OFFICE OF THE DEAN & PRINCIPAL SAHEED RENDO MAJHI MEDICAL COLLEGE & HOSPITAL, BHAWANIPATNA, KALAHANDI

At-Bhangabari, Po-Uditnarayanpur, Bhawanipatna Dist-Kalahandi, Pin-766002 Email: <u>bptmedicalcollege@gmail.com</u> https://srmmch.odisha.gov.in/



Letter No. 17.59 Date: 27.109) 2023

Corrigendum

.....

The Subject contained in bid reference no 2/2023-24 of this office letter no 1626 dated 14.09.2023 elating to "Expression of Interest for Supply of Laboratory Chemicals & Consumables and Equipment's & Instruments" is added with detail specification of items for the smooth management of academic session in SRM MCH, Bhawanipatna, Kalahandi.

SRM MCH, Bhaw Danila Call Gold And Ball SRM Medical College And Ball SRM M

Memo No. 1760 Date: 27/09/2023

60 Date: ... 27 09 2023

SRM Medical Constraint

SRM M "Expression of Interest For Supply of Laboratory Chemicals & Consumables and Equipment's & Instrument" At SRM MCH, Bhawanipatna Of Kalahandi District Web Portal.

SRM MCH, Bhawanipatna, Kalahandi

Memo No. 1.76.1. Date: 27/09/2023

Copy to the Collector cum DM, Kalahandi for kind information.

Dean & Principal SRM MCH, Bhawanipatna, Kalahandi

Memo No. 1762, Date: 17,09,2023

Copy to the ADM (Gen.), Kalahandi / Administrative officer, SRM MCH, Bhawanipatna, Kalahandi for kind information.

SRM MCH, Bhawanipatna, Kalahandi

Memo No. 1. 763 Date: 27/09/2023

Copy to the Superintendent, , SRM MCH, Bhawanipatna, Kalahandi for kind information.

SRM MCH, Bhawanipatna, Kalahandi

Memo No. 1764; Date: 27 09 2023

Copy to the DMET, Odisha, Bhubaneswar /Nodal Officer, from DMET of SRM MCH, Bhawanipatna, Kalahandi/ Additional Secretary, H & FW Deptt Govt of Odisha, for kind information.

SRM MCH, Bhawanipatna, Kalahandi

ANATOMY DEPARTMENT

.NO.	Name of the Items	Qua
112210.7	Micro scopes Monocular / Binocular MICROSCOPE	60
	FRAME Body: Aluminum die-cast body with all critical movements	
	MICROSCOPE FRAME Body: Aluminum die-cast body with all critical movements basedon ball-bearing & wireguides thereby ensuring smooth & precise manipulation. Enables easy manipulation Rust-free metal body with high quality paint finish to ensures trouble freeperformance for years. Accuracy: Machining of components on high precision CNC machines to ensure better accuracy. Micron Sensitive mechanical movements: of specimen: Enables easy	
	manipulation of specimen	
	Mechanical Stage: Co-axial low drive mechanical stage (125mm x 145mm) (+/-5mm) with traverse area of 50mm x 76mm (+/-5mm)	
	Focussing System: Co-axial coarse & fine focusing control (Both Side) with a focus adjustment and find adjustment knobs, ergonomically designed and the system to prevent stage drift problems during focus drive. The knobs ergonomically designed & the system provides	
	precision at all magnifications.	
	Condenser Holder: Rack & pinion mounted condenser holder.	
	Illumination Base: Built-in illumination base with pre-centred 6V20W halogen bulb coupled with an efficient collector lens system provide optimum brightness along the optical path. A conveniently positioned slider knob enables variable light control. Efficient light collector-lens system for optimum brightness. The ventilated light relay system resulting in the minimum heating of base. Meets International safety standards of CE.	
	Nose Piece: The superior design Quadruple nosepiece with positive click stop based on precision ball-bearing mechanism, enables smooth objective change allows smooth rotation & easy access to specimens. Sub-stage Condenser: Abbe condenser with aperture iris diaphragm,	
	N.A. 1.25, provided with a filter holder and blue filter.	
	With its compound lens system ensures that the traverse of light along the microscope's optical path is optimised. The built-in iris diaphragm enables maximum contrast of the specimen under observation.	
	OBJECTIVES Achromatic Objectives Made from high quality Japanses optical glass Precision engineered for parfocal & centred viewing High-grade optics with multi-layer coatings provides optimum brightness & contrast for long hours of comfortable viewing. Optics	
	are uniformly centered & interchangeable: in any hole of revolving nosepiece for centering & parfocality. All objective are parfocal and parcentered to minimise refocusing. Comprehensive Anti-Fungus treatments are applied to every area which affects the clarity of the observed images. This tropicalized treatment ensures image excellence for long periods in conditions favoring to fungus growth. Color corrected in all magnifications including high power objective, resultin in better-defined images.	•
	INCLINED OBSERVATION HEAD (Rotatable through 360 degree) With a special antifungus treatmentWith ant reflection optical coatings of prisms (To enhance the brightness of the image) With interpupillary distance and diopter	i-

adjustments. A unique design of observation

1 | Page

Dean & Principal (a)22 SRM Medical College & Hospital Bhawanipatna, Kalahandi



head consists of a special multiplayer coated beam splitter prism to ensure maximum transmittance / reflectance of light which not only, provides bright illumination but also ensure equal division of light i.e. uniform illumination in both the eyepieces for ease of observation & eye comfort during extended usage. EYEPIECE (WIDEFIELD) (for observation) WF 10x (F.No.18) with a special anti-fungus treatment with multi-layer coatings. The unique optical design of the compensating eyepiece, provides relief from eye fatigue and renders colorcompensated wide-field images of utmost clarity. Compatible with an optionally available eyepiece micrometer. ISO CERTIFICATION Manufactured in ISO 9001-2008 facility. ISO from a reputed international organisation CE CERTIFICATION Meet CE standards for safety 5 Dissection Microsope Side & Top Interpupillary adjustment 1x & 3x. Objective. Two 10x & 20x wide field eyepiece. 10x 60x Magnification range. Dual coarse focus Knob. Upper tungsten & lower halogen bulb illumination. Translucent and opaque stage plate. Microtomes Rotatary 2 Technical Specification: -Semi Automatic Rotary Microtome Programmable The Semi Automatic rotary microtome characterizes the faultless combination of cost effective competence and user comfort. It is the instrument of choice for clinical histology and histopathology application, as well as for industry Manual sectioning is enhanced by the high precision motorized specimen feed, which fallout in efficient operation with utmost section reproducibility. Improved user comfort results in maximum workspace efficiency and high throughput. Well located storage Area An incorporated storage tray makes certain subsidiary tools are in hand at all the times. Safety During Sectioning Protection is assured by incorporated black finger protection guard of the knife holder that exceptionally safeguards the blade edge. When used correctly the integrated finger protection guard rules out potential injuries because it can even remain on the blade edge during sectioning. Contented Operation All functions are controlled via touch sensitive buttons located on both sides of the block holder. Trouble Free Operation Ergonomics and user comfort are key concern for the placement of coarse feed wheel, which is located close to the operator. The mechanical trimming function, conveniently positioned next to coarse feed wheel, purge the need to turn coarse feed wheel during trimming Spacious Section Waste Tray The spacious section waste tray consistently gathers sectioning wreckage Accurate Specimen orientation with clear zero reference point This new orientation technique sets innovative standards of precision and is very effortless to operate. Calibrated controls make it easy to fiddle with a specified by assessable variable on the x/y axis for re-cuts Imaginative Knife holder adjustment The complete width of the knife could be used by using straight forward blade fastening mechanism Using the complete knife edge is cost effective, particularly in laboratories with high specimen throughout.

Technical Data: -

3

Section Thickness

Section Thickness Setting range

0.5 mm - 90 mm

Setting Values

Trimming Section from 0.5 mm - 1 mm in 0.5 mm increments from Imm -99 mm in Imm increments

O.5 mm - 99 mm

O.5 mm - 99 mm

3.00

Deen s Francisco Lega sedical College & Hospital Brass Impatrial Kaishandi

SI M	pecimen Retraction from 0.5 mm - Imm in 0.5 mm increments from Imm - 99 mm in Imm increments obtorized Operation Varying with section speed orizontal Specimen Feed Approx. 30mm ertical Specimen Feed Approx. 70mm ectioning Modes Approx. 70mm ectioning Modes I Manual Mode Individual Specimen Size 50mm(L) x 60mm(II) x 40mm(W) pecimen Orientation Horizontal:80, Vertical:80, Z:3600 perating Voltages Nominal Supply Voltages 100V/120V/230V/240V Nominal Frequency 50/60 Hz. Dimensions basic instruments Vidth (including handwheel) 390mm bepth (including waste tray) 510 mm Height (with storage cover) 305mm Weight (with accessories) Approx. 26 Kg. Ecompatise Compatible Frequency Specimen orientation with zero point reference Easy shift between trimming and sectioning operation Two motorized forward specimen coarse feed speeds Automatic Specimen retraction Section - Handed function universal cassette clamp Absolutely new knife holder replica for disposable blades, with finger guard in contrasting color. User safety incorporated into overall design Smoothing - running hand wheel with incorporated quick - lock method Accurate knife holder replica for disposable blades, with finger guard in contrasting color. User safety incorporated into overall design Smoothing - running hand wheel with incorporated quick - lock method Accurate knife holder alteral movement Ergonomically optimized hand wheel handle Communication display incorporated in instrument housing enclosed Enclosed micrometer mechanism Spacious section waster tray Wide range of accessories Automatic retraction The equipment is supplied complete with : i. Cassette holder ii. Knife holder base iii. Sitandard knife holder. iv. Object orientation unit iv. Section waste tray.	
	vi. Microtome knife 15cm Microtomes Sledge, large cutting	2
5	Incubator Technical Specification:- GENERAL 1 USE 1.1 Clinical purpose: The incubators are used in laboratories to provide a controlled, contaminant-free environment for safe, reliable work with cell and tissue cultures by regulating conditions such as temperature, humidity, and CO2. Microbiological incubators are used for the growth and storage of bacterial cultures. 1.2 Used by clinical department/ward Clinical labs TECHNICAL 2 TECHNICAL 2 TECHNICAL CHARACTERISTICS 2.1 Technical characteristics (specific to this type of device) Performance Parameters Purpose: Bacteriological incubator are used for the incubation of biological products under controlled conditions Type of Incubator: Bacteriological Incubator Capacity in liters: Minimum 40liters Material of Inner Chambers: SS 304 Material of Outer Chamber: CRCA (powder coated point) Steel Ambient Temperature in °C: 5°C above ambient to 60 °C (Bacteriological Incubator) Temperature Accuracy in °C: ±0.5°C Temperature Uniformity in °C: ±2°C Insulation: Glass wool Controller: Microprocessor based PID control	2





