

# DEPARTMENT OF BIO-CHEMISTRY

Sr. No.	Description
1	<p><b>FUME CUPBOARDS</b></p> <p>Construction of thick wooden board with exterior surface duly covered with laminated sheet. The work table is covered with stainless steel of 304 grade and the Table is fitted with a steel sink provided with tap connection and also a provision of water</p> <p><b>Model Available:-</b></p> <ul style="list-style-type: none"><li>a) 3Ft x 2.5Ft x 7Ft</li><li>b) 4Ft x 2.5Ft x 7Ft</li><li>c) 5Ft x 2.5Ft x 7Ft</li></ul>
2	<p><b>BOILING WATER BATH</b> - Double Wall with Lid</p> <p>Standard double wall construction, inner being of stainless steel outer of m.s. duly stoving paint finish and gap filled for temp. insulation with glass wool. Top cover with 75 mm (3") holes with concentric rings. Temp. range 5° C above ambient to 95° C controlled by a thermostat. Heating is attained by an immersion type element with accuracy of <math>\pm 1^\circ</math> C. Supplied complete with plug &amp; cord. Panel provided with pilot lamps, thermostat control knob etc. available in following sizes: -</p> <ul style="list-style-type: none"><li>a) 6 hole</li><li>b) 12 hole</li></ul> <p>Optional accessories if require with above at extra cost:-</p> <ul style="list-style-type: none"><li>i) Imported thermostat "EGO"/"JUMO" German with an accuracy of <math>\pm 0.5^\circ</math> C.</li><li>ii) Digital temp. indicator-cum controller.</li><li>iii) Microprocessor PID digital temp. indicator-cum-controller.</li><li>iv) Stirrer with 1/20 H.P. High speed motor with stainless steel stirring rod and blade.</li><li>v) Digital temp. indicator.</li></ul>

### **3 AUTOCLAVE ELECTRIC**

available in following types and sizes: -

- a) 12"x12" (All. Chamber) Single Valve
- b) 12"x12" (S.S. Chamber) Single Valve
- c) 12"x20" (S.S. Chamber) Double Valve

### **4 BALANCE OPEN PAN** - Cap. 10 mg accuracy

### **5 BALANCE SEMI MICRO** - Cap. 220 gm 1 mg accuracy

### **6 BALANCE MICRO** - Cap. 220 gm accuracy 0.1 mg (imported)

### **7 VORTEX MIXERS -TEST TUBE SHAKER**

With variable speed regulator. Useful for accelerated mixing of solutions in test tubes, small flasks or centrifugal tubes etc. The housing is 150x150 mm. The speed is regulated by a speed control device. Short eccentric stroke motor imparts vigorous agitation to the tubes or flasks. Body is strong and finished in stoving enamel paint. The equipment is workable on 220 V AC 50 Hz single phase.

### **9 CONSTANT TEMPERATURE WATER BATH**

Construction with glass windows on both opposite sides, for observation. Temperature controlled by mercury contact thermometer with a sensitivity of 0.2°C. Suitable for precision laboratory activities requiring constant temp. with high degree of accuracy. Complete with stirrer with speed control regulator workable on 220 V AC 50 Hz single phase.

Available in following sizes :-

- a) 17" x 10" x 9"
- b) 18" x 15" x 15"
- c) 24" x 18" x 18"

Optional Accessories at extra cost.

- i) Digital Temp Indicator-cum-controller instead of contact Thermometer
- ii) Microprocessor PID digital temp. Indicator-cum- controller instead of Contact thermometer.

## 10 RYLES TUBE

## 11 INCUBATOR

Available in following Sizes :-

Aluminum Chamber sizes :

- a) 12"x12"x12"
- b) 14"x14"x14"
- c) 16"x16"x16"
- d) 18"x18"x18"
- e) 24"x18"x18"
- f) 24"x24"x24"

- g) 36"x24"x18"
- h) 36"x24"x24"
- l) 36"x36"x36"

S. S. Chamber sizes :

- a) 12"x12"x12"
- b) 14"x14"x14"
- c) 16"x16"x16"
- d) 18"x18"x18"
- e) 24"x18"x18"
- f) 24"x24"x24"
- g) 36"x24"x18"
- h) 36"x24"x24"
- l) 36"x36"x36"

Optional Accessories if require at extra cost

- i) Air circulating fan.

- ii) Timer 0-24 hours
- iii) Imported Thermostat "EGO" / "JUMO" German with the accuracy of  $\pm 1^{\circ}\text{C}$ .
- iv) Digital temp. Indicator-cum-controller
- v) Microprocessor PID digital temp. Indicator-cum-controller
- vi) Digital Temp. Indicator

## 12 HOT AIR OVEN

Standard double wall fabrication. Inner chamber made of richly anodized aluminum or highly polished stainless steel sheet. Exterior fabricated out of thick mild steel sheet duly finished in stoved enamel off - white paint or pastel mat finish colour combinations. The gap between the walls is filled with special grade glasswool for heat insulation. Inner chamber is ribbed for placing shelves at convenient levels. Provided with two or three removable shelves. Special elegant door closing device has been provided. Nichrome wire heating elements provided on three sides attain quick and uniform heating in range of  $50^{\circ}\text{C}$  to  $250^{\circ}\text{C} \pm 1^{\circ}\text{C}$  controlled by capillary type thermostat. L-shaped thermometer is built in type. Control panel is provided with selector switch of high or low rates of power, thermostat control knob and indicators for main & thermostat. Supplied with cord and plug. The equipment is suitable to operate on 220 V AC 50 Hz single phase.

