width 25-30 cms, weight 25-35 kgs</li> </ul>
14.	Incubator	<ul style="list-style-type: none"> <li>Size 24"x24"x24</li> <li>Made up of SS</li> <li>Temperature 50C above ambient to 600C</li> <li>Accuracy +/- 10C</li> <li>Shelves with galvanized wire mesh</li> <li>Heating element thermostatically controlled</li> </ul>
15.	Paraffin Embedding Bath	Top made up of tinned copper brass and SS body Temperature is controlled thermostat from ambient to 1000 C with an accuracy of +050 C top made of copper or brass is chromium plated along with cups wax pots to work on 220/230 AC supply supported with wax pots but without glass tubes for 6 cups and 8 glass tubes.
16.	Hot Plate for flattening section	Hot Plate for Planting suction
17.	Hot Air Oven 45 C ( For Drying slides)	Double walled thick inner chamber made of SS and outer chamber epoxy coated painted, the gap between two wall-3 inches filled with heat resistant glass wool, heating elements are placed in ribs at the bottom, sides with adjustable air ventilators with built in L shaped horizontal thermometer, temperature controlled by Y metallic thermostat upto 100 degree C. complete with two removable shelves. Inner chamber size: 14x14x14 inches, digital temperature controller cum indicator, air circulating fan
18.	Refrigerator	225 Litres, double door
19.	7 Color Marking Pencil	Marking Pencil on glass slides
20.	Specimen Jar	Glass for museum specimens, should be made available in 03 sizes (small, medium, large) Small size – 30, Medium Wize-30, Large Size-20
21.	Chart Diagram and Slides(In one set 40 charts and 150 Slides)	Chart Diagram and Slides(In one set 40 charts and 150 Slides)
22.	Audio Visuals Aids-2 (Including Laptop, LCD Projector & OHP)	<ul style="list-style-type: none"> <li>WXGA chip set LCD, Max. Projection distance 25 ft. Resolution-1024X768 or higher pixel. Lamp life 100000hrs. Aspect ratio 4X3, Wifi.</li> <li>I 7 intel, one TB, integrated graphics. Screen- 15.6 inches screen, with storage within build software, PDF, JPG, TIFF,MTIFF latest version.</li> </ul>

		<ul style="list-style-type: none"> <li>• I 7 intel, one TB storage within build software, PDF,JPG, TIFF,MTIFF, laser colour Printer, with scanner and photo copier and wi fi facility.</li> <li>• Popular, reliable, easy-to-use tabletop projector with 2000 lumen light output features high-efficiency cooling system &amp; thermal shutoff safety switch</li> <li>• Ideal for use in classrooms and small rooms with up to 20 people</li> <li>• Open head with double fresnel lens assures edge-to-edge sharpness and brightness</li> <li>• 10 x 10 Inch stage glass accommodates 8.5 x 11 Inch transparency sheets</li> <li>• Lightweight and easy to carry</li> <li>• Popular, reliable, easy-to-use tabletop projector</li> <li>• With 2000 lumen light output features high-efficiency cooling system and thermal shutoff safety switch</li> <li>• Popular, reliable, easy-to-use tabletop projector with 2000 lumen light output features high-efficiency cooling system and thermal shutoff safety switch</li> </ul>
23.	Slides Boxes	Boxes for keeping Slides
24.	Slide Staining Rack	Metallic Rack for keeping slides during staining procedure
25.	X-Ray view Box	<ul style="list-style-type: none"> <li>• Elegant slim design</li> <li>• High Quality Viewing Screen for Uniform and Soft Light</li> <li>• Aluminium Body</li> <li>• Automatic On/Off Switch with film insertion</li> </ul>
26.	Microscope slide cover slip 22mm circular (20 packets of 10gm each in one box)	Microscope slide (cover slip) 22mm circular (20 packets of 10gm each in one box)
27.	Scientist Portrait photograph board (14.5" 9)	separate sheet attached
28.	Anatomy Chart (20x26)	separate sheet attached
29.	Histology Chart (20x26)	separate sheet attached
30.	Embriological Models	separate sheet attached