1.1

P



1		
	 Top is covered with SS Sheet, with Centre Slope In cross Form. Provision of Drainage Hole Connected with Waste water outlet Pipe. Provision of SS Bucket and Sliding Tray. Mounted on Rubber Stumps. Size:- (LxWxH): 6ft 3inch x 2ft 6inch x 3ft 3inch 	
1.1		2
14	Tubular frame work mounted on four swivelling castors 150mm dia. Removable stretcher top made of mild steel with chrome plated tubular handles Stainless Steel	
15	X - Rays plates/ CT/MRI	AS per Requirement
16	Drill machine Technical Specification Drill head motor: 1.5 HP/1440 rpm Elevating motors: 1 HP/ 144 rpm Head Motor V belt: B 33X2 Oesophagoscope Lighting system, Processor unit Medical grade monitor with Connecting Cpower Supply voltage - 230 V 50 hz Printer connectivity Suction Pump.	2
17	Hand saw, preferably metal Technical Specification Should be high carbon steel blades, hard and durable, anti rust and smooth, which leads to less friction. Blades should be chrome plated to prevent body fluid /chemical corrosion. For HRC, Blade materials should reach 52 degrees and teeth reaches 60 degrees (+/-3) Chrome treatment, antirust smoothening should be done to reduce the friction. It should be ergonomic and rust proof. Special teeth design which should be sharp at edges. Should be supplied with essential accessories	3
18	Band saw for sectioning body & limb . Technical Specification Width/Depth/Height: 900 x 600 x 1500 mm Working height approx.900 mm Cut height max. 210 mm Cut width max.350mm	1
19	Technical specification: - Very useful for preparing specimens of large size in Anatomy and Forensic Departments. Fitted with a large moving table and extension table operated on four ball-bearing rollers. Also used extensively in meat packing, and wholesale fish industry, for handling swordfish and large halbutes etc. Specifications: Size ofcuttingtable 785 x 585 mm approx. Total Table Travel 1245 mm Extension Table 455 X 760 mm Size of Wheel 455 mm approx. Height 1 700 mm approx Motor Capacity: I II.P. Crompton/A.U.E. Make The table is made of thick S.S. sheet with special heavy axles for easy and firm movement. Supplied complete with one blade, starter, cord and plug. Suitable to work on 220 V, single phase, 50 Hz, AC supply. Spare / Optional Accessory:	
20	Blade for above. Brain Knife Technical Specification: Knives should have premium quality. Standard size 12 inches High quality stainless steel with heat-treated and tampered blades. The blade should be sharp and easier tore-sharpen. Handl ematerial to be of S.S 304.to prevent corrosion.	2



X ray viewing lobby		AS non
Charts, diagrams, models		AS per Requirement
Models		
1. Graafian folliele, ovulation, corpus leuteum.		
Schematic representation of events taking place during the first week of human development.		
3. Development of the villus.		
Villus at the end of the third week of the development.		
5. Presomite embryo of 16 days.		
6. 14 somites embryo (approximately 25 days).		
7. 25 somites embryos (28 days).		
8. Transverse section through embryo at various stages of		
development.	3	
9. Human embryo at the beginning of the second month of		
development.		
10. Development of Dizygotic twins, each embryo normally has its		
own amnion, chorion and placenta.		
11. Development of the renal pelvis, calyces and collecting tubules		
of the metanephros at 6 week, 7 week, new born. 12. Relationship of hindgut and cloaca at the end of 5th week.		
13. Development of the urogenital sinus into the urinary bladder.		
14. T.S. Ovary at the 7 week of development showing the		
degeneration of the primitive sex cords and the formation of the cortical cords.		
general and the formation of the cortical colds.		
15. Genital ducts in the female at the end of the second month of development.		
16. Formation of the uterus & vagina at various stages of development.		
17. Indifferent stages of the external genetalia.		
18. Development of external genetalia in the female at the 5		
month and in the new born.		
19. Descent of the testis; during the 2nd month, middle of the 3rd		
month, 7th month & shortly after birth.		
20. Testis, epididymis, ductus deferens, and the various layers of the abdominal wall which surrounds the testis in the scrotum.		-
21. Human circulatory before birth.		
22. Human circulatory after birth.		
23. Development of the pharyngeal clefts and pouches.		
24. Development of tongue.		
25. The primitive gastrointestinal tract.		
26. Representation of the migration of the thymus, parathyroid		
glands & ultimo-brancheal body.		
27. Successive stages in the development of the trachea and		
lungs at the 3rd week, 4th weeks, 5th weeks and 6 weeks.		
28. Development of liver.		
29. Development of stomach.		
30. Development of pancreas.		
31. Frontal aspects of the face at 5 week embryo, 6 week embryo & 10 week. 32. Development of eye.		
33. Development of eye.		
34. Development of limb buds at 5, 6, & 8 weeks.		
35. Formation of the vertebral column at various stages of development.		
36. Septation of ventricle ant and bulbus cordis.		
37. Formation of the atrioventricular valves and chorda tendineae		
38. Development of the umbilical & Vitelline veins at the end of 4th		
week, 5th week, 6th week & 3rd month.		
HUMAN MODELS		
39. Model of Larynx Anterior view, posterior view, side view and sagittal section.		
40. Model of larynx deep side view.		1



41. Model of pharynx and larynx sagittal section	
42. Model of human eye in socket vertical section showing muscle optic nerves, orystalline lens, iris	s.,
cornea etc. Dissectable in 7 parts. 43. Model of eye approximately 5 times life—size, this finely pointed and numbered fiberglass divid	dest
into 7 parts: 2 parts outer eye, Retina and vitreous humor, 2-parts choroid, lens and cornea, 18 numbered key, Nize 7lx4lx4l.	
44	
Model of ear large size showing external, Middle and Inner ear	
dissectable in four parts.	
45.	
Model of ear sagittal section extra large and detailed mode: all	
major structures & the temporal home and a section of the auditory	
canals are removed.	
46. Model of six times enlarged made from venyl rubber(Natural look)	
47. Nasal cavity and phary nx sagittal section viewed from medial side.	
Charts Size: - 20" x 26", Laminated and attached with durable strips. Anatomy charts 1. The Muscular system 2. The nervous system 3. The autoromic nervous system 4. The vacular system 5. The lymphatic system 6. The respiratory system 7. The female reproductive system 8. The male reproductive system	
9. The digestive system	
10. The urinary tract	
11. The endocrine system	
12. The liver	
13. The spinal nerves	
14. The hair	
15. Hip & Knee	
16. The produte	

21. Clinically important blood vessel and nerve pathways Size: 20" x 26"

17. The ear

18. Pharynx and larynx

20. Foetal circulatory system

19. Portal system



43. Development of body cavities -II Size: 20" x 26"



4. Formation of cardiac	loop Size: 20" x 26"
5. Development of sinu	s venosus Size: 20" x 26"
6. Formation of the car	diac septa in common atrium
7. Formation of the sep	tum in Atrioventricular canal
48. Formation of septum	in ventricles
19. Development of arte	rial system
50. Circulation before ar	nd after birth
51. Stomach developme	nt
52. Liver, gall bladder a	nd pancreas development
53. Mid gut and hind gu	t development
 Pronephros, mesone kidney. Development of ma 	phros & metanephros & molecular regulation of the
\$	
56. Development of Fer	nale genital system
57. Development of res	piratory system
58. Development of har	nd
59. Development of ne	ek
60. Development of ear	
61. Development of ey	e Digital Charts on Histology:
Size: 12" x 18"	
62. Different types of e	pithelia in selected organs
63. Endochondral ossif formation (from cartill of formed bone.	ication, illustrating the progressive stages of bone age model to bone) and including the histology of a section
64. A section of brain	and spinal cord with meninges.
65. Comparision (Tran types of capillaries	sverse section) of a muscular artery, large vein and three
66. Location and distri	bution of lymphoid organs and lymphatic channels in the

67. Different types of acini (serous acini, mucus acini and serous demiluons,),

different duct types and myoepithelial cells of a salivary gland)

body.



- 68. Structural differences between the wall of small intestine and large intestine, with emphasis on different layers of the wall.
- 69. A section from the liver and pancreas, with emphasis on liver lobule and the duct system of exocrine pancreas.
- 70. A sagittal section of kidney showing the cortex and the medulla with blood vessels and excretory ducts, including the pelvis and the ureter and histology comparison of the blood vessels, the different tubules of the nephron, and collecting duct.
- 71. Loose irregular and dense irregular connective tissue, adipose tissue.
- 72. Cancellous bones with trabeculae and marrow cavities; sternum (decalcified bone, transverse section) cancellous bone; sternum (decalcified bone, transverse section)
- 73. Compact bone, dried : An Osteon(Transverse section)
- 74. Smooth muscle layer of the small intestine (transverse and longitudinal sections); smooth muscle wall of small intestine (transverse and longitudinal sections)
- 75. Skeletal muscles of the tongue (transverse and longitudinal sections)
- 76. Cardiac muscle and cardiac muscle (longitudinal section)
- 77. Cerebellar cortex; molecular layer, purkinji s layer andgranular layer
- 78. Lymph node (panoramic view)
- 79. Thymus gland (sectional view) and cortex and medulla
- 80. Spleen (panoramic view), red and white pulp
- 81. Thin skin; epidermis and contents of dermis
- 82. Thick skin; superficial cell layers and melanin pigments
- 83. Tongue: taste buds,
- 84. Eosophageal stomach junction and stomach; fundus and body regions (transverse section)
- 85. Stomach; mucosa of fundus and body(transverse section)
- 86. Appendix (panoramic view, transverse section) and rectum

