

Chemical and Lab Equipment for FY 2024-2025

Sl. no	Particulars	Specification	Unit	Qty per	Qty	Rate	Remarks
1	Resazurin	sigma/Merck	gm	1	3		
2	Methylene blue		ml	250	2		
3	Boric acid		gm	500	10		
4	Sodium Hydroxide (pellet)		kg	5	5		
5	Phenanthroline		gm	5	10		
6	pH Buffer 4.01		ml/Pelle	250	2		
7	pH Buffer 7.01		ml/Pelle	250	2		
8	Tertrazolium Medium		gm	250	3		
9	2,4 dinitrophenyl Hydrazine		gm	250	4		
10	Thio-Urea		gm	250	4		
11	Meta- Phosphoric acid		gm	500	6		
12	Immersion oil		ml	125	5		
13	Ammonia Buffer solution		ml	500	6		
14	Nutrient agar		gm	500	4		
15	Sodium Acetate		gm	500	6		
16	Petroleum Ether (60-80)		litter	2.5	30		
17	Potassuim Iodide		gm	250	4		
18	Mac Conkey Agar		gm	500	2		
19	(EMB) agar		ml	500	2		
20	Hydroxylamine hydrochloride		gm	500	6		
21	Erichrome Black T		gm	250	2		
22	Agar Agar		ml	500	2		
23	Bromocresol green indicator		ml	125	6		
24	Benedicts Reagent		gm	500	2		
25	Copper(II)sulfate. 5H2O		gm	500	10		
26	EDTA dipotassium salt dihydrate		gm	500	3		
27	Gram Staining kit		set		5		
28	Glacial acetic acid		ml	500	10		
29	Lactophenol cotton blue		ml	500	4		
30	Sodium hypochlorite		litter	5	1		
31	Sodium Sulphate		gm	500	10		
32	Sulphuric Acid		litter	2.5	20		
33	Nitric Acid		litter	2.5	10		
34	Alpha amylase -food application	food graded	gm	100	1		

35	Protinase K		gm	5	1		
36	RNase A		gm	5	1		
37	Maltose		gm	500	1		
38	Tyrosine		gm	250	1		
39	Potato dextrose agar		gm	500	10		
40	Silver Nitrate		gm	100	4		
41	Methyl red Indicator		ml	125	4		
42	Methanol		ml	500	6		
43	Double Distilled water (Rnase, Dnase and Protease free)	thermos scientific	ml	500	10		
44	SYBR green dye	thermos scientific	ml	500	2		
45	Molish's Reagent		ml	500	4		
46	Ninhydrin extrapure AR		gm	100	4		
47	Ethyl Acetate		ml	500	4		
48	Bial's Reagent		ml	500	2		
49	Bromine Water		ml	250	4		
50	Ascorbic acid		gm	250	2		
51	Ammonium Acetate		gm	500	15		
52	Acetone		litter	5	1		
53	Peptone Bacteriological		gm	500	2		
54	Plate count agar		gm	500	4		
55	Methyl orange solution		ml	125	4		
56	N-Butyl Alcohol		ml	500	4		
57	SeliwanOff's Reagent		ml	500			
58	Sudan IV Solution		ml	500	2		
59	Sucrose Powder		gm	500	2		
60	Fructose powder		gm	500	2		
61	Hexane		ml	2.5	2		
62	Dextrose powder		gm	500	2		
63	Bleaching powder		gm	500	4		
64	Ammonium hydroxide		gm	500	2		
65	Aluminium chloride		gm	500	2		
66	Sodium nitrite		gm	500	2		
67	folin-ciocalteu reagent		ml	500	4		
68	Ethanol		ml	500	10		
69	n-butanol		ml	500	2		
70	Ammonium metavanadate		gm	500	1		
71	Ammounium molybdate tetrahydrate		gm	500	2		
72	Chloroform		litter	2.5	2		
73	Mannitol Salt Agar		gm	500	2		

74	Tryptic Soy Agar		gm	500	1		
75	Blood Agar		gm	500	1		
76	Phenol Red		ml	125	2		
77	Bromthymol blue		ml	125	2		
78	Bromocresol purple		gm	125	2		
79	Phenolphthalein		ml	125	6		
80	Pectinase food graded	food graded	gm	500	3		
81	low temperature amylase	textile graded	gm	1000	2		
82	Middle temperature amylase	textile graded	gm	1000	2		
83	high temperature amylase	textile graded	gm	1000	2		
84	acid cellulase	textile graded	gm	1000	2		
85	neutral cellulase	textile graded	gm	1000	2		
86	lacasse enzyme	textile graded	gm	1000	2		
87	Diammonium Hydrogen phosphate	food graded	gm	500	2		
88	Potassium pyrosulfite	food graded	gm	500	2		
89	Yeasts	food graded	gm	500	2		
90	Citric Acid	food graded	gm	500	2		
91	Pectin	food graded	gm	500	2		
92	Hand Gloves	Heat Resistant	carton		5		
93	DNA extraction kit (microbial- bacteria)	Qiagen, Invitrogen, promega or any other approved company	kit		5		
94	DNA extraction kit (blood and tissues)	Qiagen, Invitrogen, promega or any other approved company	kit		6		
95	DNA extraction kit (plant)	Qiagen, Invitrogen, promega or any other approved company	kit		4		
96	PCR purification kit	promega	kit		4		
97	DNA ladder	invitrogen	ml	1	5		

