

Rashtrasant Janardan Swami Foundation's



**Smt. Sakhubai Narayanrao Katkade
Medical College & Research Center**

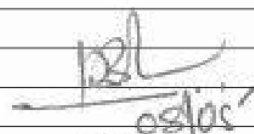
ANNEXURE -XXVIII



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DEPARTMENT OF ANATOMY

S.No.	NAME OF THE ITEMS	No. Required
(A)	General	
1	Table with marble or stainless-steel tops with a minimum size of 6' x 2' x 3'	18
2	Tables with marble or stainless steel tops - half standard size	5
3	Drill machine	3
4	Hand saw, preferably metal	3
5	Band saw for sectioning body and limbs	1
6	Brain knife	3
7	Mortuary cooler with arrangement to keep 1 body	1
8	Storage tank to hold 10 cadavers, static/movable, durable tank with input and output facility with lid	3
9	Plastic tanks for storing soft and dissected parts	10
10	Multimedia Projector with screen	2
11	Trolley Table (Steel)	2
12	Movie camera with projection screen	1
13	Computer with internet connection, & video CD library	3
14	X-ray viewing lobby	4
15	X-Ray plates/MRI/CAT scan/USG	30
16	Charts, Diagrams, Models, Slides etc.	200
17	Dissecting instruments for cadaveric dissection	30
18	Meat cutting machine for thin body sections (trans and vertical) for gross anatomy sectional study	1
19	Cadavers	15
20	Embalming Machine	1
(B)	Histology Laboratory	
21	Microscopes, Monocular	75
22	Dissection microscope	4
23	Microtomes, rotary (Optional)	1
24	Microtomes, Sledge, large cutting	1
25	Cabinet for slides (1000)	5
26	Incubators	1
27	Paraffin embedding bath	1
28	Hot plates for flattening sections	1
29	Hot air oven for drying slides (45 °C)	1
30	Refrigerators (Minimum 165 litres)	2
31	Marking pencils	5
(C)	Museum	
32	Articulated Skeleton set	7
33	Bones (Dis-articulated) sets	30


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34	Specimen Wet	150
35	Steel racks	40
36	Laptop	1
37	Desktop Computer, with Printer	3
38	Photocopier and Scanner	1

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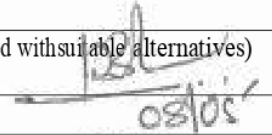
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DEPARTMENT OF PHYSIOLOGY

S.No.	NAME OF THE ITEMS	No. Required
1	Sherrington Starling kymograph (electrically driven)	2
2	Myograph stand	2
3	Inductarium	2
4	Simple key	2
5	Short circuiting key	2
6	Pohl's commutator	2
7	Vibrating interrupter	2
8	Muscle trough	2
9	Muscle lever	2
10	Muscle grip of femur clamp	2
11	Hook and Weight set	2
12	Heart lever (simple & Starling)	2
13	Frog board for dissection	2
14	Enamel tray	2
15	Frog board cork lined with boss head	2
16	Low voltage unit for tapping 2 and 4 volts for stimulation	2
17	Electromagnetic time marker	2
18	Tuning fork time marker 100/sec	2
19	Electrodes	2
20	X-blocks	2
21	Spirit lamps	2
22	Marey's tambour	2
23	Microscopes, oil immersion	60+8
24	Demonstration eye piece	4
25	Double demonstration eye piece	4
26	Stage incubator	1
27	Westergren's pipette for E.S.R. on stand (with space pipette)	30
28	Wintrobe's pipette for ESR and PCV with stand	30
29	Perimeter Pristely Smith S/LP.984 B & T	15
30	Hemoglobin-meter Sahli's or Hellige (with spaces)	60
31	Hemocytometer	60
32	Sphygmomanometer (digital) (Mercury based instruments to be replaced with suitable alternatives)	60
33	Stethoscopes	60
34	Stethoscopes, demonstration with multiple ear pieces	4
35	Polygraphs	20
36	Venous pressure apparatus	1
37	Spirometer, ordinary	20
38	Gas analysis apparatus, Halden's student type	1


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39	Van Slyke's apparatus manometric	1
40	Gas analyser automatic for CO ₂ , O ₂ , N ₂	1
41	Douglas bag, complete	2
42	Basal metabolism apparatus	1
43	Mosso's Ergograph	10
44	Clinical thermometer (Mercury based instruments to be replaced with suitable alternative)	60
45	Compass aesthesiometer	20
46	Thermo-aesthesiometer	20
47	Algometer	20
48	Apparatus for passive movement	1
49	Knee hammer	40
50	Stethograph	20
51	Bicycle Ergometer	1
52	Olfactometer	1
53	Ophthalmoscope	1
54	Schematic eye	2
55	Phakoscope	1
56	Perimeter with charts (Lister's)	5
57	Color perception lantern Edridge green	2
58	Maddox rod	1
59	Newtons color wheel	1
60	Tuning fork to test hearing 32-10000 cps(sets-100, 256, 512 hz)	20
61	Dynamometer	2
62	Otorhinolaryngoscope	1
63	Sterilizer electrical	1
64	Instrument trolley	1
65	Stop watch	20
66	Multi channel Physiograph, 3 channels, complete with accessories	3
67	Student physiograph, (single channel) with accessories	8
68	Centrifuge, high speed with technometer	1
69	Colorimeter, photoelectric	1
70	pH meter electric	1
71	Refrigerator	1
72	Oxygen cylinder with trolley	1
73	CO ₂ cylinder with trolley	1
74	Electronic stimulator	1
75	Water distillation steel with spare heating elements	1
76	All glass distillation apparatus double stage	1
77	Voltage stabilizer	1
78	Thermometers, balances, microslides and glassware	75
79	Digital Physiograph	2
80	Models and Charts	25 each
81	ECG Machine	3


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82	Laptop	1
83	Desktop Computer, with Printer	3
84	Photocopier and Scanner	1
85	Multimedia Projector with screen	2
	Note: The animal experiments included in the curriculum should be demonstrated through CAL, charts/photographs/models and videos.	

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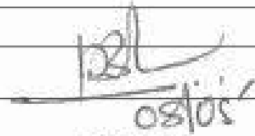


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DEPARTMENT OF BIOCHEMISTRY

S.No.	NAME OF THE ITEMS	No. Required
1	Analytical Balance : upto 200g/1gm increment	2
2	Urinometers calibrated (Mercury based instruments to be replaced with other alternatives)	20
3	Hot air oven (More than 200 litres)	2
4	Digital Colorimeters	5
5	Student Microscopes	5
6	Glucometer with strips (For POCT)	2
7	Thermometer 0 – 250 degree Celsius (Mercury based instruments to be replaced with suitable alternatives)	5
8	Semi autoanalyser	2
9	Boiling Water baths	2
10	Constant temperature water bath Tank Capacity: (Temperature range 5 to 80° Celsius)	1
11	Laboratory Reagent Refrigerators, capacity > 200 litres	3
12	Complete Chromatographic Unit for paper & TLC	2 each
13	Centrifuge clinical for ≥ 8 tubes	2
14	pH meters of wide range digital	5
15	Fixed volume pipettes -- 1ml,0.5ml,0.2ml,0.1ml and 0.02ml	5 (of each volume)
16	Complete Electrophoresis apparatus with power supply (Paper, PAGE, agarose)	1 each
17	Densitometer with computer	1
18	Bottle dispensers	20
19	All glass distillation apparatus	1
20	Vortex mixers	2
21	Incubator 37°C	2
22	Variable and fixed volume micro auto pipettes	25
23	Glass ware & accessories	75

24	Fume cupboard	1
25	Digital Analytical Balance	1
26	Balance Micro	1
27	Spectrophotometer	1
28	ELISA (Demonstration)	1
29	Laptop	1
30	Desktop Computer, with Printer	2
31	Photocopier and Scanner	1
32	Multimedia Projector with screen	2

