

JAMIA HAMDARD
Department of Paramedical Sciences
School Of Nursing Sciences & Allied Health
Medical Laboratory Techniques

S. No.	Equipment	Specification	Qty.
1.	Pipettes (2ml)	Volume -2ml Material - Silica gel	200
2.	Pipettes (5 ml)	Volume- 5ml Material - Silica gel	200
3.	Pipettes (10 ml)	Volume- 10 ml Material - Silica gel	25
4.	Micropipettes fixed (10 ul)	Volume- 10ul Material -Polypropylene	100
5.	Micropipettes fixed (50 ul)	Volume - 50ul Material -Polypropylene	
6.	Micropipettes fixed (100 ul)	Volume -100ul Material -Polypropylene	
7.	Micropipettes fixed (1000 ul)	Volume - 1000ul Material -Polypropylene	
8.	Glass flask 250 ml	Volume - 250ml conical, Narrow Mouth Erlenmeyer, Graduated,	20
9.	Glass flask 500 ml	Volume - 500ml Material - Borosilicate glass	20
10.	Glass flask 1000ml	Volume - 1000ml Material - Borosilicate glass	20
11.	Beaker 250 ml	250ml Heat Capacity(Degree celsius) 560 Degree Celsius Material : Glass	20
12.	Incubator	Power Consumption - 230 volts Dimensions - 18*18*18 Model no 8	
13.	Centrifuge	Speed - 4000RPM Motor- Brush less	
14.	Beaker 500 ml	Type of Glassware; HPLC Solvents Color: Transparent Material: Glass	20

		capacity: 500ml	
15	Beaker 1000 ml	Capacity: 1000 ml Material: Borosilicate Glass	20
16	Colorimeter Lab Junction Colorimeter (Digital Photo Colorimeter), Model: LJ-312	Ean: 4379746680781 Item Weight: 1.00 kilograms Model Number: LJ-312	01
17	Microscope LED lamp		02
18	Refrigerator	Blue Glass Door Single Zone Temperature Model no - MTGDR11W Capacity - 500L	1
19	Spirit Lamp aluminium	Color: Silver Material: Aluminium Packaging Type: Plastic Wrapping Shape: Burner Transparent: No	25
20	RBC pipette	Brand: STANDARD Color: TRANSPERANT Material: GLASS	50
21	WBC pipette	Capacity: 1 ml Usage/Application: Used for mixing diluting fluid and blood Material: Glass Color: Transparent	50
22	Urinometer	For specific gravity of urine Analogue display Manually operated	10
23	Slide Racks	Polylab 18 Places PP 3-Tier Test Tube Stand for 25mm Tube Material: Polypropylene Item Code: 77710	20
24	Specimen slide for teaching	SKU: LAB. MIC.23068266 Type of Product: Microslides Plain Gr. Edges Model No: 9100P02 Sub Type: Double Frosted Ground Edges Dimension (mm): 76X26X1	20

25	Tube rack 13mm x 31 hole	Brand Name:Clear & Sure Item Weight: 200 grams Material: plastic Rack D18,40 Holes Size 18 MM	20
26	Pasteur Pipette (500/pack)	Capacity 3.00 milliliters Marking ColourTransparent Material polypropylene Part Number KTN400	25
27	Modified neubauer's chamber	thick crystal slide with the size of a glass slide. (30 x 70 mm and 4 mm thickness)	25
28	Sahli's Hemoglobin meter	Brand :AQRA Model AQRA Sahli's Haemometer,Prismatic (Square Tube),Planoparallel (Square Tube / Round Tube) Application: Clinical Measuring range: 0-20 gm/dl Type of Tube: Square	25
29	Tourniquet with buckle	Brand: Neutral Length: 16 Inch Color: Blue Pack Size:200 Piece Per Box	10
30	Test tube racks	Color: Blue Material: Plastic Brand: Satya moulds Size: 50ML	25
31	Westergren ESR Tube and stands	Brand:Thermo Fisher Material: Plastic Shape: Round Minimum Order Quantity: 50 Piece(s)	25
32	Wintrobe ESR tube and stands	Color: Transparent Capacity:200mm & 300 mm Pack Contain: 50Tubes	50

