

**Patharkandi College**  
**Department of Botany**  
**Equipments and Chemicals List**

**1. Equipments list**

Sl. No.	Items Name	Specifications	Make
1	Water Distillation Unit	4 Lit	Borosil
2	Autoclave,	88 - 221 L Laboratory Stainless Steel Vertical	
3	Laminar airflow (Horizontal)	Work Dimension (W1XD1XH1) x 650 x 570 mm (26.8" x 25.6" x 22.4") 680	Airtech
4	Hot Air Oven	Single Door (120 L)	
5	Deep Freezer (-20)		
6	Refrigerator	Double door (345 L)	
7	Incubator	300x300x300mm	U-Tech
8	Water Bath	Thermostatic Double Wall, 15 Litre, 12 Holes , 75 mm Dia, 350 x 400 x 100 mm	
9	PH Meter with buffer solution 4, 7, 10		U-Tech
10	Electric Weight Balance	Min - 0.001 g -250 g	
11	Magnetic Hot plate stirrer		
12	UV Spectrophotometer		
13	Clevenger apparatus	5000 ml RB (Complete units)	Borosil
14	Rotary Microtome		
15	Single Channel Micropipette- Fixed Volume	10 µL, 20 µL, 100 µL, 1000 µL	Merck/Eppendorf
16	Single Channel Micropipette Variable Volume	1-20µL, 10- 100µL, 100 -1000µL	Merck/Eppendorf
17	Micropipette tips	2-50, 10- 200, 100 -100 µL	Eppendorf
18	Micropipette Tips Box	2-50, 10- 200, 100 -100 µL	Eppendorf
19	Microcentrifuge tube	1.5 ml, 2 ml, 2.5 ml, 5 ml	Eppendorf
20	Centrifuge tube	15 ml - 50 ml	Eppendorf
21	Heating Mantle	5 L, 10 L, 20 L	
22	Distilled water Bottle	10 L, 20 L (Thomas Scientific)	Thomas Scientific
23	Paper chromatography	full size	
24	Spatula	Stainless steel, (11 cm, 12.5 cm, 14 cm, 16 cm, 20 cm, 22 cm)	Fisher Scientific
25	Spatula	Fiber	
26	Hand globes	Nitrile & plastic	
27	pocket lens		

28	Aluminium foils		
29	test tube holder		
30	Cetrifuge		Eppendorf/Fisher Scientific
31	Disecting microscope		
32	Cotton (Absorbant and none absorbant)		
33	Ocular Micrometer		
34	Stage Micrometer		
35	Scalpal Holder		
36	Scalpal blade		
37	Blood typing kit		
38	Soil Thermometer	Moisture pH Light, Acidity, Sunlight Intensity, LCD Display Temperature Digital Sensor	SlideNBuy
39	Anemometer		
40	Psychrometer/Hygrometer		
41	Rain gauge		
42	Lux meter		
43	Haemocytometer		
44	DNA isolation kit		
45	Soxhlet Apparatus	RB (5000 ml) Complete Set	Borosil
46	Agarose Gel Running Unit	Complete set with casting tray	
47	SDS PAGE Running unit	Complete set with glass plates	
48	Acid protective gloves		
49	Amber Color reagent bottle	Wide mouth (50, 100, 250 mL)	Borosil
50	TLC Chamber	Rectangular (H x L) 20 X 20 cm, 30 X 30 cm; round (HxD) 15 x 5 cm	Borosil
51	TLC glass plate	Different size	Borosil

## 2. Chemicals and reagents list

Sl. No.	Chemical Name	Specification	Make
1	n-butanol	1 L	Merck/Hi-media
2	methyl ethyl keton	1 L	Merck/Hi-media
3	acetone	2.5 L	Merck/Hi-media
4	Petrolium ether	2.5 L	Merck/Hi-media
5	Hexan	2.5 L	Merck/Hi-media
6	HCL	1 L	Merck/Hi-media
7	H2SO4	1 L	Merck/Hi-media
8	Nitric acid	1 L	Merck/Hi-media
9	Agar agar	500 g	Merck/Hi-media
10	Silica gel for Glass TLC	500 g	Merck/Hi-media

11	Schiff's reagent	100 g	Merck/Hi-media
12	Sodium chloride	500 g	Merck/Hi-media
13	Periodic acid	100 g	Merck/Hi-media
14	Acetocarmine	100 mL	Merck/Hi-media
15	LB media	500 g	Merck/Hi-media
16	Diphenylamine reagent	250/500 g	Merck/Hi-media
17	Trizol Reagent	100 ml	Merck/Hi-media
18	Toluidine Blue	100 mL	Merck/Hi-media
19	Diphenyl amine	250 mL	Merck/Hi-media
20	Oil Red O	100 mL	Merck/Hi-media
21	Agarose	500 g	Merck/Hi-media
22	Ammonium Per Sulphide	500 g	Merck/Hi-media
23	Sodium Dodecyl Sulphate	250 g	Merck/Hi-media
24	TEMED	100 mL	Merck/Hi-media
25	Acrylamide	500 g	Merck/Hi-media
26	Bis-Acrylamide	500 g	Merck/Hi-media
27	Glycine	500 g	Merck/Hi-media
28	Tris-HCl	250 g/500 g	Merck/Hi-media
29	Tris-Base	500 g	Merck/Hi-media
30	Glycerol	500 ml	Merck/Hi-media
31	Ethidium Bromide	100 g	Merck/Hi-media
32	Trizol Reagent	100 ml	Merck/Hi-media
33	Coomasie Brilliant Blue	100 mL	Merck/Hi-media

### 3. Plants Specimens and Permanent slide

Sl. No.	Items Name	Specification	Type
1	volvox		Specimens
2	Oedogonium		Specimens
3	Coleochaete		Specimens
4	Chara		Specimens
5	Vaucheria		Specimens
6	Ectocarpus		Specimens
7	Fucus		Specimens
8	Polysiphonia		Specimens
9	Riccia		Specimens
10	Marchantia		Specimens
11	Marchantia	(V.S. of Antheridiophore, LS of Sporophyte)	Permanent Slides
12	Anthoceros		Specimens
13	Anthoceros	V.S. of Thallus	Permanent Slides
14	Sphagnum		Specimens
15	Sphagnum	(Whole mount of leaf)	Permanent Slides

16	Funaria		Specimens
17	Funaria	Showing Antheridial and Archegonial heads	Permanent Slides
18	Funaria	LS of capsule and protonema	Permanent Slides
19	Psilotum	TS of synangium	Permanent Slides
20	Pteris	TS of Rhizome, Whole mount of prothallus with sex organs and young sporophyte	Permanent Slides
21	Peziza		Specimens
22	Procholoron		Specimens
23	type of bacteria		Permanent Slides
24	Rhizopus	Asexual and sexual stage	Permanent Slides
25	Aspergillus	Asexual and sexual stage	Permanent Slides
26	Albugo	Asexual and sexual structure	Permanent Slides
27	Penicillium	Asexual and sexual stage	Permanent Slides
28	Alternaria	Asexual and sexual stage	Specimens and Permanent slides
29	Lichen	Growth form Crustose, foliose, fruticose	Specimens
30	Funaria	antheridial and archegonial heads	Permanent Slides
31	Selaginella	L.S. Strobilus	Permanent Slides
32	Equisetum	T.S. Rhizome	Permanent Slides
33	Lichen	Rreproductive structures Soredia and apothecium	Permanent Slides
34	Citrus canker		Permanent Slides
35	TMV		Permanent Slides
36	Cycus		Specimens
37	Pinus		Specimens
38	Gnetum		Specimens

#### Contact Details

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