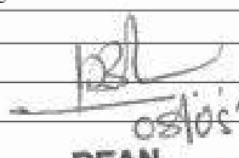

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DEPARTMENT OF PATHOLOGY

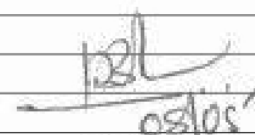
S.No.	NAME OF THE ITEMS	No. Required
(A)	General	
1	Desktop Computers with High Speed Internet, Laser Black & White Heavy duty Laser Printers, Color Inkjet Printers, Scanners, Photocopy (Xerox) Machines, Telephone with STD facility, Fax Machine etc. Every faculty & Resident must have separate Desktop/Laptop with high speed Internet facility. Office table small and big, office chairs; museum almirahs; study table, staff room, and library almirahs, stock almirahs, store room racks, lockers with coat hangers and drawers as required. Laboratory benches with cupboards and rack for reagent bottles, water, gas and electric points, operation tables etc. as necessary.	75
(B)	Morbid Histology and Morbid Anatomy	
2	Specimen Identification Solutions	1
3	Weighing machine for cadavers (300 Kg.)	1
4	Manual Rotary Microtome	2
5	Automated Rotary Microtome	1
6	Cryostat	1
7	Hot plate	2
8	Paraffin embedding bath	2
9	Heated Paraffin Embedding Module	2
10	Cold Plate for Modular Tissue Embedding System	1
11	Automated Tissue Processor –Histokinette	2
12	Autoclave	2
13	Ultrapure water solutions - Distilled water plant	1
14	Water bath	1
15	Centrifuge machine	5
16	Cabinet for slides	4
17	Autopsy tables	Common with Forensic Dept.
18	Digital SLR at least 20 megapixel with micro, macro, wide angle zoom lenses, Flash and other accessories	1
19	Digital Automatic camera > 5 megapixel	1
20	Fully Automated high throughput Multi-Stainer Workstation	1
21	Fully Automated Embedding System (Heated embedding module & cold plate)	1
22	Fully Automated Flexible Coverslipping Workstation	1
23	Standalone paraffin dispensing module cold plate holding more than 100 cassettes	1
24	Stand alone cold plate	1
25	Troughs for staining	5
26	Coplin jars	2
27	Water bath (Tissue Floatation)	2
28	Single Pan Digital Balance, Chemical	2
29	Balance, chemical with weights	2
	Microscopes	


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30	For Students – LED Binocular with Scanner, 10X, 40X, & Oil immersion lenses and inbuilt Battery backup power source	60
31	For Diagnostic & Research Work - Trinocular head Microscope with Bright field, Dark field, Fluorescent & Polarizing Facility, high end Apochromatic lenses with Camera with HDMI Multi output camera Minimum 5MP with Projector & Ultra HD TV > 52 inches & Screen including Software Capable of Brightfield & Immunofluorescence Photography with connectivity to projector & LED TV (At least 55 inches Ultra HD)	1
32	For every Professor, Associate & Assistant Professor : Binocular Microscopes with High end Semiapochromatic Optics of international standard.	5
33	For every Tutor – Binocular Microscope with suitable high end lenses.	5
34	Penta Head Microscope with High end Optics with HDMI Multi output Photographic camera (> 5 MP) including Software	1
35	Deca Head Microscope with High end Optics with HDMI Multi output Photographic camera (> 5 MP) including Software	1
36	Grossing Station - Stainless steel, with Control panel, air filtration system, Track mounted adjustable computer arm with articulation, LED lights that are color and intensity, Dedicated USB ports for camera control and data transfer adjustable, Integrated pathology camera system, Instrument Set (High quality) Height Adjustable Stainless Steel Chairs With Split AC of appropriate capacity.	1
37	Fully Automated Immuno-histo-chemistry Setup with Continuous supply of Important Antibodies, Lymphoma Panel etc.	1
38	Automatic High Speed Slide Scanner for converting Slides in Digital Format with software and Database Management with backup for Data Storage	1
(C)	Hematology Lab:	
39	Five part Fully Automated Cell Counter	1
40	Three Part Fully Automated Cell Counter	1
41	Coagulometer (Fully automated)	1
42	Magnifying lens	3
43	Blood pressure instrument	5
44	Laboratory Counter	2
45	Laboratory stirrer	5
46	Automatic timer	5
47	Balance for weighing organs	1
48	Saws, wire for cutting bones	2
49	Slide boxes for 100 slides for students	200
50	Drill for boring glass	2
51	X-ray viewing box (LED)	2
52	Sternal puncture needle adult size	10
53	Sternal puncture needle child size	10
54	Liver Biopsy needle	5
55	Stop watch reading at 1/5 second.	5
56	pH Meter electric	5
57	Electrophoresis Set Up	1
58	LED Wireless Projector	3
59	Museum jars.	75
60	Surgical instruments.	5 Sets


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61	Glassware, stains, chemicals reagents etc. for histological work.	100
(D)	Clinical Laboratory:	
62	Five Part Hematology Analyzer	1
63	Three Part Hematology Analyzer	2
64	Automatic Urine Analyzer	2
65	Binocular Microscopes with high end optics including 100X & LED Fluorescence for each Faculty/ resident working in lab plus 2 microscopes for technicians.	As Mentioned
66	Sp. Gravity Measure	2
67	PH meter	2
68	Incubator	2
69	Haemocytometers with red and white pipettes	90
70	Syringes disposable	2
71	Staining jars for slides.	10
72	Automatic Hematology Slide Stainers.	1
73	Urinometers(Mercury based instruments to be replaced with other alternatives)	5
74	Centrifuge tubes graduated.	5
75	Graduated cylinders for various capacities ranging from 100 cc to 1000 cc.	15
76	Pipettes of various sizes with disposal tips.	25
77	Reagent bottles	30
78	Dropping bottles	10
79	Reagents	45
80	Balances –Digital Single Pan Sensitive Chemical balance	1
(E)	Specimens:	
81	Mounted Specimens	300
82	Wet Specimens	150
Note: Equipment must be of International specification & standards, regular calibration, running of international standard controls, comprehensive maintenance are mandatory. Department must have High Speed Internet Facility > 2 MB/S. Adequate Desktop, Laptops, Printers, Scanners, Portable Hard Disks, DVD Writer etc. for office and for the Faculty & Residents.		

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DEPARTMENT OF MICROBIOLOGY

S.No.	NAME OF THE ITEMS	No. Required
(A)	General	
1	Anaerobic apparatus	2
2	Autoclave	3
3	Balance Electronic Digital	2
4	Biosafety Cabinet Type - 2A	3
5	BOD Incubator	1
6	Centrifuge	4
7	CO2 Incubator/Candle Jar	2
8	Computer Unit	3
9	Deep Freeze -20° C & Deep Freezer	1
10	Distilled water Plant	1
11	Elisa Reader	2
12	Elisa Washer	2
13	Hot Air Oven	2
14	Incubator	3
15	Lab Refrigerator (minimum 400 litres)	4
16	Laminar flow	1
17	Micrometer eye pieces	2
18	Micrometer stage	2
19	Microscope Binocular (Students)	90
20	Microscope Binocular	9
21	Microscope with universal condenser containing oil immersion, Bright field, Phase Contrast & Dark ground	1
22	Multimedia Projector	2
23	pH determination apparatus	2
24	Serum inspissators	1
25	VDRL shaker	2
26	Vortex Mixer	2
27	Water bath with variable temperature	2
28	Oil-immersion lens for student microscope	50
29	Automated Blood Culture System	1
30	Colony Counter	1
(B)	Consumables for Culture and Serological Diagnosis	
31	Antibiotic Discs for Antibiotic susceptibility testing	80
32	Antibiotic zone scale	2
33	Antisera-Salmonella	1
34	Antisera-Shigelladysenteriae	1
35	Antisera-Shigella flexneri	1
36	Antisera-Shigella sonnei	1
37	Antisera-Vibrio cholerae	1


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38	ATCC strain - Enterococcus faecalis 29213	1
39	ATCC strain - E.coli 25922	1
40	ATCC strain - E.coli 35218	1
41	ATCC strain - Pseudomonas aeruginosa 27853	1
42	ATCC strain - Staphylococcus aureus 25923	1
43	ATCC strain - Staphylococcus aureus 29213	1
44	Bottles for blood culture	1
45	Micropipettes – Multi channel & Single channel	1
46	Materials for preparation of various Culture Media	1
47	Materials required for various Microbiological Stains	1
48	Digital Thermometers of different temperatures	1
49	Various Kits for Serological diagnostics	50
50	Laptop	1
51	Desktop Computer, with Printer	2
52	Photocopier and Scanner	1
	Note: All equipment must be calibrated and maintained	