		Material:Glass	
33	Rubber bulb (medium size)	Material:Rubber Color: Red Shape: Round	50
34	Rubbber bulb (small size)	Material: Natural Rubber Brand: Rubbertron Capacity: 25 ML Diameter: 53 MM	50
35	Filter paper sheets	material:cellulose sheets packaging: pack of 100 manufacturer/tradename:Wha tman 1001-917 Whatman Article No. 28413937 parameter:0.25 psi wet burst 150 sec/100 mL speed (Herzberg) W × L:460 mm × 570 mm thickness: 180 μm pore size:11 μm (Particle retention) basis weight:87 g/m ²	50
36	Test Tubes (5 ml)	Capacity: 5 ml Material: Plastic Color: Transparent	250
37	Test Tubes (12 ml)	Brand: Recombigen Volume: 12 ml Packaging Size: 100 pcs Cap:Screw Cap Material: Polypropylene Color:Transparent	250
38	Water bath	Display Mode: Analog Level of Automation: Semi Automatic Frequency: 33 KHz Brand: Samarth Electronics Material: Stainless Steel Digital Timer: 20 Min	01
39	Glass slide	Size: 75mm x 25mm Material: Glass Thickness Of Slide: 1.25mm	500

40	Chromatography chamber	Brand: Labline Material: Glass, Wood Shape: Cuboid	01
41	Leishman staining kit	Packaging Size: 25 kg Usage/Application: Leshmans Stain BIOLOGICAL STAINS	20
42	Antihuman globulin AHG	5ml Biotechnika	10
43	ABO Reagent	Product Volume-5ml Storage condition-2-8 degree celcius	10
44	AFB Staining kit	Product Volume-50gm Storage condition -room tempertaure	10
45	Sodium nitroprusside	Product Volume-500ml Storage condition-2-8 degree celcius	10
46	Ammonium sulphate	Product Volume-500ml Storage condition-2-8 degree celcius	10
47	Acetone	Product Volume-500ml Storage condition-2-8 degree celcius	10
48	Sulphur powder	Product Volume-150gm Storage condition -room tempertaure	10
49	Normal saline	Product Volume-50ml Storage condition-2-8 degree celcius	10
50	Gram staining kit	Product Volume-100gm Storage condition -room tempertaure	10
51	Albert staining kit	Product Volume-100gm Storage condition -room tempertaure	10
52	Gloves	Non powder, Latex Size-7.5	250 box
53	Blood collection vial (Red, green, violet)	3ml each vial	250 box
54	Cotton	Type: Plain Sterility: Non-Sterile	10
55	Tube holder with vacutainer	Plastic Standard size	10
56	Tissue paper roll	For clean slides and tubes before any investigation starts.	2

57	Sodium hydroxide	Product Volume-100gm Storage condition -room tempertaure	2
58	Sodium chloride	Product Volume-100gm Storage condition -room tempertaure	2
59	Sucrose	Product Volume-100gm Storage condition -room tempertaure	2
60	pH meter strip	Portable meters accucartely measure pH,conductivity,ion concentration,ORP	2
61	Laminar air flow	Vertical laminar flow to protect sample ,free flow of air.	20
62	Drabkin's Reagent	Drabkin's reagent 100ml is used in measuring haemoglobin from blood samples.	01
63	Pipette stand	A pipette stand is a holder designed to provide safe and convenient storage for manual and electronic pipettes	25
64	Coverslip	cover slip is to keep solid specimens pressed flat, and liquid samples shaped into a flat layer of even thickness (5mm)	300
65	Microtrips (100ul)	Microtips are thin, high intensity probes which are designed for processing small sample volumes	500
66	Microtrips (1000ul)	Microtips are thin, high intensity probes which are designed for processing small sample volumes	500
67	Spatula	spatulas are used to transfer samples or chemicals from their original containers to weighing paper, weighing boats, weighing bottles, weighing funnels, or other vessels or containers for weighing.	25
68	Reagent bottle 500 ml	Reagent bottles are excellent for storing powders and liquids. Reagent bottles in tinted amber or red protect light-	20

