

## Weighing Machine Electronic for Neonates

### Technical Specifications

1. Should have 1 gm accuracy
2. Should have a minimum measuring capacity 25 gms.
3. Should have easy to read LED display
4. Should measure a maximum weight of 10kgs.
5. Should have zero calibration. Freeze reading display
6. Should hold the measured value irrespective of the baby movements.
7. Should have electronic damping facility for eliminating the reading fluctuations caused by moving baby.
8. Weighing pan should be suitable for weighing new born babies and the construction should not allow the baby to slip from the tray.
9. The Tray should be made of fiber glass/acrylic.
10. Should have a pan size of at least 50cms length, 20cms width and 8cms height.
11. The pan should have facility to measure the length of baby.
12. Should operate on input supply 200 to 230 Vac, 50 Hz.
13. Built in rechargeable battery
14. Table top, light and portable.
15. Certified: ISO/ CE/ FDA

Child Weighing scale:

1. Rugged construction, Stainless Steel Pan with display stand
2. Waterproof
3. LED Display with 6 digits display
4. Auto zero tracking
5. Power source: AC 240 v
6. In built rechargeable battery with Battery backup upto 24 hrs
7. Capacity: 10-150 kg
8. Readability: 10gm
9. Pan size: 300x300 mm
10. Storage of weights in memory upto 100 weights.
11. Interface for computer & printer.
12. Multiple weighing units Gram, Kilo gram, pound.
13. Certified: ISO/CE/FDA



**Measuring Tape: specifications**

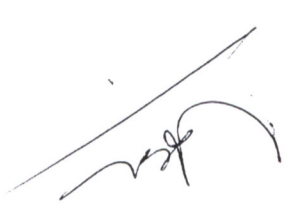
Both sides' metric or one side metric and other in feet, inches, centimetres  
Made up of high quality PVC or fibre glass with PVC covering

Non-conducting, waterproof, washable, non-stretchable and foldable  
Suitable for measuring upto 150 cms

Graded in 1mm precision

Ends should be shielded

Certificate: ISO/FDA/CE



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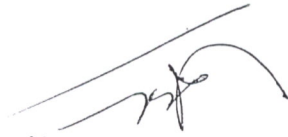
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**Thermometer (Digital): specifications**

- Type: digital, rigid tip
- Function: waterproof, fever beep
- LCD display at least 13.5x6mm
- Unit weight <15gm including battery
- Response time: 1 minute or less
- Range: 32.0-42.9 in centigrade (90-109.9 F), should indicate low/high if beyond these limits
- Accuracy: 0.1 C, 0.2 F
- Last reading memory, fever alarm, auto shut off
- Battery: 1.5v, button battery include, replaceable
- Battery life: 2 years for average use
- Dimension: <15cm x 2cm x 1 cm (L x W x H)
- Warranty: at least 1 year
- Certificate: ISO/FDA/CE

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Department of Physiology

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**Essential Criteria:**

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.
5. The installation process must be completed by the OEM/ Service provider within 30 days of supply.
6. The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
7. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility, all supporting documents must be provided.
8. **Equipment should have brand name / model number embossed/ etched on the equipment.**
9. In case of technical snag/ breakdown, the response time for inspection should be within 24 Hour and repair within 5 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).
10. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.
11. All the technical specifications accepted in the compliance statement must be supported by Original Literature from the firm/ O.E.M with Highlighting, Numbering & Flagging as per below mentioned format for the compliance statement.

S. No.	Technical Specification	Compliance Yes / No	Page No. in the proposal submitted where documentary evidence is enclosed as per tender Specs with highlighting, Numbering & Flagging
1			
2			

Specification

1. (S30) Body Fat Analyser
  - Measuring Bioelectrical Impedance
  - PC Communication: Bluetooth Wireless Interface
  - Impedance Measuring Range: 20 – 1300  $\Omega$ (ohms)
  - Accuracy 5 KHz Impedance : +/- 2  $\Omega$ (ohms)
  - Internal power source
  - Battery should be rechargeable
  - Automatic 100 test memory
  - Warranty five years
2. (S31) Surgical instrument for operative procedures syringes pulleys etc
  - (a) Small .V. clamp with 6 m.m diameter.
  - (b) Muscle grip
  - Having hole to fit 9 mm. upright
  - Scruffed
  - Stainless steel/Brass
  - With rubber seal.
  - (c) Muscle Grip
    - With hole to fit 6 m.m dia stem
    - With Stem 6mm dia and 15-20 cm long.
  - (d) thermometer clamp with rubber covered thermometer.
  - (e) Hook grip with x bock grip
  - (f) Heart clip frog.
  - (g) Heart clip mammalian.
  - (h) bull dog clamp (with –spring -pointer -upright
  - (i) gris scissors.
  - (j) bone cutter.
  - (k) Artery forcepes with Lock.
  - (l) blunt scissors.
  - (m) Pointed Scissors.