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DEPARTMENT OF PHARMACOLOGY

S.No.	NAME OF THE ITEMS	No. Required
(A)	I. Clinical Pharmacy	
1	Special Drug Delivery systems like Metered Dose Inhalers, Spacers, Rotahalers, Nasal sprays, Transdermal patches, Insulin infusion pumps, Insulin pen etc.	15 sets
2	Samples of dosage formulations of various types including rational and irrational FDC, Essential medicines	15 sets
3	Manikins for demonstration of intravenous injection, enema, local, intramuscular injections, intracardiac injection and other routes of drug administration	15 sets
(B)	II. Computer Assisted Learning Laboratory	
4	Minimum 1 computer per 10 students (Maybe shared with a similar facility in the institution) Must have computers with standard configuration and connected to the internet, (Preferably broadband) along with an AV aids (Multimedia Projector and Screen). The PC should be installed with CAL programmes and other software for teaching experimental pharmacology. The students must have access to the National Essential Drug Lists, Standard Treatment Guidelines, Banned Drugs List of the CDSCO, PVPI, WHO, Price Controlled Drugs List, Antibiotic Guidelines, Hospital formulary, adverse drug reactions, and other resource material which the student can use for learning the principles of rational prescribing.	Minimum 15 computers
(C)	III. Experimental Pharmacology	
5	For UG course, the facilities and equipment in the experimental lab can be shared with the Physiology department. The experiments included in the curriculum should be demonstrated through charts/photographs/models and videos.	
(D)	IV. Clinical Pharmacology	
6	Stop watch	50
7	Digital Sphygmomanometer	15
8	Critical Flicker Fusion Apparatus	10
9	Pupillometer	1
10	Chart, Models and videos to illustrate the pharmacodynamic and pharmacokinetic properties of drugs, adverse drug reactions, drug administration techniques	28
(E)	V. General:	
11	Laptop	1
12	Desktop Computer, with Printer	2
13	Photocopier and Scanner	1
14	Multimedia Projector with Screen	2

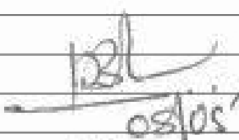

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DEPARTMENT OF FORENSIC MEDICINE

S.No.	NAME OF THE ITEMS	No. Required
(A)	Teaching	
1	Multimedia Projector , CPU & Projection Screen	2
2	Television, DVD Player	1
3	Digital SLR Camera With Accessories	1
4	Microscope Student Type	20
5	X-Ray View Box Two In One	6
6	Stop Watch	4
7	Anthropometric Set including	2
	A) Folding Metal Rod Upto 7 Ft	
	B) Osteometric Board	
	C) Craniometer	
	D) Mandibulometer	
	E) Goniometer	
	F) Vernier Calipers	
	G) Equipment for Reporting Height	
	H) Weighing Machine Dial Type Human	
8	Digital pH Meter	1
9	Digital Spectrophotometer	1
10	Chemical Balance	1
11	Distillation Plant	1
12	Refrigerator	2
13	Centrifuge	1
14	Slide Warming Table	2
15	Hot Plate	2
16	Glass Cutting Pencil	2
17	Spectroscopic Lens With Adjustable Slit	2
18	Dissection Set Complete	2
19	Digital BP Instrument	2
20	Stethoscope	2
21	Charts and Models	30
(B)	Research	
22	Binocular Research Type With Attachment For Camera	1
23	Deep Freezer For Keeping Tissue	1
24	Automatic Tissue Processing Machine	1
	Following can be shared with Central Research Lab:	
25	Microtome With Knife	1
26	Paraffin Bath Embedding	1
27	Water Bath For Tissue Floatation	1
28	L Modes	1
29	Block Holder	1


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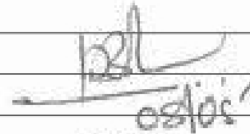
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30	Abrasive Powder	1
31	Thin Layer Chromatograph	1
32	Gas Chromatograph	1
33	Ultra Violet Spectroscope	1
34	Infra Red Spectroscope	1
35	Mass Spectrometer	1
(C)	Medico legal work	

36	Cold Storage For Dead Bodies	8
37	Weighing Machine For Dead Bodies	1
38	Autopsy Tables	4
39	Stryker Type Autopsy Saw With Accessories	4
40	Weighing Machine For Organs	3
41	Weighing Machine For Fetus	2
42	Dissection Set Complete	4
43	Brain Knife	6
44	Hack Saw	3
45	Rib Shear Left & Right	2
46	Measuring Tape(Steel Tape Roll)	4
47	Magnifying Lens	4
48	X- Ray View Box (4 In 1)	3
49	Tooth Extractor Left & Right	2
50	Hand Set Heat Sealer	1
51	Instrument Trolley	3
52	Stretchers for shifting dead bodies	3
53	Rectal Thermometer	4
54	Portable X-ray Machine (can be shared with Radiology Department)	1
	Additional Equipment For Medico Legal Work For Each 500 Medico legal Post Mortems Beyond 500 Post Mortems Annually	
55	Cold Storage For Dead Bodies	2
56	Autopsy Tables	2
57	Stryker Type Autopsy Saw With Accessories	1
58	Weighing Machine For Organs	1
59	Weighing Machine For Fetus	1
60	Dissection Set Complete	1
61	Brain Knife	2
62	Hack Saw	2
63	Rib Shear Left & Right	1
64	Measuring Tape(Steel Roll)	2
65	Magnifying Lens	2
66	X- Ray View Box	1


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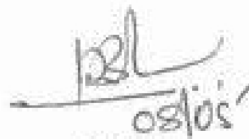
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(D)	Consumable for medico legal work	
68	Disposable Cap-Mask-Gown, Gloves Etc.	15
69	Cotton Rolls, Suture Materials Etc.	15
70	Formalin, Rectified Spirit, Lugol's Iodine	20
71	Swabs, Preservative Bulbs etc.	50
72	Viscera Bottles etc.	10
73	Syringe (5, 10, 50 ml)	50
74	Preservative Salts	1
75	Packing and Sealing materials	1
(E)	For Sexual Assault Examination [*]	

76	Victim examination table (Gynecological Examination table with leg stirrups)	1
77	Screen	1
78	OT light Shadowless adjustable	1
79	Hymenoscope	2
80	Colposcope	2
81	Sims Speculum	4
82	Cusco's Speculum	2
83	Sponge holding forceps	4
84	Toothed forceps	4
85	Ovum forceps	2
86	Proctoscope	4
87	Torch	1
	[*] Mandatory for the colleges where sexual assault examination done in FMT Department but not applicable to colleges where sexual assault examination is not done in FMT	
88	Desktop Computer	3
89	Laptop	1
90	Printer with Scanner	2
91	Photocopier machine	1


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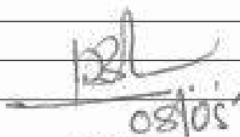
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DEPARTMENT OF COMMUNITY MEDICINE

S.No.	NAME OF THE ITEMS	No. Required
1	Barometer (Mercury based instruments to be replaced with other alternatives)	1
2	Filter, Pasteur Chamberland, complete set	1
3	Filter, Berke fed	1
4	Hydrometres, Spirit	3
5	Hydrometres, milk	3
6	Hydrometers, wet and dry bulb	3
7	Incubator, electric (can be procured from Microbiology)	1
8	Museum jars	30
9	Models, charts, diagrams, specimen	Models 80, Charts 50
10	Balance Analytical 200 gm.	2
11	Balance for weighing food stuff(Capacity 2 Kg).	3
12	Centrifuge clinical	1
13	Weighing machine adult	8
14	Baby weighing machine	3
15	Salter's Baby weighing machine	4
16	Harpender Calipers (for skinfold thickness)	4
17	Height measuring stand	4
18	Refrigerator 9 cu.ft.	3
19	Ice Lined Refrigerator (I.L.R.) (at Health Centre)	1
20	Dissecting microscope	40
21	Microscope oil immersion	3
22	T.V. and DVD player	4
23	Autoclave (Can be shared with Pathology/Microbiology department)	1
24	Computer with printer, scanner and photocopier and Internet facility	5
25	Vehicles for transport of students/interns/faculty/ paramedical staff to the RHTC and UHTC	2
26	Multimedia Projector with Screen	2
27	Public Address system (2 portable for field based activities and one each for RHTC & UHTC)	4
28	Chloroscope	10
29	Horrock's Apparatus	3
30	MUAC tapes	10
31	Haemoglobinometer	5
32	BP Apparatus (Digital)	10
33	Stethoscope	10
34	Kata Thermometer	3
35	Globe Thermometer	3