		sensitive contents from UV light, visible light and infrared radiation.	
69	Reagent bottle 100ml (Amber colour)	Reagent bottles are excellent for storing powders and liquids . Reagent bottles in tinted amber or red protect light-sensitive contents from UV light, visible light and infrared radiation.	20
70	Glass rod	A glass stirring rod, glass rod, stirring rod or stir rod is a piece of laboratory equipment used to mix chemical	10
71	Coplin jar	-coplin jar molded in PP can hold 10 slides of 1" x 3" size. This jar is grooved inside in such a way that it can hold the slides erect.	25
72	Graduating measuring cylinder (100 ml)	A Measuring Cylinders is a piece of laboratory equipment that is use to measure the volume of a any liquids, chemicals or solutions during the laboratory	25
73	Hot plates	in laboratory settings, hot plates are generally used to heat glassware or its contents.	02
74	Forceps	primary purpose is to grasp, retract, or stabilize tissue.	50
75	Cell counter	Automated machine to calculate the Complete blood count	10
76	Petri dish	A Petri dish is a shallow transparent lidded dish that biologists use to hold growth medium in which cells can be cultured	25
77	Capillary tube	The main aim of the capillary tube is to reduce pressure. It is used in laboratories for collecting the different samples of liquid.	500
78	Urinometer	An Urinometer is a simple piece of equipment for determining urine specific gravity	25

79	Dipstick	A urinalysis is a test of your urine. It's used to detect and manage a wide range of disorders, such as urinary tract infections, kidney disease and diabetes.	50
80	Sensitivity disk	These disks are used to test the effectiveness of particular antimicrobial agents (antibiotics) against specific target organisms.	25
81	Platelet diluting fluid	used in hematology.	10
82	Syringes	A syringe is a small tube with a thin hollow needle at the end. (5ml)	50 box
83	Needle (green and blue)	(green and blue)23g	50 box
84	Semi-Auto analyser	Semi-automated analysers are faster, more precise, cheap, and compact as compared to fully automated analysers and are capable to perform tests on whole blood, serum, plasma, cerebrospinal fluid and urine samples	01
85	Haematology Analyser	Haematology analysers are used to run tests on blood samples.	01

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List of Equipment's For BCLT

Equipment	Quantity	Specifications
1. Blood Pressure Machine(Sphygmomanometer)	3	Conventional Mercurial type BP Instrument
2. 12 Channel ECG Machine	1	12 Lead ECG Machine with ECG Graph papers
3. Multi Brand Echo Machine Portable	1	Multi Brand/Machine condition refurbished/Image Mode 2 D/Doppler Mode: Continuous Wave, Pulse Wave Doppler, Color Doppler Velocity, Power Doppler
4. Ambu bag	5	Medical Rebreathing Bag/Ambu bag for Adult and Kids/Silicon Reusable Oxygen Reservoir Bag for Hospital, Clinic and Home(2600 ml)
5. CPR Dummy Single Ultra-light CPR Training Manikin	1	Full Body CPR Dummy with monitor/portable plastic bag /CPR Operation Pad/CPR Face shield 50 pieces per Box/Lung Bag/Exchangeable skin /Guide Manual
6. Stethoscope	5	Stethoscope for clinical examination/outer diameter 10mm/Inner diameter 4.8 mm/Tube Length 560

		mm/sensitivity 3.2 to 26 DB from 50Hz to 100 Hz for Cardiology
7. 3D Heart model	1	Prosthetic Human heart Anatomical model,2 parts, Showing 4 chambers, Valves, Major Blood vessels with detailed anatomical structures
8. Human Skeleton	2	Prosthetic Human Anatomical Skeleton, Medical Teaching Model/White

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Equipments for the Optometry Program