(panoramic view, transverse section)

87. Pancreatic islet & pancreatic islet (special preparation)

pancreas; endocrine (pancreatic islet and exocrine regions)

88. Intra pulmonary bronchus (transverse section) and terminal



bronchiole (transverse section).	
89. Section of a ureter wall (transverse section)	
90. Urinary bladder; wall (transverse section); Urinary bladder mucosa (transverse section)	
91. Hypophysis (panoramic view, sagittal section)	
Hypophysis : sections of pars distalis, pars intermedia, pars nervousa	
92. Thyroid gland: canine(general view)	
Thyroid gland follicles : canine (sectional view)	
93. Adrenal gland	
94. Prostate gland and prostatic urethra	
95. Prostate gland: glandular acini and prostatic concretions	
96. Ovary(panoramic view)	
97. Uterus : proliferative (follicular) phase	
98. Uterus : secretary phase	
99. Uterus: menstrual phase	
100. Vagina (longitudinal section)	
101. Inactive mammary gland, mamaric gland during proliferation and early pregnancy	
abryology models	AS per Requir
ssecting Instruments for cadaveric dissection 3.P.HANDLE NO.4 TO FIT BLADE 18-25	10 seat
MAYO HEGGAR NEEDLE HOLDER	
STANDARD DISSECTING FORCEPS PLAIN	
STANDARD DISSECTING FORCEPS TOOTHED	
STANDARD DISSECTING FORCEPS PLAIN	

23

24

6 STANDARD DISSECTING FORCEPS TOOTHED

7 DIRECTOR PROBE POINTED WITH TONGUE TIE

10 KELLYS HAEMOSTATIC FORCEPS CURVED

8 MALLEABLE PROBES WITH EYE

9 KELLYS HAEMOSTATIC FORCEPS ST.



11 DRESSING SCISSORS SHARP X BLUNT STRAIGHT 12 DRESSING SCISSORS SHARP X BLUNT CURVED 13 MAYOS SCISSORS STRAIGHT 14 MAYOS SCISSORS CURVED 15 HALSTED MOSQUITO FORCEPS STRAIGHT 16 HALSTED MOSQUITO FORCEPS CURVED 17 IRIS SCISSORS STRAIGHT 18 IRIS SCISSORS CURVED 19 DISSECTING NEEDLE size: 1 - 1 20 DISSECTING NEEDLE size: 2 - 1 25 Embalming machine 2 IManufacturer should be ISO certified. 2Embalming machine with its specialized noise less pump, provide suction and delivery at optimum pressure with a fluid delivery i ate of 10Litres/hr with salient features such as SS Inner tank to store fluid capacity 1 0-1 5 liters. 3. Should be fitted with rotary compression suitable for embalming the eadaver with stellate and required needle 26 Virtual Anatomy Dissection Table Provide two complete human anatomical persons, one male and one female, and divide the human body into 11 human 1 body organ systems, which are Reproductive system, Respiratory system, Lymphatic system, Cardiac system, Urinary system, Nervous system, Muscular system, Skeletal system, Digestive system, Skin system, Endocrine system. Each human body male and female whole-body anatomical model data consists of no less than 2000, all of which can be disassem bled to control the anatomical structure and composition. Cutting tool to perform the dissection n of the virtual human cadaver. Ability to per formdis section with layer by layer. Ability to change the color of the specific body part, make annotation being it free hand or text, take the screenshot or make the video of the whole class session by recording the screen it self. At lasfeatureavail able to search for as pecific body partand displayed nthe X-Ray of the Virtual Human Cadaver with Animation of the pumping heart with the blood flow and ability to have the viewin Sagittal, Coronal and Transverse Anatomical models, including head, chest, abdomen, back, pelvis, shoulders, arms, elbows, forearms, wrists, palms, thighs, knees, legs, ankles, and soles, a total of 16 groups of high-definition 3 Dhuman anatomy. Three-axis view of human anatomy, which means 3D, sagittal plane (X), transverse plane (Y), coronal plane (Z), which is convenient for view in gthe currentaxis, and the depth of the slice can be adjusted by dragging adjustable from X-ray system, under any 11 organs, you can observe the relative position of the X-ray to the human body, and adjust the value from 0% to 100% to deep enordilute the X-ray picture, which is convenient for teach in gandex plaining the Pre-Installed quizzes with more than 8000 questions and chance to design the quizzes according to the user's requirement.Virtual Endos copeton a vigate through the holloworgans of the virtual human cada verwith 108 real endos copic videos.Radiological viewer with the ability to connect to the PACS of the hospital. Impor tall kinds of DICOM data including the BCD format. 400pre-installedrealcaseexamplesforthepresurgicalplanningfortheeducationalpurposeonlywiththeappropriateradiologicalmeasurementtools and alsopre-Ability to re-construct the 2DDICOM data to 3D formatinless than 15 seconds with the algorithm for automorphism of the property of the propesegmentationforbetterunderstanding. Histopathology Atlas with more than 350 real case examples separated in respective areas.Theimageformatisultra-highdefinitionof20,000x20,000pixels. Image reading format: supports *.svs, *.jpg, *.png, *.tif, *.bmp and other image format files. Video reading format: supports *.mkv, the support is the support of the support is the suTheimagescanbedigitallyamplifiedtouptomaximumof20X. The image enhancement to olbar like brightness, contrast, sharpness, etc.



	65inchesUHDdisplaywith3840x1080pixelswiththeabilityto convertfromhorizontaltoverticalposition. Inteli9,32GBRAM,8TB HDDwith1TBSSD.	10
	Plastic tank for storing soft and dissected parts Bones (Articulated) Original human bones, from single source, articulated scientifically as per the place ment of the bone in the human body. Proper syn the ticmaterials must have been put in the joint spaces. It must be certified by an Anatomist. body. Proper syn the ticmaterials must have been put in the joint spaces. It must be certified by an Anatomist. Note: The original human skeleton supplier has to furnish license or permission issued by the Govt. Statutory body and has to furnish authorization to the bidder to submit bid and quote in the tender, however sole authorization is not	3
	applicable for this item. Bones (Dis - Articulated) Original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human Original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human Original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human Original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human Original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human Original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human Original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human Original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human original human bones, from single source, dis-articulated scientifically as per the placement of the bones in the human original human skeleton supplier has to I furnish license or permission issued by the Govt. Statutory body and has to furnish authorization to the bidder to submit bid and quote in the tender, however sole authorization is not	-
	applicable for this item.	110
	Specimen (wet)	150
-	Jar	

DEPARTMENT OF PHYSIOLOGY

	Name of the Items	Specification	No. of items
0.	Name of the rems	interpret location	3
0.	Demonstration eye piece	With Pointer to pin-point exact location	3
2 Double demonstration eye piece		i. Both Horizontal & Vertical Eyepiece with IOX magnification ii. With Pointer to pin-point exact location	
	Tuning fork time marker 100/sec	Metal Frequency 100/sec	2
	Charles and the second	i. Size/Dimension 32cm x 23cm x 22cm	2
,	Electrodes	ii. Channels —2 iii. LCD Display iv. Type of 10 Units Combination	
	0.111	Of 2 pieces with wicks and cover cap	2
5	Spirit lamps	Stainless Steel Capillary Lever, 18 mm diameter	2
6	Marey's tambour	Charting the Field of Vision with Stand, Metal	10
7	Perimeter Priestly Smith S/LP.984 B & T	Arg Chin Rest & Chart Paper etc.	
8	Venous pressure apparatus	i. Manometer Tube with Graduationfrom -4 cm to + 34 cm and attached to Three-way Tap ii. Provided with 120 cm long extension tube, fitted with female luer lock one end and male lock on other end iii. Latex free injection site for medication iv. Sliding Indicator to record previous reading v. Moulded Clamps with Latex-free Rubber Strings for fixation vi. Sterile, individually Packed with Peclable Pouch	1
9	Gas analysis apparatus, Halden's student type	Halden's Student Type; Power Supply — 240 VAC; Color - White; Automation Grade Semi Automatic	
10	Van Slyke's apparatus manometric	Table Top Model; 170.0 cm black electrical cold,	1
11	i z t "cisalle	adjustable 90.2 cm metal rod Material MS; Frequency 50 Hz; Voltage 230V;Power	2
	driven)	Source Electric Therapy mode G, IG, F, SF; Pulse duration 0.01,	2
13		0.02 0.1 0.3 1.3 10 100	2
1	3 Electromagnetic time marker	Size 10 cm x 10 cm bag; Colour Bright and Assorted colour	