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1	Electric Timemarkers 10/sec.	Electric Time Markers, 10/ Sec.
2	Tuning fork and with Stylus	Tuning Fork and with Stylus. • N-100 with stylus.
3	Large Extension Kymographs Starling Brodie with Complete Set	Large Extension Kymographs Starling Brodie with Complete Set • Large extension Kymographs-Brodie—Starling complete with respiration pump motor, time marker, manometer, All A.C. Time Clock etc.
4	Modern Operation Table	Modern Operation Table
5	Animal Weighing Machine Small	Animal Weighing Machine, for small and big animals (for each) - Animal Weighing Machine Small (plastic 2kg.)s Animal Weighing Machine Big 100 kg.
6	Animal Weighing Machine Big 100 Kg	Animal Weighing Machine, for small and big animals (for each) - Animal Weighing Machine Small (plastic 2kg.)s Animal Weighing Machine Big 100 kg.
7	Venus Cannula	Venus Cannula
8	Arterial Cannula	Arterial Cannula
9	Demonstration Eye Pieces with 10x pointer	Demonstration Eye Pieces - Demonstration eyepieces, 10x Hyg. With pointer Double Demonstration Eyepiece
10	Double demonstration eyepiece.	STAGE INCUBATORS
11	STAGE INCUBATORS	
12	Westergen's Pipetes for ESR on Stand with separate pipettes	Westergen's Pipetes for ESR on Stand with separate pipettes

		- Westergen's Pipetes for ESR on Stand (with spare pipettes) spare pipettes
13	PERIMETER PRIESTLEY SMITH MODEL	PERIMETER PRIESTLEY SMITH MODEL
14	Haemoglobinometer (Imported)	Haemoglobinometer (Imported) - Consists of comparator, hemoglobin tube, hemoglobin pipette, stirrer, pasteur
15	Haemocytometers with red & white pipettes (imported)	Haemoglobinometer (Imported) - With heavy cover slip; improved Neubauer counting chamber
16	Sphygmomanometer	Sphygmomanometer
17	Stethoscopes	Stethoscopes : Standard Biaural Stethoscope
18	Stethoscopes Demonstration with multiple ear pieces.	Stethoscopes Demonstration with multiple ear pieces.
19	Digital Venus Pressure Apparatus	Digital Venus Pressure Apparatus - Single channel digital venous pressure apparatus with pressure transducer stand alone unit having color TFT display for displaying online and offline data.
20	SPIROMETER	SPIROMETER
21	Van Slyke's Apparatus	Van Slyke's Apparatus : Van Slyke's Apparatus manometric
22	Douglas Bag	Douglas Bag
23	BMR APPARATUS	BMR APPARATUS - BENEDICT ROTH RECORDING SPIROMETER [BMR APPARATUS]
24	MOSSO'S ERGOGRAPH	MOSSO'S ERGOGRAPH
25	Clinical Thermometer	Clinical Thermometer
26	COMPASS AESTHESIOMETER	COMPASS AESTHESIOMETER
27	Thermanaesthesiometer	Thermanaesthesiometer - Horse hair carried in a holder; hair length adjustable with graduated tube and protective cap.
28	Algometer	Algometer
29	Apparatus for Passive Movement	Apparatus for Passive Movement <ul style="list-style-type: none"> <li>• To prevent stiffening, the joint has to be moved continuously which results in the following.</li> <li>• Minimize swelling and pain after operation</li> <li>• Ensures faster recovery shortened hospital stay</li> <li>• Prevent extra-articular contractures and adhesions.</li> <li>• Compact and elegant construction</li> <li>• Electronic controls enable all adjustment of angle to be made on the front panel.</li> <li>• Smooth and silent movement</li> </ul>
30	Knee Hammer	Knee Hammer
31	STETHOGRAPH	STETHOGRAPH : PNEUMOGRAPH / STETHOGRAPH

32	MARTIN BICYCLE ERGOGRAPH	MARTIN BICYCLE ERGOGRAPH
33	Olfactometer	Olfactometer
34	Ophthalmoscope	Ophthalmoscope
35	Schematic eye (imported)	Schematic eye (imported)
36	PHACOSCOPE	PHACOSCOPE
37	PRIESTLEY SMITH S/LP 984 B & T	PRIESTLEY SMITH S/LP 984 B & T - :PERIMETER PRIESTLEY SMITH MODEL -
38	COLOUR PERCEPTION LANTERN EDRIDGE GREEN	COLOUR PERCEPTION LANTERN EDRIDGE GREEN - COLOUR PERCEPTION LANTERN EDRIDGE GREEN: To test colour vision. -
39	Maddox Rod with Frame	Maddox Rod with Frame
40	NEWTON'S COLOUR WHEET	NEWTON'S COLOUR WHEET - NEWTON'S COLOUR DISC On heavy base. On stand rotation handle. -
41	Tuning forks to test hearing 32-10,00 cps (sets)	Tuning forks to test hearing 32-10,00 cps (sets)
42	GRIP DYNOMETER DIGITAL Hand / GRIP	GRIP DYNOMETER DIGITAL Hand GRIP
43	Electric Sterilizer (Medium Size)	Sterilizer Electric Medium Size
44	Instrument Torlley Size 30"x18"x34" SS	Instrument Torlley Size 30"x18"x34" SS
45	Stop Watch Digital	Stop Watch Digital
46	Physiograph 3 Channels Complete with Accessories (Digital TFT Screen)	Physiograph 3 Channels Complete with Accessories (Digital TFT Screen) <ul style="list-style-type: none"> <li>• Should be supplied as a standalone recorder to monitor &amp; record the data on threechannelcolored TFT Monitor.</li> <li>• TFT display size should be of minbimum 6" x 3.5" or more</li> <li>• System should have built in stimulator.</li> <li>• System should have facility to store the recording and review the recorded data on inbuilt TFT screen without need of any computer.</li> <li>• A software should be provided free of cost along with the system to review and printing the recorded fata from PC whenever required (No need to quote cost of computer).</li> <li>• Should be supplied with Force Transducer, Isotonic Transducer &amp; Volume transducer.</li> <li>• For human experiment, transducer, electrodes to perfor, following test i.e. ECG, EEG, EMG. GSR, Pulse, Respiration. Hand dynamometer, Phonocardiogram &amp; Temperature should be supplies</li> </ul>