Available in following sizes

All. Chamber size:

- a) 12"x12"x12"
- b) 14"x14"x14"
- c) 16"x16"x16"
- d) 18"x18"x18"
- e) 24"x18"x18"
- f) 24"x24"x24"
- g) 36"x24"x18"
- h) 36"x24"x24"

l) 36"x36"x36"

S. S. Chamber Size:

a) 12"x12"x12"

b) 14"x14"x14"

c) 16"x16"x16"

d) 18"x18"x18"

e) 24"x18"x18"

f) 24"x24"x24"

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Optional Accessories if require at extra cost

i). Air circulating fan.

ii). Timer 0-24 hours

iii). Imported Thermostat "EGO" / "JUMO" German with the accuracy of  $\pm 1^{\circ}\text{C}$

iv). Digital temp. Indicator-cum-controller

v). Microprocessor PID digital temp. Indicator-cum-controller

vi). Digital Temp. Indicator

### **13 MAGNETIC STIRRER**

2 Ltr Cap, fitted with hot plate variable speed controller & energy regulator

### **14 VACCUM PUMP**

25 ltr Cap. Per Hour

a) With oil free model

b) With oil filled model portable

### **15 CALORIMETERS**

8 Filter Digital ( Table Top Model)

**16 FLAME PHOTOMETER**

With Na & K Filter Digital Model

- a) Single display
- b) Double Display

**17 THERMOMETER0 -250°C**

**18 THERMOMETER0 -110° C**

**19 CORK BORER SET OF 12 GERMAN TYPE**

**20 STOP WATCH 1/10**

- a) Digital Model
- b) Mechanical Model

**21 SPIRIT LAMP**

- a) Glass
- b) S.S

**22 CHROMATOGRAPHIC CHAMBER**

Made from fine thick wood with glass windows & lid.

**23 WATER DISTILLATION PLANT (METALLIC)**

Cap 4/5 ltr. per hr Made of S. S. jointless, wall hanging model.  
Electrical heated. Fitted with autocut element

**24 ALL GLASS DISTILLATION APPARATUS**

Available in following Capacities & Stage

- a) 3 Ltr
  - i) Single Stage
  - ii) Double Stage
  - iii) Triple Stage

- b) 5 Ltr Cap.
  - i) Single Stage
  - ii) Double Stage
  - iii) Triple Stage

**25 DESSICATORS - LARGE SIZE 8"**

- a) Glass
- b) Polypropylene

**26 DESSICATORS - SMALL SIZE 6"**

- a) Glass
- b) Polypropylene

**4"**

**27 CENTRIFUGE CLINICAL 12 TUBES**

- a) Make 8 Tubes

**28 pH METERS**

Digital, Table Top model with stand Buffer Tablets & Solution Bottles

**29 HOMOGENISER**

**30 ml/ 50 ml**

**30 MICROSCOPES**

Model Available:-

a) **Medical Microscope Monocular Model** - with 10x, 45x & 100x Objective & 10xWF, 5x Hygienic eyes pieces, mechanical stage, dust cover & packed in thermocol box

b) **Inclined Monocular Microscope** - Work on 6 V-21 watt Halogen bulb with 10x, 45x & 100x Objective & 10xWF, 5x Hygienic eyes pieces, Co-axial mechanical stage, dust cover & packed in thermocol box.

c) Wooden Box for Medical Microscope Monocular Model

d) Wooden Box for Inclined Microscope Monocular Model

**31 ULTRA VIOLET (U.V.) LAMP with fiothing**

**32 TOOLS FOR SMALL WORKSHOP-** For glass blowing and mending.

- a) Glass blowing Burner
- b) Rubber Tube

**33 BOTTLE DISPENSERS**

- a) Indian
- b) Imported

**34 SAMPLERS (AUTOPIPETTES) DIFFERENT VALUME RANGE**

**35 ELECTROPHORESIS APPARATUS WITH POWER SUPPLY FOR**

- a) Paper Horizontal
- b) Page Horizontal
- c) Page Vertical (Rod)
- d) Agarose Horizontal

**36 SPECTROPHOTOMETER (DIGITAL SPECTROPHOTOMETER)**

Digital model as per Du - Backman type supplied with Na and K filter double beam type. Range 340 to 960 nm, resolution 0.1 % T, 0.001 / abs., Output % T: 0 to 100 %, Abs: 0 to 1.999, Conc.:0 to 1999, Detector Silicon Photodiode, fitted with 6V, 1 Amp. Tungsten halogen bulb lamp. Monochromator 600 lines / cm grating Path length 10 mm, Spectral Bandwidth 10 mm, Wavelength Resolution 1 nm on digital display 2½ digit Led, Wavelength Accuracy 1 nm, Repeatability ± 1nm, Display 3½ digit Led display, Operating Temp. 5 ° to 45 ° C, Power 230 V ± 10% AC, 50 Hz, Size (L x B xH) 460 x 320 x 185 mm, Weight 8.0 kgm. (Approx), Accessories Test Tubes 10 nos, Dust Cover, Operation Manual.

- a) Single Digital Display
- b) Double Digital Display

**37 BINACULAR RESEARCH MICROSCOPE**



Microscopes Binocular with 10x & 15x W.F. Paired Eye Piece with 5x, 10x, 45x & 100x Objective with Coxial Mecha

- a) Local Lenses
- b) Imported Lenses

**38 GLASSWARE ASREQUIRED BY STANDARD LAB LIKE  
PIPETTES BEAKER AND CONICAL FLASK ETC.**





















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# DEPARTMENT OF PHYSIOLOGY

## Description

### **NERVE MUSCLE ASSEMBLY**

It consist the following:

- 1) Sherrington Starling Kymograph - E-8 Model Electrical
- 2) Myograph stand
- 3) Induction coil/Student stimulator digital
- 4) Simple key
- 5) Short circulating key
- 6) Pohl's commutator
- 7) Muscle through
- 8) Muscle liver
- 9) Muscle grip of femur clamp
- 10) Hook and weight set
- 11) Heart lever
- 12) Frog board for dissection
- 13) Enamel tray

**ELECTRIC TIME MARKER, 100/SEC.** (Single Marker) Double magnet

**TUNNING FORK TIMER MARKER-** 100/Sec. to work on 4 volts DC

- a) Simple Electrode
- b) X-blocks
- c) Burette clamps
- d) Enamel bowls
- e) Brass uprights with coarse and fine adjustment
- f) Enamel Basin
- g) Spirit Lamp
- h) Copper wire- double cotton cover
- i) Kymograph Paper - pk of 100 sheet

### **MAMMALIAN EXPERIMENTS**

#### **LARGE EXTENSION KYMOGRAPH-BRODIE-STARTING**

Complete with Respiration Pump, Motor Time Marker Manometer Super speed kymograph assembly comprising the following.

