

SPECIFICATIONS FOR LABORATORY EQUIPMENT**Details of The Materials And Quantities:-****General Waste Management**

Dustbins:

- Red (01pc)
- Yellow (01pc)
- Black (01pc)
- Blue (01pc)
- White(01pc)

➤ Pathology Department:-

S. No.	Equipment's / Apparatus	Specification	No. of Unit
01.	Compound Microscope	Binocular Microscope Model CH-20i LED; Includes binocular head, integrated LED light, anti-fungal coated achromatic objectives (4x, 10x, 40x (Spring), 100x (Oil, Spring))	02Pcs
02.	Face Mask Disposable	Weight- 310g; Dimensions- 25 x 15 x 5 cm; Colour Black,	50 Boxes (Pack Of 50 pcs)
03.	Capillary Tubes	Glass Capillary Tubes, Melting Point, Both Ends Open, 100mm	50 Boxes (Pack Of -100 Tubes Per Box)
04.	Timer	White Digital Timer Model- (DT 109) With Extra Loud Sound For Laboratories	03 pcs
05.	Micro Slides	Dimension - 75mm (+2mm) x 25mm (-1mm); Thickness - 1.25mm (+-0.1mm);	500Boxes (Pack of 72 slides)
06.	Syringe 3ml	DISPO Van Syringes 3ML With Needle For Single Use Only -	50Boxes (Pack Of 100)
07.	Syringe 5 ML	DISPO Van Syringes 5ML With Needle For Single Use Only -	50Boxes (Pack Of 100)
08.	Blood Collection Vial(EDTA)	Type- K3 Additive-EDTA Volume - 3ml	05 Boxes (Pack Of 100 Vails)
09.	Blood Collection Tube (Sodium Citrate)	Sodium Citrate: Concentration - 3.2%- Volume - 3ml	01 Box (Pack Of 100 Vails)
10	Blood Collection Tube Red (Clot Activator)	Non-Vacuum Blood Collection Tube Clot Activator, Red Top - 03ml,	05 Boxes (Pack Of 100 Tubes)
11	Blood Collection Tube (SST)	Vacuum Blood Collection Tube SST Gel- 3ml Double Cap	05 Boxes (Pack Of 100)

12	Blood Collection Tube(Sodium Fluoride)	Vacuum Blood Collection Tube Sodium Fluoride - 3ml Double Cap	03 Boxes (Pack Of 100)
13	Micro Pipette Tips (100 Micro Litre)	Volume Range-2-100µl Colour-White	30 packets (pack of 1000 tips)
14	Micro Pipette Tips (100-1000 Micro Litre)	Volume Range-100-1000ul Colour-White	20 packets (Pack of 500 tips)
15	Micro Cover Slips	Glass Micro Cover Slips Microscope Slide Covers Dimensions:18mmx18mm Thickness: 0.125mm - 0.160mm Color- Transparent	20 Boxes
16	Esr Pipette Disposable	Disposable ESR Pipette (Westergren Method)	02 Boxes (Pack Of 200 Pcs)
17	Plastic Blood Lancet	Colour-Blue Dimension- 8 x 4 x 6 Cm; 70 G	50 Boxes (No. Of Lancet - 100 Pcs)

S. No.	Chemicals / Reagents	Specification	No. of Unit
01.	A B O Blood Grouping Reagent	Pack size -4x10ML Monoclonal blood grouping reagents are used in ABO blood typing analysis by hemagglutination slide Test & Tube test method.	10 Boxes
02.	Alcohol	Colour – Transparent Net Quantity - 5000 millilitre Iso-Propyl Alcohol	05 Litre
03.	Sanitizer	Blue Liquid Sanitizer Hand Sanitizer 68% Alcohol-Based Kills 99.9%	05 Litre (Net 5000 ml)
04.	Immersion Oil For 100x Microscope	Refractive index-typically between 1.5 and 1.52 Clarity and purity -should be free from contaminants and bubbles,	200 ml (pack of 100ml per bottle)
05.	Semen Diluting Fluid	SPECTRUM Semen Diluting Fluid	500 ml (pack of 125ml per bottle)
06.	Erba H360 Diluent	For Erba H360 Hematology analyzer	03package (Quantity 20 litre)
07.	Erba H360 Lyse	For Erba H360 Hematology analyzer Colour- white	03bottle (Volume 500 ml per bottle)
08.	Erba H360 cleaner	For Erba H360 Hematology analyzer E Lite H360 Clean (Cleaning Solution) Quantity 50ml	05 bottle
09.	Multi Strip For Urine Routine Micro Scope	Keto-Diastix Reagent Strips for Urinalysis-	20 Box (Pack of 50 pc per box)
10.	Buffer Solution For Leishman Stain	Buffer Solution PH 4.0 (500ML) per bottle	05 Litre