47	CENTRIFUGE MACHINE RECTANGULAR 8"X15 ML TUBES	CENTRIFUGE MACHINE RECTANGULAR 8"X15 ML TUBES - CENTRIFUGE MACHINE RECTANGULAR 8"X15 ML TUBES
48	DIGITAL PHOTO COLORIMETER	DIGITAL PHOTO COLORIMETER -8 Filters Mains operated sample size 1 ml with 2 ½ digit LED display
49	Digital pH Meter	Digital pH Meter -With temperature compensation and combination pH electrode 3 ½ digit LED display
50	Electronic stimulator	Electronic stimulator

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1	Boiling water bath with cover	<ul style="list-style-type: none"> <li>• Temperature - 35-100°C.</li> <li>• Time proportionate digital temperature controller</li> <li>• Uniformity: + / 1% of set value</li> <li>• Heat up time: Digital Display</li> <li>• Controller: Digital Display Electronic Controller</li> <li>• Internal Chamber: Mild Steel / Stainless Steel</li> <li>• External: Mild Steel Powder Coated.</li> <li>• Boiling Water baths should having 12 Holes to hold 12 Folin Wu tubes</li> <li>• Temperature Range = Ambient to 100°C, Chamber = Stainless steel, Cabinet = Stainless-steel shell with enamel coating</li> </ul>
2	Autoclave electric with (Stainless steel)	<p>As Per Rate contract Sr. No 40 Stainless steel Single Drum 12"X12" Sterilization Temperature = 121°C/ 134°C (Customer Definition 105°C ~ 134°C), Operating Environment Temperature = 5°C~40°C, Room of Sterilization(DiameterxDepth) =250 mm x350mm, Overall Dimension (LxWxH) = 475mm x 443mm x 572mm, Volume =17 L, Net Weight=57kg, Build-in Printer, USB Interface</p>
3	Balance open pan	<ul style="list-style-type: none"> <li>• <b>Purpose</b> -For preparation of standard solutions used in chemical analysis</li> <li>• <b>Specification -Type</b> - electronic, single pan .</li> <li>• Capacity =1500g, Readability =0.01g, Repeatability (+/-) =0.01 g, Linearity(+/-)=0.01 g, Pan Size=150 mm</li> <li>• <b>capacity</b> - up to 1000 gm</li> <li>• <b>resolution</b> - 100 mg</li> <li>• <b>pan size</b> - 150 mm, + 20mm diameter</li> <li>• <b>display</b> – LCD</li> <li>• <b>power supply</b> - 220 V+ 25% ,47 to 53 Hz AC power</li> <li>• <b>Feature:</b> auto zero tare function, removable stainless steel tray, overload protection, auto calibration facility</li> <li>• <b>Accessories:</b> Set of certified calibration weights (0 to 200 gm. Full range), Voltage stabilizer, dust proof cover, necessary tools, operation manual <b>Certificate ISO</b></li> </ul>