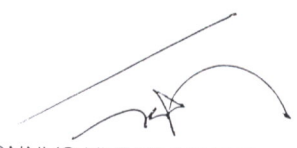


- Toothed forceps and pointed forceps
- 3. (532) Van Slyke's Apparatus manometric
- 4. (533) Ergograph Mossos's
  - MOSSO'S Ergograph for recording work done on to the drum surface with special arm fixation rests sun - mica topped base board with weight set.
  - 5. (534) Refrigerator 9-10cu ft
  - Available
  - 6. (536) Electronic stimulator
    - Frequency continuously variable from .1 Hz. to 100 Hz. in 3 decades of .1 to 1, 1 to 10 and 10 to 100 selectable through push-button controls, and one continuously variable control.
    - Output voltage continuously variable from 0 to 30 volts in two steps of 1 to 3 & 1 to 30, selectable through a switch.
    - Fixed pulse duration 1 mm sec.
    - Single & External trig. Single pulse facility.
    - Sensitive speaker to give audible indication of each output.
    - High stability new circuitry minimises external artifacts.
  - 7. (537) Electronic time markers, 100/sec
    - Frequency continuously variable from .1 Hz. to 100 Hz. in 3 decades of .1 to 1, 1 to 10 and 10 to 100 selectable through push-button controls, and one continuously variable control.
    - Output voltage continuously variable from 0 to 30 volts in two steps of 1 to 3 & 1 to 30, selectable through a switch.
    - Fixed pulse duration 1 mm sec.
    - Single & External trig. Single pulse facility.
    - Sensitive speaker to give audible indication of each output.
    - High stability new circuitry minimises external artifacts.
  - 8. (538) Tuning fork, time marker, 100/sec
    - Hertz -100, Aluminium alloy should be operated at 22-28degree c, Accuracy 99.9%
  - 9. (539) Electrodes, x-block, burrete clamps, enamel bowls brass uprights, with coarse and fine adjustment basin, cooper wire kymograph paper
    - SIMPLE ELECTRODE, with copper wire poles.
    - PLATINUM ELECTRODE, with fixing pins.
    - BIPOLAR ELECTRODE, Platinum tips
    - BIPOLAR ELECTRODE, Silver tips
    - CLOTHES - PEG ELECTRODE
    - DASTRE'S ELECTRODE for deep seated nerves
    - SLIDING JAW ELECTRODE, single jaw, with ball joint supporting arm.
    - SLIDING JAW ELECTRODE, double jaw, with ball joint supporting arm.
    - SLIDING JAW ELECTRODE, triple jaw.
    - MINIATURE ELECTRODE, useful where space is limited



- STANDARD X BLOCK MACHINED from solid brass rod, to hold 12.5 mm & 9 mm dia. Rods, chrome plated.
  - OPEN SIDED X BLOCK, machined from solid brass rod, to hold rods from 3 mm. to 12.5 mm. dia. convenient in use.
  - FINE ADJUSTMENT X BLOCK, permitting fine radial adjustment of the accessory held
10. (540) Large extension kymograph-Brodies starting complete with respiration pump, motor time marker manometer etc.
- 20 cm. vertical lift adjustment with rack & pinion system.
  - Close-mesh 10 speed gear box. Gear ratios 1:2. No backlash. Instantaneous start at all speeds with built in vibration free, noiseless motor
  - Wide speed variation - from 1 rev. in 25 min to 1 rev in 11 hours.
  - Permissible paper length 2.5 meters, adjustable along precision machined 120 cm. Bed.
  - Automatic paper tensioning devices & flat writing surface attachment.
  - 3 jointed arm uprights with fine tangential adjustment.
  - Auxiliary cylinder with fine tilt adjustment to permit equalisation of tension at the top & bottom of the paper.
  - Neutralisation clutch for instantaneous start or stop.
  - Centralised electrical points for Respiration Pump, Time Clock & Operation Table, Mounted on Heavy cast metal platform with castors for mobility.
  - With Manometer & two way Time Marker
11. (541) Volume recorders - 80 c.c Float
12. (542) Annual weighing machine for small and big animal (for each)-
- Digital Balance 500gm X 0.001 with wind shield.
  - 13. (543) Mary's tambour-
    - MAREY'S TAMBOUR 22 mm dia. & stainless capillary lever.
    - MODIFIED BRODIES TAMBOUR, with slip ring for fixing diaphragm, stainless capillary lever.
  - 14. (544) Venus and arterial canula (different sizes) (each)
    - ARTERIAL CANNULA, Corning Glass
    - VENOUS CANNULA, Corning Glass
    - SYME'S PERFUSION CANNULA, Corning Glass
    - THORACIC DUCT CANNULA, Corning
    - SALIVARY DUCT CANNULA, Corning
    - T' CANNULA, corning glass.
    - BLADDER CANNULA, with partition
    - V' TRACHAEL CANNULA BENT, standard V piece with 4, 6, 8, 11 or 14 mm nozzle.
    - EXTRA NOZZLE for 'V' Canula 4, 6, 8, 11 or 14 mm.
    - TRACHEAL CANNULA STRAIGHT, with adjustable vent 4, 6, 8, 11 or 14 mm size.
    - TRACHEAL CANNULA BENT, with adjustable air vent 4, 6, 8, 11 or 14 mm
    - COLLISON'S INTER VENTRICULAR CANNULA, complete unit with set of tools
    - COLLISON'S INTER VENTRICULAR CANNULA, complete unit
    - COLLISON'S INTER VENTRICULAR CANNULA, complete unit

