

**DEPARTMENT OF PHYSIOLOGY**

<b>Sl. No.</b>	<b>Name of the Items</b>	<b>No. of units Requirement</b>	<b>Pack size Acceptable</b>	<b>Rate must be quoted per unit given below</b>
1.	Tuning fork 512 HZ	10 nos.	1 No	Each
2.	Compass Aesthesiometer	10 nos.	1 no	Each
3.	Stethoscope	40 nos.	1 no.	Each
4.	Von frey's hair aesthesiometer	10 nos.	1 no.	Each
5.	B.P.apparatus (Sphygmomanometer)	30 nos.	1 no.	Each
6.	Stethograph with Velcro attachment (soft corrugated rubber tube)	10 nos.	1 no.	Each
7.	Mary's tambour (4 cm & 4.2 cm diameter)	10 nos./each	1 no.	Each
8.	Metronome 40-200 contacts / minute	4 nos.	1 no.	Each
9.	Sahlis Haemoglobinometer with Box Specification ; ( pipette, tube, stirrer, brush, dropper, Hcl bottle)	50 nos.	1 no.	Each
10.	Improved Neubauer's Chamber (Mercury coated) with (RBC pipette, WBC pipette & safe Box )	50 nos.	1 no.	Each
11.	Stainless steel tray (size 20 X 24 cm)	60 nos.	1 no	Each
12.	Vibrating reed (Vibrating variable interrupter) calibrated to vibrate at 5 to 30 vibrations /sec.	2 nos.	1 no.	Each
13.	Stainless steel bone cutter (for frog experiments)			
	1. size 8"	4 nos.	1 no.	Each
	2. Size 10"	4 nos.	1 no.	Each
14.	Dissecting scissors straight with fine tips			
	5 1/2" – 10 nos	10 nos.	1 no.	Each
	6 1/2" – 10 nos.	10 nos.	1 no.	Each
	7 " - 10 nos.	10 nos.	1 no.	Each
15.	Scissors 1. Fine – Straight 4 1/2 inch	10 nos.	1 no.	Each
	2. Large – Straight 5 1/2 inch	10 nos.	1 no.	Each

	<b>3. Large - Curved - 5 ½ inch</b>	<b>10 nos.</b>	<b>1 no.</b>	<b>Each</b>
<b>16.</b>	<b>Vaccum cleaner (Portable, mini vacuum cleaner with blower facility)</b>	<b>1 no.</b>	<b>1 no.</b>	<b>Each</b>
<b>17.</b>	<b>Tailor measuring Tape</b>	<b>20nos.</b>	<b>1 no.</b>	<b>Each</b>
<b>18.</b>	<b>Dustbin with lid (small size)</b>	<b>40 nos.</b>	<b>1 no.</b>	<b>Each</b>
<b>19.</b>	<b>Pen Torch light</b>	<b>10 nos.</b>	<b>1 no.</b>	<b>Each</b>
<b>20.</b>	<b>19" LCD Computer monitors for AFT analysis</b>	<b>1 no.</b>	<b>1 no.</b>	<b>Each</b>
<b>21.</b>	<b>Keyboard for computer</b>	<b>2 nos.</b>	<b>1 no.</b>	<b>Each</b>
<b>22.</b>	<b>DVD Rewritable drive</b>	<b>2 nos.</b>	<b>1 no.</b>	<b>Each</b>
<b>23.</b>	<b>Monocular Inclined Microscope -</b>	<b>60 nos.</b>	<b>1 no.</b>	<b>Each</b>
	<b>1. Monocular head inclined at 30°, 360° rotatable with super wide field. Field of view up to 22 mm.</b>			
	<b>2. Super wide field WF 10X, 22mm high eye point with eye guard eye shield.</b>			
	<b>3. Ultra high resolution with antifungal S-PLAN achromatic objective 4x, 10x, 40x (High day spring loaded) 100X oil immersion (spring loaded antifungal.)</b>			
	<b>4. Double layer mechanical stage 160 X 140 mm (75 X 50 mm, ball bearing type with low position coaxial controller).</b>			
	<b>5. Aspheric lens illumination built-in halogen lamp 12V, 20W brightness adjustable with SMPS power supply, Self removable magnetic contact aspheric lamp control for self charging of bulb.</b>			
	<b>6. Abbe's condenser 1.25 with diaphragm and filter holder.</b>			
	<b>7. Smooth centred multiple ball bearing quadruple nose piece.</b>			
	<b>8. Coaxial glass focusing coarse and fine mechanism.</b>			
	<b><u>Accessories:</u></b>			