4	Balance semi Micro	<table><tr><th>S.N</th><th>Technical Specification of One Pan Balance</th></tr><tr><td>1</td><td><b>Purpose</b> For preparation of standard solutions used in chemical analysis.</td></tr><tr><td>2</td><td><b>Specifications:-</b> Type electronic, single pan Capacity up to 200 g Resolution 0.1 mg Pan size approximately 80 mm diameter Display LCDpower supply 220 V ±25%, 47 to 53 Hz AC Power. Capacity : 110g, Repeatability : ±0.2mg, Display : LCD 16mm, Pan size : 90mm diameter, The size of wind shield :140*180*235, Function:overload protection, Standard : RS 232 interface, Optional :Thermal lable printer</td></tr><tr><td>3</td><td><b>Features:-</b> Auto zero tare function Removable stainless steel tray Overload protection Auto calibration facility</td></tr><tr><td>4</td><td><b>Accessories:-</b> Set of certified calibration weights (0 to 200 gm. Full range) Voltage stabiliser Dust proof cover Necessary tools Operation manual</td></tr></table>	S.N	Technical Specification of One Pan Balance	1	<b>Purpose</b> For preparation of standard solutions used in chemical analysis.	2	<b>Specifications:-</b> Type electronic, single pan Capacity up to 200 g Resolution 0.1 mg Pan size approximately 80 mm diameter Display LCDpower supply 220 V ±25%, 47 to 53 Hz AC Power. Capacity : 110g, Repeatability : ±0.2mg, Display : LCD 16mm, Pan size : 90mm diameter, The size of wind shield :140*180*235, Function:overload protection, Standard : RS 232 interface, Optional :Thermal lable printer	3	<b>Features:-</b> Auto zero tare function Removable stainless steel tray Overload protection Auto calibration facility	4	<b>Accessories:-</b> Set of certified calibration weights (0 to 200 gm. Full range) Voltage stabiliser Dust proof cover Necessary tools Operation manual
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S.N	Technical Specification of One Pan Balance											
1	<b>Purpose</b> For preparation of standard solutions used in chemical analysis. Capacity=60g, Readability=0.00001g, Repeatability (+/-)=0.03mg, Linearity (+/-)=0.05mg, Pan Size=80mm, R aring Range : Up to full capacity, Response time : 3 seconds, Power Req : 90-250V, 50/60Hz, 10 Watt, Operating Temperature : 15 to 40° C											
2	<b>Specifications:-</b> Type electronic, single pan Capacity up to 200 mg Resolution 0.1 mg Pan size approximately 80 mm diameter Display LCD power supply 220 V ±25%, 47 to 53 Hz AC Power											
3	<b>Features:-</b> Auto zero tare function Removable stainless steel tray Overload protection Auto calibration facility											
4	<b>Accessories:-</b> Set of certified calibration weights (0 to 200 gm. Full range) Voltage stabiliser Dust proof cover Necessary tools Operation manual											
6	Vortex mixer	<p><b>Vortex mixer with brushless motor and suitable for interchangeable mixing heads</b></p> <p>Excellent for mixing single tubes, multiple tubes and small flasks</p> <ul style="list-style-type: none"><li>• Continuous operation or touch-on mode</li><li>• Ensures fast, uniform mixing</li><li>• Compact design</li></ul> <p>The soft foam rubber pad permits vortex mixing of 1 - 4 test tubes simultaneously, depending on tube diameter. Excellent for mixing the contents with closed tops.</p> <ul style="list-style-type: none"><li>• Convenient top-mounted push button on/off switch can be activated with either a finger or test tube.</li></ul> <ul style="list-style-type: none"><li>• Vary vortex mixing by simply changing the pressure of the tube or flask</li></ul>										