- a) Super Speed Kymograph
- b) Starling's Respiration pump. 500 cc Cap. Geared Motor  
Coupled
- c) All Main's A.C. Time Clock

### **OPERATION TABLE**

Modern Experimental Operating Table. Now with all steel frame designed for greater stability. Stainless steel top 127 x 45cm. In two halves slopping towards the central drain, warming chamber, castors, moving handles, with animal holder stainless steel tray and two upright.

### **VOLUME RECORDER**

Made of Acrylic sheet Complete with writing pointer. Packed in carton box.

### **DALE'S ORGAN BATH**

Double Unit Organ Bath (Dale's Organ Bath for Internal Organs) Thermostatic controlled with stirrer, glass inner vessel, oxygen tube warming coil and frontal lever from stainless steel cap.

### **ISOLATED ORGANS BATH**

Single Unit Organ Bath Thermostatic controlled, Perspex bath resting on sturdy frame, organ and oxygen tubes, frontal lever from S.S capillary tubing and heater. Heater controlled through a 15cms long Thermostat.

### **ANIMAL WEIGHING MACHINE**

- a) For small animals cap. 30 kg - Digital
- b) For big animals cap. 100Kg - Digital

### **MARY'S TAMBOUR**

Marey's Tambour, Stainless Steel capillary lever, 28mm dia

### **VENUS AND ARTERIAL CANNULA -**

- a) Arterial Cannulae, Corning glass
- b) Venous Cannulae, Corning glass

### **SMOKING OUTFIT WITH FUME CUPBOARD**

It consists the followings :-

- a) Fume cupboard table top model- size 4ft x 2.5ft. X 3 ft.
- b) Smoking stand- with turning handle, for all size of cylinder
- c) Smoking Burner Kerosene- with 3" wick and wind up gear.

### **VARNISHING OUTFIT**

For long and short paper. Varnishing tray brass with foot lever, wall fixing model

**ANAESTHESIA BOX** - Portable with safety device packed in briefcase

## **HUMAN & OTHER EXPERIMENTS**

### **MICROSCOPE, OIL IMMERSION**

Model Available:-

a) **Medical Microscope Monocular Model** - with 10x, 45x & 100x Objective & 10xWF, 5x Hygienic eyes pieces, mechanical stage, dust cover & packed in thermocol box

b) **Inclined Monocular Microscope** - Work on 6 V-21 watt Halogen bulb with 10x, 45x & 100x Objective & 10xWF, 5x Hygienic eyes pieces, Co-axial mechanical stage, dust cover & packed in thermocol box

c) Wooden Box for Medical Microscope Monocular Model

d) Wooden Box for Inclined Microscope Monocular Model

### **DEMONSTRATION EYE PIECE**

Demonstration Eyepiece 10x Huy. Eyepiece having a pointer to locate different position of specimen.

### **DOUBLE DEMONSTRATION EYE PIECE**

This instrument is widely used in colleges and schools for simultaneous viewing of the object by the teacher's and students. A detachable and rotatable pointer moves in all direction to facilitate demonstration and is visible in both the eye-pieces

### **STAGE MICROMETER**

a) Imported Erma-Japan

b) Indian Make

### **WESTERGREEN'S PIPETTES FOR E. S. R.**

on stand ( with spare pipetts) for 6 pipetts

a) With 6 Indian Pipettes, 1 stand

b) With 6 Imported Pipettes, 1 stand

### **PERIMETER PRIESTLY SMITH S/LP .984 B & T**

We are having two types of perimeter :-

a) **Priestly Smith Table Model**. Used to measure the peripheral field of vision. The apparatus comprises of a calibrated arc contains five colors and five apertures of different diameter calibrated scale. Adjustable chin rest. All fitted over a sturdy base

b) **Lister Perimeter**. An instrument for accurate charting field of vision. It consist vertical stand metallic ark & adjust table chin rest & scale & chart frame & parametric chart

### **HAEMOGLOBINOMETER**

a) Imported German Make

b) Indian Make

### **HAEMOCYTOMETER**

a) Imported German Make

b) Indian Make

## SPHYGMOMANOMETER

- a) Dial Type
- b) Mercury Type
- c) Diamond make

## STETHOSCOPES

- a) Ordinary Quality
- b) Good Quality

## STETHOSCOPE, DEMONSTRATION WITH MULTIPLE EAR PIECES

## POLYGRAPH

Polygraph consists of following :

**(Cost of Main Console (any one type) + cost of amplifier + cost of transducer**

- a) **Main Console** (Available in following models :-)  
Standard rack mount on casters having features are following
  - i) 8 Channel
  - ii) 6 Channel
  - iii) 4 Channel(incl. all accessories)
  - iv) 2 Channel

The Polygraph come with following accessories :-

### b) Amplifiers

Types of Amplifiers :-

- i) Ultra low noise, ultra low drift, ultra high sensitivity  
Universal Bio-amplifier
- ii) Ultra low noise ultra high sensitivity A.C.Ampl.
- iii) Ultra low drift, ultra low noise, ultra high sensitivity  
D.C Amplifiers
- iv) Ultra all purpose amplifier
- v) EKG Phone pulse Amplifier
- vi) Sphygmomanometer EKG Phono Pulse Ampl.