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36	Anemometer	4
37	Sound level meter	4
38	Soil testing kit	1
39	Water sampling bottle from any depth	1
40	Needle Shredder	3
41	Vaccine carrier	5
42	Craft water testing kit	1
43	Protective devices for occupational safety	3 sets
44	Ear muffs	1
45	Ear plugs	1
46	Safety helmet	10
47	Goggles	25
48	Safety boots	25
49	Swine flu kit	2
50	Gloves	25
51	Triple layer surgical mask	25
52	High efficiency mask	25
53	Long sleeved cuffed gown	25
54	Protective eye wear	25
55	Cap	25
56	Disposable delivery kit	10
57	Treatment kits as per national health programs	3
58	Iodine testing kit	10
59	Glucometer	10
60	Slide set for entomology	5
61	Mosquito catching kit	4
62	Clinical Thermometer	10

63	Sling psychrometer	3
64	Solar radiation thermometer	3
65	Treatment kits as per National Health Programs	4
66	Iodine testing kit	10
67	Glucometer	10
68	Slide set for entomology	5
69	First Aid Kit	1
70	Spirometer	3
71	Audiometry	1
72	Otoscope	1
73	Ophthalmoscope	1
74	Laptop	1
75	Portable X-ray (Maybe shared with other departments)	1
76	ECG(Maybe shared with other departments)	

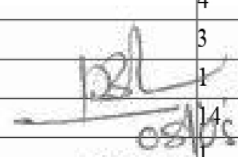

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DEPARTMENT OF MEDICINE

S.No.	NAME OF THE ITEMS	No. Required
1	B.P. Apparatus (Mercury containing instruments should be replaced by digital or other suitable alternative)	40
2	Ophthalmoscope	10
3	Lumbar puncture needles (disposable)	1
4	Pleural biopsy needles (disposable)	1
5	Liver biopsy needles (disposable)	1
6	Kidney biopsy needles (disposable)	1
7	Bone marrow biopsy needles (disposable)	1
8	Bone marrow aspiration needles (disposable)	1
9	X-ray viewing box	18
10	Flexible Video End viewing Oesophago-Gastroduodenoscope (optional)	1
11	Flexible Video Colonoscope (optional)	1
12	Flexible Video Side viewing Gastroduodenoscope for ERCP (optional)	0
13	Proctoscope	8
14	Fiber optic bronchoscope (May be shared with TB&CD)	1
15	Spirometer	4
16	Bed side cardiac monitors	20
17	Central Cardiac monitor Console	1
18	Defibrillator	3
19	Non-invasive B.P. Apparatus	20
20	Pulse oximeter	24
21	Equipment for Cardiac pacing	1
22	Ambu bag	14
23	Laryngoscope	12
24	ECG machine	10
25	Echocardiography machine	1
26	Tread mill test machine	1
27	Hemodialysis machine	4
28	Peritoneal dialysis catheters	3
29	Arterial blood gas analyzer	1
30	Glucometer	14
31	EMG and nerve conduction velocity machine	1
32	Fine needle aspiration needle	1
33	Aspiration needle	1
34	Endotracheal tubes	1
35	Invasive Mechanical Ventilator	8
36	Non Invasive mechanical ventilator (Maybe shared with TB and CD)	5
37	Nebulizer	14


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38	Portable Suction Machine	2
39	Infusion pumps	1
40	Weighing scale	4
41	Multimedia Projector with Screen	2
42	Patient Examination table	6
43	Rubber Hammer	12
44	Computer	5
45	Torch	16
46	Emergency Lights	6
47	Upper GI endoscope (Optional)	3
48	Sigmoidoscope (optional)	3
49	Colonoscope (optional)	3
*50	*Haemocytometer	5
*51	*Light Microscope	3
*52	*Haemoglobinometer	5
*53	*Urinometer	3
	* Required where ward side laboratories are available	


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DEPARTMENT OF PAEDIATRICS

S.No.	NAME OF THE ITEMS	No. Required
(A)	Resuscitation equipment:	
1	Ambu bag and Face mask - Neonate & infant	6
2	Ambu bag & Face mask – Children	4
3	Nasal prongs	5
4	Nasal catheters	5
5	Endotracheal tubes	6
6	Suction apparatus	6
7	Suction catheters	3
8	Laryngoscope - Infant	4
9	Laryngoscope - Children	4
(B)	Oxygen Delivery System-	
10	Oxygen Cylinder	6
11	Oxygen regulator	6
12	Oxygen Humidifiers	6
13	Oxygen head-box (of each size)	5
14	Nebulizers	6
(C)	Drug Delivery Equipment/ Catheter/tube-	
15	Blood Transfusion Set	1
16	Intra-venous (I.V.) Drip set	75
17	Measure volume Set	75
18	Intra-venous (I.V.) Cannula (Butterfly type)	1
19	Intracath (different sizes)	75
20	Umbilical vein Catheter	75
21	Infant Feeding tubes	25
22	Three way and four way valve	25
(D)	Measurement Equipment	
	Digital Weighing machine	
23	- Infant	2
24	- Child	2
25	- Neonates	2
26	Infantometer	3
27	Stadiometer	4
28	Measuring tape	5
29	Shakir's tape	6
30	Digital Thermometer-Oral *(Mercury based instruments to be replaced with other alternatives)	10
31	BP measuring Instrument with various cuff sizes - Digital (Only Non mercury alternatives to be used)	6
(E)	Work Lab and Investigations:	
32	Bone marrow needle	4

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33	Lumbar Puncture (L.P.) Needles	4
34	Pleural aspiration needle	4
35	Vim-Silverman liver biopsy needle	4
36	True Cut Renal biopsy needle	4
37	X-ray view box	8
(F)	Miscellaneous	
38	Glucometer	3
39	Pulse Oximeter	6
40	CPAP machine*	3
41	Mechanical Ventilator (neonatal and child)	4
42	Radiant Warmer	8
43	Phototherapy unit	6
44	Ophthalmoscope	3
45	Pleural Fluid Collection Bag	25
46	Urine Collection Bag	25
47	LED phototherapy unit	3
48	Multimedia Projector with Screen	1
49	Laptop	1
	Note: CPAP machine, Mechanical Ventilator, Radiant Warmer, Phototherapy unit, Pulse oximeters, Multipara monitors, are required in proportion to Neonatal and Pediatric ICU bed capacity. Phototherapy unit should preferably be double surface. NICU should preferably have Transcutaneous Bilirubinometer.	
	Oxygen supply should be from central pipeline through manifold gas supply system, liquid oxygen supply, suction should be through wall mount supply system. Essential equipment should be according to age of the children i.e. neonate/infant/toddler/children.	


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DEPARTMENT OF TUBERCULOSIS & CHEST DISEASES

S.No.	NAME OF THE ITEMS	No. Required
1	Peak flow meters	6
2	Nebulizers	8
3	Intercostal Drainage Facility	6
4	Pleural Biopsy Needles	4
5	Pulse Oximeter	8
6	Fiber optic Bronchoscope	2
7	Rigid Bronchoscope	1
8	Pulmonary function Test machine with facility for spirometry, lung volume and diffusion capacity	1
9	BP Instrument (Mercury based instruments to be replaced with suitable alternatives)	8
10	Weighing Scale	2
11	Non Invasive Mechanical Ventilator	8
12	Height Scale	2
13	Multimedia Projector with Screen	1

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DEPARTMENT OF DERMATOLOGY, VENEROLOGY & LEPROSY

S.No.	NAME OF THE ITEMS	No. Required
1	Hyfrecator/ Electrosurgical instrument	1
2	Cryotherapy with liquid Nitrogen	1
3	Iontophoresis machine	1
	Facilities for examining smears for bacteria, fungi, mycobacteria and acantholytic cells	
4	(a) Light microscope	2
5	(b) Giemsa stain	1
6	(c) KOH smear	1
7	Wood's lamp	1
8	Multi media Projector with Screen	1

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DEPARTMENT OF PSYCHIATRY

S.No.	NAME OF THE ITEMS	No. Required
(A)	General	
1	Electro Convulsive Therapy (E.C.T.) machine preferably with ECG & EEG monitoring	1
2	EEG Machine (may be shared with medicine department)	1
3	ECT machine without monitor	2
4	EEG machine (may be shared with medicine/neurology department)	1
5	Lithium analyzer (may be shared with clinical pathology department)	1
6	Bio feed-back instruments (sets)	1
7	Thin layer chromatography (for drug dependence treatment) (may be shared with other departments or in Central Research lab)	1
8	Alcohol breath analyzer	1
(B)	Psychological Tests equipment	
9	a) Projective tests	3
10	b) Intelligence Tests	3
11	c) Personality Tests	3
12	d) Neuro psychological tests	3
13	Multi media Projector with Screen	1
	Note: ECT treatment room to be equipped with the basic anesthesia machine with ventilating circuit, monitors, ECG/ETCO ₂ and paO ₂ , noninvasive BP monitoring equipment for resuscitation, intubation, ventilation and suction.	