		Material Plastic; Shape Oval; Colour Blue		1
14	Douglas bag, complete	Weight 5 kg; Material Stainless Steel		10
15	Mosso's Ergograph	·	d Cmain scale INU IIIII /- 10/9.	
16	Clinical thermometer	Scale small division within 0.5° centigrade, Bulb len within 10 - 25 mm; Stem diameter; within 5.5 — 8 m		
17	Compass aesthesiometer	Material Stainless Steel; Number of Items 1, 1 at		30
18	Thermo-aesthesiometer	Horse hair carried in a holder; Hair length adjustable with graduated tube and protective cap		30
19	Algometer	Dial type (analogue); High precision and resolution; Connectivity and software for Digital Model with in rechargeable battery)	(PC built	25
20	Apparatus for passive movement	Target Body Part Elbow; Knee operation; Mode Electrical; Fixation Hold Time 0-9 Second; Treatmen Timer 0-99 min; Flexion Angle 5-120 degree; Input Voltage 220 V	nt	1
21	Knee hammer	Style Taylor Model		30
22	Stethograph	Kymograph Mary's Tambour; Corrugated Rubber Tule Connecting Rubber Tube	be;	25
23	Bicycle Ergometer	Type of Bicycle Upright; Input Analogue Control; Start Signal Heart Rate; Blood Pressure ECG Alarm Output; Work load Pedaling Speed Step marker; Power Supply 110-240 V; 50-60 Hz; Power Consumption 100 VA; Safety standard Class I, CE; Operation Mode Mechanical; Maximum User weight 150 Kgs; Pre-set Programs; 12 programs Size for screen		1
24	Olfactometer	and console; Size 13 x 17 inch; LED with printer Material Glass; Shape Triangular; Pattern Plain; Thickness 4-6 mm	1	
25	Schematic eye	Giant Eye Model; Material PVC		
26 27	Perimeter with chart (Lister's)	Diagnostic Instrument; Voltage 220 V; Power source	2	
28	Colour perception lantern Edridge green Maddox rod	Material Stainless Steel	1	
.0	Maddox rod	Red/White/Green rim and amp; copper handle; Length	1	
29	Newtons colour wheel	70 mm Electric Motor Color Mix	1	
30	Tuning fork to test hearing 32-10000 cps(sets- 100, 256, 512	Finish Type Mirror Finish; Material Stainless Steel	1	
31	Dynamometer	Real-time Mode; Peak/Max Mode; Average Mode; Counting Mode; Integrated AUTO OFF function after I minute; Material Aluminum; Display Transformation after I	30	
32	Stop watch	Exercise Equipment Temperature 80° C Timing Range 999 min (Displayed as 999.00.0); Accuracy 0.1 second; Time Displayed mmm ss ts;	15	
33	Myograph stand	Sperational Keys START STOP & DECET		
4	Electronic stimulator	With Stand		
		Housed with ABS modeled cabinet; Microprocessor Controlled Pulse Duration 0.3, 1, 10, 30, 100, 300 ms; Pulse Repetitive Frequency 0.3, 1, 3 seconds; Intensity Variations 0-130 Volts; Protection Class-I Complies with IEC 601-1 Option for built-in	1	
35	Thermometers	recting geable batteries		
36	Balances	Mercury Type Capacity 600 gm; Accuracy 0.01 mg; Type of weight scale Digital; Power 10 watts; Operating Temperature	As Re	quired

		15-40 degree centigrade; Memory Function No; Battery Life No;	
37	Micro slides		
38	Glassware	Different types of Beakers	
39	Wright's Peak flow meter	Lower range minimum wright PFM (30-40 ppm) with sterilizable mouth piece	1
40	Snellen's Chart	Working distance 20 feet (6.1 meter); Size 23 x 35.5 cm; Polypropelene natural white sheet, appox. Thickness 0.8 to 1.0 mm; Multilingual instruction	2
1	Double Oxalate 250 Mg		10 Bottles
2	EDTA Powder 500 MI		2 Bottles
3	Rectified Spirit 400 MI		50 Bottles
4	xylene 500 Ml		10 Bottles
			50 Bottles
5	Distilled Water 5 L		50 Bottles
6	N/IO HCI500 MI		
17	Cedar Wood Oil 25 Ml		20 Bottles
8	RBC Diluting Fluid 500 Ml		50 Bottles
9	WBC Diluting Fluid 500 MI		50 Bottles
0	Leishman's Stain 250 MI		50 Bottles
1	Antisera A+B+D 10 MI		10 Packets
2	Cardiac Jell		1 Bottle
3	2% Solution Of Methylated Spirit		
4	Dish washing powder		5 kg
5	Naphthalene		5 kg
6	Hand wash 500 MI		100
7	Sodium Citrate 3.8% 500 Ml		1
8	Filter Paper		100
9	Wash Bottle		100
0	Dropping Bottle 60 Ml		100
1	Cotton 400 Gm		100 Pieces
2	Microscope Glass Slide		200 Packets
3	Needle 24		500 Pieces
4	Cover Slip		10 Packets
5	Watch Glass/Petri dish		100
6	Stirrer		100
7	Glass Rod		50
8	Capillary Tube		200
9	Pasteur Pipette With Teats		12
1	Westergen's Pipette With Stand		5
2	Wintrobe's Tube With Stand Enamel Tray 8" * 6"		20
3	Enamel Tray 8" * 6" Enamel Tray 12"		100 Pieces
14	Enamel Tray 12" Enamel Tray		6 Pieces
15	Measuring Tape		6 Pieces
76	Alcohol 400 MI		50 Bottles

DEPARTMENT OF	F BIOCHEMISTRY	



1 Themmeter 0-250 degrees Celsius	1	Serial No.	Name of the items	Specification	Paci	cing (
3 ACCUPENSE BOTTLE TOP DISPENSER 1 - 10ML			Thermometer 0-250 degrees Celsius	degreecelcius ii. Made of Glass iii. 30 cm long with plastic case iv. Quality printing on the body	Eac	h
TEST TUBES WITH RIM 15 X 150 MM		2	Vacutainer Tube		pkt of	100
TESTAND 31-16mmCOL		3	ACCUPENSE BOTTLE TOP DISPENSER 1 - 10ML		pkt of	1 1
5 TT.STAND 31-16mmCOL pkt of 4 50 6 Test Tube holder Each 100 7 CYLD: GRAD WITH POUR OUT CLB' 100ML Each 5 8 CYLD: GRAD WITH POUR OUT CLB' 250ML Each 5 9 CYLD: GRAD WITH POUR OUT CLB' 500ML Each 5 10 CYLINDERS MEASURING B CLASS I L Each 3 11 FUNNELS PLAIN LONG STEM 60° 50 MM Mercury Filled: Range 0-250 degree Celsius ii. 30 cm long with plastic case iv. Quality printing on the body of thermometer MM Each 5 12 FUNNELS PLAIN LONG STEM 60° 100 MM Mercury Filled: Range 0-250 degree Celsius iii. 30 cm long with plastic case iv. Quality printing on the body of thermometer MM Each 5 13 100ML Each 50 14 FLK: ERLENMYR.CONICAL. GRAD. Each 50 15 FLK ERLENMYR.CONICAL. GRAD. Each 50 16 FLK ERLENMYR.CONICAL. GRAD. Each 50 15 FLK ERLENMYR.CONICAL. GRAD. Each 50 16 FLK ERLENMYR.CONIM GRADUATED-500 ML Each 5	-	4	TEST TUBES WITH RIM 15 X 150 MM		Each	20
6 Test Tube holder Each 100 7 CYLD: GRAD WITH POUR OUT CLB' 100ML Each 5 8 CYLD: GRAD WITH POUR OUT CLB' 250ML Each 5 9 CYLD: GRAD WITH POUR OUT CLB' 500ML Each 5 10 CYLINDERS MEASURING B CLASS I L Each 3 11 FUNNELS PLAIN LONG STEM 60° 50 MM Mercury Filled: Range 0-250 degree Celsius Each 5 12 FUNNELS PLAIN LONG STEM 60° 100 MM Mercury Filled: Range 0-250 degree Celsius Each 5 13 BERLYNEMEYER FLASKS, CONICAL, GRAD. Each 5 14 FLK: ERLEMYR.CONICAL, MY 250 ML Each 50 15 FLK ERLENMYR.CONICAL, MY 250 ML Each 50 16 FLK ERLENMYR.CONICAL 1000 ML Each 5 17 BEAKERS LOW FORM WITH SPOUT DB GR 250 Each 10 18 BEAKERS LOW FORM WITH SPOUT DB GR 250 Each 10 19 BEAKERS LOW FORM WITH SPOUT DB GR 500 Each 10 19 BEAKERS LOW FORM WITH SPOUT DB GR 10 <td< td=""><td></td><td>5</td><td>TT.STAND 31-16mmCOL</td><td></td><td>Sexual de la constitución de la</td><td></td></td<>		5	TT.STAND 31-16mmCOL		Sexual de la constitución de la	
CYLD: GRAD WITH POUR OUT CL'B' 100ML	6				-	
S	7		CYLD: GRAD WITH POUR OUT CL'B' 100ML			
9 CYLD: GRAD WITH POUR OUT CLB: 500ML Each 5 10 CYLINDERS MEASURING B CLASS I L Each 3 11 FUNNELS PLAIN LONG STEM 60° 50 MM Mercury Filled: Range 0-250 degree Celsius ii. Made of Glass iii. 30 cm long with plastic ease iv. Quality printing on the body of thermometer MM 5 12 FUNNELS PLAIN LONG STEM 60° 100 MM ii. Mermometer MM Each 5 13 ERLYNEMEYER FLASKS, CONICAL, GRAD. If00ML Each 50 14 FLK: ERLNMYR, CONICAL, MI 250 ML Each 50 15 FLK ERLENMYR CON.NM GRADUATED-500 ML Each 5 16 FLK ERLENMEYER, CONICAL - 1000 ML Each 5 17 BEAKERS LOW FORM WITH SPOUT DB GR 100 ML Each 10 18 BEAKERS LOW FORM WITH SPOUT DB GR 250 ML Each 10 19 BEAKERS LOW FORM WITH SPOUT DB GR 500 ML Each 10 20 BEAKERS LOW FORM WITH SPOUT DB GR 10 ML Each 10 21 PIPETTE-PASTEUR-230MM 230MM 10 22 BOTTLES REAGENT SCREW CAP GR 250 ML Each 5	8	'	CYLD: GRAD WITH POUR OUT CL'B' 250ML			10.76
10 CYLINDERS MEASURING B CLASS I L	9	(CYLD: GRAD WITH POUR OUT CL'B' 500ML		- Spanish Mark	5
FUNNELS PLAIN LONG STEM 60° 50 MM	10	(CYLINDERS MEASURING B CLASS 1 L		Each	5
Hereury Filled: Range 0-250 degree Celsius ii. Made of Glass iii. 30 cm long with plastic ease iv. Quality printing on the body of thermometer MM Each 50 Each 55 Each 55 Each 55 Each 50 Each 10	11	ŀ	FUNNELS PLAIN LONG STEM 60° 50 MM		Each	3
14 FLK: ERLNMYR,CONICAL,NM 250 MI. Each 50 15 FLK ERLENMYR CON.NM GRADUATED-500 ML Each 5 16 FLK ERLENMEYER,CONICAL- 1000 ML Each 5 17 BEAKERS LOW FORM WITH SPOUT DB GR 100 Each 10 18 ML Each 10 19 BEAKERS LOW FORM WITH SPOUT DB GR 250 Each 10 20 LTR Each 10 21 PIPETTE, PASTEUR-230MM Each 10 22 BOTTLES REAGENT SCREW CAP GR 100 ML Each 5 23 BOTTLES REAGENT SCREW CAP GR 250 ML Each 5 4 BOTTLES REAGENT SCREW CAP GR 500 ML Each 5 5 BOTTLES REAGENT SCREW CAP GR 11 Each 5 6 TUBES: CENTRIFUGE, CON BOT PLAIN 15ML Each 5 7 CENTRIFUGE TUBE, CONICAL, PLAIN-10ML Each 100	25A			ii. Made of Glass iii. 30 cm long with plastic case iv. Quality printing on the body of		
FLK ERLENMYR CON.NM GRADUATED-500 ML				STATE OF THE STATE	Each	100
FLK ERLENMEYER, CONICAL - 1000 ML	15	FL	K ERLENMYR CON NM CD + DV		Each	
17	16	FL	K ERLENMEYER CONICAL AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA		35-250	
BEAKERS LOW FORM WITH SPOUT DB GR 250 Each 10	17	BE	EAKERS LOW FORM WITH SPOUT DRICK ASS			17800
BEAKERS LOW FORM WITH SPOUT DB GR 500 Each 10	1 8	BE	AKERS LOW FORM WITH			5
BEAKERS LOW FORM WITH SPOUT DB GR 1 Each 10		MI	AKERS LOW		rach	10
21 PIPETTE,PASTEUR-230MM Each 10 22 BOTTLES REAGENT SCREW CAP GR 100 ML 230MM 10 23 BOTTLES REAGENT SCREW CAP GR 250 ML Each 5 4 BOTTLES REAGENT SCREW CAP GR 500 ML Each 5 5 BOTTLES REAGENT SCREW CAP GR 1 L Each 5 6 TUBES: CENTRIFUGE, CON BOT PLAIN 15ML Each 5 7 CENTRIFUGE TUBE, CONICAL, PLAIN-10ML Each 100	9	ML	ARERS LOW FORM WITH SPOUT DB GR 500		Each	10
21 PIPETTE,PASTEUR-230MM Each 10 22 BOTTLES REAGENT SCREW CAP GR 100 ML 230MM 10 23 BOTTLES REAGENT SCREW CAP GR 250 ML Each 5 4 BOTTLES REAGENT SCREW CAP GR 500 ML Each 5 5 BOTTLES REAGENT SCREW CAP GR 1 L Each 5 6 TUBES: CENTRIFUGE, CON BOT PLAIN 15ML Each 5 7 CENTRIFUGE TUBE, CONICAL, PLAIN-10ML Each 100	0	LTI	AKERS LOW FORM WITH SPOUT DB GR 1		Each	10
BOTTLES REAGENT SCREW CAP GR 100 ML Each 5	1				Each	10
BOTTLES REAGENT SCREW CAP GR 250 ML Each 5	2	BOT	ITLES REAGENT SCREW CAR OF			20.80
5 BOTTLES REAGENT SCREW CAP GR 500 ML 5 BOTTLES REAGENT SCREW CAP GR 1 L 6 TUBES: CENTRIFUGE, CON BOT PLAIN 15ML 7 CENTRIFUGE TUBE, CONICAL, PLAIN-10ML 8 Each 9 CENTRIFUGE TUBE, CONICAL, PLAIN-10ML	3	вот	TLES REAGENT SCREW CAR GO			
Each 5		BOT	TLES REAGENT SCREW CAP GR 250 ML			
7 CENTRIFUGE, CON BOT PLAIN 15ML Each 5 CENTRIFUGE TUBE, CONICAL, PLAIN-10ML		ВОТ	TLES REAGENT SCREW CAP GR 500 ML			5
Each 100		TUB	ES: CENTRIFUGE CON PORT			5
		CEN	TRIFUGE TUBE CONIGN.			5
			CONICAL,PLAIN-10ML		Each 10ml	100



