



Phone No.2426819, Fax: 0194-2429014

Website:islamiacollege.edu.in

Email: principal@islamiacollege.edu.in

ISLAMIA COLLEGE OF SCIENCE AND COMMERCE,
SRINAGAR, KASHMIR- 190 002
UGC AUTONOMOUS
(NAAC ACCREDITED GRADE-A)

NOTICE INVITING e-TENDERS NO.15 OF 2022
DATED 07-02-2022

For and on behalf of the Islamia College of Science and Commerce, Srinagar "Accounts officer, Islamia College of Science and Commerce, Srinagar" invites e-tenders through www.jktenders.gov.in as RFP in two cover format for supply, of various types of **LABORATORY ITEMS INCLUDING CHEMICALS, GLASSWARE, EQUIPMENT, BIOLOGICAL MATERIAL, PLANTS, SLIDES, MISCELLANEOUS ETC.**, to various department / section of the College. The Bidding documents consisting of qualifying information, eligibility criteria, specifications, bill of quantities (B.O.Q.) set of terms and conditions and other details can be viewed/downloaded from the JK e-Tender website www.jktenders.gov.in as per the schedule of dates given below:

S. NO.	PARTICULARS	DATE	TIME
1.	e-Tender Notice No.15 of 2022 dated 07-02-2022		
2.	Date of issuance of Tender Notice	07-02-2022	05:00 p.m.
3.	Start of downloading of bid documents	08-02-2022	02:00 p. m.
4.	Bid/Tender submission start date	08-02-2022	05:00 p.m.
5.	Bid/Tender submission end date	22-02-2022	02:00 p.m.
7.	Opening of technical bid/tender	23-02-2022	02:00 p.m.
9.	Venue of opening technical and financial e-Bids	College campus	
10.	Cost of the e-Tender Document	Rs.500/-	
11.	Amount of Earnest Money (EMD) to be deposited in the form of Call Deposit Receipt (pledged to the Accounts Officer, Islamia College, Srinagar)	2% of the value of the total rates quoted by the intending tenderer(s) / Bidders.	

The interested bidders to submit their offers in terms and conditions, technical specifications and annexure forming part of this Tender Document. Further, any notification regarding this tender shall be available on the College website www.islamiacollege.edu.in and all bidders should be visiting the same to remain updated. The undersigned reserves the rights to accept or reject any or all tenders without assigning any reason thereof.

No. 3254-60/E-33/A-35

Dated:07-02-2022

Sd/-

Accounts officer

TERMS AND CONDITIONS:

1. The bidders are advised to study the bidding document carefully. Submission of e-Bid against this NIT shall be deemed to have been done after careful study.
2. The rates quoted shall be compared only for specific product quality as mentioned in the BOQ. In case of any deviation from specification(s) mentioned in the NIT, such tenders will not be considered for comparison.
3. The intending tenderers / Bidders must submit 2% of the value of the total rates quoted in the shape of Call Deposit Receipt pledged to "Accounts Officer, Islamia College of Science and Commerce, Srinagar" along with the Tender, failing which Tender will be rejected. EMD of unsuccessful bidders shall be returned within one month from the date of Tender opening and for successful bidders EMD shall be retained till the compilation of successful supply, installation and commissioning etc. or expiry of warranty period wherever applicable. Successful bidders / suppliers shall have to submit Rupees One lakh as performance guarantee by way of bank guarantee during the warranty period/two years.
4. All the required documents excluding price schedule/BOQ should be uploaded by the Bidder electronically in the PDF format, whereas price schedule/BOQ should be uploaded electronically in the same BOQ sheet provided with the NIT.
5. Bids must be accompanied with cost of Tender document in shape of demand draft favouring Accounts Officer, Islamia College of Science and Commerce, Srinagar.
6. The payment shall be released on production of GST enabled bill attached with requisite documents i.e. registration certificate, certificate from Convenor College Purchase Committee to the effect that supply has been received satisfactory as per the specifications, and conditions as laid down in the supply order.
7. The acceptance of the supplies to be made by the supplier shall be subject to the verification and examination in respect of the specification, designing, standard of item by College Purchase committee.
8. The Supply, installation and commissioning should be completed within 10 days issue of supply order.
9. Wax Sealed tenders addressed to the Accounts Officer of the College on the letter head of the tenderer(s) must be attached with all required documents. Tender(s) found without these documents shall not be considered.
10. Prices should be inclusive of all taxes and levies, GST etc. under rules and FOR College.
11. The firm shall not sublet/transfer or assign the contract to any other firm/agency.
12. Bids must be accompanied with cost of Tender document in shape of demand draft favouring Accounts Officer, Islamia College of Science and Commerce, Srinagar
13. The date and time of opening of Financial-Bids shall be notified on website <http://jk tenders.gov.in>. The Financial-bids shall be opened accordingly online on the same website in the office of the Principal, Islamia College of Science and Commerce, Srinagar.
14. The e-Bids will be electronically opened in presence of bidder's representatives who choose to attend at the venue, date and time in the table mentioned in the e-NIT or any subsequent day to the convenience of the Tender Opening Committee / College Purchase Committee. An authority letter of bidder's representative will be required to be produced.
15. In the event of date specified for e-Bids opening being declared a holiday then the date for opening of e-Bids shall be the following working day at the appointed time and place.
16. The Principal, Islamia College of Science and Commerce, Srinagar reserves the right to cancel any or all the e-Bids/ the e-Bid process without assigning any reason thereof. The decision of the College Administration shall be final and binding.
17. 5% bank guarantee (during the warranty period) for the total value of supply order to be provided/submitted by the qualified vendor in whose favour the supply order is issued.
18. Minimum AVERAGE TURNOVER of Rs. 15,00,000/= in any one of the last 03 financial years. (Balance sheet/CA certificate