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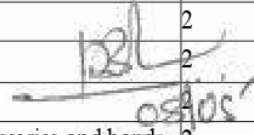
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DEPARTMENT OF SURGERY

S.No.	NAME OF THE ITEMS	No. Required
(A)	OPD	
1	Digital/Electronic BP Apparatus, Weighing Machine, Stethoscope, Height scale	6
2	X ray viewing box 4 in 1	6
3	Proctoscope	10
(B)	Minor O.T.	2
4	Operation Theatre Table	2
5	Operation Theatre Ceiling light	2
6	Pedestal lights	4
7	Electro-surgical cautery unit	4
8	Suction	4
9	Pulse oximeter	2
10	Anesthesia Equipment	1
11	Resuscitation kit	1
12	Assorted surgical instrument for minor operation sets	12
13	Autoclave	1
(C)	Wards	
14	Digital/Electronic BP Apparatus, Stethoscope	20
15	Weighing Machine, Height scale	10
16	Proctoscope	10
17	Non invasive Multi Para Monitors	5
18	ECG machines	5
(D)	Operation Theatre	
19	CC Camera for Student demonstration for OT	9
20	Operation Theatre Table	9
21	Operation Theatre Ceiling light	9
22	Pedestal lights	9
23	Electro-surgical cautery unit	15
24	Suction machine	9
25	Pulse oximeter	9
26	Anesthesia Equipment(as per requirement of Dept)	9
27	General Sets including open Urological surgery (4 for each Operation Theatre)	36
28	Pediatric surgical instrument set	2
29	Burr hole set with electric craniotome	2
30	Vascular set	2
31	Diagnostic and Operative laparoscope including one High Definition with all accessories and hand instruments.	2
32	Cystoscope&Resectoscope	1
33	Flexible Video Colonoscope	1
34	Flexible Video Side viewing Gastroduodenoscope for ERCP	1


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35	Flexible Video End viewing Oesophago-Gastroduodenoscope	1
36	Flexible Video Sigmoidoscope	1
37	Flexible Video Bronchoscope	1
38	C-arm image intensifier	1
39	Operative ultrasound	1
40	Harmonic Scalpel	2
41	Assorted Open & Laparoscopic Stapling devices	2
42	Multimedia Projector with Screen	2
	Note: All the surgical wards should have wall mounted suction lines along with piped wall mounted central O ₂ lines on all beds. They should have resuscitation equipment like laryngoscope, all size endotracheal tubes, nasal and oral airways, Magill's forceps, LMA / PLMA of all sizes, Electrical suction apparatus, AED -1.	



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DEPARTMENT OF ORTHOPAEDICS

S.No.	NAME OF THE ITEMS	No. Required
1	General instrumentation set for fracture reduction	8
2	Set for Hip Replacement	1
3	Set for knee replacement	1
4	Interlock nailing sets	1
5	Specific fixation sets (Proximal Humerus, Distal humerus, Intertrochanter, proximal and distal tibia, pelvic fixation, pedicle screw, lateral mass screw and ACDF for cervical spine)	1
6	Small Fragment and large fragment	4
7	External Fixator	8
8	Fracture reduction OT tables	1
9	Simple OT tables	2
10	Cautery machines	1
11	Pneumatic drill and reamer	1
12	Electrical drill and reamer set	1
13	Laminar airflow system in OT (for OT - where joint replacement surgeries are carried out)	5
14	C-Arm (Image Intensifier)	1
15	Portable X-ray Machine	1
16	Arthroscope	1
17	Multimedia Projector	1
18	Plaster room equipment (sets) with plastic table.	2
19	Physiotherapy and occupational Therapy equipment sets	15
20	Movie Camera for demonstration of live operations	1
	Note: All the orthopaedic wards should have wall mounted suction lines along with piped wall mounted central O ₂ lines on all beds. They should have resuscitation equipment like laryngoscope, all size endotracheal tubes, nasal and oral airways, Magill's forceps, LMA / PLMA of all sizes, Electrical suction apparatus, AED -1.	
	The OPD should have –	
21	Plaster tables	2
22	Electric plaster cutter	4
23	Reflex hammer	10
24	Measure tape	20
25	Goniometer	10


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DEPARTMENT OF OPHTHALMOLOGY

S.No.	NAME OF THE ITEMS	No. Required
(A)	O.P.D.	
1	Snellen Chart/Snellen drum with or without remote control	4
2	Trial set with trial frame both for adult and children	4
3	Automated Perimeter	1
4	Color vision chart –Original Ishihara	3
5	Near vision chart with different languages	4
6	Torch	5
7	Ophthalmoscope (Direct)	4
8	Streak Retinoscope	4
9	Indirect Ophthalmoscope	3
10	Slit lamp	3
11	Applanation tonometer	3
12	Keratometer	1
13	Synoptophore	1
14	Maddox Rod	1
15	Maddox Wing	1
16	Diplopia goggles	1
17	Gonioscope	2
18	Placido disc	1
19	Prism Bar	1
20	Schiotz's tonometer	4
(B)	Major Operation Theatre	
21	Operating microscope with TV Unit with camera	2
22	Cryo Unit	1
23	Cataract set	6
24	Glaucoma set	3
25	DCT/ DCRR set	2
26	Entropion set	3
27	Enucleation set	5
28	Evisceration set	2
29	Squint set	3
(C)	General Ophthalmic Equipment	
30	Operation Theatre Table	2
31	Operation Theatre Light	2
(C)	Minor Operation Theatre: Minor O.T. should have the equipment for the removal of the foreign body, sutures, and chalazion or sty. <i>12/10/18</i>	
(D)	Wards:	
32	Slit lamp	2
33	Snellen chart/Snellen drum with or without remote control	1
34	Trial set with trial frame both for adult and children	1

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35	Near vision chart with different languages	1
36	Torch	5
37	Ophthalmoscope	1
38	Indirect Ophthalmoscope	1
39	Multi media Projector with Screen	1
	Note:	
	Wards should have wall mounted suction lines along with piped wall mounted central O ₂ lines on atleast 5 beds.	
	Wards should have resuscitation equipment like laryngoscope, all size endotracheal tubes, nasal and oral airways, Magill's forceps, LMA / PLMA of all sizes, Electrical suction apparatus, AED -1.	
	Operation theatres should have wall / dangle mounted suction lines along with piped wall / dangle mounted central gas (O ₂ , NO ₂ lines.	
	Operation theatres should have resuscitation equipment like Anesthesia machine and accessories like laryngoscope, all size endotracheal tubes, nasal and oral airways, Magill's forceps, Mechanical ventilator - separate or with anesthesia machine, LMA / PLMA of all sizes, Electrical suction apparatus	

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DEPARTMENT OF OTORHINOLARYNGOLOGY