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- 17. (548) Surgical instrument for operative procedures syringes pulleys etc.
  - SMALL V CLAMP with 6 mm. dia. Stem.
  - MUSCLE GRIP with hole to fit 9 mm dia. Upright.
  - MUSCLE GRIP with 6 mm. dia. Stem to fit boss heads.
  - THERMOMETER CLAMP, with rubber covered jaws.
  - HOOK GRIP, with stem to fit X block
  - GASKET CLAMP with hard rubber jaws.
  - HEART CLIP FROG, stainless steel.
  - HEART CLIP MAMMALIAN, stainless steel.
  - BULL - DOG CLAMPS, (ARTERY FORCEPS) from sprung stainless steel, upright pointed serrated jaws.
  - BULL - DOG CLAMPS, (ARTERY FORCEPS) from sprung stainless steel, but jaws straight knobbed
  - BULL - DOG CLAMPS, (ARTERY FORCEPS) from sprung stainless steel, but jaws bent pointed
  - BULL - DOG CLAMPS, (ARTERY FORCEPS) from sprung stainless steel, but jaws bent knobbed
- 18. (549) Demonstration eye piece- as per demonstration.
- 19. (550) Double Demonstration eye piece- as per demonstration.
- 20. (551) Stag incubator. - as per demonstration
- 21. (552) Wastergen's Pipettes for E.S.R on stand(with space pipette. - as per demonstration
- 22. (553) Perimeter Priestly Smith S/LP 984B&T.
- Perimeter Priestly Smith Table model with 100 charts.
- CHARTS for PERIMETER Pkt. Of 100
- 23. (554) Haemoglobinometers sahli or heilige (with space) (imparted). - as per demonstration
- 24. (555) Haemocytometer. - as per demonstration
- 25. (556) Sphygmomanometer. - as per demonstration
- 26. (557) Venus Pressure Apparatus. - as per demonstration

16. (546) Varnishing outfit for long and short papers

- Neat, space saving and portable
- Circular Drying Stand, Stainless steel, for 24 papers.
- Portable stand to take L.P. Smoker, with castors.
- Power driven, with motor
- Long Paper Smoker & Varnisher
- Wall fixing, hand driven.
- Long Paper Smoker & Varnisher
- Stainless steel tray with foot lever, wall fixing
- Varnishing Tray
- With 3" wick & winding up gear
- Smoking Burner: kerosene
- Smoking Burner : Gas
- Suitable for all sizes of cylinders.
- Smoking Stand, with turning handle

15. (545) Smoking outfit for long and short parts-

without set of tools.

25-8

27: (558) Van Syko's Apparatus manometric. - as per demonstration

28: (559) Douglas bag complete- as per demonstration

29: (561) Ergograph Mosses'

MARTIN BICYCLE ERGOGGRAPH

The cycle frame is supported by a sturdy metallic frame, from the front of which two uprights ascend & carry a desk and a cross piece

which provide for the attachment in front of the tension balances. The back wheel, 168 cm in circumference & about 22 kg in weight

carries in its circumference a stout calico the ends of which are attached to spring balances through two set of adjustable pulleys. An

adjustable counter records the revolutions of the wheel. With audio indication of each revolution.

MOSSO'S ERGOGGRAPH: For recording work done on to the drum surface with special arm fixation rests sun - mica topped base board

with weight set

GRIP DYNAMOMETER : With parallel grips & indicator for registering maximum excursion of the pointer. Calibrated pressure

scale.

30: (563) Compass

NEWTON'S COLOUR DISC : Fitted on heavy base with rotating handle.

ELECTRIC COLOUR MIXER : Colour Mixer fitted with motor & regulator for speed, 220 V. 50 cycles A. C.

31: (564) *Thermanaesthesiometer.*

COMPASS AESTHESIOMETER : Stainless steel with well formed points & an adjusting screw giving movement of app. 1 mm.

per half turn read on a scale.

32: (565) Algometer-as per demonstration

33: (566) Apparatus for passive movement-as per demonstration

34: (567) Knee hammer-as per demonstration

35: (568) Stethograph-as per demonstration

36: (569) Bicycle ergometer

MARTIN BICYCLE ERGOGGRAPH

The cycle frame is supported by a sturdy metallic frame, from the front of which two uprights ascend & carry a desk and a cross piece

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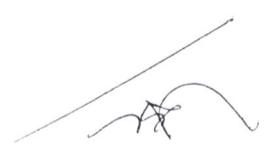
adjustable counter records the revolutions of the wheel. With audio indication of each revolution.

MOSSO'S ERGOGGRAPH: For recording work done on to the drum surface with special arm fixation rests sun - mica topped base board

with weight set

GRIP DYNAMOMETER : With parallel grips & indicator for registering maximum excursion of the pointer. Calibrated pressure

scale.