LIST OF ITEMS i

List of Chemicals(AR Grade)			
S.No.	Name of the Chemical	Specification	Quantity
1.	Acetamide	500 grams	10 bottles
2.	Acetaniride	500 grams	05 bottles
3.	Acetyl chloride	500 ml	10 bottles
4.	Acetic anhydride	500 ml	10 bottles
5.	Acetic acid	500ml	30 bottles
6.	Alumina (neutral)	10 gram	10 bottles
7.	Alumina(basic)	10 gram	10 bottles
8.	Anthracene	500 grams	10 bottles
9.	Adipic acid	500 grams	10 bottles
10.	Amino acids kit	--	05 kits
11.	Amyl alcohol	500 ml	10 bottles
12.	Ammonium thiocyanate	500 grams	20 bottles
13.	Aceto phenonl	500 ml	10 bottles
14.	Aniline	500ml	10 bottles
15.	Animal charcoal(activated charcoal)	500 grams	05 bottles
16.	Aluminiua potash	500 grams	05 bottles
17.	Ascorbic acid	500 grams	05 bottles
18.	Ammonium hydroxide	500 ml	20 bottles
19.	adipoyl chloride	500ml	05 bottles
20.	p- anisidine	500 grams	05 bottles
21.	Benzaldehyde	500 ml	20 bottles
22.	Bradys reagent	500 ml	05 bottles
23.	Benzoic acid	500 grams	05 bottles
24.	Benzyl alcohol	500 ml	05 bottles
25.	Benzmide	500 grams	10 bottles
26.	Buffer tablets (4,7& 9)	Packets	02 packets of each buffer
27.	Bromocresol green (BCG)	25 grams	02 bottles
28.	Benzophenone	500 ml	10 bottles
29.	Bromine tube	20 ml tube	20 tubes
30.	Bismuth nitrate	500 grams	10 bottles
31.	Benzene	500 ml	20 bottles
32.	Benedicts reagent	500 ml	05 bottles
33.	p-Bromoacetaniide	500 grams	05 bottles
34.	Cyclohexanol	500 ml	10 bottles
35.	Cylcohexanone	500ml	10 bottles
36.	Carbon Disulphide	500 ml	10 bottles
37.	Carbon tetrachloride	500 ml	10 bottles
38.	Chloroform	500 ml	05 bottles
39.	cuprous chloride	500 grams	10 bottles
40.	chromium potassium sulphate (chromealum)	500 grams	10 bottles
41.	cinnamic acid	500 grams	05 bottles
42.	4- chloro benzaldehyde	500 ml	05 bottles
43.	ceric ammonium nitrate	500 grams	05 bottles
44.	Catechol	25 grams	05 bottles
45.	calcium chloride (anhydrous)	500 grams	20 bottles

LIST OF ITEMS i

46.	calcium sulphate (anhydrous)	500 grams	05 bottles
47.	calcium oxide	500 grams	05 bottles
48.	cobalt chloride	500 grams	10 bottles
49.	Diethyl ether	500 ml	10 bottles
50.	Diphenylamine	500 ml	05 bottles
51.	Di benzal acetone	500ml	05 bottles
52.	Dimethyl glyoxlml (DMG)	100 grams	05 bottles
53.	Dimethyl formamide (DMF)	100 grams	05 bottles
54.	Dimethyl sulphoxide (DMSO)	500ml	05 bottles
55.	Dimethyl sulphate	500 ml	05 bottles
56.	2,6 dichloroindo- phenol	500 gms	04 bottles
57.	α -dinitro bnezene	500 ml	05 bottles
58.	Dioxane	1000 ml	06 bottles
59.	Dichloromethane	500 ml	05 bottles
60.	Ehtyl acetate	500 ml	10 bottles
61.	Ehtyl formate	500 ml	05 bottles
62.	Ethyl methyl ketone	500 ml	10 bottles
63.	Ehthyl glycol	500 ml	05 bottles
64.	Ethylene diamine tetraacetic acid (EDTA) di sodium salt	100 grams	20 bottles
65.	Ethyl alcohol	500 ml	05 bottles
66.	Exochroma slackt		
67.	Ethylene diamine	500 ml	06 bottles
68.	Hexamethylene diamine	500 gms	06 bottles
69.	Formic acid	500 ml	06 bottles
70.	Potassium bromide IR grade	100 gms	06 bottles
71.	D- fructose	500 grams	05 bottles
72.	Fuming nitric acid	500 ml	06 bottles
73.	Ferrous sulphate	500 gms	06 bottles
74.	Ferric chloride	500 grams	05 bottles
75.	Fehling reagent A and B	500 ml	06 bottles each
76.	D- Glucose	500 grams	10 bottles
77.	D- Galactose	500 grams	05 bottles
78.	Glycerol	1000 ml	10 bottles
79.	Hydrogen peroxide	500 ml	05 bottles
80.	Hydrochloric acid	05 ltrs	10 bottles
81.	Hydroxylamine hydrochloride	100 gms	08 bottles
82.	Iodine	100 grams	05 bottles
83.	Isopropanol	50 ml	10 bottles
84.	Iodoform	100 gms	04 bottles
85.	potassium thiocyanate	500 grams	05 bottles
86.	phthaloyl chloride	100gms	06 bottles
87.	Labolene	2.5 ltrs	02 bottles
88.	liquid paraffin	500 ml	05 bottles
89.	Lactose	500 grams	05 bottles
90.	lactic acid	500 grams	05 bottles
91.	lead tetra acetate	100 gms	06 bottles
92.	magnesium carbonate (anhydrous)	500 grams	05 bottles