### c) Transducers

Type pf Transducer

- i) Pressure Transducer strain Gauge
- ii) Volume Transducer (Plethysmograph)
- iii) Heart, Smooth Muscle, isotonic Muscle, isometric force  
Transducers.
- iv) Respiration Transducers (Thermister type)
- v) Photo electric Pulse Transducer
- vi) Surface Temperature Probe
- vii) Internal Temperature Probe
- viii) Phono Cardiogram Transducer
- ix) Respiration Belts (Stethograph Type)
- x) Isotomic fine movement transducer



#### **d) Accessories**

The following Accessories are provided free of charge with each console

- i) EKG Limb electrodes with straps
- ii) Chest electrodes
- iii) EEG electrodes
- iv) Extra pen ink writing
- v) Extra pen Cradle
- vi) Ink half liter cap.
- vii) EEG Plate
- viii) ECG jelly tube
- ix) Three pin junction box
- x) Five pin junction box
- xi) Fuses
- xii) Earth in cord
- xiii) Instruction Manual
- xiv) Machine cover
- xv) Chart Paper z fold for iv channel

#### **VENUS PRESSURE APPARATUS**

Its known as a Pressure transducer, used with physiograph apparatus. Its only attachment

#### **SPIROMETER, ORDINARY**

Spirometer 6 liter cap, Stainless steel chamber with chain compensated counter balance to float. Pulley calibrated to denote volume, inlet and outlet tubes. Complete with corrugated rubber tube, mouthpiece and recording lever, packed in carton box.

#### **GAS, ANALYSIS APPARATUS - Haldan's Student Type**

Mounted on wooden frame complete with glass parts

#### **VAN SLYKO'S APPARATUS MANOMETRIC (portable handy model)**

Mounted on wooden frame complete with glass parts

#### **GAS, ANALYSER-AUTOMATIC FOR CO<sub>2</sub>, O<sub>2</sub>,N<sub>2</sub> (portable handy model)**

#### **DOUGLAS BAG COMPLETE**

It is known as breath collection bag. It is generally use for outdoor metabolic and respiratory studies.

- a) Indian make
- b) Imported U.S.A make

#### **BASAL METABOLISM APPARATUS (Known as B.M.R Apparatus)**

Benedict's Roth Recording Spirometer; the 6 lit, cap spirometer has a four speed electrical recording unit with gravity writing ink pen. Valves are easily accessible soda lime container with screw connection in the centre chamber Drain cock to all the tub

### **EROGOGRAPH MOSSE'S**

Mosso's Ergograph for recording work done on to the drum surface with special arm fixation rests sun-mica topped base board. Complete with weight set. Packed in carton box.

### **CLINICAL THERMOMETER**

### **COMPASS AESTHESIOMETER**

Compass Aesthesiometer two limbs, each limbs bifurcated to possess two points, one blunt and the other sharp for creating pain sensation in the skin. The angle between the limb is fitted with graduated arc

USE : Determination of minimum distance between two points which could be recognized as distant touch and pain when stimulated simultaneously.

### **THERMANAESTHESIOMETER**

Temperature Aesthesiometer for determination of position and number of cold and hot spot by temperature stimuli using water of different temperature passed through the aesthesiometer. It comprise of metal tube with conical tip and two limb

### **ALGOMETER**

Algometer comprising of board blunt knob attached to a spring which can be pressed upon skin and the pressure exerted can be measured. USE for a assess projection, localization and discrimination of intensities of stimuli applied for experimentation.

### **APPARATUS FOR PASSIVE MOVEMENT**

Avoidance response test apparatus is a vital instrument for assay of drugs on development toxicity

### **KNEE HAMMER**

**STETHOGRAPH** - Packed in carton box.

### **BICYCLE ERGOMETER**

The cycle frame is supported by a sturdy metallic frame, from which two uprights ascend and carry a desk and a cross piece which provide for the attachment in from of the tension balances. The back wheel 168 cm in circumference and about 22 kg. I

b) - do - Imported Make

**OLFACTOMETER** - Packed in plastic box.

It is use for smell sensation.

### **OPHTHALMOSCOPE (IMPORTED)**

**SCHEMATIC EYE** - (Eye Model made of fibre big size)

### **PHAKOSCOPE**

Consistent of triangular box the base of which is about 35 cm long and the other two equal of 18 cm each. The height of the box is about 10 cm. It is mounted on a stand. All the three angles of the box are truncated and are provided with holes of

### **PERIMETERS WITH CHART (Lister Perimeter)**

We are having two types of perimeter :-

a) **Priestly Smith Table Model.** Used to measure the peripheral field of vision. The apparatus comprises of a calibrated arc contains five colors and five apertures of different diameter calibrated scale. Adjustable chin rest. All fitted over a sturdy base

### **b) Lister Perimeter**

An instrument for accurate charting field of vision. It consist vertical stand metallic arc & adjustable chin rest & scale & chart frame & parametric chart

### **COLOUR PERCEPTION LANTERN EDRIDGE GREEN**

Complete with filter and packed in box.

### **MADDOX ROD**

### **NEWTONS COLOUR WHEEL**

### **TUNNING FORKS TO TEST HEARING 32-10,000 cps(sets) -**

Set of 4

### **DYNAMOMETER (HAND GRIP MODEL)**

**OTORHINOLOARYNGOSCOPE** - made of S. S. packed in box.

**STERILISER ELECTRIC** - Size 12"X6"X4"

### **INSTRUMENT TROLLEY**

for keeping surgical parts.

a) 28" x 18" top made of S.S Rest Part Painted

b) 28" x 18" with Complete S.S Parts

### **STOP WATCHES 1/10**

a) Digital Model

b) Mechanical Model

## **GENERAL**

**PHYSIOGRAPH 3 CHANNELS** - Complete with accessories.

Available in following Types

a) Student Physiograph

Student Physiograph consists of :-

1) Main Console

2) Couplers

3) Transducers

4) Accessories

### I) **MAIN CONSOLE**

a) Main Console with time & Event Channel and stimulator

i) Three Channel

Note:- Physiograph stimulator if require with above model Rs. 6000/- cost extra.