S.N	Name of Equipment	Quantity	Specifications
1.	Spectacle lens grinding & surfacing machine semiautomatic for spherical lens and cylindrical lenses & Tools for grinding optical lenses of various curvatures gauge for measuring curvature of optical lenses.	01	Semiautomatic/Manual spherical & cylindrical spectacle lens grinding Machine, for giving power to glass lenses. One table for spherical lens power with half HP motor, one table for cylinder lens power with one HP motor & one table for polishing with aluminium Tub one HP power, Also accessories in the form of grinding tools of various curvatures.
2.	Manual lens edging machine with wheels	01	Manual hand edger with diamond wheels medium size, automatic water circulation ,motorized
3.	Optical lens fitting set of callipers, screw drivers & Lens cutter	01 each/01 set	For adjustment of frames & lenses in a rimless, supra or full fitting stainless steel frame.
4.	Lens marking pencil	10	Black or blue colour for marking on glass
5.	Trial lens Box Set (Refraction set)	03	Lenses with Plano back vertex fitted in aluminium mounds, plus & minus lenses with accessories Maddox rod, occlude, blank, prisms, red and green glass, pin hole and stenopaic slit, cross cylinder +/- 0.25D +/- 0.50D and or PD ruler.
6.	Trial Frames	10	Metal adjustable,3 grooves, adjustable PD, regular model, light weight
7.	Vision Drum(Distance)	05	Snellen's chart: motorized with remote? Manual, with duochrome test, operable at 6 mts and or 3 mtrs ETDRS chart (Lovie-Bailey chart),Sherdan-garnier chart for children
8.	Near Vision Charts	05	Illuminated, plastic screens with metal frames for testing near vision.
9.	Axis marker	02	For marking axis on the finished spectacle lens
10.	Streak Retinoscope	04	Hiene's Model
11.	Glass blanks (unifocal) (consumable)	100	For grinding power to form finished spectacle lens
12.	Glass blanks (Bifocal)(consumable)	100	For grinding power to form finished spectacle lens

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13.	Emeries powder of different size No. 1.Carborandom grain size 0.3mm. 2.Aluminium oxide 202 & 203 grain size 0.075mm & 0.01mm. 3.Iron Oxide grain size 0.002mm (consumable)	4 packet each	For grinding power to form finished spectacle lens
14.	Cloth for grinding (consumable)/polishing pad	10 meters	For grinding power to form finished spectacle lens
15.	Cross cylinder 0.25-0.5D powers	02	Jackson's cross cylinder with handle & powers +/- 0.25D & +/- 0.5D
16.	Colour vision Ishihara chart	02	With 39 plates original Japanese for testing colour vision
17.	Hertel's exophthalmometer	01	For measuring exophthalmose
18.	PD Ruler	02	For measuring the pupillary distance
19.	Titmus Fly test	01	Stereopsis measuring for Adults & children with the symbols, stereo fly with stereopsis measuring, +/-4800 to 20 seconds of arc.
20.	Maddox wing	01	For measuring heterophoria, light in weight metal
21.	Diploscope with picture card	01	For measuring diplopia, metal frame
22.	Placido' disc	01	Plastic hand held for seen corneal surface
23.	Eye model	05	For refraction training
24.	Frame heater	01	For heating of non-metal spectacle frames to fit lenses
25.	Radian Apparatus/Geneva lens measure	01	Measuring finish lens curvature -0 to 20 mm .reading -0.25 measure, scope +-20
26.	Low Vision kit	01	To teach students about low vision
27.	Geneva Lens Measure	01	For measuring the base curve of a lens
28.	Soft lenses.Toric lenses,and RGP lens trial set	02	For contact lens fitting
29.	Automated lensometer (grand Seiko)	01	For measuring the power of glasses
30.	Slit lamp with moving table	01	Zeiss type slit lamp three steps with camera and beam splitter
31.	Synaptophore	01	Appasamy Synoptophore ASP 902, 430 mm (H) X 550 mm (L) X 265 mm (B).
32.	Dist.HOTV folding	01	Pediatric eye chart featuring HOTV optotypes for screening/testing the vision of children and adults 3 years and older. This eye chart folds in half for added mobility or easy storage. Front side of eye chart features HOTV characters in proportionally-spaced lines (ETDRS format) for monocular and binocular (left eye / right eye) vision testing.
33.	Accommodation Flippers Set	05	Test and train for accommodative facility, accommodative rock, positive/negative relative accommodation and convergence and fusional convergence reserves.