	9. All the accessories (3 nos. Spare bulbs, dust protect cabinet, fuses, microscope oil for each microscope should be provided free of cost.)			
24.	Frontal lever	5 nos.	1 no.	Each
25.	Plastic measuring tape (0-2 mts)	2 nos.	1 no	Each
26.	<u>Emergency lamp</u> Spec:	1 nos.	1 no.	Each
	8 watt tube, torch facility, rechargeable			
27.	Polytheen tube for using (RBC & WBC Pipette)	15 mtrs.	1 mtr.	1 mtr.
28.	Micro glass slide (size 76mm X 25 mm thickness 1.45 mm, smooth edges, each box contain 50 nos.	400 boxes.	pkt of 50 nos.	per pkt.
29.	<u>Digital temperature monitor:</u> Spec: 1. Measures and displays temperature in Celsius. Rang: 0 to 70 degree Celsius. 2. Memory function to recall maximum and minimum values. 3. Requires one AAA battery which lasts upto 2 years. 4. Wall mountable with stand on back side.	1 no.	1 no.	Each
30	Lazer Printer (colour)	1 no.	1 no.	Each
31	Emergency lamp (8 W tube, torch facility, rechargeable)	1 no.	1 no.	Each
32	<u>Automated BP instrument</u> <u>Spec:</u> Clinically validated algorithm. Memory capacity for 14 readings. Measuring range BP – 0-299 mmHg Pulse 40 -180 beats /min Inflation – automatic electronic pump Accuracy – Pressure : ± 3 mm Hg Pulse : ± - 5% of display reading Std upper arm cuff - 22 cm to 32 cm 32 cm to 42 cm Pressure detection – Capacitive pressure sensor	4 nos.	1 no.	Each

	To be validated by British Hypertensive society(BHS)			
33	<b><u>Harpenden skin fold caliper</u></b>	2 nos.	1 no.	Each
	<b><u>Spec:</u></b>			
	<b>1.Harpenden skin fold caliper</b>			
	<b>2. Dial graduation: 0.2 mm</b>			
	<b>3. Measuring range : 0-80 mm</b>			
	<b>4.Mean upscale dynamic pressure:</b>			
	<b>10 ±0.5 g. mm<sup>-2</sup> (0.098 ± 0.005 N.mm<sup>-2</sup>)</b>			
	<b>5. Mean downscale static pressure:</b>			
	<b>8.25 ± 0.5 g.mm<sup>-2</sup> (0.081 ± 0.005 N. mm<sup>-2</sup>)</b>			
	<b>6. Difference between upscale &amp; downscale pressure: 10 ± 0.5 g.mm<sup>-2</sup> (0.098 ± 0.005 N.mm<sup>-2</sup>)</b>			
<b>7.Standard jaw pressure: 10 g.mm<sup>-2</sup> (0.098 N. mm<sup>-2</sup>) ( Jaw pressure should not vary by more than 2 g.mm<sup>-2</sup> Over a jaw gap range of 2-40 mm)</b>				
<b>8. Jaw surface area: 6 mm * 15 mm</b>				
<b>9. Accuracy : 99%</b>				
<b>10. Repeatability : 0.2 mm</b>				
	<b>Hand grip dynamometer</b>	2 nos.	1 no.	Each
	<b>i. 0-100 Kg. graduation of 1 K.gram</b>			
34	<b>Hand grip dynamometer (digital) 0-100 Kg.</b>	1 no.	1 no.	Each
35	<b>Stadiometer</b>	1 no.	1 no.	Each
	<b>i.Measuring range à 60 – 210 cm</b>			
	<b>ii.Graduation range à 1 mm</b>			
36	<b>Digital weighing Balance</b>	1 no.	1 no.	Each
	<b>(Max. 120 Kgs. Least count : 10 gm.</b>			
37	<b>Non extendable tape for anthropometric measurement</b>	1 no.	1 no.	Each
	<b><u>Spec:</u></b>			
	<b>i.(Measuring à 15 – 200 cm.</b>			
	<b>ii.Graduation à 1 mm)</b>			
38	<b>Pregel Electrode ( I Pkt. Contains 50 nos.)</b>	100 pkt.	per pkt. Of 100 nos.	per pkt.

