

DEPARTMENT OF MICROBIOLOGY List of Equipments

Sr. No.	Description	Number of Equipments
1	INCUBATOR	
	Standard double wall fabrication. Inner chamber made of out of richly anodized aluminium 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 pilot 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.	
	S. S. Chamber Sizes :	
	a) 16"x16"x16"	5
	Optional Accessories if require with above at extra cost	
	i) Air circulating fan	1
	ii) Digital temp. Indicator-cum-controller	1
2	AUTOCLAVE - Fitted with pressure gauge, steam release cock &	
	12"x12" (S.S. Chamber) Single Valve	3
3	HOT AIR STERILISER / OVEN	
	S.S. Oven	
	a) 16"x16"x16"	3
	Optional accessories if require with above at extra cost:	
	i). Air circulating fan.	1
	ii). Digital temp. Indicator-cum-controller	1

4	SERUM INSPISSATORS - For 50 bottle	2
5	CHEMICAL BALANCE a) VARANASI make superior quality with weight box	2
6	LOVIBOND COMPARTORS WITH DISC - Imported U. K. make.	1
7	FLASK - Flat bottom 50 cc Borosilicate glass	10
8	MEDICAL MICROSCOPE c) Inclind Monocular Microscope - Work on 6 V-21 watt packed Halogen bulb with 10x, 45x & 100x Objective & 10xWF, 5x Hygenian eyes pieces,Co-axial mechanical stage, dust cover & in thermocool box- superior quality optics	Order Placed
10	MICROMETER EYE PIECES IOX Huygenian Eye Pc. Fitted with graduated graticul, graduation 1 cm = 100 division.	2
11	STAGE MICROMETER a) Indian Make	2
12	CENTRIFUGE - Electrical high power having r.p.m 6000, fitted with digital rpm and timer - 8/12 tube	Order Placed
13	REFRIGERATED CENTRIFUGE (b) Refrigerated Microcentrifuge Machine medium speed model T-16 complete with rotor head capacity 8x15ml / 10x 10ml any one type.	Order Placed
14	DISTILLED WATER PLANT Cap 4/5 ltr. per hr made of S. S. jointless, wall hanging model.	2

Electrical heated. Fitted with autocut element

15 DISTILLED WATER PLANT - all glass

Available in following capacities & stage

b) 3 Ltr Cap.

i) triple stage

1

Note. Autocut device if required with any of the above model will be cost extra.

16 OIL IMMERSION LENSE FOR MICROSCOPE

a) Superior quaiity

Order Placed

17 DROPPING BOTTLES - For stains plastic 60 ml

750

18 STAINING TROUGHS

a) For 10 Slides

100

19 ANAEROBIC CULTURE JAR APPARATUS - Use for culture work

Models available

a) Made of plastic

4

20 ELECTROPHORSIS COMPLETE - with power supply

1

The electrophoresis cabinet is made of clear transparent plastic (Perspex Sheet) 6" long, 9½" width, 4-1/4" high and effective width i.e. maximum useable width of paper carrier 7¼". The upper surface of the platform which supports the paper strip carrier and the electrode troughs are finished with black surface for contrast. A recessed safety inter lock switch breaks the current to both electrodes when the cabinet cover is fitted. Electrode troughs have cap. of 550ml. Each and provided with two transverse baffles to minimize diffusion of buffer in electrodes section of trough with buffer which is in contact with end of paper strips. The polarity of the electrodes is indicated by two pilot lamps fitted with levelling. Supplied complete with cord and terminals connecting to the power supply, stabilised D.C Power supply unit 0-300 volts and 100 mA. Is provided with apparatus.

21 B. O. D. INCUBATOR

Designed for low temperature incubation and routine determination of Bio - Chemical oxygen Demand (B.O.D) Double wall construction. Inner chamber made of richly anodized aluminum or highly polished stainless steel with self support for wide range of shelf spacing. Supplied with two / three removable perforated shelves. Exterior made of thick mild steel sheet duly finished in white stoving enamel paint or mat finished pastel colour combinations. Outer double wall door is provided with magnetic gasket and lock & key arrangement. Inner door made out of clear acrylic sheet allowing inspection of material in the chamber without disturbing the chamber temperature.