LIST OF ITEMS i

93.	magnesium sulphate (anhydrous)	500 grams	05 bottles
94.	manganese sulphate (anhydrous)	500 grams	05 bottles
95.	methyl orange	100 grams	02 bottles
96.	methylene blue	100 grams	02 bottles
97.	methyl red	100 grams	02 bottles
98.	mohr salt	500 grams	05 bottles
99.	Muroxide indicator (Ammonium Purprate)	05 grams	05 bottles
100.	d- maltose	500 grams	05 bottles
101.	maleic acid	100 gms	06 bottles
102.	D- mannoh	500 gms	06 bottles
103.	magnesium turnings	500 gms	04 bottles
104.	nickle chloride	500 grams	05 bottles
105.	nickle sulphate	500 grams	05 bottles
106.	O- nitrophenol	500 ml	05 bottles
107.	P-nitrophenol	500 ml	05 bottles
108.	α - naphthol	500 grams	05 bottles
109.	β -naphthol	500 grams	05 bottles
110.	Ninhydrin	25 grams	10 bottles
111.	Solid Amins		
112.	Potassium hydroxide	500 grams	10 bottles
113.	potassium dichromate	500 grams	05 bottles
114.	potassium permanganate	500 grams	05 bottles
115.	potassium bromide (IR grade)	100 grams	03 bottles
116.	potassium bromate	500 grams	05 bottles
117.	potassium sulphate (anhydrous)	500 grams	05 bottles
118.	potassium carbonate	500 grams	05 bottles
119.	potassium persulphate	500 grams	05 bottles
120.	potassium iodide	500 grams	15 bottles
121.	potassium nitrate	500 grams	05 bottles
122.	phosphorus oxychloride	100 gms	06 ampules
123.	phosphoric acid	500 ml	10 bottles
124.	phosphorus penta-chloride	100 gms	06 bottles
125.	phosphorus trichloride	100 ml	06 bottles
126.	Pyridine	500 ml	05 bottles
127.	phosphate buffer	500 ml	08 bottles
128.	phenanthrene	500ml	05 bottles
129.	Polyester granules	500 gms	05 bottles
130.	phthaloyl chloride	250 ml	05 bottles
131.	Polystyrene	500 gms	06 bottles
132.	Phthalimide	500 gms	06 ottles
133.	Phenylhydrazine Hcl	500 gms	06 gms
134.	Rubioxic acid	100 grams	05 bottles
135.	Resorcinol	500 grams	05 bottles
136.	silica gel for CC	500 grams	05 bottles
137.	Silica gel for TLC	500 grams	05 bottles
138.	Silica gel blue	500 grams	05 bottles
139.	Sucrose	500 grams	05 bottles

LIST OF ITEMS i

140.	Sodium sulphate	500 grams	05 bottles
141.	Sodium metal	500 grams	05 bottles
142.	Sodium thiosulphate	500 grams	05 bottles
143.	Sodium nitrate	500 grams	05 bottles
144.	Sodium Sulphate (anhydrous)	500 grams	05 bottles
145.	Sodium chloride	500 grams	05 bottles
146.	Silicon greese	100 grams	10 bottles
147.	Salicylic acid	500 grams	05 bottles
148.	Sodium sulphite	500 grams	05 bottles
149.	Silver oxide	500 grams	05 bottles
150.	Silver nitrate	500 grams	05 bottles
151.	Silver Chloride	500 grams	05 bottles
152.	Sodium bisulphite	500 grams	05 bottles
153.	Solochrome black- T	100 gms	06 bottles
154.	Sodium nitro pruside	500 grams	05 bottles
155.	Sebascoyl chloride	50 gms	10 bottles
156.	Sodium citrate	500 grams	05 bottles
157.	Sodium acetate	500 grams	05 bottles
158.	Styrene	500 ml	06 bottles
159.	Salicyldehyde	500 gms	06 bottles
160.	sodium borohydride	500 gms	04 bottles
161.	Thio urea	500 grams	05 bottles
162.	Tetrahydrofuran	500 ml	06 bottles
163.	Ferrous Sulphide	500 grams	05 bottles
164.	Toluene	500 ml	20 bottles
165.	Terephthaloyl chloride	100 gms	08 bottles
166.	Urea	500 grams	05 bottles
167.	Domex 50		
168.	Amberlite -IR 120	10 gms	2 bottles
169.	Amberlite - IR 400	10 gms	2 bottles
170.	Die Methyl ether	500 ml	05 bottles
171.	Lacto phenol	125 ml	02 bottles
172.	Ethanol	2.5 ltr	05 bottles
173.	Xylene	500ml	05 bottles
174.	Giemsa stain	10 gms	04 bottles
175.	Wrights stain	5 gms	04 bottles
176.	Lieshman stain	5 gms	04 bottles
177.	Paraffin Wax	500 gms	10 packs
178.	Aceto Alum carmine	5 gms	2 bottles
179.	Borex carmine	5 gms	2 bottles
180.	Anti-Sera (A,B, & D)	Kit	6 kits
181.	Sodium thiosulphate	500 gms	10 packs
182.	Starch	500 gms	10 packs
183.	Spirit (for spirit lamps)	1 liter	10 packs

