

OM SAKTHI
MELMARUVATHUR ADHIPARASAKTHI INSTITUTE OF MEDICAL SCIENCES AND
RESEARCH
MELMARUVATHUR
IMPORTANT TEACHING EQUIPMENTS / MATERIALS AVAILABLE IN
PATHOLOGY DEPARTMENT

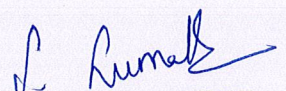
S. NO	NAME OF THE EQUIPMENTS	AVAILABLE
(A)	General	
1	Desktop Computers with High Speed Internet, Laser Black & White Heavy duty Laser Printers, Color Inkjet Printers, Scanners, Photocopy (Xerox) Machines, Telephone with STD facility, Fax Machine etc. Every faculty & Resident must have separate Desktop/Laptop 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.	Available
(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	Available
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	Available
26	Coplin jars	Available
27	Water bath (Tissue Flootation)	Available
28	Single Pan Digital Balance, Chemical	2
29	Balance, chemical with weights	2
	Microscopes	
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,	1

	Dark field, Fluorescent & <u>Polarizing Facility</u>, 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)	
32	For every Professor, Associate & Assistant Professor : Binocular Microscopes with High end Semiapochromatic Optics of international standard.	Available
33	For every Tutor – Binocular Microscope with suitable high end lenses.	Available
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	Available
45	Laboratory stirrer	Available
46	Automatic timer	5
47	Balance for weighing organs	1
48	Saws, wire for cutting bones	Available
49	Slide boxes for 100 slides for students	200
50	Drill for boring glass	Available
51	X-ray viewing box (LED)	2
52	Sternal puncture needle adult size	Available
53	Sternal puncture needle child size	Available
54	Liver Biopsy needle	Available
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.	Available
60	Surgical instruments.	5 Sets
61	Glassware, stains, chemicals reagents etc. for histological work.	Available
(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	60
70	Syringes disposable	Adequate
71	Staining jars for slides.	Available
72	Automatic Hematology Slide Stainers	Available
73	Urinometers(Mercury based instruments to be replaced with other alternatives)	Available
74	Centrifuge tubes graduated.	Available
75	Graduated cylinders for various capacities ranging from 100 cc to 1000 cc	Available
76	Pipettes of various sizes with disposal tips	Available
77	Reagent bottles	Available
78	Dropping bottles	Available
79	Reagents	Available
80	Balances –Digital Single Pan Sensitive Chemical balance	Available
(E)	Specimens:	
81	Mounted Specimens	584
82	Wet Specimens	150


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