11.	WBC Diluting Fluid	W.B.C Diluting Fluid (Turk's),	01 Litre(pack of 500 ml per bottle)
12.	Platelet Diluting Fluid	Platelet Diluting Fluid pack of 01	1 litre (volume of 125ml per bottle)
13	Semen Diluting Fluid	Semen Diluting Fluid pack of 01	01 litre (volume 125ml per bottle)

Details of the Materials and quantities:-

➤ **BIOCHEMISTRY**

S. No.	Equipment's / Apparatus	Specification	No. of Unit
01.	Room temperature thermometer	Digital Thermometer Hygrometer HTC-2 Room Thermometer with Humidity Incubator Meter and Accurate Temperature Indicator Wall Mounting LCD Digital Clock Monitor for Indoor	05 pcs
02.	Eppendorf micro tube	Colour - white Volume -1.5 ml Package dimension- 30 x 27 x 5 cm; 430 g	10 packet (Pack of 500pc)

S. No.	Chemicals / Reagents	Specification	No. of Unit
01.	Distilled water	High-purity water with minimal contaminants	10 litre
02.	ERBA wash kit	For use in Erba Chem 5x analyzer wash kit	01 litre Pack size- (500g x 2)
03.	ERBA glucose	For clinical assays, typically in powder form	04 packets
04.	ERBA Urea	Used in clinical chemistry assays	04 packets
05.	ERBA Uric acid	For measuring uric acid levels Package size - (4 X 24 / 4 X 6 ML)	04 packets
06.	ERBA Sodium	Reagent for sodium ion concentration tests transaminase levels Packaging type- Bottle Physical state – Powder (Packaging – 5x20 ml)	04 packets
07.	Potassium	Used for potassium level assays transaminase levels Packaging type- Bottle Physical state – Powder (Packaging – 5x20 ml)	04 packets
08.	Chloride	For measuring chloride ion concentration transaminase levels Packaging type- Bottle Physical state – Powder (Packaging – 5*20 ml)	04 packets
09.	ERBA Creatinine liq	For testing kidney function transaminase levels Packaging type- Bottle Packaging – 4x60ml	04 packets
10.	ERBA Total protein	Used to measure total protein concentration transaminase levels Packaging type- Bottle Physical state – Powder Packaging – 5x50 ml	04 packets

11.	ERBA Albumin	Reagent for measuring albumin levels in blood Packaging type- Bottle Physical state – Powder Packaging – 5x20 ml	04 packets
12.	ERBA Bilirubin (direct &total) liq	For assessing bilirubin levels in blood Packaging type- Bottle Packaging – 5x 50 ml	04 packets
13.	ERBA Cholesterol	For cholesterol measurement in clinical tests transaminase levels Packaging type- Bottle Physical state – Powder Packaging – 5x30 ml	04 packets
14.	ERBA Triglyceride	Used for triglyceride level assays transaminase levels Packaging type- Bottle Physical state – Powder Packaging – 5x20 ml	04 packets
15.	ERBA HDL cholesterol	For measuring high-density lipoprotein cholesterol Packaging type- Bottle Physical state – Powder Packaging – 5x20 ml	04 packets
16.	ERBA SGPT	For measuring serum glutamic pyruvic transaminase levels Packaging type- Bottle Physical state – Powder Packaging – 5x0 ml	04 packets
17.	ERBA SGOT	For assessing serum glutamic oxaloacetic transaminase levels Packaging type- Bottle Physical state – Powder Packaging – 5x20 ml	04 packets

Note:-The specific reagents and their concentrations may vary depending on the Erba Chem 5x semi-auto analyzer and the tests being performed.