LIST OF ITEMS i

184.	Manganese sulphate	250 gms	10 packs
185.	Potassium Iodide	500 gms	10 packs
186.	Sodium hydroxide	500 gm	10 packs
187.	Micanazole Nitrate	5 grams bottle	2 no's
188.	Phenolphthalein	100 gms	5 packs
189.	Chloroform	2.5 lts	10 bottles
190.	Methanol	2.5 lts	10 bottles
191.	Agar	500 gms	4 packs
192.	Agrose powder	500 gms	2 packs
193.	SDA (Agar)	100 gms	2 packs
194.	Sodium dodecyl sulphate	250 gms	2 bottkes
195.	PDA (Agar)	100 gms	2 packs
196.	EDTA disodium salt	500 gms	10 packs
197.	EDTA disodium (Molecular Biology grade)	100 gms	06
198.	Acrylamide (molecular bio grade)	500 grams	01 bottle
199.	Agarose (molecular bio grade) for electrophoresis	25 grams	02 bottles
200.	Ammonium Persulphate	25 grams	02 bottles
201.	Ammounium acetate	250 grams	01 bottle
202.	Ampicillin	25 grms	25 grams
203.	Anthrone	25 grams	25 grams
204.	Beta Mercapto Ethanol	100 ml	02 bottles
205.	Bis-Acrylamide	25 grams	04 bottles
206.	Bromophenal Blue	5 grams	02 bottles
207.	Buffer Tablets/Capsules	(pH 4.0, 7 and 9.2)	1 packet each
208.	Butanol	500ml	04
209.	Calcium Chloride extra pure	250 grams	02
210.	Calf thymus DNA	0.5 grams	02
211.	Cetyltrimethyl ammonium (CTAB)	100 grams	02
212.	Chloroform	500ml	03
213.	Chloromphenicol	10 grams	10 grams
214.	Coomasie Brilliant blue R 250	25 grams	02
215.	Diphenyl amine	25 grams	02
216.	DMSO	500ml	500ml
217.	DNA Ladder 100 bp	0.5ml	02
218.	DNA Ladder 1000 bp	0.5ml	02
219.	Ethanol	500ml	24
220.	Ethidium bromide	10 grams	02
221.	Ethyl Acetate	500ml	05
222.	Ferric Chloride	500 grams	01
223.	Ficoll	25 gram	25 grs
224.	Formaldehyde Extrapure	500ml	03

LIST OF ITEMS i

225.	Iso Amyl Alcohol	500ml	04
226.	Iso propanol	250ml	5
227.	Karamycin	10ml	03
228.	Lithium chloride	250 grams	250 grams
229.	Lysozyme, chicken egg white	05 grams	06
230.	Magnesium Chloride	100 grams	02
231.	Maltose	500 grams	02
232.	Methanol	500 ml	04
233.	Nutrient Agar LB	500 grams	03
234.	Nutrient Broth LA	500 grams	03
235.	Palmitic acid	100 grams	02
236.	Phenol	500ml	02
237.	Protein Marker (10-250 KDa)	0.5 ml	02
238.	Resorcinol	100 grams	02
239.	Sodium dodecyl Sulphate (SDS)	500 grams	03 bottles
240.	Sodium Hydroxide	500 grams	03
241.	Teepol	500 ml	02
242.	TEMED	100ml	03
243.	Tris	500 grams	02
244.	L-Glycine	500 grams	02
245.	Potassium Hydroxide	250 grams	02
246.	Polyethylene glycol PEG 8000	250 rams	250 grams
247.	Mercuric sulphate	25 grams	02
248.	Phenyl hydrazine	100 grams	02
249.	Sodium nitrate	50 grams	02
250.	Copper acetate	50 grams	02
251.	Bromine water	500 ml	02
252.	Alcian blue	50 gms	04
253.	Alizaraine red	25 gms	04
254.	Borax carmine	100 ml	04
255.	Eosin yellow	5 gms	04
256.	Erythrosin	25 gms	04
257.	Fast green	25 gms	04
258.	Geimasa's stainpowder	5 gms	04
259.	Haematoxylin	5 gms	04
260.	ORECIN	5 gms	04
261.	Fuchsin basic and acidic	25 gms	04 each
262.	Grams stain kit	Kit	02
263.	Feulgen stain	250 ml	02
264.	Congo red	50 gms	2 packs
265.	Glycerol	500 ml	4 bottles
266.	Potassium dichromate	500 gms	8 packs
267.	Diphenylamine indicator	100 gms	06
268.	Phosphoric acid	500 ml	06
269.	Ferrous ammonium sulphate	500 gms	06
270.	Mangnous sulphate	500 gms	04
271.	Manganese sulphate	500 gms	06
272.	Potassium iodide	500 gms	06