The following couplers & transducer use with above different type of Physiograph

### II) **COUPLERS**

Available in following Types

i) Stain Gage

ii) Isotonic

iii) Pulse Respiration

iv) Temperature

v) EKG (Clinical) with Electrodes, 5 pin junction box and jelly

vi) Bio Potential ( with Electrodes, 3 pin junction box, Paste and Electrode for Action Potential).

### III) **TRANSDUCERS**

Available in following Types

i) Pressure ( For strain gage Coupler)

ii) Volume ( For strain gage Coupler)

iii) Muscle Activity / Force ( For strain gage Coupler)

iv) Respiration Belt ( For Respiration Coupler)

v) Isotonic Fine Movement ( For Isotonic Coupler)

vi) Pulse ( For Pulse Respiration Coupler)

vii) Respiration (Thermister Type) ( For Pulse Respiration Coupler)

viii) Temperature ( For Temperature Coupler)

### **ACCESSORIES**

Available in following

i) Paper 250 Folds pkt. -

ii) Ink -

iii) Capillary -

iv) Spare Ink Pen -

v) Spare Cradle -

vi) Fuses -

Note :- Cost of Main Console + Cost of 6 types of Coupler + Cost of 8 types Transducer (As per your requirement.)

### **PHYSIOGRAPH, SINGLE CHANNEL** - with all Accessories

Available in following types

a) Student Physiograph

It consists of :-

1) Main Console

2) Couplers

3) Transducers

4) Accessories

I) **MAIN CONSOLE**

a) Main Console with time & Event Channel and stimulator

i) Single Channel

**Note:-** Physiograph stimulator if require with above model Rs. 6000/- extra.

The following couplers & transducer use with above different type of Physiograph

II) **COUPLERS**

Available in following Types

i) Stain Gage

ii) Isotonic

iii) Pulse Respiration

iv) Temperature

v) EKG (Clinical) with Electrodes, 5 pin junction box and jelly

vi) Bio Potential ( with Electrodes, 3 pin junction box, Paste and Electrode for Action Potential).

III) **TRANSDUCERS**

Available in following Types

i) Pressure ( For strain gage Coupler)

ii) Volume ( For strain gage Coupler)

iii) Muscle Activity / Force ( For strain gage Coupler)

iv) Respiration Belt ( For Respiration Coupler)

v) Isotonic Fine Movement ( For Isotonic Coupler)

vi) Pulse ( For Pulse Respiration Coupler)

vii) Respiration (Thermister Type) ( For Pulse Respiration Coupler)

viii) Temperature ( For Temperature Coupler)

IV) **ACCESSORIES**

Available in following

i) Paper 250 Folds pkt.

ii) Ink

iii) Capillary

iv) Spare Ink Pen

v) Spare Cradle

vi) Fuses

Note :- Cost of Main Console + Cost of 6 types of Coupler + Cost of 8 types Transducer (As per your requirement.)

**CENTRIFUGE, HIGH SPEED WITH TECHNOMETER** - Remi Type 8 Tube

**CALORIMETER, PHOTO-ELECTRIC** - 8 Filter Digital Table Top model

**DIGITAL pH METER - ELECTRIC**

Digital, Table Top Model with Stand Buffer Tablets & Solution Bottles

- a) Without ATC System
- b) With ATC System

## **REFRIGERATOR**

**OXYGEN CYLINDER WITH TROLLEY** - With stand & regulator

**CO2 CYLINDER WITH TROLLEY** - With stand & regulator

## **ELECTRONIC STIMULATOR**

## **WATER DISTILLATION STILL WITH SPARE HEATING ELEMENTS**

Cap 4/5 ltr. per hr Made of S. S. jointless, wall hanging model.  
Electrical heated. Fitted with autocut element

**ALL GLASS DISTILLATION APPARATUS** - Double stage.

Available in following Models :-

- a) 3 ltr cap. (Double Stage)
- b) -----do----- With autocut device system
- c) 5 ltr cap. (Double Stage)
- d) -----do----- With autocut device system
- e) 10 ltr cap. (Double Stage)
- f) -----do----- With autocut device system

**VOLTAGE STABILIZER** - Cap. 5 kva.

## **STEPDOWN TRANSFORMERS**

To get 2 of 12 volt in 6 steps with 20 Amp. Current with meters & output terminals.

## **THERMOMETERS, BALANCES, MICROSLIDES**

- a) Thermometer 0 to 360°C.
- b) Balance Analytical
- c) Plain Slide (Pack of 50 Slide)

## **GLASSWARE**

























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# DEPARTMENT OF ANATOMY

## Description

### **TABLE WITH S. S. TOP 6'1"X2'X3'**

Use for dissection of dead body known as dissection table with waste collection tray, with all parts duly powder coated. - Full Stainless steel 18/20 gauge with adjustable hand rest, Diagonally crossing grooves and a centre hole on the top. Made of **202 SS** grade quality.

-- do--- made of **304 SS** grade quality

### **TABLE WITH S. S.TOP (HALF SIZE) - Size 3'x2'**

Full Stainless steel 18/20 gauge with adjustable hand rest, Diagonally crossing grooves and a centre hole on the top. Made of **202 SS** grade quality.

-- do--- made of **304 SS** grade quality

### **DRILL MACHINE**

Electrical operated table top model with 1/2" drill chuck with forward & reverse moving system.