		<p>against the foam pad.</p> <ul style="list-style-type: none"> <li>• Clean, white durable plastic case is both acid and alkaline resistant.</li> <li>• Special rubber feet prevent mixer from moving during operation.</li> <li>• Supplied complete with one extra foam top, power cord, and plug. Rubber feet help prevent movement during operation.</li> </ul> <p>Foam mixing pad</p> <ul style="list-style-type: none"> <li>• Variable speed control allows adjustment of mixing action from 100 to 3000 rpm.</li> <li>• Can be operated in continuous mode when mixing a quantity of tubes or flasks in sequence; intermittent mode is activated by touching the foam rubber pad or cup attachment with test tube.</li> </ul>
7	Urinometer	<p>1. Without Mercury</p> <p>2. Glass with marking</p> <p>3. Temperature calibration 15/20 degree centigrade.</p> <p>for specific gravity, with shot-poised conical lower part, with paper scale 1000 to 1060, length 130-150 mm,</p>
8	Constant Temperature water bath	<p>As per contract Rate</p> <p>RC No;133</p> <p>Inner S.S. 14"X10"X6"</p>
9	Incubator electric with thermo stat (18X18X18 inches )Lab Type	<p>As per the rate contract.</p> <p>Sr No 135, 300mmX300mmX300mm</p> <p>450mmX450mmX450mm</p>
10	Incubator electric with thermo stat (18X18X18 inches )Digital	<p>As per the rate contract.</p> <p>Sr No 135- 300mmX300mmX300mm, 450mmX450mmX450mm</p>
11	Incubator electric with thermo stat (14X14X14 inches )Lab Type	<p>As per the rate contract.</p> <p>Sr No 135, 300mmX300mmX300mm</p> <p>450mmX450mmX450mm</p>
12	Incubator electric with thermo stat 14X14X14inches )digital	<p>As per the rate contract.</p> <p>Sr No 135, 300mmX300mmX300mm</p> <p>450mmX450mmX450mm</p>
13	Hot air oven (14X14X14inches)Lab type	<p>As per Rate contract</p> <p>Sr No. 6 Rate for hospital Funitures and Other items 2017- 18</p> <p>Top/Bottom mounted control panel for easy access, Inner made of stainless steel with mirror polish, outer body made of mild steel with powder coated polish, electrically operated thermostat and 3- heat switch controls with corresponding indicators, Nichrome /Kanthal made long lasting heating elements, Gravity Convection, Temp. Range- 50<sup>0</sup>C- 250<sup>0</sup>C,Chamber volume- 65L,Numberof shelves(supplied/max)- 2/13, Max shelf load-25kg</p>
14	Hot air oven (14X14X14inches)digital	<p>As per Rate contract</p> <p>Sr No. 7 Rate for hospital Funitures and Other items 2017- 18</p> <p>Top/Bottom mounted control panel for easy access, Inner made of stainless steel with mirror polish, outer body made of mild steel with powder coated polish, electrically operated thermostat and 3- heat switch controls with corresponding indicators, Nichrome /Kanthal made long lasting heating elements, Gravity Convection, Temp. Range- 50<sup>0</sup>C- 250<sup>0</sup>C,Chamber volume- 65L,Numberof shelves(supplied/max)- 2/13, Max shelf load-25kg</p>
15	Hot air oven (18X18X18inches)Lab type	<p>As per Rate contract</p> <p>Sr No. 8 Rate for hospital Funitures and Other items 2017- 18</p> <p>Top/Bottom mounted control panel for easy access, Inner made of stainless steel with mirror polish, outer body made of mild steel with</p>

		powder coated polish, electrically operated thermostat and 3- heat switch controls with corresponding indicators, Nichrome /Kanthal made long lasting heating elements, Gravity Convection, Temp. Range- 50 <sup>0</sup> C- 250 <sup>0</sup> C, Chamber volume- 65L, Number of shelves (supplied/max)- 2/13, Max shelf load-25kg
16	Hot air oven (18X18X18 inches) digital	As per Rate contract Sr No. 9 Rate for hospital Fritures and Other items 2017- 18 Top/Bottom mounted control panel for easy access, Inner made of stainless steel with mirror polish, outer body made of mild steel with powder coated polish, electrically operated thermostat and 3- heat switch controls with corresponding indicators, Nichrome /Kanthal made long lasting heating elements, Gravity Convection, Temp. Range- 50 <sup>0</sup> C- 250 <sup>0</sup> C, Chamber volume- 65L, Number of shelves (supplied/max)- 2/13, Max shelf load-25kg
17	Magnetic stirrer	As per Rate contract Sr No. 12 Rate for hospital Fritures and Other items 2017- 18 Speed Range- 100-1500RPM, Speed Display-LED, Motor Type-D.C, Stirring Capacity- 3L, Plate Material- ABS, Dimensions(LXWXH)- approx 11X6.25X3"
18	Vacuum Pump with Oil free motor	As per Rate contract Sr No. 13 Rate for hospital Fritures and Other items 2017- 18 Hp: 1/3, Hz- 50/60, RPM-1425/1725, Phase- 1, Volt- 100-110, S.F- Amp, S.F- 1.0
19	Colorimeter Digital	As per the rate contract. RC No: 134 <ul style="list-style-type: none"> <li>• Detector: Photo cell</li> <li>• Light Source: 6.3V, 6W</li> <li>• Wavelength Range: 440 – 700nm selected by filters , Mounted on a Turret</li> <li>• Photometric Working Mode: Absorbance , Concentration, chemistry Standard Functionality: Two point , End point</li> <li>• Solution volume: 1 ml minimum</li> <li>• Display: 16 x 2 digital LCD</li> <li>• Accessories: Cuvettes 4 nos. free with machine , Instruction Manual</li> <li>• Display: 16 x 2 digital LCD</li> <li>• Accessories: Cuvettes 4 nos. free with machine , Instruction Manual</li> <li>• Digital with battery backup</li> </ul>
20	Refrigerator 105 capacity Lts	<ol style="list-style-type: none"> <li>1. Hydraulic thermostatic control and separate "cold air flow" control for the freezer.</li> <li>2. It includes 2 adjustable shelves and automatic defrost.</li> <li>3. Upright freezer features 4 fixed wire shelves and 6 door shelves.</li> <li>4. Under counter Lab Refrigerator /Freezer 2° to 12° C (34° to 54°F).</li> <li>5. Servo controlled Voltage stabilizer.</li> <li>6. Capacity- 105Lts</li> <li>7. Insulation- Rigid polyurethane foamed in place</li> <li>8. Temperature control - Microprocessor control system with digital display provides accurate temperature.</li> <li>9. Alarm and safety-High/low temperature alarm, Door ajar alarm, Memory back-up during power failure. Self diagnostics, Remote</li> </ol>