LIST OF ITEMS i

273.	Sodium azide	100 gms	06
274.	Phenophthalene	100 gms	10
275.	Colchicine	5 gm	01
276.	Ethyl methane sulphonate	1 gm	02
277.	DPX mountant	100 ml	02
278.	Canada balsam	100 ml	02
279.	Bold Basal medium	100 gm	02
280.	CHU medium	100 gm	02
281.	BG-II medium	100 gm	02
282.	MES Volvox medium	100 gm	02
283.	Coons medium	100 gm	02
284.	Czepeks medium	100 gm	02
285.	Richards solution	100 gm	01
286.	PDA	100 gm	02
287.	Cotton blue	10 gm	05
288.	Cotton blue in Lactophenol	100 ml	02
289.	Cobbs sieve	01	01
290.	MS medium	500 gm	04
291.	BAP	05 gm	05
292.	2, 4, D: Chlorophenyl acetic acid	5 gm	05
293.	Indole acetic acid	05 gm	05
294.	NAA, Naphthalin acid	05 gm	05
295.	Gibberlins GA3	05 gm	05

List of GLASSWARE (BOROSILICATE GLASS)			Quantity
S.No.	Name of the Item	Specification	2 dozen each
1.	Pipette (Glass) (BOROSILICATE GLASS)	1 mL,	

LIST OF ITEMS i

2.	Pipette (Glass) (BOROSILICATE GLASS)	2 mL	
3.	Pipette (Glass) (BOROSILICATE GLASS)	5 mL	
4.	Pipette (Glass) (BOROSILICATE GLASS)	10 mL	
5.	Measuring cylinders (BOROSILICATE GLASS)	5 mL, 10 mL, 50 mL 100 mL and 250 mL	50 each (Borosil)
6.		10 ml	
7.		50 ml	
8.		100ml	
9.		250 ml	
10.	Beakers (BOROSILICATE GLASS)	50 mL	100 (Borosil)
11.		100 mL	100
12.		250 mL	100
13.		500 mL	100
14.	Pipette fillers	60 no	60 nos
15.		25 ml	60nos
16.	Test tubes (BOROSILICATE GLASS)	5 mL	1000 No's
17.		10 ML	1000 nos
18.	Glass funnel	75 mm	05 dozen
19.	Glass rods		05 dozen (Borosil)
20.	Petri-dish for bacterial culture		01 box
21.	Cover slips	100 pack	20 nos
22.	Pistol motor		02 rim
23.	Filter paper		02 dozen
24.	Gloves		03 boxes
25.	pH paper	Universal range 1- 14	100 packs
26.	Aluminium foil	18 micron thick 24 meters	4 no
27.	Silicone pipes for distillation apparatus	Silicone 10 mm	10 rolls
28.	Automatic water distillation unit (Cabinet still) BOROSILICATE GLASS	With safety features, gate valve,flow switch,temp switch, level sensor with 4 Lt/hr capacity	03 nos
29.	Double stage water distillation unit stainless steel	With 5 liter /hour producing capacity with 4.5 KW with 220 volts, stainless steel 304, double direction regulate pressure valves, safe protection without water, high quality distillation with electrical heating gain	03 nos
30.	Glass pipette rack	Non metallic	100 No.s
31.	Beakers	1lt,500ml, 250ml, 100ml,50ml	1ltr= 100 No's, 500ml=100 no;s,