**HAND SAW** - Made of S.S.

**BAND SAW FOR SECTIONING BODY & LIMBS** - Known as Autopsy saw Imported stryker make

### **METAL STOOLS**

Revolving, stainless steel top with powder coating legs- Heavy type

**BRAIN KNIFE** - Made of Stainless steel 12" long

**MORTUARY COOLER** - Cold storage for keeping dead bodies

Designed to store construction under cool conditions to prevent decomposition . Double walled construction, outer made of thick mild steel sheet duly finished in stoving enamel paint and inner made of stainless steel sheet. The gap between the two is filled with glass wool or puff insulated material for temp. Front opening covered with double walled door with magnetic gasket, and Individual handle Chambers are provided with independent handle with Trays to carry dead bodies are provided with handles on both ends travel on rollers fitted on ball bearing for smooth movement the refrigeration unit is fitted on the rear top. Temperature of 2° C to + 5° C is maintained by hermetically sealed compressor unit and is controlled by an automatic electronic digital temp. controller-cum-indicator. Panel is provided with indicator & controller etc.

Complete with cord & plug. The unit is work on 220 V AC 50Hz single phase

i) Outer body Stainless Steel & Inner body Stainless steel

Capacity	Temperature.	Voltage Stabilizer required
a) Two Bodies	2°C to +5°C	4 KVA
b) Four Bodies	2°C to +5°C	8 KVA

ii) Outer body M.S Painted & Inner body Stainless steel

Capacity	Temperature.	Voltage Stabilizer required
A) Two Bodies	2°C to +5°C	4 KVA
B) Four Bodies	2°C to +5°C	8 KVA

### **STORAGE TANK**

Full Stainless Steel -18 Gauze- with stainless steel frame and supporting bars. Stainless steel lid with air tight mechanism and handles at both ends Size - 6'6" \* 3' \* 2'4" supporting stand and wheels, **made of 304SS grade quality**

**PLASTIC TANK** - for storing soft and dissected parts

Superior Quality extra Strong leucoplast Plastic with lid - Set

- i) Plastic Tank / Buckets - 15 Ltrs capacity With Lids
- ii) Plastic Tank / Buckets - 25 Ltrs capacity With Lids
- iii) Plastic Tank / Buckets - 50 Ltrs capacity With Lids
- iv) Plastic Tank / Buckets - 80 Ltrs capacity With Lids
- v) Plastic Tank / Buckets - 100 Ltrs capacity With Lids

### **TROLLEY TABLE**

for keeping surgical parts.

- a) 28" x 18" top made of S.S Rest Part Painted
- b) 28" x 18" with Complete S.S Parts

### **PROJECTORS**

- a) Overhead Projector A4 Size
  
- b) Automatic Slide Projector (German make with remote control. 36 Slide magazine)

### **X - RAY VIEWING LOBBY**

Outer body made of thick ply covered with thick sunmica, with superior quality tube fitting.  
Model Available:-

- i) For Single X-Ray's Viewing
- ii) For Double X-Ray's Viewing
- iii) For Four X-Ray's Viewing.

## **MEAT CUTTING MACHINE**

For thin body sections (Trans & vertical) for Gross anatomy sectional study. Useful for preparing specimen of big size in Anatomy and Meat Departments. Fitted with large moving table and extension table operated on four ball bearing rollers. 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.

# **APPARATUS AND INSTRUMENTS FOR HISTOLOGY LABORATORY**

## **MICROSCOPES, MONOCULAR**

Model Available:-

- a) **Medical Microscope Monocular Model** - with 10x, 45x & 100x Objective & 10xWF, 5x Hygienic eye pieces, mechanical stage, dust cover & packed in thermocol box
- b) **Inclined Monocular Microscope** - Work on 6 V-21 watt Halogen bulb with 10x, 45x & 100x Objective & 10xWF, 5x Hygienic eye pieces, Co-axial mechanical stage, dust cover & packed in thermocol box
- c) Wooden Box for Medical Microscope Monocular Model
- d) Wooden Box for Inclined Microscope Monocular Model

## **DISSECTING MICROSCOPE**

Complete with all brass parts with 10x & 15x eye pieces. Packed in thermocol Box.  
Wooden box for above

## **ROTARY MICROTOME**

Rotary Microtome AO Spencer well designed features for precise and accurate serial sectioning, with feed setting visible from front, improved locking device and counter balanced wheel. Light weight cover hinged at back provides for easy access to internal parts for cleaning and oiling. Feed is adjustable from 1 to 50 microns in steps of 1 micron. Free up and down movement of object clamp. Automatic restricted total excursion of 28 mm by disengaging the feed mechanism to prevent jamming. Ball and flange object clamp provides flexible orientation of object piece. Takes specimen upto 32x27 mm on stem of block holders. Knife holder allows for 120 mm knife. Cutting angle is adjustable through

30 degrees. Two levers release knife holder for resetting angles and a third lever releases the entire assembly for movement on slide way to adjust horizontal distance from object. Latest cam system eliminates the conventional cord system for feeding, resulting in better section cutting and improved efficiency of the machine. Supplied complete with one knife with back and handle in wooden box, 2 block holders, one bottle of lubrication oil, rexin cover complete in all respects. Packed in wooden box.

### **MICROTOMES SLEDGE LARGE CUTTING**

Used for cutting Hard specimen, Microtome with knife, Feed Range from 1 to 50 Microns, control precise steps of 1 micron each, supplied with Razor, Object Holder, Dust Cover, Honing Stone.

### **CABINET FOR 1000 SLIDES**

Made from thick ply covered with sunmica, with slide box , made of teak frame, laminated top -

### **INCUBATORS**

Standard double wall fabrication. Inner chamber made of out of richly anodized aluminum of highly polished stainless steel sheet and outer made out of thick mild steel sheet finished in white stoving enamel paint or mat finished pastel colour combinations. The gap is filled with special glass wool for temp. insulation Double wall door with double glass window for observation in the chamber. Temperature range 5° C above ambient to 80°C ± 2°C controlled by a thermostat L - shaped thermometer is provided for taking temp. readings. Panel is provided with piolet lamps for mains& heaters, on-off switch, temp. control knob etc. The equipment is workable on 220 V AC 50 Hz single phase. Heating is achieved from 3 sides. Perforated removable shelves also provided.