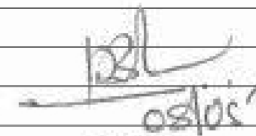
S.No.	NAME OF THE ITEMS	No. Required
(A)	OPD	
1	Sterilizer	1
2	Cidex instrument sterilization tray	2
3	Digital /Electronic BP Apparatus	1
4	Stethoscope	2
	X-ray view box in all OPD rooms 5 sets each consisting of :	
5	Thudicum/St.Clair Thomson Nasal Speculum different sizes	4
6	Lac's Tongue depressor different sizes	4
7	Laryngeal mirrors different sizes	4
8	Nasopharyngeal mirrors different sizes	4
9	Aural speculum different sizes	4
10	Ear Suction different sizes	2
11	Nasal Suction different sizes	2
12	Suction apparatus	1
13	Siegel's speculum	1
14	Tuning fork (512 Hz)	1
15	Tuning fork (256 Hz)	1
16	Tuning fork (1024 Hz)	1
17	Otoscope with halogen bulb, rechargeable battery and Siegle attachment	1
18	Bayonet forceps	2
19	Bulls lamp	1
20	Head Mirror	1
21	Head Light With LED/Halogen lamp	1
22	Jobson Horne probe	2
23	Instrument tray	1
24	Kidney tray	2
25	The OPDs should have Otoendoscope, Nasalendoscope, Laryngeal telescope with camera, monitor and light source for teaching purposes (1 Unit of the above may be placed either in Minor OT or Endoscopy room or in the OPD in the Consultant Chamber)	5
26	Optional- One treatment unit may be placed in the Consultant Chamber in the OPD which will facilitate and replace the instruments required in that room for examination purposes and help in teaching clinical skills.	1
(B)	Ward	
27	Four sets consisting of the instruments required in the OPD should be kept in the ward for teaching purposes and for examination time.	1
28	One mobile spotlight, One Tracheostomy set should be placed in the ward.	1
29	The ward side room/emergency treatment room should have a mobile spotlight.	1
(C)	Major Operation Theatre.	
	The OTs should be equipped with the requisite equipment for anaesthesia, capnography, suction machines and general operative sets.	
	(a) Tonsillectomy and adenoidectomy set - 2 sets, each consisting of	

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30	Biopod	1
31	Boyle-Davis mouth gag with difference size blades	1
32	Tonsil holding forceps	1
33	Tonsil dissector and pillar retractor	1
34	Waugh's tenaculum forceps: plain and tooth	2
35	Tonsil snare	1
36	Burkit artery forceps	1
37	Wilson's double curved artery forceps	1
38	Negus artery forceps	1
39	Tonsil scissors	1
40	Adenotome	1
41	Adenoid curette with and without cage	2
42	Yankaueroropharyngeal suction (disposable)	1
	(b) Set for nasal bone fracture	
43	Asch forceps	1
44	Walsham forceps	1
45	St.Vlair Thompson Nasal Speculum	1
46	Killian Long bladed Nasal speculum	1
	(c) Septoplasty set	
47	Nasal dressing forceps	1
48	Knife handle	1
49	Killian's nasal speculum	1
50	Freer elevator	1
51	Howarth elevator	1
52	Cottle elevator	1
53	Sickle knife	1
54	Ballenger's swivel knife	1
55	Luc tissue cutting forceps	1
56	Takahashi forceps	1
57	Fish tail (bayonet shape) gouge	2
58	Nasal mallet	1
	(d) FESS set	
59	Rigid nasal endoscope 0 degree, 4 mm and 2.7 mm size	1
60	Rigid nasal endoscope 30 degree, 4 mm and 2.7 mm size	1
61	Light source and light cable	1
62	Endoscopic Camera with suitable display with recording & archiving facility. (with High Definition Camera)	1
63	Sickle knife	1
64	Retrograde punch	1
65	Blakesley forceps – straight 1 and upturn	1
66	Nasal suction cannula different sizes	4
67	Double curved suction cannula different sizes	4
68	Sinus probe and curette	1


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69	Lacrimal probes for endoscopic DCR (optional)	1
70	General Fess Instruments	1
	(e) Direct laryngoscopy set	
71	Anterior commissure laryngoscope for adult and pediatric sizes	2
72	Laryngoscope for adult and pediatric sizes	2
73	Negus laryngoscope	2
74	Light source	1
75	Light cable	1
76	Biopsy forceps	2
77	Foreign body removal forceps	2
78	Laryngeal suction	2
	(g) Microlaryngoscopy set	
79	Kleinsasser's laryngoscope	2
80	Fibreoptic lighting system	2
81	Suspension system for Laryngoscope	2
82	Microlaryngeal cup forceps	2
83	Microlaryngeal Scissors	2
	(h) Tympanoplasty set	
84	Graft knife	1

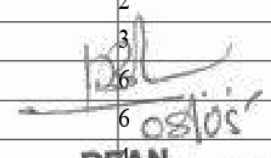
85	Graft scissors	1
86	Graft press	1
87	Aural speculum	4
88	Rosen first incision knife	1
89	Curette	2
90	Drum elevator	1
91	Blunt elevator	1
92	Sickle knife	1
93	Ball probe	1
94	Micro suction Cannula with thumb adaptor	4
95	Ear granulation forceps straight, up turn and side turn	3
96	Graft forceps	1
	(i) Mastoidectomy set	
97	Mallet	2
98	Gouge (different sizes)	4
99	Knife handle	1
100	Mosquito artery forceps	4
101	Cat's paw retractor	2
102	Endaural retractor/post aural retractor for right and left ear	2
103	Electric drill (motor, hand piece and burs)	2
104	Mastoid seeker	2
105	Aditus seeker	2
106	Malleus head nipper	2
107	Suction cannula with adapter for thumb control	4


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108	Ear granulation forceps straight, up turn and side turn	3
	(j) Stapedectomy set	
109	Pick-straight	2
110	70 Angled	2
111	Perforator	2
112	Measuring rod	2
113	Prosthesis crimper	2
	(k) Oesophagoscopy set	
114	Oesophagoscopes sizes for different age group	3
115	Light source and cable	1
116	Biopsy forceps	3
117	Foreign body removal forceps	3
118	Suction cannula	3
119	Oesophageal dilators	1
	(l) Bronchoscopy set	
120	Bronchoscopes different sizes for different age groups	3
121	Light source and cable	1
122	Biopsy forceps	3
123	Foreign body removal forceps	3
124	Peanut forceps	3
125	Suction cannula	3
	(m) Tracheostomy set	
126	Needle holder	1
127	Bard Parker knife handle	1
128	Ribbon right angled retractors	2
129	Curved arteries	4
130	Straight arteries	1
131	Cricoid hook	1
132	Tracheal dilator	1
	(n) Excision Biopsy Set	
133	Doyen mouth gag	1
134	Jenin's mouth gag	1
135	Knife handle	2
136	Adson's tissue holding forceps toothed	2
137	Adson's tissue holding forceps plain	2
138	Mayo scissors different sizes	3
139	Mosquito curved artery forceps	6
140	Curved artery forceps	6
141	Ellis tissue forceps	2
142	Babcock tissue forceps	2
143	Cat's paw retractors	2
144	Right angle retractors	2


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145	Skin hook single	2
146	Skin hooks double	2
147	Needle holder different sizes	3
148	Thread cutting scissors	1
	Minor Operation Theatre	
	(a) Direct laryngoscope set	
149	Laryngoscope – Anterior Commissure	1
150	Negus	1
151	Lighting system	1
152	Biopsy forceps	1
153	Foreign body removal forceps	1
	(b) Micro ear examination set	2
154	Aural speculum	4
155	Suction cannula	4
156	Aural cup forceps	2
	(c) Nasal packing set	2
157	St Clair Thompson nasal speculum different sizes	4
158	Nasal packing forceps	1
159	Nasal suction cannula	4
	(d) Nasal endoscopy trolley with 0 degree & 30 degree 4mm endoscope with light source, cable, monitor & camera	1
	(e) Others	

160	Higginson syringe	2
161	Sterilizer	5
162	Aural Syringe	4
163	Tracheostomy set	5
164	Intubation set	7
165	Bowls, kidney treys, towel clips, sponge holding forceps and Cheatle forceps	15
(E)	Miscellaneous Equipment	
166	Operating microscope for major Operation Theatre (with camera attachment & monitor for teaching and recording)	1
167	Electrocautery Unit	1
168	Spot Mobile Light	1
169	Basic OT table	1
170	Operating microscope for minor Operation Theatre	1
171	Puretone audiometer	5
172	Brainstem evoked response audiometer with ASSR	4
173	OAE Impedance audiometer (With sound treated air-conditioned room for audiometry)	2
174	Multimedia Projector with Screen	1
	Teaching models/simulators as a part of the college CAL lab to teach clinical skills and procedures the students must be available	
(F)	Additional Equipment	

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175	Flexible nasopharyngolaryngoscope	1
176	Electronystagmograph(Optional)	1
177	Brainstem evoked response audiometer	1
178	Goggles, plastic apron, gloves for examination of patients with biohazard (HIV & AU +ve)	25