LIST OF ITEMS i

			250ml =1000 no;s, 100ml=200 no;s, 50ml= 200 no's
32.	Burettes	100m,50ml	500no's of each
33.	Condensers plain	200ml,300ml,400ml,	50 no;s each
34.	Lebig Codenser	200ml	50 no;s
35.	Davies Condenser	200ml	50 nos
36.	Chromatographic Column	500 ml	20 nos
37.	Conical (flask)	500ml, 250ml, 100ml, 50ml	500ml= 100 no;s, 250ml= 1000no's,100ml= 100 no;s, 50ml =100 no's
38.	Measuring flask	1000ml,500ml,250ml,100ml,50ml,25ml	1000ml =100no;s and Remaining 200 no's each
39.	(volumetric flask) Flask		
40.	Iodine Flask	250ml,100ml,50ml,	250 ml =200 no's, 100ml = 100 no's, 50ml= 100 no's
41.	Round bottomed (R.B) with joint and stopper single necked	3lit., 2lt. 1lt, 500ml ,250ml ,100ml	3ltr= 50 no's, 2ltr=50 no's, 1ltr= 50 no's, 500ml = 100 no's, 250ml= 100 no's, 100ml =100 no's
42.	Flat Bottomed (R.B) single necked with joint and stopper	1.500ml, 250ml	100 no's of each
43.	Filtration apparatus wit 500 ml filtration apparatus vacuum unit with organic filter membranes with 0.45 micro M pore size nylon filter membranes	Made of high quality borosilicate glass	10 sets
44.	Solvent Filtration Assembly Kit, Solvent Filtration Assembly glass/SS (Upper part) with 1 litre bottom flask glass size 47mm	The filtration assembly is ideal for carrying out the filtration of organic solvents, aqueous solutions, air/gas etc. The filtration assembly easily fit into a variety of vessels and flasks. They provide a minimum holding up of a sample and can withstand heavy pressure.	10 nos
45.	Flasks + suction pumps	1000ml,500ml	20 no's of each
46.	Dean Stark Apparatus (set)	100 ml capacity	10 nos
47.	Glass Crucible	G3,G4	500no's of each
48.	Glass columns for chromatography	500 ml, 250 ml	20 each

LIST OF ITEMS i

49.	Glass slides (TLC)		500 no's
50.	Slides coated for (TLK)	a)Silica b)Alumina	100 no's of each
51.	Glass rodes	Kg	20 kg
52.	Melting point Cappliers		100 boxes/ packets
53.	Glass Pipettes	20ml,10ml,5ml,2ml,.1ml,.2ml,.5ml	300 no's of each
54.	Measuring cylinders	100ml,50ml,25ml,10ml,5ml	100 no's of each
55.	Spraying Bottles	100ml	20 no's
56.	Soxhlet Appratus set		05 no's
57.	sample tubes/ culture tubes	10ml , 5ml	500 no's of each
58.	Boiling tubes (T-tubes) lager size	100ml, 50ml, 20 ml,	200 no's of each
59.	Test tubes of different sizes	30ml, 20ml, 10ml,	500 no's of each
60.	watch Glass	4 inch	100 dozens
61.	Funnels of different sizes	6 inch,4 inch,2 inch	6 inch = 300 no's, 4 inch = 300 no's, and 2inch = 100 no's
62.	Whatman filter paper	Packets	20 packets
63.	Blotting paper		20 packets
64.	Butter paper	Packets	10 packs
65.	Cello tape (1 inch)	Inch wide	100 no's
66.	Tape Dispenser (large size)	For 1 inch tape	10 no's
67.	Beakers (plastic, graduated)	1000ml, 500ml,250ml	100ml=100no's, 500ml= 100no's, 250ml= 300 no's
68.	Measuring cylinder (Plastic)	100ml, 50m, 25ml, 20ml ,10ml,	100ml=100no's, 50ml= 100no's, 25ml= 300 no's, 20ml= 100 nos, 10ml = 100no's
69.	Measuring cylinder (glass)	100ml, 50m, 25ml, 20ml ,10ml,	100ml=100no's, 50ml= 100no's, 25ml= 300 no's, 20ml= 100 nos, 10ml = 100no's
70.	Test tube stands	(24 mm x 12)	200 no's
71.	Pipette stand	Rotary	200 no's
72.	Amber Reagent bottles (glass)	500 ml	1000 no's
73.	PLANTON- Plant tissue culture container	500ml	10 no's
74.	Rack for microtubes,	20 places, 1.5 ml	20 no's
75.	Float rack,	8 places	05 no's
76.	Disposoable bag for dustbins	Green, blue and black (polythene)	10 packs of each color
77.	Universal test tube rack	(4 sided) polypropylene	04 no's
78.	Protective gloves	(plastic) medium size	10 packs
79.	Petri dishes	(50 x 17 mm)	12 nos
80.	Pipette filler for 10 ml	10 ml ,manual	2 dezons

LIST OF ITEMS i

	(manual)		
81.	Microtips	(10 ul)	10 boxes
82.	Microtips	(200 ul)	10 boxes
83.	Microtips	(1000 ul)	10 boxes
84.	Microcentrifuge tubes	(1.5 ml)	2 dozen
85.	Cotton		6 rolls
86.	Tissue paper rolls	4 inch	12 rolls
87.	Muslin cloth		10 metres
88.	Polypropylene tubes	50 ml	200 no's
89.	Surgical masks		1 packet
90.	Protoco skull cap	Plastic	1 packet
91.	Paraffin		1 roll
92.	Spreader for microbiology	Disposable	100no's