34.	ETDRs Chart	01	<p>For testing at 4 meters (13 ft.) Acuity range 40M to 2M (20/200, 6/60 to 20/10, 6/3 equiv.) Only standardized format accepted in studies sponsored by the National Eye Institute Designed for use in clinical studies and low vision evaluations where accurate, repeatable visual acuity measurements are required</p> <p>Lines are of equal difficulty Geometric progression in letter size from line to line Letter size is only variable Measures 62 X 65 cm (24.5 X 25.5 in.) Chart fits the ETDRS Illuminator Cabinet CAT. NO. 2425 Can be wall-mounted</p>
35.	Pelli-Robson Contrast Sensitivity Chart	01	<p>Features Traditional Sloan Optotypes For use at 100cm (1m) Includes two charts which may be wall or easel mounted and score sheets. Illumination of 85 cd/m² is key to good results Designed by DG Pelli, JG Robson and A J Wilkins, because they see contrast sensitivity as a realistic assessment of how well the patient sees large faint objects. The chart follows the luminance, font, and letter spacing recommendations of the Committee on Vision of the National Academy of Sciences and National Research Council (Adv Ophthalmol 41: 103-148, 1980). The letter sequences are organized into groups of three (triplets) with two triplets per line. Within each triplet, all letters have the same contrast. The contrast decreases from one triplet to the next, even within one line. The testing of contrast sensitivity on a regular basis is key to detecting early signs of diseases such as Parkinson's, Glaucoma, and Cataracts. By testing with several different contrast levels configured together, the patient's contrast sensitivity level is better assessed and records will be more precise.</p>

v. s. ankumar

... spectacle lens

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Department of Paramedical Sciences
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B.Sc. Trauma Care Management

Equipment Required for Trauma Care Management

Equipment's	Quantity	Specification
Endotracheal Tube	4	Tube which is passed through trachea for emergency ventilation Sizes-6,6.5,7,7.5,8
Laryngoscopes	2	With curved blade (macintosh), straight blade (millers), Device used to examine the larynx for intubation
Bougie	2	Cylindrical Flexible rubber instrument used for making passages
CPR Board	1	Board used for to make surface firm for effective CPR
Spine Board (with straps)	1	Used for lifting and moving the patient in case of trauma with straps to tie the patient (orange in color with grooves cut)
Spine Immobilisation Kit	2	Kit used for spine immobilization with head blocks
Splints (Rigid and Soft)	4	Device used for immobilizing broken bone of the body to prevent further trauma
AMBU Bag	2	Device used for artificial ventilation (Sizes-adult, paediatrics)
CPR Mannequin	1	to learn how to give cpr (Brand-Laedral)
Defibrillator	1	Device used to stun myocardium and deliver shock (biphasic automated defibrillator)
Central Line	2	Cannula used to place in the central veins
Cannula (diff size)	5	Used to open a port in blood vessel for medication and sample withdrawal (Sizes-16,18,20,22,24)
Syringes	4	Sizes-5ml,10ml,20ml,50ml

Bandages	4	To help control bleeding, and immobilizing, dressing Sizes-4inch,6inch
Foley Cathether(diff size)	4	Tube placed in the ureter for passing the urine Size-14,16,18,20
Emergency Drugs	15	Drugs used in emergency situation(ATropine,NORAD,Epin ephrine, Hydrocortisone, Pantop,buscopan, Drotin, labetolol,midazolam,calci um gluconate,Trenaxa, Normal saline etc)
Combitube	1	Device used for ventilation where ET tube placement is not feasible
Laryngeal Mask Airway	1	Device used for ventilation where ET tube placement is not feasible
Cervical Collar	2	To immobilize the C-Spine (Soft&Rigid)
Oropharyngeal Airway	5	Instrument to put in buccal cavity for ventilation and preventing toungue bite (all size)
Suction Catheter	2	To remove excess fluid mucus from the body
First Aid Kit	1	Basic emergency kit with all the medical supply(bandaid,bandages,microp ore, syringes)

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List of Equipment of Dialysis under Rs.25,000/-

S.no.	Name of Equipment	Quantity	Specifications
1.	Arrow Dialysis single lumen catheter	01	Single lumen catheter along with guide wire, dilator, introducer needle.
2.	Arrow Dialysis double lumen catheter	01	Double lumen catheter along with guide wire, dilator, introducer needle
3.	Fistula Needle 16 gauze (02) 17 gauze (04) 18 gauze (02)	08	Fistula needle with backeye of different sizes.
4.	Normal Saline 500ml 250ml	10	For demo purpose.
5.	I.V Sets	10	For demo purpose
6.	Betadine	02	For demo purpose

7.	Sprit	02	For demo purpose.
8.	Sterile gauze packets	20	For demo purpose.
9.	Syringes and needles (2ml, 5ml, 10ml)	10	For demo purpose.
10.	Sterile HD Tray	05	For demo purpose.
11.	Stethoscope	10	For taking B.P.