Door operated inner illumination has been provided. The gap between walls of equipment are filled with glass wool for temp. insulation. The cabinet is mounted on castors. Temperature is controlled by a sensitive thermostat from 5°C to 50°C ± 1°C. for lower temp. working a standard cooling unit with sealed compressor with protective devices has been provided below the chamber for safe and efficient working.

Heating arrangement has made within the chamber for higher temp. working. The temp. can be regulated within the range by means of high precision double action thermostat. Inner air circulating system is provided to achieve uniform temperature in the whole chamber. A control panel is provided with various indicators, on off switch, L - shaped thermometer. Supplied with cord & plug etc. The equipment is workable on 220V AC 50 Hz single phase.

S. S. chamber sizes:

505 x 415 x 830 mm - 6 cubic ft.

Optional accessories if require with above at extra cost:

- i) Timer 0.24 hours day night cycle. 2
- ii) Co₂/air mixer nozzle is provided. 2
- iv) Digital temp. Indicator-cum-Controller. 2
- vi) Automatic Voltage Stabilizer 3-5 KVA (recommended must.) 2

22 LAMINAR FLOW BENCH / TABLE

Fitted with Hepa & Prefilter with 1 No. U.V. tube & flouricent tube with manometer, Acrylic Door, air gasket & with S. S. table top.

Available in following sizes:-

- a) 4ft x 2ft x 2ft 1

23 ULTRA VIOLET LAMPS - Mounted on stand. 1

24 V.D.R.L. SHAKER - variable speed

Optional Accessories if require with above at extra cost:-

- i) 0-60 minutes timer 0

25 OVER HEAD PROJECTOR - A4 Size

- a) Indian Make 1

26 WATER BATH - SEROLOGICAL 37° C

Double wall construction, inner being made out of highly polished thick S.S. and outer made of thick mild steel sheet finished in stoving white enamel paint or staple mat colour combinations. The gap is filled with special glass wool for temp. insulation. The bath is provided with a drain cock to easily drainout the water and clean the chamber when required. A pyramidal shaped cover provided. Immersion type heating elements are fitted at bottom . Temp range 5° above ambient to 80°C with accuracy $\pm 0.5^\circ$ C to 1°C is controlled by capillary thermostat regulated by a graduated knob on the panel, which is also provided with pilot lamp etc. The equipment is workable on 220V AC 50 Hz single phase.The baths are supplied wihtout racks, thermometers and stirring arrangement.

Available in following sizes :-

12" x 10" x 7" 1

Optional Accessories if require with above at extra cost :-

i) Digital temp. Indicator cum -controller 1

ii) Stirrer with 1/20 H.P High Speed motor with stainless stirring rod and blade 1

27 WATER BATH - SEROLOGICAL 56° C

- specification same as above

Available in following sizes :-

b) 12" x 10" x 7" 1

Optional Accessories if require with above at extra cost :-

i) Digital temp. Indicator cum -controller 1

iii) Stirrer with 1/20 H.P High Speed motor with stainless stirring rod and blade 1

30 BINOCULAR MICROSCOPE

Microscopes Binocular with 10x & 15x W.F. Paired Eye Piece with 5x, 10x, 45x & 100x Objective with Coxial Mechanical Stage with Dust Cover & Thermacol Box.

a) Imported Lenses **Order Placed**

CULTURE FACILITIES

31 THERMOMETER ASSORTED

a) 110° 6

b) 360° 6

32 PH DERTERMINATION APPARATUS/PH METER

Digital, table top model with stand buffer tablets & solution bottles 2

33 REAGENT BOTTLE WITH STOPPER - Made of Borosilicate glass

a) 2000 cc 12

b) 1000 cc	48
c) 500 cc	24
d) 250 cc	24
e) 100 cc	60
f) 50 cc	60

35 **TEST TUBE HARD GLASS**

a) 150 x 18mm - Pack of 100	12
b) 100 x 12mm - Pack of 100	25
c) 75 x 12mm - Pack of 100	25