LIST OF ITEMS i

List of Equipment's			
S.No.	Name of the item	Specifications	Quantity
1.	Digital Melting Point Apparatus		10 no's
2.	Heating Mantels of Different sizes	5 ltrs, 3 ltrs, 2 ltrs, 1 ltr	05 of each
3.	Hot plate		05 no's
4.	Oven	15 ltrs	03 no's
5.	Weighing Balances electronic		05 no's
6.	Thermostatic water bath multiple hole electrical heating single phase with stirrer 425x250x225 mm	8 hole thermal control and electrical heating system	05 no's
7.	Thermostatic water bath single hole electric heating	Single hole	05 no's
8.	water bath copper	6 inch	100 no's
9.	Vaccum Pumps	1 hp, copper winding	10 no's
10.	Spectrophotometer (UV)	190-1100 nm, light source xenon flash lamp (80 HZ), speed 24000 nm/min, double beam, bandwidth 1.5nm, z height 20 nm	1 no
11.	Rotatory Shaker		
12.	Bench top PH meter with manual calibration and recorder output and gel filled PH electrode	pH range 0.00 to 14, resolution 0.01 Ph, accuracy +/- 0.01 %, manual temperature compensation,	05 nos
13.	Bench top conductivity meter with LCD display with automatic temperature control with probe and stand	Calibration upto 4 points, Min conductivity 0 micro siemens /cm and max 200 micro siemens/cm, resolution 0.1/1 micro siemens; .01/0.1mS/cm, conductivity accuracy 1%	5 nos
14.	Polarimeter	Polar scale range +/- 180 degree with 0.1 reading, with observation tubes 100 and 200 mm, accuracy 0.1, polarising device glan Thomson prism and Laurent quartz half plate	10 nos
15.	Dewar flask	1 liter	10 no
16.	Water steel distillation plant		01 No.
17.	SDS PAGE apparatus (small size)	Specifications: This unit should be used with Submarine and MiniVertical electrophoresis unit.	02

LIST OF ITEMS i

		Should be able to run two units at constant voltage or constant current with maximum output of 300V, 400mA and 80Watts. Time should be set in 1 minute increment or continuous mode.	
18.	Power Pack for electrophoresis	Midi submarine gel unit with a compact tank to reduce the buffer volume required to cover the gel, providing greater control over the voltage gradient and run-time. Tray should be transparent to allow the user to image the gel without risk of damage due to handling. The unit should include buffer chamber, safety lid with cables, UV transparent tray and one each 1.5 mm thick 15 and 20 well comb.	02
19.	Digital Binocular bright field microscope (100 Camera & tablet) with 3.2 mp camera	(Optika B-190TB)	01No.
20.	Magnus stereo microscope with achromatic lens with zoom ratio 6:1 (MAGNUS MSZ – TR HALOGEN)	(Magnus)	01No.
21.	Wesmox stereo microscope with achromatic lens with lens ratio 6:1 (Wesmox – SZM 180)	(Wesmox)	01No.
22.	Nikon stereo microscope with achromatic lens zoom ratio 7:1 (NIKON – SMZ – 745T).	(Nikon)	01No.
23.	Mortar & Pestel	Fisher brand/porcelain	01No.
24.	Faecal analysis kit with Mc Master Egg counting chamber (nematode egg	Vet lab. co	01No.

LIST OF ITEMS i

	counting chamber)		
25.	Parasitology field kit: Should essentially contain dissection tools, preservatives and collection tubes.	Ontario co.	01No.
26.	Insect field kit: Modern and well equipped with all components of insect location, trapping and preservation.	Wild co; and science first	01No.
27.	Apiary Box portable, light weight, easy to handle with all accessories.	V. Tech	01No.
28.	Digital water analysis kit. Portable, light weight with display	India Mart. Jash Bin enterprises	01No.
29.	Cryostat microtome: Automatic cryostat microtome with double compressor, electronic control, chamber temperature 0 to -30° C. Trimming thickness range :- 10-300 micro meter	By leica, Teknik, Movel Scientific	01No.
30.	Ultra centrifuge: Compatible at 200-250 V AC, speed up to 100000 RPM (90000 /80000,1000 RPM in increments of 100 RPM with timer from 1 min to 999 hours 59 min. withhold function . Temperature range: 0° C to 40° C with 1° C increments (Accuracy: +/- 0.5° C)	By Beckman coulter life science, Hitachi	01No.
31.	Distillation plant: Multi column, latest technology with stainless automatic or semi-automatic including all accessories, capacity: 200 to 3000 litres per hour or semi- automatic distilled water plant, must ruin on tape water.	Vikshwakarma engineering works Bahadurgah and Greensign	01No.
32.	Sechi Disk		01No.
33.	Haemocytometer	HBG Germany (Bright line)	01No.
34.	PH meter digital (portable)	Systonic	01No.
35.	GPS device (portable)	Hach DHR India Pvt, ltd.	01No.
36.	Telescopic Insect collecting net	Adarsh international net.	01No.
37.	Fishing nets (750 kg)	Baliga Fishnets	01No.
38.	Rotary evaporator (1 litre) (R-300)	NLSI India (NLSI) BUCHI India pvt, ltd.	01No.
39.	Vertical autoclave (20 litre stainless steel)	Map industries	01No.
40.	Orbital Shaking incubator (9 flasks)	Accumax India	01No.
41.	Lab Willey mill grinder	Star scientific instruments	01No.
42.	Lab culture swabs (100% polyester knit material)	Citron scientific	01No.
43.	Inoculating loop with wire	Crown lab supplies	01No.
44.	Antibiotic disc (25, 50, 100 micro gram)	Micro master laboratories	01No.