		alarm contact (DC30V, 2A), Door key lock. 10. High visibility glass door panels.
21	Refrigerator 300 capacity LTs	<ol style="list-style-type: none"> <li>1. Hydraulic thermostatic control and separate "cold air flow" control for the freezer.</li> <li>2. It includes 2 adjustable shelves and automatic defrost.</li> <li>3. Upright freezer features 4 fixed wire shelves and 6 door shelves.</li> <li>4. Under counter Lab Refrigerator /Freezer 2°to12° C (34° to 54°F).</li> <li>5. Servo controlled Voltage stabilizer.</li> <li>6. Capacity- 350lts</li> <li>7. Insulation- Rigid polyurethane foamed in place</li> <li>8. Temperature control - Microprocessor control system with digital display provides accurate temperature.</li> <li>9. Alarm and safety-High/low temperature alarm, Door ajar alarm, Memory back-up during power failure. Self diagnostics, Remote alarm contact (DC30V, 2A), Door key lock.</li> <li>10. High visibility glass door panels.</li> </ol>
22	Flame photometer	<p><b>As per Rate contract</b>  <b>Sr No. 14 Rate for hospital Funitures and Other items 2017- 18</b></p> <ol style="list-style-type: none"> <li>1. Analyzer should be able to measure sodium and potassium and chloride.</li> <li>2. Analyzer should have a measuring method of Ion Selective Electrode (ISE).</li> <li>3. Analyzer should be able to measure sodium and potassium in serum and body fluids.</li> <li>4. Analyzer should have a throughput of minimum 50 samples per hour.</li> <li>5. Analyzer should have separate electrode for sodium and potassium.</li> <li>6. Resolution should be at least 0.1mmol/litre for each parameter.</li> <li>7. Analyzer should have automatic calibration, or on demand</li> <li>8. Analyzer should have QC memory storage of at least 2 levels</li> <li>9. Stand-by mode user controlled and automatic.</li> <li>10. Analyzer should have a measuring range for sodium 40 to 200 mmol/l, potassium 1.5 to 10 mmol/l, chloride 40 to 200 mmol/l.</li> <li>11. It should require 100 micro liter or lesser for whole blood serum</li> <li>12. It should have only one reagent module for all standards and wash solutions and waste also should be collected in the same module.</li> <li>13. It should have only one cleaning reagents for electrodes and daily maintenance</li> <li>14. Analyzer should have printing facility.</li> <li>15. Analyzer should have an alpha numeric display.</li> <li>16. Analyzer should have a memory of at least 20 samples</li> <li>17. Analyzer should work on 200-240Vac 50Hz power supply</li> <li>18. Analyzer should be supplied with UPS of sufficient capacity for a minimum back of 60 minutes.</li> <li>19. Analyzer should be provided with calibration certificate issued by the manufacturer at the time of installation and calibration certificate should be issued for the machine by the supplier during preventive maintenance visit in the warranty/AMC period if demanded by the end user.</li> </ol>
23	Thermometer( 0-250degree C)	<p>Thermometer( 0-250degree C)  Glass, Digital Display, with Mercury.  Mercury filled with 0-250°C in 1°C engraved stem. Permanent graduation</p>