28	BUR: BOROFLO PTFE KEYS,CL 'B' 10X0.05ML	Each	5
29	R.STAND-22X15 SIDE HOLE	pkt of 1	5
30	BURETTE CLAMP SINGLE,PP	pkt of 6	5
31	CORK BORERS,BRASS,SET OF 3,HEAVY	Each	5
32	pH indicator paper pH 1.0 - 14.0 (with colour scale)	10 bkts	5
33	Handy Pack	pkt of 1	2
34	Tripod Stand	Each	10
35	WASH BOTTLE 500ml	pkt of 6	10
36	Glass Rod	Each	10
37	Sodium hydroxide pellets EMPLURA®	500 g	1
38	Copper (II) sulfate pentahydrate EMPLURA®	500 g	1
39	Nitric acid about 69% EMPLURA®	500 ml	1
40	Ninhydrin for analysis EMPARTA® ACS	10gm	1
41	Silver nitrate EMPLURA®	25 g	1
42	Picric acid Purified	500 g	1
43	Ammonium sulfate EMPLURA®	500 g	1
44	Chlorophenol red solution	125 ml	1
45	MOLISCII s REAGENT	100 ml	1
46	Benedict's reagent (qualitative)	500 ml	1
47	BARFOED'S REAGENT	250 ml	1
48	SELIWANOFF'S REAGENT	125ml	1
49	DEXTROSE ANHYDROUS Extra Pure	500 g	1
50	D-FRUCTOSE Extra Pure	500 g	1
51	MALTOSE MONOHYDRATE 92% For Bacteriology	250 g	1
52	Sucrose (saccharose) EMPLURA®	500g	1
53	Starch soluble for analysis EMPARTA® ACS	500g	1
54	DEXTRINE WHITE	500 g	1
55	Iodine resublimed	100 g	1
56	Acetic acid glacial 99 - 100% EMPLURA®	500 ml	1
57	Sodium acetate trihydrate EMPLURA®	500g	1
58	Litmus paper Red	10 bkts	1
59	Chloroform EMPLURA®	500 ml	1
60	Sodium carbonate anhydrous EMPLURA®	500g	1
61	Potassium hydroxide pellets EMPLURA®	500g	1
62	Calcium chloride dihydrate EMPLURA®	500g	1
63	Huble's solution (For the detection of Gb 125 ml 3822.00.90 12 350	125ml	1



64	Glucose Semiautoanalyser reagent Kit	2x200ml	
65	Urea Semiautoanalyser reagent Kit	5x20ml	
66	Creatine Semiautoanalyser reagent Kit	4x60ml	
67	Cholesterol Semiautoanalyser reagent Kit	2x50ml	1
68	Triglyceride Semiautoanalyser reagent Kit	5x20ml	
69	Protein Semiautoanalyser reagent Kit	5x50ml	
70	Albumin Semiautoanalyser reagent Kit	5x50ml	:
71	Uric Acid Semiautoanalyser reagent Kit	5x20ml	-
72	Bilirubin Total Semiautoanalyser reagent Kit	4x50ml	2
73	Bilirubin Direct Semiautoanalyser reagent Kit	4x50ml	2
74	ALT Semiautoanalyser reagent Kit	5x20ml	2
75	AST Semiautoanalyser reagent Kit	5x20ml	2
76	Sulphur powder		2
77	Hydrochloric Acid		2
78	Sulphuric Acid		2
79	Hydrogen Peroxide		2
80	Strong Ammonia		2
81	Benzidine Powder		2
82	Bile Salt		2
83	Sodium Nitroprusside		2
84	Acetone		2
85	Autopipette fixed volume 100 μL with tips		5
86	Autopipette fixed volume 200 μL with tips		5
87	Autopipette fixed volume 500µL with tips		5
88	Autopipette fixed volume 1000 μL with tips		5
89	Autopipette variable volume 10 -100μL with tips		5
90	Autopipette variable volume 100 -500μL with tips		5
91	Autopipette variable volume 200 -1000μL with tips		5

SI No DEPARTMENT OF PHARMACOLOGY Name of Items Required Number Required

18 | Page

1009

	ll Pharmacy	10
	Metered Dose Inhaler	10
	Spacer	10
		10
	Rotahaler	10
١.	Nasal Spray	10
5.	Transdermal Patch	10
		10
6.	Insulin Infusion Pump	10
7.	Insulin Pen	10
8.	Manikins For Demonstration of Iv Injection, Enema, Local And Intramuscular, Subcutaneus Routes.	10
9.	Iv Infusion Set With Stand, Infusion Bottle	10
	Samples Of Dosage Formulations Including Rational & Irrational FDC, Essential Medicine	10
10.	Samples Of Dosage Formulations filefading readonal extraording	
II.C	Omputer Aided Learning Lab	
11.	Computers With Standard Configuration Connected To Internet (Operating System — 1. Windows 10 or above 2. Preferable browser — Google Chrome latest	25
	3. RAM — 16 GB	
	4. Processor- i5 or i7	
	5. hard Disk- 250 GB or above	
	. Computer Aided Learning Software (CAL) [Multiuser]	1

Department of Forensic Medicine and Toxicology

SL NO	NAME OF THE ITEMS	Specification	QUANTIT
	Anthro Cometic set including		02
	A) Folding metal rod upto 7ft B) Ostcometric board C) Craniometer D) Mandibulometer E) Goniometer		
	F) Vernier Calipers		



	G) Equipment for reporting height H) Weighing machine - Dial Human		
2	Digital pl1 meter		01
3	Refrigerator for storin chemicals	Double door 250 ltrs capacity	01
4	Slide warming table		01
5	Autopsy Dissection set		04
6	Digital BP Instrument		02
7	Stethosco e - Litmann		01
	MEDICOLEGAL WORK		
8	Cold storage for dead bodies (two body Mortuary cooler)	1. Manufacturer should be ISO certified. 2. Temperature Range: 2°C to 4°C 3. Temperature Control: Digital Micro-processor controlled 4. Temperature Display: LED / LCD Display 5. Internal & External Construction: SS 304 Grade Stainless Steel 6. Insulation: High Grade Polyurethane of thickness 60mm or more 7. Doors: Made of Steel Sheets with Magnetic Gasket & External Lock 8. Trolleys: Made of Steel and sliding on telescopic rails 9. Defrosting Type: Automatic 10. Evaporator: Internal evaporator system forced draught 11. Internal drainage: Required 12. Integral temp gauge: Required 13. Refrigeration System: Air cooled hermetically sealed compressor, CFC Free, ISI marked 14. Air Circulation: Forced Air Circulation 15. Alarm: High / Low alarm system 16. Internal Lighting: Waterproof fluorescent ceiling lamps/LED light 17. Locking System: Standard Key Locks 18. Power Supply: 220 Volts / 50 Hz, Single Phase 19. Other required accessories: Copper Stabilizer (150-280V), Loading Trolley, SS Body Tray, Data Logger,	02