39	ECG gel	20 bottles	100 ml per bottle	1 bottle
40	Flat centigrade thermometer (clinical)	15 nos.	1 no.	Each
41	Glass rod with tip bended (to separate nerve & muscle in frog experiments), 10 cm. length	50 nos.	1 no.	Each
42	Lancet box	50,000 nos.	per pkt. Of 200 nos.	per pkt.
43	Coverslip ( Micro glass), smooth edges	200 boxes.	1 box of 50 nos.	1 box.
44	Spreaders (each box 50 nos.)	2 nos.	1 no.	Each
45	Thermometer laboratory (0-300° C )	5 nos.	1 no	Each
46	Pasteur pipette with long nozzle	50 nos.	1 no	Each
47	Heparinized capillary tubes (for using)	4 Box.	1 box of 100 nos.	per box
	Micro haemocrit (one box contains 100 nos.)			
48	Wintrob's tube	100 nos.	1 no.	Each
49	Beaker (plastic 100 ml)	50 nos.	1 no.	Each
50	Knee hammer	50 nos.	1 no.	Each
51	Digital stop watch (Second & timer)	4 nos.	1 no	Each
52	Du,Bois- Reymond inductorium	2 nos.	1 no.	Each
53	Capillary tube for clotting time (each box 100 nos)	20 nos.	1 box of 100 nos.	Each
54	Surgical steel tray (size 20 X 24 cm)	50 nos.	1 no.	Each
55	Kymograph paper (with 15cm 51 cm length)	300 sheet	per pkt. Of 100 nos.	per pkt.
56	Filter paper (90 mm whatman)	50 boxes	per pkt. Of 100 sheets	per pkt.
57	Filter paper (60 cm X 60 cm)	300 sheets	1 sheet	1 sheet
58	Microphone for theater	1 no.	1 no.	1 no.
59	Over Head Projector	1 no.	1 no.	1 no.
60	Collar mike	2 nos.	1 no	1 no.
61	Dropper bottle	500 ml .X 10 nos.	500 ml. X 10 nos.	1 no.

62	Rate Cages (Plastic body, 40 X 24 X 15 cm Metal Lid with hole for bottle (feeding water))	50 nos.	1 no.	Each
63	Feeding water Bottles ( 150 ml, Plastic cap, Metal nozzle with ball)	100 nos.	1 no	Each
64	Cleaning Brush for water bottle (with spring mechanism)	100 nos.	1 no.	Each
65	Lesion making needle 26 G (Metal hub 3 inch length)	50 nos.	1 no.	Each
66	Micro liter syringe with plunger 5 µl	3 nos.	1 no	Each
67	Infusion sets	50 nos.	1 no.	Each
68	3 way cannula	10 nos.	1 no.	Each
69	Scalp Vein (21 G)	20 nos.	1 no.	Each
<b>CHEMICALS</b>				
70	Teepal	5 liters	1 ltr. X 5 nos.	per lit.
71	Acetone (500 ml bottle)	6 nos.	500 ml X 6 nos.	Each
72	KH <sub>2</sub> Po <sub>4</sub> (Buffer solution)	500 gm X1no.	100 gm to 500 gm	per gm.
73.	Na <sub>2</sub> Hpo <sub>4</sub>	500 gm X1no	100 gm to 500 gm	per gm.
74.	Nacl	500 gm. X 1 no.	100 gm to 500 gm	per gm.
75.	Kcl	500 gm. X 1 no	100 gm to 500 gm	per gm.
76.	Cacl <sub>2</sub>	500 gm X 1 no	100 gm to 500 gm	per gm.
77.	Na H Co <sub>3</sub>	500 gm X 1. no	100 gm to 500 gm	per gm.
78.	Na H <sub>2</sub> Po <sub>4</sub>	500 gm X 1 no.	100 gm to 500 gm	per gm.
79.	Dextrose	500 gm X 1 no.	100 gm to 500 gm	per gm.
80.	Mg So <sub>4</sub>	500 gm X 1 no.	100 gm to 500 gm	per gm.
81.	Ammonium oxalate	500 gm X 1 no.	100 gm to 500 gm	per gm.
82.	Heparin	5 vials	1 vial	1 vial
83.	Inj. Ketamine	15 vials.	1 vial	1 vial

84.	Urethane	100 gm.	10 gm to 100 gm	per gm.
85.	Inj. Adrenaline bitartrate (1.8 mg)	60 ampu.	1 ampul.	1 ampoules
86.	Acetylcholine	10 vials	1 vial	1 vial
87.	Atropine	10 vials	1 vial	1 vial
88.	Solvent Ether I.P	500 ml X 10 nos.	500 ml to 1000 ml	500 ml
89.	Inj. Paracetamol (2 ml) 150 mg/ml	50 ampoules	1 ampoules	1 ampoules
90.	(Expiry date upto 2012)			
91.	Dental cement with liquid (Acrylic Repair Material , Denture Base Polyme Resin- pink)	2 packs		per pack
92	Formaldehyde ( HCHO MW 30.03)	500 ml X 10 nos.	500 ml to 1000 ml	500 ml
93	New methylene Blue	100 ml.	100 ml	100 ml.
94	Brilliant cresyl Blue	100 ml.	100 ml.	100 ml
95	Methanol	5 lits.	1 ltr. X 5 nos.	per ltr.
96	Liquid paraffin	2 lits.	500 ml X 4 nos.	500 ml.
97	Clove oil	100 ml.	100 ml.	per ml