Aluminum Chamber sizes :

- a) 12"x12"x12"
- b) 14"x14"x14"
- c) 16"x16"x16"
- d) 18"x18"x18"
- e) 24"x18"x18"
- f) 24"x24"x24"
- g) 36"x24"x18"
- h) 36"x24"x24"
- l) 36"x36"x36"

S. S. Chamber sizes :

- a) 12"x12"x12"
- b) 14"x14"x14"
- c) 16"x16"x16"
- d) 18"x18"x18"
- e) 24"x18"x18"
- f) 24"x24"x24"

- g) 36"x24"x18"
- h) 36"x24"x24"
- l) 36"x36"x36"

Optional Accessories if require at extra cost

- i) Air circulating fan.
- ii) Timer 0-24 hours
- iii) Imported Thermostat "EGO" / "JUMO" German with the accuracy of  $\pm 1^\circ\text{C}$ .
- iv) Digital temp. Indicator-cum-controller
- v) Microprocessor PID digital temp. Indicator-cum-controller
- vi) Digital Temp. Indicator

### **PARAFFIN EMBEDDING BATH**

Duly stoving paint finish or Powder coated paint and gap fitted for temp. insulation with glass wool. Paraffin Embedding baths with S.S. chamber double walled with thermostatically controlled.

Available in following models :-

- a) 4 Cup 6 Sleeves
- b) 6 Cup 8 Sleeves
- c) 12 Cup 14 Sleeves

### **HOT PLATE** - For flatter sections.

Laboratory hot plates are available in round and rectangular shapes. Body is fabricated out of thick mild steel sheet duly finished is stoving enamel paint or powder coating. The hot plate made of cast iron nicely & precisely machined & smoothed duly finished in heat resistant black paint is firmly mounted on the body. Heavy duty heating elements are securely laid under the plates to operate on 220V Ac 50 Hz single phase. Temp. is controlled by a three heat rotary switch along with an indicators lamp for the main sand cord & plug.

Available in following sizes :-

- a) Hot Plate (Round) Single 20cm 8" Dia Moulded top
- b) Hot Plate ( Round) Double Two Plates of 20cm (8" Dia)
- c) Hot Plate: (coil type) 20 cm (8") dia.

### **d) HOT PLATE RECTANGULAR**

Available in following sizes :-

- i) 12" x 10"
- ii) 16" x 10"
- iii) 18" x 12"

iv) 24" x 18"

Optional Accessories at extra cost.

- i) Sunvic energy regulator can be provided against routine energy regulator
- ii) Digital temp. Indicator-cum-controller

### **HOT AIR COVER FOR DRYING SLIDES (45° C)**

Hot Air Cover for Drying Slides (45°C) 14" x 14" x 14" stainless steel Chamber.

Note : Other Sizes rate on request.

### **ANALYTICAL BALANCE Cap. 200 gm**

- a) K-Roy Make
- b) Weight Box 0-200 gm

### **BALANCE BARANGER Cap. 6 kg Sen. 1/5**

Most Superior Quality

**REFRIGERATOR** - With transparent door

### **DISTILLED WATER STILL - MENSATY TYPE**

Cap 4/5 ltr. per hr Made of S. S. jointless, wall hanging model.

Electrical heated. Fitted with autocut element

**DIAMOND PENCIL** - Superior quality

### **7 COLOUR PERMANENT MARKER**

### **SKELETON ARTICULATED**

Properly bleached packed in cartoon box

### **BONES (DIS-ARTICULATED) SETS**

Properly bleached packed in cartoon box

### **SPECIMEN JARS** - For Storage of human body organs

Available in Following Types:-

#### **i) Made of borosilicate glass**

- a) 250mm x 250mm x 150mm
- b) 225mm x 225mm x 125mm
- c) 220mm x 140mm x 140mm
- d) 210mm x 170mm x 130mm
- e) 215mm x 140mm x 100mm

#### **ii) Made of Borosil Glass**

- a) 200mm x 125mm x 125mm
- b) 200mm x 150mm x 100mm

- c) 220mm x 195mm x 80mm
- d) 250mm x 165mm x 140mm
- e) 250mm x 250mm x 120mm
- f) 360mm x 150mm x 100mm

**iii) Made of imported acrylic sheet rectangular shape -leak proof with cover**

- a) 150mm x 100mm x 50mm - 4mm thick acrylic
- b) 150mm x 150mm x 150mm - 4mm thick acrylic
- c) 200mm x 120mm x 100mm - 4 mm thick acrylic
- d) 200mm x 125mm x 125mm - 4 mm thick acrylic
- e) 220mm x 150mm x 100mm - 5 mm thick acrylic
- f) 220mm x 195mm x 80mm - 5 mm thick acrylic
- g) 250mm x 165mm x 140mm - 5 mm thick acrylic
- h) 250mm x 250mm x 125mm - 5 mm thick acrylic

**iv) Made of imported acrylic sheet Cylindrical shape -leak proof with cover**

- a) 100mm x 50mm
- b) 100mm x 75mm
- c) 150mm x 100mm
- d) 200mm x 100mm
- e) 200mm x 100mm

**RACKS STEEL**

Slotted angle Rack steel with 5 shelves of 4' x 1 1/2', 7' height - 4 angles, open on all sides

**EMBALMING MACHINES FOR CADAVERS**

For injecting Formaldehyde solution in Cadaverous at much higher speed than normal gravity process. Unit is fully covered & mounted on a portable trolley having four castor wheels for easy movement. Unit consists of one air compressor fitted with 1/2 hp motor which is connected with a Stainless Steel Tank of 10 Ltr Cap meant for storing and injecting the solution . Tank is fitted with a safety valve, pressure gauge and rubber tubing having provision for injection. Supplied complete with electric cord, plug and suitable to work on 220 volts 1 ph 50 Hz, AC supply.