	Weighing machine for dead bodies	Technical Specification:-	02
		• floor level – 200 kg.	
		Digital display	
		SS 304 grade construction	
		Complete ss platform for easy cleaning and	
		anti-staining	
		Platform size 2100 mm x 600 mm approx	
		Accuracy 20 gms.	
		Rechargeable battery back-up pack provided for usage in power failure	
10	Weighing machine for organs		01
11	Weighing machine for fetus		01
12	Autospy tables- with hot and cold waters stem	1.Table Top Stainless steel, Type 304, Satin Finish Should have dissecting area and sink	02
		2.Dissecting Area Should have Grid Plates	
		3.Sink Should have Hydro-aspirator with reverse flow features and should have hot/cold water fixtures with wrist blade handles and gooseneck.	
		4.Vacuum Breaker	
		5.FaucetsShould have sink rinse with hose fittings and hose hanger	
		6.Table Pedestal Stainless steel, Type 304, satin finish Pedestal Type	
		7.Ventilation: Down draft ventilation system	
		8.Electrical receptables: GFCI Type 220-240 volts, AC 50 Hz	
		9.Disposer Unit Should have Solenoid valve, vacuum breaker with off/on switch control and internal overload protector 1/2 to 3/4 HP motor.	
		10.Dimensions: 250-260 cm (Length) x 75-80 cm (Width) x 80-100 cm (Height)	
		11.Polyurethane Head Rest : Must be able to support neck while dissection.	
		12.Stainless Steel Centimetre Scale : Must be engraved type	
		13.Scale Support Socket : Must be able to hold the scale support bar steadily.	

		14. Scale support Bar: Must be able to hod! the dial type weighing scale.	
		15. Weighing Scale: Dial Type: Must measure upto 5 kg.	
		16.Polyurethane Dissecting Board: 2 feet x 1 1/2 feet x 3/4 inch, grained surface, white.	
		17.Power Supply: power input to be 220-240 VAC, 50 Hz fitted with indian plug.	
		18.Standards, Safety and Training:	
		Should be European CEapproved product Manufacturer should have ISO certification for quality standards.	
13	Stryker Type Autopsy saw with accessories		02
14	Hack saw with blades		02
15	Brain knives		02 + 0
	A) Pointed B) Blunt		02 + 0.
16	Rib shear — left and right (Doyens		02
17	Tooth extractor		
18	Measuring tape — steel tape roll		02
19	Magnifying lens		02
20	X-Ray view box		02
	A) 4 in 1		02 + 02
	B) 2 in 1		
21	Hand set heat sealer		
22	Rectal thermometer		01
23	Infrared thermometer		02
24	Instrument trolle		02
25	Stop watch		02
	MUSEUM		02
26	Cylindrical glass jars (2 litres capacity	3	
27	Rectangular glass jars 5 litres capacity		10
_	Flex charts 3' x 2'with binding		10
29	Formalin		15
		20	litres

30	Glycerine	5 litres
	GLASSWARES	
31	Glass slides	2 ackets
32	Cover slips	1
33	Test tubes	20
34	Spirit LAMP	05

DEPARTMENT OF PATHOLOGY

SI. No.	Name of the items	Specification	Qty in No
1.		Stopwatch reading by 1/5 second	5
••	Stop watching reading at %second	Taken and a transfer of the second se	50
2.	Staining jars for slides	12 set Glass Jar	30
3.		100 ml	20
	Graduated cylinders for various	250 ml	
	capacities ranging from 100 cc to 1000 cc	500 ml	
		1000 ml	
4.		100 ml	20
	Stop watching reading at %second Staining jars for slides Graduated cylinders for various capacities ranging from 100 cc to 1000 cc Reagent bottles Dropping bottles Reagents Morbid Histology and Morbid Anatomy Digital automatic camera > 5 megapixel Coplin jars Balance for chemicals with weights	125 ml	
	Reagent bottles	250 ml	
		500 ml	20 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30
		1000 ml	
5.		100 ml	20
	Dropping bottles	125 ml	
6.	Reagents	H & E Papaniculao Leishman Diff-Quik MGG Stain	
7.	Morbid Histology and Morbid Anatomy		
8.	Digital automatic camera > 5 megapixel		1
9.	Coplin jars		
10.	Balance for chemicals with weights		2
IV.	Microscopes	i) LED Binoculor with Plan Acromat4x, lox, 100x(oil) ii) Inbuilt Battery Backup. iii) Eye piece: IC) x FOV 20 mm. iv) Condenser: 1.25 NA	



11.	For Diagnostics and Research work	vi) Quadruple with inward tilt Trinoccular head microscope with Bright field, Dark field,Fluorescent and Polarizing facility, High end apochromatic lenses with camera with ultra HD TV > 52 inches and screen including software capable of bright field and immunofluorescence photography connectivity to projector and LED TV (atheist 55 inches Ultra HD	1
12.	Deca head Microscope with High end optics with HDMI multi output photographic camera (> 5MP) including software	With high end Optics with HDMI Multi output Photographic camera	1

Department of Microbiology

SI No.	Name of the item	Company	Unit
1.	Incubator electrical (large) (37 degree Celsius)	Yorco	4
	Technical Specification:-		
	GENERAL	1	
	1 USE	1	
	1.1 Clinical purpose: The incubators are used in laboratories to	1	
	provide a controlled, contaminant-free environment for safe, reliable		
	work with cell and tissue cultures by regulating conditions such as		
	temperature, humidity, and CO2. Microbiological incubators are		
	used for the growth and storage of bacterial cultures.		
	1.2 Used by clinical department/ward Clinical labs		
	TECHNICAL		
	2 TECHNICAL CHARACTERISTICS		
	2.1 Technical characteristics (specific to this type of device)		
	Performance Parameters		
	Purpose: Bacteriological incubator are used for the incubation of		
	biological products under controlled conditions		
	Type of Incubator : Bacteriological Incubator		
	Capacity in liters : Minimum 40liters		
	Material of Inner Chambers: SS 304		
	Material of Outer Chamber: CRCA (powder coated point) Steel		
	Ambient Temperature in °C: 5°C above ambient to 60 °C		
	(Bacteriological Incubator)		
	Temperature Accuracy in °C: ±0.5°C		
	Temperature Uniformity in °C: ±2°C		
	Insulation: Glass wool		
	Controller: Microprocessor based PID control		
	Digital Display of temperature in °C : Yes		
	Type of Display: LED		
	Type of Temperature sensor: PT100		
	Power supply: 220 V, 50 Hz Single Phase		
	Door: Insulated door and fitted with heavy hinges and should have		
	Toughened glass window Air circulation fan	1	
	Type of Shelves: Removable		
	Material of Shelves : SS wire mesh		
*)	Number of shelves :2		
	Over temperature protection: Yes Safety alarm system : Yes		





	Instruction manual to be provided : Yes		
	Warranty in Years : 1		
	Standards No. 6 to 10 to		
	Manufacturer should have ISO13485 certification: Yes		
	Copies of all certifications and reports to be provided to buyer on	1	
	demand at time of supplies: Yes Product should be CE/BIS		
	approved ENVIRONMENTAL AND DEPARTMENTAL		
	CONSIDERATIONS		
	A)1)Operating condition: Capable of operating continuously in		
	ambient temperature of 10 to 50 deg C and relative humidity of 15		
	to 90% in ideal circumstances.		
	2)Storage condition: Capable of being stored continuously in		
	ambient temperature of 0 to 50 deg C and relative humidity of 15 to		
	90%."		
	B) User's care, Cleaning, Disinfection & Sterility issues		
	1)Disinfection: Parts of the Device that are designed to come into		
	contact with the patient or the operator should either be capable of		
	easy disinfection or be protected by a single use/disposable cover.		
	2) Sterilization not required."		
	STANDARDS AND SAFETY		
	1. Should be FDA/CE/BIS approved product.		
	2. Manufacturer and Supplier should have ISO 13485 /ICMED		
	13485 certifications for quality standards.		
	3. Electrical safety conforms to the standards for electrical safety		
	IEC 60601-General requirements (or equivalent BIS Standard) Calibration certificate from a NABL accredited lab.		
	Cambradon cerdificate from a NABL accredited (ab).		
2.	Autoclave	Yorco	3
	Overview		
	Autoclave is used to sterilize all surgical equipment, Pharmaceutical		
	accessories, Lab instrument needing Sterilization power of steam is		
	used to kill bacteria, spores, and microbes Resistance to boiling		
	water. Steam is heated to 121°C which is above the boiling point of		
	water which is 100°C and very effectively sterilized the item.		
	water which is 100 C and very effectively sterilized the femi.		
	Yorco Autoclave Vertical is a double Wall electrical High Pressure		
	Steam Sterilizer, most suited for Sterilizing OT instruments, S.S.		1
	ware glassware and other Hospital items. Entire Construction is of		
		1	
	superior Stainless Steel grade 304. Thick S.S 304 plate die pressed		1
	superior Stainless Steel grade 304. Thick S.S 304 plate die pressed		
	tightened by peripheral wing nuts and gasket is superior joint less,		
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene.		
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene. Water level indicator, pressure safety valves, water inlet and drain		
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene. Water level indicator, pressure safety valves, water inlet and drain valves are standards. Pressure rating is 10 to 20 PSI adjustable and		
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene. Water level indicator, pressure safety valves, water inlet and drain		
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene. Water level indicator, pressure safety valves, water inlet and drain valves are standards. Pressure rating is 10 to 20 PSI adjustable and	5	
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene. Water level indicator, pressure safety valves, water inlet and drain valves are standards. Pressure rating is 10 to 20 PSI adjustable and Hydraulic testing is done at 40 PSI, which is double the rated PSI. Used for sterilization under saturated steam pressure at 15 PSI these are double walled units with inner chamber made of thick stainless		
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene. Water level indicator, pressure safety valves, water inlet and drain valves are standards. Pressure rating is 10 to 20 PSI adjustable and Hydraulic testing is done at 40 PSI, which is double the rated PSI. Used for sterilization under saturated steam pressure at 15 PSI these are double walled units with inner chamber made of thick stainless steel and outer chamber made of stainless steel. Lid is made of thick	-	
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene. Water level indicator, pressure safety valves, water inlet and drain valves are standards. Pressure rating is 10 to 20 PSI adjustable and Hydraulic testing is done at 40 PSI, which is double the rated PSI. Used for sterilization under saturated steam pressure at 15 PSI these are double walled units with inner chamber made of thick stainless steel and outer chamber made of stainless steel. Lid is made of thick gauge stainless steel with pressure gauge steam release valve and	ā	
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene. Water level indicator, pressure safety valves, water inlet and drain valves are standards. Pressure rating is 10 to 20 PSI adjustable and Hydraulic testing is done at 40 PSI, which is double the rated PSI. Used for sterilization under saturated steam pressure at 15 PSI these are double walled units with inner chamber made of thick stainless steel and outer chamber made of stainless steel. Lid is made of thick	5.	
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene. Water level indicator, pressure safety valves, water inlet and drain valves are standards. Pressure rating is 10 to 20 PSI adjustable and Hydraulic testing is done at 40 PSI, which is double the rated PSI. Used for sterilization under saturated steam pressure at 15 PSI these are double walled units with inner chamber made of thick stainless steel and outer chamber made of stainless steel. Lid is made of thick gauge stainless steel with pressure gauge steam release valve and	ā	
	tightened by peripheral wing nuts and gasket is superior joint less, moulded Neoprene. Water level indicator, pressure safety valves, water inlet and drain valves are standards. Pressure rating is 10 to 20 PSI adjustable and Hydraulic testing is done at 40 PSI, which is double the rated PSI. Used for sterilization under saturated steam pressure at 15 PSI these are double walled units with inner chamber made of thick stainless steel and outer chamber made of stainless steel. Lid is made of thick gauge stainless steel with pressure gauge steam release valve and		