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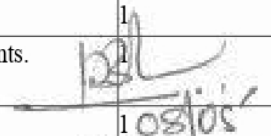
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DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

S.No.	NAME OF THE ITEMS	No. Required
(A)	General	
1	Speculums and retractors	100
2	EA + ECC sets	12
3	Cytology bottle	10
4	Microscope	2
5	MR Syringes	7
6	Colposcope	1
7	Cryo/electro cautery apparatus	1
8	Simple fetal Doppler	2
9	NST machine	2
10	Stitch removal sets	7
11	Dressing sets	7
12	Ultrasound machine	1
13	Weighing machine	3
14	Height scale	2
15	View box	1
16	Digital/ Electronic Blood Pressure apparatus, measuring tapes, gloves, syringes, needles, torch	6
17	Resuscitation tray (Laryngoscope, ET tube, Ambu bag, suction catheter)	2
18	Suction machine	2
19	Hysterosalpingogram Cannula	3
20	PCT forceps	5
21	Ayer's spatula	40
(B)	Main Operation Theatre	
22	Abdominal Hysterectomy set (Artery forceps, scissors, scalpel, Allis's kelly's clamp, Babcock forceps, thumb forceps, Harington & Richardson retractors.)	4
23	Vaginal Hysterectomy set	3
24	Scalpel, scissors, metal catheter, Sim's, Speculum volsellum, Kelly's clamps, right angle retractor, arteries, Allis, uterine sound, bladder sound.	3
25	Tuboplasty set	1
26	Myomectomy instruments (Myoma screw, Boney's clamp)	1
27	Diagnostic laparoscopy set	1
28	Operating laparoscopy set including one with HD with all accessories & hand instruments.	1
29	Laparocator for tubal ligation	1
30	Operative Hysteroscopy set	1
31	Electronic Carbondioxideinsufflator/ Insufflator basic unit	1
32	Resectoscope	1
33	Hysteromat	1
34	Operative microscope	1
35	Electrocautery	3

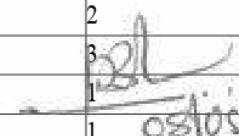

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(C)	Labour Room	
36	Delivery sets	20
37	Digital/ Electronic B.P. Apparatus	4
38	Weighing machine	1
39	Fetal Doppler	1
40	Cardiotocogram machine	2
41	Portable ultrasound	1
42	High suction machine	2
43	Resuscitation tray	2
(D)	Special Equipment	
44	Oxytocin infusion pumps	2
45	Multichannel monitors	4
(E)	Teaching Set	
46	Doll and Dummy	1
47	Female Pelvis	1
48	Gross specimens	10
49	X-ray/US films	5
50	View box	1
51	Multimedia Projector with Screen	1
52	Set of instruments for teaching purpose	1

(F)	Minor Operation Theatre	
53	Cervical biopsy set	2
54	MTP set	3
55	D&C set	3
56	IUCD insertion/removal set	5
57	High suction machine	2
58	Resuscitation tray	1
59	E.B. set	3
60	Operation Theatre table, Operation Theatre lights, Central O2 and suction	2
(G)	Maternity Operation Theatre	
61	Set for LSCS	12
62	D&C set	3
63	MTP set	3
64	High suction machine	2
65	Cervical exploration set	2
66	Uterine packing forceps	3
67	Abdominal hysterectomy set	1
68	Diagnostic laparoscopy set	1
69	Postpartum ligation	1
70	Outlet forceps	1
71	Low mid cavity forceps/Keilland forceps	1
72	Vacuum Extractor and suction machine	1


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73	Resuscitation tray	1
74	Infusion Pump	1
75	EB set	2
76	Laparocator for tubal ligation	1
77	Operation Theatre table, Operation Theatre lights, Central O2 and suction	2
(H)	Wards	
78	Blood Pressure Apparatus (Digital/Electronic)	4
79	Weighing machine	1
80	Height scale	1
81	Speculum and retractors	30
82	Glucometer	1
83	Microscope	1
84	Suture removal sets	8
85	Dressing sets	5
86	Ultrasound	1
87	Cutdown sets	1
88	CTG machine	1
89	Suction machine	2
90	Resuscitation tray	2
91	X ray View box	1
92	Central O2 and suction	3
(I)	Special Equipment	
93	Ultrasound machine with Doppler/Vaginal probe/facilities for Interventional procedure	1
94	Oxytocin infusion pumps	2
95	Multichannel Monitor with ECG, BP, HR, Pulse oximeter for high risk pregnant patients (eclampsia, heart diseases etc.)	3
96	Fetal Monitor for Antepartum Surveillance	3
97	Multimedia Projector with Screen	2

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DEPARTMENT OF ANAESTHESIOLOGY

S.No.	NAME OF THE ITEMS	No. Required
(A)	OPD Anesthesia Clinic	
1	Patient examination table	3
2	Blood Pressure Instrument (Non-invasive)	3
3	Height Measurement Scale	3
4	Weighing machine	3
(B)	Operation Theatre	
5	Anesthesia machine and accessories like laryngoscope, all size endotracheal tubes, nasal and oral airways, Magill's forceps,	1
6	Multipara monitor- with P, NIBP, ECG facility, SpO2	1
7	Electrical Suction apparatus	1
8	LMA / PLMA of all sizes	1
9	Spinal epidural set	1
10	EtCO2 monitor	5
11	Defibrillator	5
12	Mechanical ventilator Separate or with anesthesia machine	4
13	Fibre optic bronchoscope	1
14	USG machine (Desirable)	1
15	PNS (Desirable)	1
16	Resuscitation equipment (CPR)- Ambu bag with face mask	2
17	a) Adult Manikin	3
18	b) Pediatric Manikin	3
19	Multimedia Projector with screen	2
20	Computer with Printer & Scanner	2
21	Photocopier	1
22	High definition TV	1
(C)	Postoperative Recovery Room	
23	Oxygen therapy unit	8
24	Blood Pressure Monitor (digital/Electronic)	8
25	Pulse oximeter	8
26	E.C.G. Monitor	8
27	Suction Machine	8
28	Provision for resuscitation equipment and CPR Algorithms	1
29	Airway crash cart	1
30	ABG machine (Optional)	1
31	Side lab for emergency investigations (Optional)	1

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32	TOF monitor (PNS) (Optional)	1
(D)	Pain Clinic	
33	Radio frequency ablation machine	2
34	Fluoroscopy machine (e-ARM)(may be shared with other department)	2
35	Ultrasound machine	1
36	Patients controlled analgesia system (portable)	1
37	Styleted Epidural catheter	10
38	Rac's catheters	6
39	Intrathecal infusion pumps	4
40	Pain assessment chart	4
41	OT Table fluoroscopy compatible	2
42	Nerve locator	1
43	Computer	2
44	Anodyne Machine (Optional) (For diabetic foot care)	2
45	Transcutaneous Electric Nerve Stimulating Machine (optional)	1
46	Anesthetic machine with resuscitation equipment	2
47	Crash cart	2
48	Monitors for vital signs (NIBP, P.R, ECG, SPO2, Temperature, R.R)	2
49	Nerve stimulator	2
50	18 G epidural needle	4
51	Multimedia Projector with screen	1

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DEPARTMENT OF RADIO-DIAGNOSIS

S.No.	NAME OF THE ITEMS	No. Required
(A)	General	
1	Conventional X-ray Unit for routine X ray 300 mA, 500mA, 800mA (with IITV) - 1 each	5
2	CR system	2
3.	DR System	-
(B)	Mobile X-ray units	
3	a) 60 mA	3
4	b) 100mA	3
5	Ultrasonography equipment and color Doppler (Additional unit independently for OBGY).	4
6	CT (16 slice).	1
7	Mammography (Preferably).	1
8	MRI (Preferably).	1
9	Multimedia Projector with Screen	1
	Note: The department should have resuscitation equipment like laryngoscope, all size endotracheal tubes, nasal and oral airways, Magill's forceps, LMA / PLMA of all sizes, Electrical suction apparatus	

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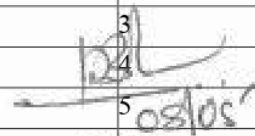
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DEPARTMENT OF CENTRAL CASUALTY DEPT.