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- 37. (570) Olfactometer-as per demonstration
- 38. (571) Ophthalmoscope-as per demonstration
- 39. (572) Schematic eye-as per demonstration
- 40. (573) Phakoscope-as per demonstration
- 41. (575) Colour perception lantern Edridge Green
- 42. (576) Medox rod
  - NEWTON'S COLOUR DISC : Fitted on heavy base with rotating handle.
  - ELECTRIC COLOUR MIXER : Colour Mixer fitted with motor & regulator for speed, 220 V. 50 cycles A. C.
  - COMPASS AESTHESIOMETER : Stainless steel with well formed points & an adjusting screw giving movement of app. 1 mm. per half turn read on a scale.
- 43. (577) Newton colour wheel
  - NEWTON'S COLOUR DISC : Fitted on heavy base with rotating handle.
- 44. (578) Tuning forks to test hearing 32-1000cps(sets)-as per demonstration
- 45. (579) Dynamometer-as per demonstration
- 46. (580) Otorhinolaryngoscope-as per demonstration
- 47. (581) Sterilizer Electric-as per demonstration
- 48. (582) Instrument Trolley-as per demonstration
- 49. (583) Stop Watches-as per demonstration
- 50. (584) Calon meter Photo electric-as per demonstration
- 51. (585) Refrigerator 9-10ft-as per demonstration
- 52. (586) Oxygen cylinder trolley-as per demonstration
- 53. (587) CO2 cylinder trolley 9-10ft-as per demonstration
- 54. (588) Electronic stimulator-as per demonstration
- 55. (589) All gas distillation apparatus double stage-as per demonstration
- 56. (590) Voltage stabilizer-as per demonstration
- 57. (591) Step down transformers-as per demonstration
- 58. (592) Thermometer, balances, microslides-as per demonstration
- 59. (593) Dale's bath for internal organ
- 'INCO' MONO BATH  
Thermostatic controlled with stirrer, glass inner vessel, oxygen tube & frontal lever from stainless steel capillary.
- 60. (594) Isolated organ bath

TWO UNIT THERMOSTATIC ORGAN BATH

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- 61. (598) Physiograph 3 channel complete with accessories  
Perspex bath with thermostatic control, electric stirrer, double set of glass inner vessels, oxygen tubes, warming coils, stainless capillary levers, 4 uprights with boss heads, 2 hook grips & 2 lever holders
- Inco Student Physiograph single channel with time & event Console with 9 speed chart drive & stimulator.  
Couplers: Strain guage, Isotonic, Pulse Respiration, temperature, EKG and Bio-Potential.  
Transducer: Pressure, Volume, Activity/Force, Respirationbelt, Fine movement, Pulse, Respiration & Temperature.  
Accessories: EKG electrodes, EEG & EMG paste, V-Pin junction Box, III Pin Junction box, action potential electrode, 10 Pkts of Chart paper Z fold and fuse.
- 62. (599) Physiograph channel complete with accessories  
Inco Student Physiograph Three channel with time & event Console with 9 speed chart drive & stimulator.  
Couplers: Strain guage, Isotonic, Pulse Respiration, temperature, EKG and Bio-Potential.  
Transducer: Pressure, Volume, Activity/Force, Respirationbelt, Fine movement, Pulse, Respiration & Temperature.  
Accessories: EKG electrodes, EEG & EMG paste, V-Pin junction Box, III Pin Junction box, action potential electrode, 10 Pkts of Chart paper Z fold and fuse.
- 63. (600) multi media Projector-as per demonstration  
64. (601) Electric time markers  
65. (602) Tuning fork time marker 100 sec  
STUDENT ELECTRONIC STIMULATOR LATEST DESIGN:  
Frequency continuously variable from .1 Hz. to 100 Hz. In 3 decades of .1 to 1, 1 to 10 and 10 to 100 selectable through push button controls, and one continuously variable control.  
Output voltage continuously variable from 0 to 30 volts in two steps of 1 to 3 & 1 to 30, selectable through a switch.  
Fixed pulse duration 1 mm sec.  
Single & External trig. Single pulse facility.  
Sensitive speaker to give audible indication of each output  
High stability new circuitry minimises external artifacts  
66. (603) Electrodes Xblocks, harrette clamps, enamel bowls brass upright with coarse and fine adjustment basin, spirit lamps. Copper wire (double cotton covered) kymograph paper etc.
- 67. (604) Large extension Kymograph-Bodies starting complete with respiration pump, motor time market, manometer etc.  
68. (605) Volume recorders.  
69. (609) Anaesthesia boxes-as per demonstration.  
70. (610) Demonstration eye pieces-as per demonstration.  
71. (611) Demonstration eye pieces-as per demonstration.  
72. (612) Westergen's pipettes for ESR on stand (with spare pipettes)-as per demonstration.  
73. (613) Sahli (Sahli-Adams) Haemoglobinometer or Haemometer-as per demonstration.  
74. (614) Haemocytometer-as per demonstration.

75. (615) Venus pressure apparatus-as per demonstration.
76. (616) Douglas bag, complete-as per demonstration.
77. (617) Basal Metabolism Apparatus.
- SPROMETER 6 litre capacity. Stainless steel chamber with chain compensated counter balance to float. Pulley calibrated to denote volume, inlet & outlet tubes. Complete with corrugated rubber tube, mouth piece & recording lever.
78. (618) Clinical thermometer-as per demonstration.
79. (621) Algometer-
- INCO analgesimeter (Radiant heat type tail flick method unit It provides pain stimulus to rats tail by radiation from a heated Nichrome wire; the strength of stimulus is accurately monitored At a different strengths by a suitable meter. It contains a chamber Designed provide a constant temperature around the stimulus Area. With rat carrier and a spare heating element.
- PP 154
80. Apratus for passive movement-as per demonstration.
81. Knee hammer.
82. (624) Olfactometer-as per demonstration.
83. (625) Schematic Eye--as per demonstration.
84. (626) Phakoscope-as per demonstration.
85. (624) Perimeter with charts-
86. (628) Colour perception lantern edridge green-as per demonstration.
87. (629) Maddox rod-as per demonstration.
88. (631) Tuning fork to test hearing-as per demonstration.
89. (632) Dynamometer-as per demonstration.
90. (629) Maddox rod-as per demonstration.
91. (631) Refrigerator-as per demonstration.