24	Thermometer( 0-110 degree C)	Thermometer( 0-250degree C) Glass, Digital Display, with Mercury. Mercury filled with 0-110 <sup>0</sup> C in 1 <sup>0</sup> C engraved stem. Permanent graduation.
25	Cork Boreal set	One set Made of 5-13mm, Made from nickel brass with individual handles and a rod for cleaning borers
26	Stop watch (digital)	Digital lab stopwatch, memory- 10-180, precision- 1/1000sec, count down upto- to 10hrs, water resistant, alarm, chronograph
27	Sprit lamp	Alcohol spirit burner lamp with metal cap
28	Chromatography Chamber	Rectangular tank for doing paper chromatography (LXHXW)- 27X26.5X7cm
29	Water Distillation plant (metallic with 4 Lts capacity)	As per contract RC No:132 Comple unit made of S.S., Designed to provide pyrogen free distilled water condenser, can be opened easily for periodic cleaning easy wall mounting, easy replaceable heating element. Capacity 6 hrs per lts
30	All Glass distillation Apparatus with 2 Lts capacity	As per Rate contract Sr No. 11 Rate for hospital Funitures and Other items 2017- 18  All standard laboratory glass distillation apparatus, unit made of glass, Designed to provide pyrogen free distilled water condenser, can be opened easily for periodic cleaning easy wall mounting, easy replaceable heating element. Capacity 2 hrs per lts
31	All Glass distillation Apparatus with 3 Lts capacity	As per Rate contract Sr No. 11 Rate for hospital Funitures and Other items 2017- 18 Comple unit made of glass, Designed to provide pyrogen free distilled water condenser, can be opened easily for periodic cleaning easy wall mounting, easy replaceable heating element. Capacity 3 hrs per lts
32	Centrifuge Machine clinical (for 8X15 ml tube)	As per contract <b>RC:130</b> <b>Bench top centrifuge</b> with digital speedometer, Digital timer of range 0- 59 minutes and variable speed regulator. Maximum speed 14000 r.p.m(without load). Rotor head (24 X 15 ml capacity ) , Angle head. Light weight double walled lid made of ABS plastic moulding . Dust cover, Instruction manual, 2 spare fuses, 2 spare carbon set, cord and plug. Power : 220V, 50 Hz AC ( supplied without rotor)
33	pH Meter	PH Range : 0 To 14.00 PH MV Range : 0 to 1999.9, 1 MV Resolution : 0.01 PH, In PH range 0.1MV In MV Range Repeatability : 0.01 PH 1 Digit, 1 MV 1 Digit Standardization Range : 5 Point (7.00 PH, 4.02 PH, 1.68 PH, 9.20 PH, 12.20 PH) Temp Compensation: 0 – 100 c Automatic Compensation with Temp Probe (PT 100) Display : 20 x 4 Alpha Numeric LCD Key Board : 4 Key Operations Power : 230V 10%, 50 Hz

34	Homogenizer	Heavy and stable Cast iron base duly Painted with a Mild Steel Chrome plated Upright Provided with a strong adjustable clamps to hold motor with a stirring rod of stainless Steel with a Teflon grinder and clamp to hold tissue homogenizing vessel of borosilli- Cate glass which is also adjustable .speed variable through a control unit to work on 220VAC 50Hz single phase Motor used of 1/20H.P a) Homogenizing vessel 25ml b) Homogenizing vessel 50 ml c) Homogenizing vessel 100 ml
35	Ultra violet UV Tube	Watts-4, Wavelength- 254 nm, Intensity- 170 $\mu\text{W}/\text{cm}^2$ Product Type- Portable/Handheld Ultraviolet Lamps, Power- 4 AA Batteries , Dimensions- 6.5 in W x 1.75 in H x 1.25 in D
36	Tool for small workshop for glass mending and blowing	A set of tools for glass workshop
37	Bottle dispensers	Vol- 1-10ml, Increment- 0.10, Accuracy- +/- 0.6% or +/- 0.060ml,CV= +/- 0.2% or +/- 0.020 ml
38	Sampler auto pipettes fixed volume	As Per Rate contract DMER/D&M/DPC/E tender no 467 & ext727/Diag.- phase-2-2014/763-776/2016 dated 28/3/16.  Item No :479,480,481,482,483,484,485
39	Sampler Auto pipettes – variable Volume	As Per Rate contract DMER/D&M/DPC/E tender no 467 & ext727/Diag.- phase-2-2014/763-776/2016 dated 28/3/16.  Item No :487,488,489,490
40	Electrophoresis apparatus with power supply	<b>Tank</b> <b>Specification:-</b> 3 Digit Display for Voltage & Current 0 to 300 V DC power supply in 3 over lapping ranges Separate Constant Voltage & Current modes Maximum 100mA Current Load Accuracy: $\pm 2\%$ Norm / Reverse Polarity Temperature : Ambient To 50 0C Accuracy : 0.3 % for 0C.
41	L.C.D Projector	WXGA chip set LCD, Max. Projection distance 25 fit. Resolution- 1024X768 or higher pixel. Lamp life 100000hrs. Aspect ratio 4X3, Wifi.
42	Laptop	I 7 intel, one TB, integrated graphics. Screen- 15.6 inches screen, with storage within build software, PDF, JPG, TIFF,MTIFF latest version.
43	Computer with printer	I 7 intel, one TB storage within build software, PDF,JPG, TIFF,MTIFF, laser colour Printer, with scanner and photo copier and wi fi facility.
44	Overhead Projector	Popular, reliable, easy-to-use tabletop projector with 2000 lumen light output features high-efficiency cooling system & thermal shutoff safety switch  Ideal for use in classrooms and small rooms with up to 20 people  Open head with double fresnel lens assures edge-to-edge sharpness and brightness