These are designed principally to destroy Bacteria, Viruses, Fungus and Sterilize Surgical & Dental Instruments. Glass wares etc. by application of dry heat at temp. ranging between 140°C to 200°C as per IS 3119. Construction: Hot air ovens are sturdy, with double walled construction. Inner chamber is made of Highly Polished Stainless Steel. Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring - loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Hot Air Sterilizer (Oven) Features: Heating Element: Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control: Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation: - Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
Automation Grade. Fully Automatic. Brand. YORCO. Approval Certificate. ISO 9001 2008. Temperature Range. UPTO 140. Pressure Range. 10 TO 20 PSI. 3. Hot Air Sterlizer These are designed principally to destroy Bacteria, Viruses, Fungus and Sterilize Surgical & Dental Instruments. Glass wares etc. by application of dry heat at temp. ranging between 140°C to 200°C as per IS 3119. Construction:—Hot air ovens are sturdy, with double walled construction. Inner chamber is made of Highly Polished Stainless Steel. Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring—loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Hot Air Sterilizer (Oven) Features:— Heating Element:—Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control:—Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation:—Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
Brand. YORCO. Approval Certificate. ISO 9001 2008. Temperature Range. UPTO 140. Pressure Range. 10 TO 20 PSI. 3. Hot Air Sterlizer These are designed principally to destroy Bacteria, Viruses, Fungus and Sterilize Surgical & Dental Instruments. Glass wares etc. by application of dry heat at temp. ranging between 140°C to 200°C as per IS 3119. Construction: Hot air ovens are sturdy, with double walled construction. Inner chamber is made of Highly Polished Stainless Steel. Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring - loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Hot Air Sterilizer (Oven) Features : Heating Element :- Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control: Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation: - Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
Approval Certificate. ISO 9001 2008. Temperature Range. UPTO 140. Pressure Range. 10 TO 20 PSI. 3. Hot Air Sterlizer These are designed principally to destroy Bacteria, Viruses, Fungus and Sterlilize Surgical & Dental Instruments, Glass wares etc. by application of dry heat at temp. ranging between 140°C to 200°C as per IS 3119. Construction: Hot air ovens are sturdy, with double walled construction. Inner chamber is made of Highly Polished Stainless Steel. Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring - loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Hot Air Sterilizer (Oven) Features:— Heating Element:—Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control:—Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation:—Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
Temperature Range. 10 TO 20 PSI. 3. Hot Air Sterlizer These are designed principally to destroy Bacteria, Viruses, Fungus and Sterlilize Surgical & Dental Instruments, Glass wares etc. by application of dry heat at temp. ranging between 140°C to 200°C as per IS 3119. Construction: - Hot air ovens are sturdy, with double walled construction. Inner chamber is made of Highly Polished Stainless Steel. Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring - loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Hot Air Sterilizer (Oven) Features:— Heating Element:— Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control:— Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation:— Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
3. Hot Air Sterlizer These are designed principally to destroy Bacteria, Viruses, Fungus and Sterilize Surgical & Dental Instruments. Glass wares etc. by application of dry heat at temp. ranging between 140°C to 200°C as per IS 3119. Construction: Hot air ovens are sturdy, with double walled construction. Inner chamber is made of Highly Polished Stainless Steel. Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring - loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Hot Air Sterilizer (Oven) Features: Heating Element:- Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control:- Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation:- Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
These are designed principally to destroy Bacteria, Viruses, Fungus and Sterilize Surgical & Dental Instruments. Glass wares etc. by application of dry heat at temp. ranging between 140°C to 200°C as per IS 3119. Construction: Hot air ovens are sturdy, with double walled construction. Inner chamber is made of Highly Polished Stainless Steel. Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring - loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Hot Air Sterilizer (Oven) Features:— Heating Element:— Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control:— Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation:— Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
These are designed principally to destroy Bacteria, Viruses, Fungus and Sterilize Surgical & Dental Instruments. Glass wares etc. by application of dry heat at temp. ranging between 140°C to 200°C as per IS 3119. Construction: Hot air ovens are sturdy, with double walled construction. Inner chamber is made of Highly Polished Stainless Steel. Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring - loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Hot Air Sterilizer (Oven) Features: Heating Element:- Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control:- Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation:- Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
and Sterilize Surgical & Dental Instruments. Glass wares etc. by application of dry heat at temp. ranging between 140°C to 200°C as per IS 3119. Construction: Hot air ovens are sturdy, with double walled construction. Inner chamber is made of Highly Polished Stainless Steel. Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring - loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Hot Air Sterilizer (Oven) Features: Heating Element:- Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control:- Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation:- Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	2
construction. Inner chamber is made of Highly Polished Stainless Steel. Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring - loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Hot Air Sterilizer (Oven) Features: Heating Element:- Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control:- Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation:- Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
Heating Element: - Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control: - Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation: - Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
Imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature Control:- Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation:- Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
digital temperature controller-cum-indicator, provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications. Ventilation: Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.	
ventilate, gases and fumes if any.	
Control Panel: The equipment is provided with a panel having a digital temperature control knob. ON/OFF switch, two pilot indication lights and provision for fixing the TIMER.	
Power Requirement :- Supplied with cord and plug. Suitable to operate on 220 V single phase, 50 Hz, AC supply.	
Should bear an ISI mark	
Company should have ISO certification	



One year warranty and guarantee		
Serum Inspissators	Yorco	2
CONTROL CONTRO		
Technical Specification	V	
•Temperature controller: Microprocessor based Auto Tune PID Digital temperature controller cum Indicator		
•Temperature range : From 5 °C above ambient to 95 °C •Temperature sensor : PT- 100		
•Control Accuracy : ± 0.5 °C		
•Display : Digital LED display		
•Heating element : Immersion type water heaters		
•Heater capacity: 3.0 KW		
•Insulation: Glass wool insulation between inner chamber and exterior body to avoid thermal loss		
•Control panel: Consists of Mains switch, pilot lamp, Control switch and Temperature controller		
•Operates on: 230 Volts, 50 Hz, AC Power supply		
Standard temperature: 85 0 C		
Operating temp. range: ambient +5 to 90 0 C.;		
• Temperature display: LED; Display resolution: 0.10 C;		
Capacity for up to 156 test tubes (16mm diameter x 150mm long) or 162		
• Tank capacity: (approx.)45 lit;		
• Heat up rate 20 to 85 c; 3.5 hours;		
• Working area: length/width: (approx.) 820/594mm;		
Overall dimensions (approx).: L/W/H: 1040/600/380mm;		
Over temperature protection: Fixed cut-out;		
Approx.weight: 25-35 kgs.		
Double walled. Inner SS 304 and outer GI.		
Full length inner glass or acrylic door for clean view.		



		1		_
	Outer metal door with magnetic gasket and lock.			
	Should bear an ISI mark			
	Company should have ISO certification			
	One year warranty and guarantee			
5.	Balance, Chemical	Wensar	2	
6.	Lovibond Comparators		1	
7.	Flasks flat bottom 50cc	Borosil	6	
8.	Microscope oil-immersion moveable stage Abbe, condenser etc.	01		
		Olympus	55	
	MICROSCOPE			1
	FRAME Body : Aluminum die-cast body with all critical			1
	movements dust oody with all critical	1		
	MICROSCOPE ED AME D			
	MICROSCOPE FRAME Body: Aluminum die-cast body with all critical movements basedon ball-bearing & wireguides thereby			
	I Comodification in the state of the state o			
	1 Jeff of munice for voore Again 14			
	1 I I I I I I I I I I I I I I I I I I I	1		
	accuracy. Micron Sensitive mechanical movements: of specimen: Enables easy		1	
	manipulation of specimen		1	
	Mechanical Stage: Co-axial low drive mechanical stage (125mm x			
	145mm) (+/-5mm) with traverse area of 50mm x 76mm (+/-5mm)			
	Focussing System: Co-axial coarse & fine focusing control (Both		1	
	and a focus adjustment and find adjustment lead			
	ergonomically designed and the system to prevent at a significant			
	problems during focus drive. The knobs ergonomically designed & the system provides			
			1	
	precision at all magnifications.			
	Condenser Holder: Rack & pinion mounted condenser holder.			
	Illumination Base: Built-in illumination base with pre-centred			
	6 v 20 w halogen bulb coupled with an efficient collector long contain			
	provide optimum brightness along the optical path. A conveniently			
	positioned silder knob enables variable light control. Efficient light			
	collector-lens system for optimum brightness. The ventilated light relay system resulting in the minimum heating of base. Meets			
	International safety standards of CE.			
	Nose Piece: The superior design Quadruple nosepiece with positive click stop based on precision ball-bearing mechanism, enables			
	r sace on precision ban-bearing mechanism, enables		1	

smooth objective change allows smooth rotation & easy access to

Sub-stage Condenser: Abbe condenser with aperture iris diaphragm,

N.A. 1.25, provided with a filter holder and blue filter.