*K.M.*

Department of Anatomy

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**Essential Criteria:**

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1			
2			



1. Technical Specifications For Tables With Marbles For Stainless Steel  
 Table with marble or stainless steel tops 6'1"x2'x3' high on sturdy tubular frame, with sliding in and out receptacle for waste. SS Standard size: 6" 1"x2"x3" is entirely made of S.S. (steel grade 1.4301), with a frame made of rugged torsion resistant S.S. profiles and 4 S.S. swivel locking castors (125mm dia.). the table top has a depth of approx. 15mm sloping towards the drain. Large radii on all inside corners provided for easy cleaning. A 10 L container with bayonet lock, mounted beneath the table top serves for in the base frame. An air tight compartment mounted beneath the table top serves for an odour free storage of drapes. It features a stainless steel full extension drawer and a removable lid. Should have ISO 13485 certification

2. Technical Specifications For Table Stainless Steel, Half Standard

Half standard size 3'x2' on sturdy tubular frame.  
 Half standard size S.S. for dissection  
 is entirely made of S.S. (steel grade 1.4301), with a frame made of rugged torsion resistant S.S. profiles and 4 S.S. swivel locking castors (125mm dia.). the table top has a depth of approx. 15mm sloping towards the drain. Large radii on all inside corners provided for easy cleaning. A 10 L container with bayonet lock, mounted beneath the down spout, is applied to a rack in the base frame. An air tight compartment mounted beneath the table top serves for an odour free storage of drapes. It features a stainless steel full extension drawer and a removable lid. With wheels. Size: 3"x2"x3".

3. Technical Specifications For Drill Machine

Universal hand drill; comprise sagittal saw head piece, mini hand drill, transverse saw, triple drill guide 130 angles as well as open gear hand machine drill with S.S. check and key. These are precision designed in line with defined safety standards and for cadaver use. Should have ISO 13485 certification

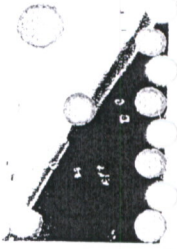
4. Technical Specifications For Hand Saw

Hand saw with high carbon steel blades made at HRD to 52 degrees, hard and durable, anti rust and smoothness, which leads to less friction, blades chrome plated blades.  
 Specifications :  
 For HRC, Blade materials reaches 52 degrees and teeth reaches 60 degrees (+ - 3)  
 Chrome treatment, antirust, smooth resulting in less friction

Professor & Head  
 Department of Anatomy  
 Government Medical College  
 Bangalore

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Elegant Handles, ergonomic  
Special Teeth Design, sharp at edges  
Versatile assortments  
Should have ISO 13485 certification

5. Technical Specifications For Band Saw For Sectioning Body And Limb  
Max Job Height in mm 200.  
Max. Throat in mm 200.  
Table size (L x W) in mm 600 x 600.  
Blade speed in mtr/min 20-100  
Blade size (L x W x T) in mm 3505 x 27 x 0.9.  
Saw motor capacity in HP 3.  
Coolant motor capacity in HP 0.16.  
Overall size (L x W x H) in mm 900 x 700 x 2100.  
Approx Weight in kg 400.  
Should have ISO 13485 certification.

6. Technical Specifications For Stools Preferably Metal  
These revolving stool are with four legged steel tubular frame work. Stainless steel revolving top. Our bedside revolving stool are with screw based height adjustment from 450 mm to 680 mm. These revolving stool are ring fitted with legs for foot rest. Legs fitted with rubber shoes. pre treated and epoxy powder coated. Should have ISO 13485 certification

7. Technical Specifications For Brain Knife  
Knives are of premium quality in cutting instrument segment, high quality stainless steel with heat-treat our blades.  
Features: Edge technology creates a blade that is sharper out of the box, holds its edge longer and is easier to re-sharpen; Handle materials used are selected from a variety of man-made and natural materials, providing the best appearance and performance or S.S.,  
Should have ISO 13485 certification

8. Technical Specifications for Mortuary Cooler with Arrangement to Keep upto 8 Bodies  
1. Corrosion Free interior and exterior  
2. Audio visual alarm for high and low temperature.  
3. Designed for long storage of cadaverous.  
4. PUF insulation on all sides  
5. Special Design ensuring best hygiene with washing & draining facility.  
6. Reliable  
7. Special Loading trolley.  
8. Energy efficient and sturdy construction

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- 9. Light weight
- 10. Digital temperature indication
- 11. Low maintenance
- 12. Microprocessor based / PLC temperature control.
- 13. Double walled cooling units
- 14. Outer body of the mortuary chamber is constructed out of thick S.S. sheets. The inner chamber made of heavy gauge stainless steel sheet of SS-304 grade. The 100mm gap between the walls filled high grade poly urethane insulation, which ensures maximum thermal efficiency.