98	Gel loading dye	invitrogen	ml	1	5		
99	Parafilm tape		roll		20		
100	Giberellin plant hormone (GA3)	merck					
101	Muscovite (Mica powder)						
102	DNA extraction kit (microbial- fungi)	Qiagen, Invitrogen, promega or any other approved company	kit		5		
103	kjeldahl catalyst	merck	gm	500	8		
104	Potassium Dichromate	merck	gm	500	5		
105	Surcrose	merck	gm	500	5		
106	DPPH, Free Radical - CAS 1898-66-4 - Calbiochem	merck	gm	50	1		
107	Folin-Ciocalteu's phenol reagent	merck	ml	500	4		
108	Gallic acid	merck	gm	100	2		
109	L(+)-Ascorbic Acid	merck	gm	500	1		
110	Quercetin, Dihydrate - CAS 6151-25-3 - Calbiochem	merck	gm	500	1		

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Sl.no	Particulars	Specificatio n	Qty	Rate	Remarks
1	Micro cover glass	pkt	20		
2	glass slide	pkt	10		
3	Alcohol Burner Lamp	150ml	10		
4	Butterfly net		10		
5	Net, D-Frame Aquatic		4		
6	Vernier Caliper 150mm	digital (150mm)	5		
7	Measuring cylinder	50ml	12		
8	Measuring cylinder	100ml	12		
9	Measuring cylinder	1000ml	15		
10	Measuring cylinder	250ml	12		
11	Test tube rack for tube	16x150mm	10		
12	Mortar and pestle	With outer dia. 20 cm at top rim	4		
13	Polythene bottle wide mouth	125ml	100		

14	mini Rotary Shakers	Model: Rs-12R(dimension 270*260*156 mm) (speed range 80-200rpm)	1		
15	Filter Paper	cat No 1001-917(460mm x570mm,100/sheets)	7pkts		
16	Soxhlet fat extract	Buchi			
17	Utility Tray	Tarsons(LxWxH) mm(320x260x70)	30		
18	Biohazard Disposable Bags	12 x 24 inches(Red, Yellow & Natural)	200		
19	Conical Flask	100ml	50		
20	Deep Freezer	Capacity, 120,	1		
21	Refrigerator	capacity up to 200 litres	1		
22	Surgical Blade	No.12	5pkts		
23	Aluminum Foil	72meter	10roll		
24	Cotton		10 roll		
25	Lithium Maxcell Battery	LR44	20 pices		
26	Lithium cell battery	CR2032	20pices		
27	Duracell battery	9V	10pices		
28	water Distillation Unit	Labagua	1 set		
29	Nitrogen Anaylzer	Kjeldahl	set		
30	Capillary Tube	outer diameter of around 0.3µm	200		
31	Weighing Balance	100 gram to 2000 gram	2		
32	Compound microscope	Olympus brand	5		
33	Safety Emergency Shower Equipment and Eyewash for Laboratory	Stainless Steel	2		
34	sterile paper disc	for anitbiotic test	3 packets		

35	Rotatory shaker incubator	Large capacity, Standard Capacity 500ml*21, Temp. Range RT+5~60°C, Standard:220 V±10%, 50/60Hz;	2		
36	Flame photometer (supply and instalaltion)	Flame Photometer - Automatic Unit Without Dilution FP8600	1		
37	Micro Pippette	10 碌l	5		
38	Micro Pippette	20 碌l	5		
39	Micro Pippette	50 碌l	5		
40	Micro Pippette	100 碌l	5		
41	Micro Pippette	200 碌l	5		
42	Micro Pippette	1000 碌l	5		
43	Sterile filter tips,10 碌l (Rnase, Dnase & Pyrogen free)	10 box/ cartoon	5		
44	Sterile filter tips,20 碌l (Rnase, Dnase & Pyrogen free)	10 box/ cartoon	5		
45	Sterile filter tips,50 碌l (Rnase, Dnase & Pyrogen free)	10 box/ cartoon	5		
46	Sterile filter tips,100 碌l (Rnase, Dnase & Pyrogen free)	10 box/ cartoon	5		
47	Sterile filter tips,200 碌l (Rnase, Dnase & Pyrogen free)	10 box/ cartoon	5		
48	Sterile filter tips,1000 碌l (Rnase, Dnase & Pyrogen free)	10 box/ cartoon	5		
49	Centifuge Tube 15 ML.		5		

50	Sterile Gloves(Nitrile medical gloves)- blue colour- powder free (S)	10 box/carton	8		
51	sterile uricol container(50ml)	50/pkt	5		
52	7500 Fast & 7500 Real-Time PCR System (Supply and installation)	Applied biosystem	1		
53	Freeze dryer (supply and installation)	FreeZone 2.5 Liter -50C Benchtop Freeze Dryers,labconco	1		
54	Soil texture analyzer - Hydrometer kit- Royal Eijkelkamp	Maximum number of samples 6 Measuring range 0.995 - 1.035 g/ml and -5 - 60 g/l Reading accuracy 1 g/l Sample specification disturbed Voltage 230 volt Package size 120 x 80 x 64 cm Weight 59 kg Royal Eijkelkamp	2		
55	Volumetric dispenser- 50ml		3		
56	volumetric burette-50ml		3		
57	PH meter -digital	metler toledo	3		
58	digital refractometer	metler toledo	3		

59	Laboratory coat	size medium and large	20		
60	PCS tester-PCSTestr 35	Waterproof PCSTestr 35 pH/Conductivity/TDS/Salinity/ Temp Tester with ATC; (±0.01 pH resolution; 0 - 200.0 µS/cm; 0 - 2000 µS/cm; 0 - 20.00 mS/cm; 0 - 100.0 ppm; 0 - 1000 ppm; 0 - 10.00 ppt; 0 - 100.0 ppm; 0 - 1000 ppm; 0 - 10.00 ppt; 0 - 1.00%)	5		