		<p>10 x 10 Inch stage glass accommodates 8.5 x 11 Inch transparency sheets</p> <p>Lightweight and easy to carry</p> <p>Popular, reliable, easy-to-use tabletop projector</p> <p>With 2000 lumen light output features high-efficiency cooling system and thermal shutoff safety switch</p> <p>Popular, reliable, easy-to-use tabletop projector with 2000 lumen light output features high-efficiency cooling system and thermal shutoff safety switch</p>
45	Deionizer plant	Separate sheet attached
46	Urine analyzer (Fully)	Separate sheet attached
47	Fume cupboard	<ol style="list-style-type: none"> <li>Each fume hood shall provide for safe efficient removal of all fumes, both heavy and light as the air enters the hood.</li> <li>Metal- Cold roled quality steel sheet.</li> <li>Light source: Explosion proof fluorescent light</li> <li>Electric power source: Multi-function sockets</li> <li>Fume hood additional function <ul style="list-style-type: none"> <li>equiped with election regulation air value or manual regulation air value</li> <li>equiped with timer system</li> <li>equiped with automatic adjustment system</li> <li>equiped with intelligetize operate multi blower interlock control system</li> </ul> </li> <li>Cabinet- cold-rolled steel sheet.</li> <li>Hinges- Open type high quality hinges</li> <li>Handle- Stainless steel bright type handle.</li> <li>Top body (fume hood) lining panel: Made of the special lining compact panel with acid &amp; alkali reistance. <b>Sink</b>-Imported PP integrates molded sink to be acid and alkali resistance.</li> <li>The glass of the door: 6mm(+5%) safety tempered glass.</li> <li>Two tubes fluorescent lamp (LED).</li> <li>Pipe- Pipes are to be brass on which the surface is stroving varnished.</li> </ol>
48	Ryles tube	Separate sheet attached
49	Dedicators (Large)	Made of borosilicate glass,Perfectly transparent,Plastic knob lid , Diameter 2: 240mm, Desiccator disk included
50	Dedicators (small)	Made of borosilicate glass,Perfectly transparent,Plastic knob lid , Diameter 1 : 329mm, Desiccator disk included
51	Microscope Binocular	<p>As per contract</p> <p>Sr No 4 Rates for Miscope 2017-18</p> <p>Company Olympus Ergonomically designed, Highly smooth On Ball sides, 4X10X40X( S/L), oil Imm , Olympus Japan.</p> <p>Eyepieces: Spring-locked 10x/20mm focusable eyepieces with dual diopter adjustments, foldable rubber eye guards, anti-fungal coating</p> <p>Head: Binocular viewing tube with 30° viewing angle, 360° rotatable, interpupillary distance adjustment of 48-75mm</p>



		<p>Objectives: Infinity Plan-Achromatic 4X (0.1 NA/ 30mm WD), 10X (0.25 NA/ 4.82mm WD), 40X (0.65 NA/ 0.62mm WD), 100X (1.25 NA/ 0.11mm WD), all with anti-fungal coating, enable viewing of an assortment of specimens with the highest degree of clarity</p> <p>Stage: Rackless 200x160mm mechanical stage with dual specimen holder and low-drive X/Y movement controls, 78x54mm X/Y travel range</p> <p>Condenser: Abbe 1.25 NA condenser with iris diaphragm</p> <p>Stand: Single mold rust-resistant stand with ergonomic hand rests that provide comfort and stability</p> <p>Focusing: Coarse, 3mm/rotation; fine, 0.3mm/rotation; 12.7mm total travel range</p> <p>Illumination: Available with either halogen (6v/20w) or built-in rechargeable LED (3.4v/1w) illumination . Halogen bulbs offer up to 2,000 hours and LED's offer up to 100,000 hours of operating life</p>
52	Bichemist Charts Scientists	Separate List Attached
53	Chemicals	Separate List Attached

सही/-  
तांत्रिक सदस्य,  
प्राध्यापक  
जीवरसायनशास्त्र विभाग,  
शासकीय वैद्यकीय महाविद्यालय,  
जळगांव

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तांत्रिक सदस्य,  
सहाय्यक प्राध्यापक,  
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जळगांव

सही/-  
अध्यक्ष तथा अधिष्ठाता,  
शासकीय वैद्यकीय महाविद्यालय,  
जळगांव