- 15. The doors connected by very sturdy chrome plate hinges and fitted with hard chrome plated lubricated latches for opening of the door.
- 16. The door made of galvanized steel sheets, lined with stainless steel for extra protection and long life.
- 17. All the doors fitted with high quality neoprene rubber gaskets for air tight fittings with very sturdy casters
- 18. CFC free compressors, conforming to last international standards and guidelines. Twin compressors of which one is standby.
- 19. Vapour proof lamp inside
- 20. Temperature range 2 to 4° c with temp failure alarms.
- 21. Suitable Voltage automatic stabilizer O/P 230 +/- 10% I/P 150-280 volts. to be installed at each site as per the site conditions.
- 22. The unit should be (3x2) x2 or (2x2) x3 format.

- Mortuary cooler with arrangement to keep at least 8 bodies or suitable alternative arrangement.
- Mortuary chamber Temp. 2° to 5° C
- Two bodies
- Four bodies
- Eight bodies
- With Voltage Stabilizer
- As per ISO 13485 certification


**9. Technical Specifications For Storage Tank to Hold 10 Cadavers, Made of Concrete with Copper Lid with Tilting**

Storage tank to hold 10 cadavers, made of concrete with copper lid Type 304 stainless-steel construction Built-in cadaver submersion storage system with an integral cadaver platform that can be raised when needed for study and lowered for atorage.

**10. Technical Specifications For Plastic Tank For Storing Soft And Dissected Parts**

Should be of best quality.  
Should be a medical grade product.  
Should have ISO 13485 certification

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**11. Technical Specifications For Trolley Table (Steel Light)**

Trolley Table powder coated frame with stainless Steel. Castor for ease in shifting, SS, frame work of SS tubes mounted on four 50mm dia swivelling castors. There are two stainless steel shelves with three side railings on top shelf only in these instrument trolleys. Pre treated and epoxy powder coated. Overall approximate size : 680mm (L)X450mm (W)X820mm (H). Should have ISO 13485 certification

**12. Technical Specifications For Overhead Projector**

Streamlined body finished in various pastel colours. Projection head folding type focusing by rack -n- Pinion. Illumination -600/ 650W -220V AC or 24V -250W halogen bulbs on step -down transformer with solid state control Light intensity and cooling system to projector overheating self lubricating type motor, the stage temperature is maintained at 45°C approx. Interlocked with switch for lamp protection against voltage surges. Writing surface 250X250mm or 285X285mm. Complete with on-off switch, mains indicators, light intensity control switch cord plug & fuse etc Accessories provided are transparent cellophane roll writing pen pack cleaning cloth venyle cover. Packed in a card -board box with thermocol packing. Double bulb low voltage system with two halogen bulbs 24V -250W through step -down transformer. The dual bulb system facilitates switching over to second provided bulb instantly in case of damage of the running one with out disturbing continuity of discussion. Writing surface 250X250mm.

**13. Technical Specifications For X Ray View Box**

X-ray viewing box 4 in 1  
1. Panel side by side X-Ray View Box Illuminators: High quality with aesthetic finish.  
2. Should have the following standard features  
3. LED light source (blue type) lasting several thousand hours.  
4. Roller gravity film holding system  
5. Durable steel construction  
6. 'Thin 3" Profile  
7. Chip resistant hospital white finish  
8. Continuous bottom film ledge  
9. Even view reflective system, with white acrylic translucent surface.  
10. Centralized cluster On/Off switching.  
11. Optional features:  
12. FAS-film activated Switching

- 13. MS-Master Switch
- 14. HGP-Hospital Grade Plug Specs: Surface Wall Mount 3 Panels side by side 56"x17" viewing Area.
- 15. Overall dimensions Spprox.: 56"(L) 21"(H) 3 3/8" (D) approx.
- 16. Illumination: 2000 cd/m<sup>2</sup>
- 17. It should be aesthetic and high quality, thin type and mountable on wall.
- 18. Power supply
- 19. Power input to be 220-240VAC, 50 HZ.
- Should have ISO 13485 certification

**16. Technical Specifications For Meat Cutting Machine For Thin Body Section (Trans And Vertical) For Gross Anatomy Sectional Study**

Useful for preparing specimen for big size in Anatomy and Meat Departments. Fitted with large moving table and extension table operated on four ball-bearing rollers. Used extensively in the meat packing, and wholesale fish industry, for handling sword fish and large halibutes etc.

Specifications
Size of cutting table
Total table travel
Extension table
Size of wheel
Height
1700 mm
455 mm
455 x 760mm
1245mm
785 x 585 mm
(Approx. Size)

The table is made of thick S.S. sheet with special heavy axles for easy and firm movement. Supplied complete with one blade, starter, cord and plug, works on 220 V, single phase, 50Hz, AC supply.

**17. Technical Specifications For Monocular Microscope**

The standard microscope shall be equipped with:-

- One 10x wide field Eye piece.
- 4 Nos. Objectives, Par focal Achromatic, 4x, 10x, 40x SI oil immersion.
- Stage: Horizontal Mechanical of size 120x125mm;

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illumination: High intensity compact light source 6V, 20W Halogen lamp with on/off switch, light intensity regulator and Plano concave mirror attachment suitable for 220V, 50Hz, AC supply.