With its compound lens system ensures that the traverse of light along the microscope's optical path is optimised. The built-in iris diaphragm enables maximum contrast of the specimen under observation.

OBJECTIVES Achromatic Objectives Made from high quality Japanses optical glass Precision engineered for parfocal & centred viewing High-grade optics with multi-layer coatings provides optimum brightness & contrast for long hours of comfortable viewing. Optics

are uniformly centered & interchangeable: in any hole of revolving nosepiece for centering & parfocality. All objectives are parfocal and parcentered to minimize refocusing. Comprehensive Anti-Fungus treatments are applied to every area, which affects the clarity of the observed images. This tropicalized treatment ensures image excellence for long periods in conditions favoring to fungus growth. Color corrected in all magnifications including high power objective, resulting in better-defined images.

INCLINED OBSERVATION HEAD (Rotatable through 360 degree) With a special antifungus treatmentWith anti-reflection optical coatings of prisms (To enhance the brightness of the image) With interpupillary distance and diopter adjustments. A unique design of observation

head consists of a special multiplayer coated beam splitter prism to ensure maximum transmittance / reflectance of light which not only. provides bright illumination but also ensure equal division of light i.e. uniform illumination in both the eyepieces for ease of observation &

eye comfort during extended usage.

EYEPIECE (WIDEFIELD) (for observation) WF 10x (F.No.18) with a special anti-fungus treatment with multi-layer coatings. The unique optical design of the compensating eyepiece, provides relief from eye fatigue and renders color-compensated wide-field images of utmost

clarity. Compatible with an optionally available eyepiece micrometer.

ISO CERTIFICATION Manufactured in ISO 9001-2008 facility. ISO from a reputed international organisation

	CE CERTIFICATION Meet CE standards for safety				
9.	Refrigerators				3
10.	Micrometer eye pieces				2
11.	Micrometger stage				2
12.	Centrifuge, electrical high power		Re	mi	2
13.	Refrigerated centrifuge		Re	mi	1
14.	Distilled water plant -Single				2
15.	Distilled water plant - Double 1.5 Ltr./Hr.		Bor	osil	
16.	Distilled water plant - Double 2.5 Ltr./Hr.		Boro	osil	
17.	Distilled water plant - Double 4.0 Ltr./Hr.		Boro	sil	
18. 19.	Oil immersion lens for students microscope				55
20.	Dropping bottle 60 ml.		Tarso	ns	500
21.	Dropping bottle 120 ml. Pneumatric trough		Farso	ns	500
22.		F	Polyla	b	11
	Anaerobic apparatus				
23.	Electrophorosis complete set				3
4.	BOD Incubator				1
5.	Laminar flow table			2	
6.	UV Lamp			1	
7.	VDRL Shaker			2	
8. 9.	Computer Unit			1	
).).	Overhead projector			1	
	Water bath serological 37°C			1	
	Water bath serological 56°C			1	
	(-) 20°C Deep Freezer			1	
	Elisa Readers dispensor and washer			1	
	Thermometer any range	Oms	000		
	Glass Graduated Pipette 10 ml.	Boros		12	
	Glass Volumetric Pipette 10 ml.				
	The second secon	Boros	11		

	Burette 10 ml with boroflow		
		Borosil	
	Beaker 100 ml.		
	Conical C. A. Conical C.	Borosil	
	Conical flask 100 ml.	D	-
).	Petridic 150, 25	Borosil	
	Petridis 150x25 mm (S Line)	Borosil	1
1.	Reagent Bottle 250 ml. with screw cap	51/4/2/08/3041	
	bottle 250 ml. with screw cap	Borosil	
2.	Reagent Bottle with stopper 2000 CC	Borosil	12
		Dorosii	12
13.	Reagent Bottle with stopper 1000 CC	Borosil	36
14.	D. A.D. A.D. A.D. A.D. A.D. A.D. A.D. A		
••.	Reagent Bottle with stopper 500 CC	Borosil	24
45.	Reagent Bottle with stopper 250 CC	Borosil	24
27.70.70	reagen bottle with stopper 250 CC	Dorosii	
46.	Reagent Bottle with stopper 100 CC	Borosil	60
47.	Reagent Bottle with stopper 50 CC with S/C	Borosil	60
48.	Test tube hard glass 150x18mm Gross	Borosil	10
	Test table many glass resolution Gross	***************************************	1 *******
49.	Test tube hard glass 100x12mm Gross	Borosil	20
	T-111 - 11 - 77 12 - C	Borosil	20
50.	Test tube hard glass 75x12mm Gross	Dorosii	20
51.	pH Determination apparatus		2
			-
52.	Distilled water plant all glass		1
53.	Binocular microscope	Olympus	2
	Menagean		
	MICROSCOPE		
	FRAME Body: Aluminum die-cast body with all critical		
1	movements		
	MICROSCORE ED IME D. I. Al., i		
	MICROSCOPE FRAME Body: Aluminum die-cast body with all critical movements basedon ball-bearing & wireguides thereby		
	ensuring smooth & precise manipulation. Enables easy manipulation Rust-free metal body with high quality paint finish to ensures		
	trouble freeperformance for years. Accuracy: Machining of components on high precision CNC machines to ensure better		
	accuracy Micron Somition machanical		
1	accuracy. Micron Sensitive mechanical movements: of specimen: Enables easy		
	Speciment. Lindoles edsy		
	manipulation of specimen		
1	Machanical Ca.		
1	Mechanical Stage: Co-axial low drive mechanical stage (125mm x		
	145mm) (+/-5mm) with traverse area of 50mm x 76mm (+/-5mm)		
	Focussing System: Co-axial coarse & fine focusing control (Both		
	and course & line locusing control (Both		
	Side) with a focus adjustment and find adjustment knobs,		

problems during focus drive. The knobs ergonomically designed & the system provides

precision at all magnifications.

Condenser Holder: Rack & pinion mounted condenser holder.

Illumination Base: Built-in illumination base with pre-centred 6V20W halogen bulb coupled with an efficient collector lens system provide optimum brightness along the optical path. A conveniently positioned slider knob enables variable light control. Efficient light collector-lens system for optimum brightness. The ventilated light relay system resulting in the minimum heating of base. Meets International safety standards of CE.

Nose Piece: The superior design Quadruple nosepiece with positive click stop based on precision ball-bearing mechanism, enables smooth objective change allows smooth rotation & easy access to specimens. Sub-stage Condenser: Abbe condenser with aperture iris diaphragm,

N.A. 1.25, provided with a filter holder and blue filter.

With its compound lens system ensures that the traverse of light along the microscope's optical path is optimised. The built-in iris diaphragm enables maximum contrast of the specimen under observation.

OBJECTIVES Achromatic Objectives Made from high quality Japanses optical glass Precision engineered for parfocal & centred viewing High-grade optics with multi-layer coatings provides optimum brightness & contrast for long hours of comfortable viewing. Optics

are uniformly centered & interchangeable: in any hole of revolving nosepiece for centering & parfocality. All objectives are parfocal and parcentered to minimise refocusing. Comprehensive Anti-Fungus treatments are applied to every area, which affects the clarity of the observed images. This tropicalized treatment ensures image excellence for long periods in conditions favoring to fungus growth. Color corrected in all magnifications including high power objective, resulting in better-defined images.

INCLINED OBSERVATION HEAD (Rotatable through 360 degree) With a special antifungus treatmentWith anti-reflection optical coatings of prisms (To enhance the brightness of the image) With interpupillary distance and diopter adjustments. A unique design of observation

head consists of a special multiplayer coated beam splitter prism to ensure maximum transmittance / reflectance of light which not only. provides bright illumination but also ensure equal division of light i.e. uniform illumination in both the eyepieces for ease of observation &



4.	Staining troughs	60
	CE CERTIFICATION Meet CE standards for safety	
	1SO from a reputed international organisation	
	ISO CERTIFICATION Manufactured in ISO 9001-2008 facility.	
	micrometer,	
	clarity. Compatible with an optionally available eyepiece	
	of utmost	
	from eye fatigue and renders color-compensated wide-field images	
	unique optical design of the compensating eyepiece, provides relief	
	EYEPIECE (WIDEFIELD) (for observation) WF 10x (F.No.18) with a special anti-fungus treatment with multi-layer coatings. The	
	EVERIECE OVIDERIES DO CO. 1	
	eye comfort during extended usage.	1

Dept, of Community Medicine

Sl.n	Name of Items	Specification	Quantity Required
	Hydrometer, milk	IS 9585 2021	2
2 to 4.	Balance for weighing food stuff (Capacity 2 Kg).	SECA 852	I
3	Salters Baby weighing machine	Neonate 235 6m (100 kg)	2
4	HarpenderCalipers (for skinfold thickness)	SFCH 80	2
5	Height measuring stand	120 cm	3
6	Smart TV 75	75 inch Android HDR 4K	1
7	Multimedia Projector with Screen or Interactive Flat Panel smart teaching board		2
8	Public Address system (2 portable for field-based activities and one each for RHTC & UHTC)		4 sets
9	Horrock's Apparatus		3
10	MUAC tapes		10



		IS 9430 1980	5
11	Haemoglobinometer	10 7 10 4	
12	Sound level meter	IS 9779 1981	3
1999	Water sampling bottle from any depth		1
13	water sampling bottle from any depart		6
14	Vaccine carrier		
15	Craft water testing kit	WK7200	1
16	Treatment kits as per national health programs		3each
17	lodine testing kit		10
18	Mosquito catching kit		1
19	Clinical Thermometer		10
20	First Aid Kit	IS 13115 1991	1