S.No.	NAME OF THE ITEMS	No. Required
	There shall be a Central Casualty department wherein consultancy services shall be provided by the faculty of relevant Departments. And relevant investigation facilities to be run in liaison with central laboratory.	
1	Casualty resuscitation room should have central piped Oxygen supply & suction on every bed.	5
2	Ventilators, Multipara monitors, ECG machines, Nebulizers.	3
3	Fully equipped disaster trolleys (emergency trolleys).	3
4	Emergency X-ray (Fixed 300/500mA & Mobile 100mA)	1
5	Sonography machine/s in the casualty	1
6	Plaster room	1
	Operation theatre shall be provided. These shall be equipped for emergency operative treatment and include the following:	
7	Operation Theatre Table	1
8	Operation Theatre Ceiling light	1
9	Pedestal lights	2
10	Electro-surgical cautery unit	2
11	Suction	2
12	Pulse oximeter	2
13	Anesthesia Equipment	1
14	Resuscitation kit	1
15	Assorted surgical instrument sets	5
16	Autoclave	1
17	OT should have resuscitation equipment like Anesthesia machine and accessories like laryngoscope, all size endotracheal tubes, nasal and oral airways, Magill's forceps, Mechanical ventilator Separate or with anesthesia machine, LMA / PLMA of all sizes, Electrical suction apparatus	
	Required equipment on Each Emergency Trolley	
(A)	Airway:	
18	Pocket mask with oxygen port	4
19	Digital Blood Pressure apparatus	10
20	Ambu bag and tubing (ideally, the resuscitation bag should be single use – if not, it should be equipped with a suitable filter)	5
21	Clear face masks, sizes 3, 4 and 5	15
22	Oropharyngeal airways, sizes 2, 3 and 4	20
23	Nasopharyngeal airways, sizes 6 and 7	20
24	Portable suction equipment	2
25	Yankauer suckers	3
26	Tracheal suction catheters, sizes 12 and 14	4
27	Laryngeal mask airways (sizes 4 and 5), or ProSeal LMAs (sizes 4 and 5)	5
28	Magill forceps	8


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29	Tracheal tubes – oral, cuffed, sizes 6, 7 and 8	8
30	Gum elastic bougie or equivalent device	5
31	Lubricating jelly	5
32	Laryngoscope handles (x 2) and blades (standard and long blades)	4
33	Spare batteries for laryngoscope and spare bulbs (if applicable)	12
34	Fixation for tracheal tube (such as ribbon gauze or tape)	13
35	Scissors	25
36	Selection of syringes	1
37	Oxygen mask with reservoir (non-rebreathing) bag	10
38	Oxygen cylinders	25
39	Oxygen cylinder key.	10
(B)	Circulation:	
40	Defibrillator	3
41	ECG electrodes	2
42	Defibrillation gel pads or self-adhesive defibrillator pads	5
43	Selection of intravenous cannulae	25
44	Selection of syringes and needles	25
45	Cannula fixing dressings and tapes	25
46	Seldinger central venous catheter kit	20
47	Intravenous volumetric infusion sets	20
48	0.9% sodium chloride - 1000 mL x 2	10
49	Arterial blood gas syringes	25
50	Tourniquet.	10
(C)	Drugs:	
51	Immediately available pre-filled syringes:	10 unit
52	Adrenaline (epinephrine) 1 mg (1:10,000) x 4	5 unit
53	Atropine 3 mg x 1.	10 unit
54	Hydrocortisone 100mg x 1	10 unit
(D)	Other readily available drugs: Intravenous medications:	
55	Adenosine 6 mg x 10	30 unit
56	Adrenaline 1 mg (1:10 000) x 4	30 unit
57	Adrenaline 1 mg (1:1 000) x 2	30 unit
58	Amiodarone 300 mg x 1	30 unit
59	Calcium chloride 10 mL of 100mg per mL x 1	30 unit
60	Chlorphenamine 10 mg x 2	30 unit
61	Furosemide 50 mg x 2	30 unit
62	Glucose 10% 500 mL x 1	30 unit
63	Lidocaine 100 mg x 1	30 unit
64	Magnesium sulphate 50% solution 2 g (4 mL) x 1	30 unit
65	Midazolam 10 mg x 1	30 unit


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66	Normal saline 10 ml ampoules	30 unit
67	Potassium chloride for injection	30 unit
68	Sodium bicarbonate 8.4% - 50 mL x 1.	30 unit
69	Other life saving drugs as required.	30 unit
(E)	Additional items: Gloves, goggles and aprons, sharps container, clinical waste bags, large scissors, alcohol wipes, blood sample specimen bottles.	250

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DEPARTMENT OF MEDICAL EDUCATION UNIT

S.No.	NAME OF THE ITEM	No. Required
1	Multimedia Projector	1
2	Projection Screen	1
3	Computer with printer and scanner	2
4	Video Camera	1
5	Television	1
6	Blackboard	2
7	Photocopier	1
8	Flip Charts with accessories	2
9	Soft Board	2
10	White Board with accessories	2
11	Laptop	1
12	Dedicated Internet facility	
13	Public Address system with wireless collar and hand microphones	1
14	Cupboards and display cabinets for books	
15	Books and Journals	

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19	Calligraphy and lettering nibs	1
20	Clip holders.	6
21	Computer, printer, photocopier and scanner	1
(B)	MODELLING SECTIONS AND PHOTOGRAPHY	
22	Modeling Instrument box.	1
23	Saw for wood work.	1
24	Bandsaw	1
25	Plier	1
26	Plier Goldsmith.	1
27	Scissors ordinary	1
28	Scissors Goldsmith	1
29	Hammer	1
30	Mortar Iron.	1
31	Bucket Iron.	1
32	Chisel.	1
33	Drilling machine	1
34	Modelling clay	
35	Clay of different types	
36	Drawing Board with Stand	1
37	Soft stone powder.	
38	Plaster of Paris	
39	Gum.	
40	Sand paper	
41	Plasticine	
42	Wires G.I. copper and wire netting.	
43	Synthetic Enamel colours	
44	Oil colour brushes.	
45	Projection Screen	1
46	Digital SLR Camera (Latest Model)	1
47	Video Camera (Latest Model)	1
48	Microprojector Dark room & developing equipment	1
	NOTE:	
1	All Mercury containing instruments should be replaced by digital or other suitable alternatives.	
2	In order to make teaching hospital more effective, it is necessary that a periodic maintenance and upgrading of the instruments in various departments is carried out.	
3	Endoscopes shall be fibre-optic preferably with a videoscope.	
4	Close circuit TVs (CCTVs) , videoconferencing, Internet and other facilities for live audiovisual demonstration of procedures shall be provided in the institution for effective teaching and training facilities	

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5	All Clinical departments must be provided with one flat high definition TV monitor, DVD Player, one laptop, desktop computer with printer (one per Unit) and one Desktop computer with printer, scanner and photocopier for department office. Requirements of computers and printers and scanners for pre and Paraclinical departments have been mentioned in respective columns.	
6	Number of Operation Theatre(OT) are according to the number of admissions. All OT in the hospital should have wall/dongle mounted suction lines along with piped wall/dongle mounted central gas (O2, NO2) lines	
7	All Operation theatres in the hospital should have resuscitation equipment like Anesthesia machine and accessories like laryngoscope, all - size endotracheal tubes, nasal and oral airways, Magill's forceps , Mechanical ventilator, Separate or with anesthesia machine, LMA / PLMA of all sizes and Electrical suction apparatus.	

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DEPARTMENT OF AUDIOVISUAL AIDS

S.No.	NAME OF THE ITEMS	No. Required
(A)	ARTIST SECTION	
1	Drawing Board (Big)	1
2	Drawing Board(Small)	1
3	Drawing instrument Box	1
4	Plastic Transparent Set square 10"	1
5	Plastic Scale transparent 18'	1
6	Parallel ruler 18"	1
7	Proportional Compass.	1
8	Bowpen one for fine and one for thick line.	2
9	"T" scale 24" wooden	1
10	"T" scale 48" wooden	1
11	Frenet curves Plastic 1 set of 12	1
12	Protractor Plastic Semiround 6" dia.	1
13	Drawing paper various sizes	24
14	Drawing paper	12
15	Water colour tubes	1
16	Poster colours in different shades.	1
17	Reeves Indian Black ink.	12
18	Sable hair brushes	1

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