### 18. Technical Specifications For Dissecting Microscope

#### DISSECTING MICROSCOPE

Binocular dissecting microscope Zooming body zoom ratio 6.3:1. Eyepiece 10x (FN 22) with diopter adjuster, rubber eye shield, reticle lead. Low eye level binocular eyepiece tube 20 degree inclined. Plan 1x objective. Diascopic stand (transmitted light illuminator) transparent stage glass. LED illumination.

Magnification: 4x-200x.

### 19. Technical Specifications For Microtome Rotary

Ergonomic design, Compact dimensions. Vertical guidance by zero-backlash and maintenance free cross roller bearings

Electronic precision feed mechanism with stepping motor technology

Total Section thickness range from 0.5 up to 100 um

Especially smooth running hand wheel. One hand quick clamp change

Fine orientation with one hand operation and zero positioning, Easy exchange of specimens.

Specimen retraction during return travel, can be turned off. Indication of all relevant information such as section thickness, trim thickness, number of sections, section thickness sum, remaining travel of the specimen feed as well as time and date. Reduced number of buttons for intuitive operation.

Patented and ergonomic one knob operation of the specimen feed with variable speed adjustment.

Indication of cutting parameters, can be switched over to large indication.

Large section waste tray, covering the entire working area.

Ergonomically optimized operating elements for non tiring usage.

Design with highest demands concerning operational safety and ergonomics.

Integrated removable storage plate.

Stepping motor micrometer mechanism

Specimen retraction during return travel: 0-200 um, selectable

Fine section thickness feed via precision stepping motor from 0.5 to 100 microns:

up to 2 um in 0.5 um increments, up to 10 um in 1 um increments, up to 50 um in 2 um increments,

up to 100 um in 5 um increments,

Trimming thickness feed via precision stepping motor 0.5 um to 300 um:

Horizontal feed range 28 mm. Vertical specimen stroke 60-70 mm.

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- ☐ Specimen orientation universal 8☐, can be rotated 360, Specimen feed memory: 2 positions, programmable
- ☐ 230 V 50 Hz 480 x 610 x 350 mm (W/D/H) Wt: 33 kg
- ☐ To be supplied with Disposable Blade holder common for both High and Low Profile Blades
- ☐ 1 pkt each of High and Low profile Disposable Blades (50/pk)
- ☐ Manufacturer must be ISO certified and product must conform to European CE or American FDA.

**20. Technical Specifications For Microtome Sledge Large Cutting**

Sledge microtome/sliding microtome for cutting large blocks of paraffin and resin embedded material for light microscopy. The knife holding clamps shall allow the knife to be offset to the direction of cut, a major advantage when sectioning large, hard blocks. The microtome which is very heavy for stability and not usually subject to vibration, with a feed range of 0-20microns Should have ISO 13485 certification

**21. Technical Specifications For Cabinets For Slides(1000)**

Slide Cabinet Deluxe Aluminum Grooves Cap.(1000)  
 Wrap proof, break proof molded plastic/ wooden boxes for storage of prepared microscopic slides. Have slots to accommodate 1000 slides with lid./ wooden with hinged lid, slides are held in numbered slots and there is an index inside the lid.  
 Should have ISO 13485 certification

**22. Technical Specifications For Incubators**

Standard double wall fabrication. Inner chamber made out of richly anodized aluminum or highly polished stainless steel sheet and outer made out of thick mild steel sheet finished in white stoving enamel/powder coated paint with mat finished colour combination. Double wall door with double glass window for observation in the chamber. Temperature range 5° C above ambient to 80° C ± 1° C controlled by a thermostat. The equipment is workable on 220 V Ac 50 Hz single phase.

- i. Air circulating fan.
  - ii. Timer 0-24 hours
  - iii. Digital On-Off Timer
  - iv. Imported thermostat "EGO" / "JUMO" German
  - v. Digital temp. Indicator - cum - controller
- Chamber size in mm/inches No. of Capacity
- |          |                                     |
|----------|-------------------------------------|
| 65 ltrs. | 400 x 400 x 400 (16" x 16" x 16") 2 |
| 95 ltrs. | 450 x 450 x 450 (18" x 18" x 18") 2 |

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(Approx.)  
28 ltrs.

Chamber size in mm/ Inches No. of Capacity  
H D W (Approx.) Shelves  
a) 300 X 300 x 300 (12" x 12" x 12") 2

combinations.  
Kanthal wire heating elements provided on three sides to attain quick and uniform heating in range of 50° C to 250° C ± 2° C, controlled by capillary type thermostat. L-shaped thermometer is built-in type. Control panel is provided with selector switch of high or low rates of power thermostat knob and indicators for mains & thermostat. Supplied with cord and plug. The equipment is suitable to operate on 220 V AC 50Hz single phase.