Details of the Materials and quantities: -

MICROBIOLOGY

S. No.	Equipment's / Apparatus	Specification	No. of Unit
01.	Laminar flow cabinet	Compact Horizontal Laminar Airflow (Mild steel). Standard size (2'x2'x2') working table. Horizontal laminar air flow (Mild Steel) Stainless Steel. Working Table Internal Illumination by Fluorescent light. Item weight -100 kg Voltage-220v (AC)	01 Pc
02.	Bunsen burner	Stainless steel, adjustable flame Item Weight-340g Product Dimensions-8.89 x 8.89 x 15.24 cm Item Height6 Inches, Item Width 3.5 Inches	02 Pcs
03.	Inculcating Loop	Nichrome wire, heat-resistant handle The brass handle is 200 mm long. Colour- black	10 Pcs
04.	VDRL shaker /Rotator	Speed: 180 rpm, adjustable platform Item dimensions L x W x H =125x90x65	01 Pc

05.	Petri dish (disposable)	Material: Petri dishes can be made of plastic. Plastic dishes are the most common as they are disposable, transparent, and less prone to breakage. Size: The standard size of a Petri dish is 90 mm in diameter and 15 mm in height. Petri dishes are generally round in shape. Should be sterile polystyrene,	20 Packets (pack of 50pcs)
06.	Autoclave	Surgical Autoclave Six Wing Nut Electrical Mirror Finish Size 12" x 12" Capacity 21L & Dressing Drums Bins 11"x9" & 9"x9" Heavy Duty, Combo Power supply- 220v 50hz Working pressure- 15 to 20 PSI Weight -6kg Dimension-36x30x29cm	01 Pc

S. No.	Chemicals /reagents	Specification	No. of Unit
01.	Widal test reagent	S. typhi 'O' Antigen – 1 bottle of 5 ml. S. typhi 'H' Antigen – 1 bottle of 5 ml. S.paratyphi 'AH' Antigen- 1 bottle of 5 ml. paratyphi 'BH' Antigen – 1 bottle of 5 ml. Positive Control – 1 bottle Negative Control – 1 bottle Glass Slide – 1 Nos Kit Components 4x5ml	20 Boxes
02.	HBsAg kit	Rapid Test,	04 Boxes (Pack of 100)
03.	HCV kit	Rapid Test, rapid screening contains reagents for detecting HCV antibodies	03 Boxes (Pack of 50 kit)
04.	Gram stain reagent	Crystal violet, iodine, decolourizer, safranin,	10 Boxes (pack of 500 ml)
05.	ZN stain reagent	Carbol fuchsin, acid alcohol, methylene blue,	10 Boxes

S. No.	Culture Media / Agar	Specification	No. of Unit
01.	Nutrient agar	Media input- powder Package dimension -12..2x7.1x6.9	1 Kg (Pack of 500g)
02.	Nutrient broth	Media input- powder Nutrient Broth For general cultivation of less fastidious microorganisms, can be enriched with blood.	1 Kg (Pack of 500g)
03.	Blood agar	Dimension- 19 X 15 X 13 Cm; 500g For isolation and cultivation of fastidious pathogenic microorganisms after addition of blood	1 kg (Pack of 500g)
04.	Glucose broth	Dimension- 12x9x7cm Buffered Glucose Broth Used In Differentiation Of Bacteria. Media input- powder Form	1 kg(Pack of 500g)
05.	MacConkey agar	MacConkey Agar For isolation and differentiation of lactose fermenting and lactose non-fermenting enteric bacteria Pack of 500g Media input- powder Form	1 kg (Pack of 500g)

06.	C.L.E.D. agar	For isolation and differentiation of urinary pathogens on the basis of lactose fermentation. Media input- powder Form Dimension- 12x9x7cm	1 kg (Pack of 500g)
07.	Chocolate agar	Enriched medium for fastidious organism like Haemophilus and Neisseria species	1kg (Pack of 500g)
08.	Indole (Tryptone) broth	Appearance-Clear, light amber Media input- powder Form tryptone broth (tryptone water) for detection of indole producing microorganisms	1 kg (Pack of 500g)
09.	Citrate agar	tri-ammonium citrate dimension- 15 x 15 x 15 cm. Appearance: White deliquescent powder.	1 kg (Pack of 500g)
10.	Urease agar	Urea agar base (christensen) Appearance -pale yellow or orange Media input- Powder form Pack of 500g	1 kg (Pack of 500g)
11.	Triple sugar iron agar (TSI)	TRIPLE SUGAR IRON AGAR For confirmation of gram-negative enteric bacilli on basis of dextrose, lactose and sucrose fermentation and H2S production Appearance -clear to slightly opaque red agar	1 kg (Pack of 500g)
12.	Mannitol salt agar	Mannitol Salt Agar Base for Selective Isolation and pathogenic Staphylococci. dimension- 15 x 15 x 15 cm. media input -powder or Gel	1 kg (Pack of 500g)