- a) Outer body M.S painted
- b) Outer body made of Stainless steel

**ITEMS OTHER THAN MCI LIST:-**

**ANTHROPOLOGICAL SET**

It consist the following

- a) Anthropometric rod
- b) Skin fold Caliper imported
- c) Sliding Caliper
- d) Spreading Caliper
- e) Anthropometric board
- f) Goniometer

### **AUTOMATIC TISSUE PROCESSOR -**

Histokinmettee or similar complete.

Standard automatic Tissue Processor designed to provide complete automation right from dehydration to wax of celloidin setting through predetermination programme. With built in safety device to protect the tissue in wax during electric failure and also avoiding additional wear and tear on the machine. In case of electric failure for restart of the equipment, the safety device does not permit entry to the tissue basket into the wax bath and if already there the tissue basket will not start rotation till the wax is completely melted. It is supplied with following standard accessories :-

- a) Two Nos thermostatically controlled wax bath.
- b) One No S.S. Basket
- c) 24 Nos Tissue containers.
- d) 12 Nos 1 ltr beaker with cover
- e) 6 Nos 24 Hour calibrated discs.
- f) 1 No Basket Rotator.

### **FLOURESCENT MICROSCOPE**

Fitted with fluorescent light. Supplied with binocular head. Binocular head, rotatable at 360° work on halogen lamp (6 volt 21 watt) with 10x & 15x W.F. Paired Eye Piece with 5x, 10x, 45x & 100x Objective with Coxial Mechanical Stage with Dust Cover & Thermacol Box. This microscope generally use where the specimen can be seen in fluorescent light. It is not visible in halogen light. Supplied with imported optics.







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# DEPARTMENT OF COMMUNITY MEDICINE

## Description

### **COMPRATOR NESSLER –**

Use for Colour compassior test.

### **BAROMETER, FORTIN - With Mercury & Show case**

### **EXTRACTION APPARATUS, FAT - (Kjeldhal Digestion & Distillation Apparatus) With 6 tests & with glass parts**

b)----- Do----- for 3 test

### **FILTER PASTEUR CHAMBERLAND - Complete Set**

### **FILTER BERKE FELD**

### **HYDROMETERS, SPRIT**

### **HYDROMETERS, MILK**

### **HYGROMETER - Wet & Dry Bulb -**

### **INCUBATOR - ELECTRIC**

Standard double wall fabrication. Inner chamber made of out of richly anodized aluminum of highly polished stainless steel sheet and outer made out of thick mild steel sheet finished in white stoving enamel paint or mat finished pastle colour combinations. The gap is filled with special glass wool for temp. insulation. Double wall door with double glass window for observation in the chamber. Temperature range 5° C above ambient to 80°C ± 2°C controlled by

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- ii) Timer 0-24 hours
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- iv) Digital temp. Indicator-cum-controller
- v) Microprocessor PID digital temp. Indicator-cum-controller
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**MUSEUM JARS** - For Storage of human body organs

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- d) 200mm x 125mm x 125mm - 4 mm thick acrylic
- e) 220mm x 150mm x 100mm - 5 mm thick acrylic
- f) 220mm x 195mm x 80mm - 5 mm thick acrylic
- g) 250mm x 165mm x 140mm - 5 mm thick acrylic

h) 250mm x 250mm x 125mm - 5 mm thick acrylic

- a) 100mm x 50mm
- b) 100mm x 75mm
- c) 150mm x 100mm
- d) 200mm x 100mm
- e) 200mm x 100mm

### **MODELS, CHARTS, DIAGRAM ETC.**

**Note: Kindly give your requirement list**

**BALANCE ANALYTICAL 200 GM. WITH WT. BOX**

**BALANCE FOR WEIGHING FOOD STUFF CAP. 2 KG.**

**CENTRIFUGE CLINICAL**

**WEIGHING MACHINE ADULT**

**SALTERS BABY WEIGHING MACHINE**

**HERPENDERS CALLIPERS** - For Skin fold thickness

**HEIGHT MEASURING STAND**

**AQUA GUARD**

**REFRIGERATOR**

**ICE LINED REFRIGERATOR (1 LTR.)**

**DISSECTING MICROSCOPE**

Complete with all brass parts with 10x & 15x eye pieces. Packed in thermacol Box. Wooden box for above

**MICROSCOPE OIL IMMERSION**

Model Available:-

- a) **Medical Microscope Monocular Model** - with 10x, 45x & 100x Objective & 10xWF, 5x Hygienic eye pieces, mechanical stage, dust cover & packed in thermocol box
- b) **Inclined Monocular Microscope** - Work on 6 V-21 watt Halogen bulb with 10x, 45x & 100x Objective & 10xWF, 5x Hygienic eye pieces, Co-axial mechanical stage, dust cover & packed in thermocol box
- c) Wooden Box for Medical Microscope Monocular Model
- d) Wooden Box for Inclined Microscope Monocular Model

## **T. V., V. C. R.**

### **STILL FOR DISTILLED WATER**

Cap 4/5 ltr. per hr Made of S. S. jointless, wall hanging model.  
Electrical heated. Fitted with autocut element

### **AUTOCLAVE**

available in following types and sizes: -

- a) 12"x12" (All. Chamber) Single Valve
- b) 12"x12" (S.S. Chamber) Single Valve
- c) 12"x20" (S.S. Chamber) Double Valve

### **STERILIZERS, ELECTRIC 12" X6"X4"**

### **COMPUTER**

**OVER HEAD PROJECTOR - A4 Size**