**25. Technical Specifications For Hot Air Cover For Drying Slides**

Standard double wall fabrication, inner chamber made of richly anodized aluminum or highly polished stainless steel sheet. Exterior fabricated out of thick milled steel sheet duly finished in white stovling enamel/powder coated paint with mat finished colour combinations.  
Kanthal wire heating elements provided on three sides to attain quick and uniform heating in range of 50° C to 250° C ± 2° C, controlled by capillary type thermostat. L-shaped thermometer is built-in type. Control panel is provided with selector switch of high or low rates of power thermostat knob and indicators for mains & thermostat. Supplied with cord and plug. The equipment is suitable to operate on 220 V AC 50Hz single phase.

**24. Technical Specifications For Hot Plate**

Body is fabricated out of thick mild steel duly finished in white stovling enamel/powder coated paint with mat finished colour combination. The hot plate made of cast iron or top is made of highly polished stainless steel sheet precisely machined & smoothed duly finished in heat resistant black paint is firmly mounted on the body. Heavy duty heating elements are securely layed under the plate to operate on 220V AC 50Hz single phase. Temp. is controlled by a three-heat rotary switch / energy regulator as per demand.  
To work on 220/230 volts A.C. with standard double walled water bath but provided with cups & sieves for glass tubes.  
a) 6 cups & 8 sleeves.

**23. Technical Specifications For Paraffin Embedding Bath**

Temperature range from ambient temperature to 95° C. Thermostatic control with an accuracy of ± 1° C. Double walled, inside stainless steel and outside mild steel sheet painted in epoxy powder coating. Top of the bath and concentric rings of stainless steel.

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26. Technical Specifications For Electronic Digital Analytical Balance Should Be Iso 9000 Certified Gmp / Glp Compliance

Should Have Following Features:

- Weight range : 0-210 gm
- Sensitivity : 0.1 mg i.e. 0.0001 gm
- Accuracy : 0.1 mg
- Linearity : 0.2 mg
- Pan : S.S., Dia 85 mm
- Internal Adjustment Weight in-built
- Automatic Self One touch Calibration
- Standard RS-232 C Interface for connectivity to computer/printer
- Win CT-Standard windows communication tools software (Win CT) should be supplied along with the balance compatible with MS Word and MS Excel.
- Data Memory Function: Stores up to 200 sets weighing data
- Large Seven Segment LCD Display
- 13 Multiple Weighing
- Over load and shock protection.

27. Technical Specifications For Balance Eranger Capacity 6 Kilos Sensitivity 1/5gms

Capacity: 6 Kilos, Sensitivity 1/5gram, plastic scale  
Hanger Type circular weighing scales – 1  
Dial type analog display; light weight aluminium die cast body; un breakable convex lens; matching body and lens ring; sturdy durable and maintenance free  
Should have ISO 13485 certification

28. Technical Specifications For Double Door Refrigerator

Model Type Double Door  
Power Source AC 220V, 50Hz  
Defrosting Fully automatic self draining ( liters)  
Capacity Total 260 L  
5 years warranty  
With Voltage stabilizer

29. Technical Specifications For Distilled Water Still Menesty Type

Stainless steel Menesty type water still: made of all stainless steel; output 4lt./hr approx; work on 220V AC; the condenser can be opened easily for periodic cleaning, designed to provide pyrogen free distilled water easily. Complete unit made of

stainless steel. The lid perfectly rest and get sealed inside the collar on the head of the tank which avoids loss of steam and jumping of lid., easy wall mounting.

a) Output approx ⅓ litres per hour.

**30. Technical Specifications For Diamond Pencils**

Should be of best quality.  
Should be a medical grade product.  
Should have ISO 13485 certification

**31. Technical Specifications For 7 Colour Marking Pencils**

Should be of best quality.  
Should be a medical grade product.  
Should have ISO 13485 certification

**32. Technical Specifications For Fully Automatic Rotary Microtome**

Fully Automatic Rotary Microtome:-

Operating pad for motorized advance/return. Operating pad for motorised cutting. Individual or series cutting. Motorised cutting. LCD display of cutting Thickness, thickness during trimming & cutting speed in RPM. Operation can be started from display board or manually by hand wheel or by optional foot switch.

Technical Data  
Range of thickness: 0.5 µm to 99 µm. Increments minimum: 0.5µm, 1 µm-99 µm in 1 µm steps, Electronically Adjustable. Horizontal Specimen Advance: 28mm. Vertical Stroke:60mm. Specimen size: upto30mm x 30mm. Specimen Orientation: X and Y Axis 8° & Z axis 360° specimen final option: can be selected top or bottom position. Specimen advance automatic: 2 speeds. Trimming: Adjustable from 1-99 µm cutting speed: Cutting stroke and return stroke each & adjustable between 1 to 99 RPM. Electrical data : 230 volts, 50 cycles single phase AC. The equipment should supplied complete with :- Cassette holder, knife holder base, Standard Knife holder, Object orientation unit, section waste tray, Microtome knife 15cm. Disposable blade attachment with low profile & high profile blade.

**33. Technical Specifications For Embalming Machine / Master Flex For Cadaverous**

Operating temperature: 0° to 40° C (32° to 104° F)  
Storage temperature : -45° to 65° C (-49° to 149° F)  
Chemical Resistance: ABS plastic case with a polyester label, gold, irridite-coated aluminum chassis and zinc-plated screws.  
Line Voltage Limits: All materials withstand standard cleaning solvents.  
Power output: 90-130 V or 190-260V, 50-60HZ  
Maximum Current: 0.075 KW (0.1 hp)