LIST OF ITEMS i

	(Gentamicin, amoxicillin, cefpodoxime)	pvt ltd	
45.	Bunsen burner with stop cock	Kapoor scientific works	01No.
46.	Magnetic Compass (diameter 3 inch with stainless steel)	Uniteck scientific and electronic industry	01No.
47.	Binoculars (10x42)	Celestron	01No.
48.	Spotting Scope (plastic) (dimensions 43.99 x 13 x10.01cm)	GoSky	01No.
49.	Laser Range Finder (1600 mtr)	Geo connect technologies	01No.
50.	Digital analytical laboratory balance, 0.1mg (Cap. 220gm)	Saffron electronics scale	01No.
51.	Glucos metre (1.1 – 33.3 mmol/L)	AccuCheck	01No.
52.	Rubber gloves (Surgical, Latex) 20dozens	Ansell India Protective products	01No.
53.	Lancet needles (06 Dozens)	Accu- Check	01No.
54.	Antibiotic disc dispenser		01No.

LIST OF ITEMS i

List of slides/ & Biological material for dissection		
S.No	Name of the item	Quantity
1.	Aulosira	03 No.s
2.	Anabaena WM	03 No.s
3.	Chroococcus WM	03 No.s
4.	Nostoc WM	03 No.s
5.	Nostoc in root section	03 No.s
6.	Oscillatoria WM	03 No.s
7.	Spirulina WM	03 No.s
8.	Acetabularia WM	03 No.s
9.	Chlamydomonas WM	03 No.s
10.	Chara Vegetative WM	03 No.s
11.	Chara reproductive WM	03 No.s
12.	Chara Sexual V.S	03 No.s
13.	Chlorella WM	03 No.s
14.	Cladophora WM	03 No.s
15.	Cladophora reproductive WM	03 No.s
16.	Oedogonium Vegetative	03 No.s
17.	Oedogonium capcells WM	03 No.s
18.	Oedogonium macrandrous WM	03 No.s
19.	Oedogonium nannandrous WM	03 No.s
20.	Oedogonium oogonial WM	03 No.s
21.	Vaucheria Vegetative WM	03 No.s
22.	Vaucheria reproductive WM	03 No.s
23.	Dictyota tetrasporic Thallus	03 No.s
24.	Ectocarpus Unilocular WM	03 No.s
25.	Ectocarpus Plurilocular WM	03 No.s
26.	Sargassum Thallus (Leaf) TS	03 No.s
27.	Batrachospermum veg. WM	03 No.s
28.	Batrachospermum fruiting WM	03 No.s
29.	Polysiphonia antherdial WM	03 No.s

LIST OF ITEMS i

30.	Bacterial typical	03 No.s
31.	Coccus form	03 No.s
32.	Bacillus form	03 No.s
33.	Spirill form	03 No.s
34.	Gram positive bacteria	03 No.s
35.	Gram negative bacteria	03 No.s
36.	Root nodule of legume TS	03 No.s
37.	Escherichia Coli	03 No.s
38.	Small pox virus	03 No.s
39.	Polio Virus	03 No.s
40.	Mucor (Zygote) WM	03 No.s
41.	Phytophthora host leaf TS	03 No.s
42.	Rhizopus WM	03 No.s
43.	Rhizopus sporangia WM	03 No.s
44.	Rhizopus Sexual WM	03 No.s
45.	Aspergillus (Euratum) conidia	03 No.s
46.	Morchella TS	03 No.s
47.	Neurospora TS	03 No.s
48.	Penicillium Veg.	03 No.s
49.	Yeast budding	03 No.s
50.	Yeast Cell	03 No.s
51.	Agaricus stipe TS	03 No.s
52.	Agaricus Pileus VS	03 No.s
53.	Agaricus stipe and pileus VS	03 No.s
54.	Agaricus Button stage VS	03 No.s
55.	Polyporus TS/LS	03 No.s
56.	Puccinia uredo on wheat leaf TS	03 No.s
57.	Puccinia teleuto on wheat stem TS	03 No.s
58.	Puccinia aecidia on barbery leaf	03 No.s
59.	Puccinia pycnia VS	03 No.s

LIST OF ITEMS i

60.	Ustilago spores WM	03 No.s
61.	Ustilago with host	03 No.s
62.	Alternaria	03 No.s
63.	Fusarium	03 No.s
64.	Aspergillus	03 No.s
65.	Lichen Thallus TS	03 No.s
66.	Lichen Thallus WM	03 No.s
67.	Lichen soredia Wm	03 No.s
68.	Lichen apothecium VS	03 No.s
69.	Anthoceros Thallus LS/TS	03 No.s
70.	Anthoceros Sporophyte WM	03 No.s
71.	Anthoceros Sporophyte TS/LS	03 No.s
72.	Funaria antheridia VS/WM	03 No.s
73.	Marchantia Thallus TS	03 No.s
74.	Marchantia gemmae cup VS	03 No.s
75.	Marchantia gemmae WM	03 No.s
76.	Marchantia antheridia head VS	03 No.s
77.	Marchantia archegonial head VS	03 No.s
78.	Marchantia Sporophyte VS	03 No.s
79.	Moss protonema	03 No.s
80.	Moss capsule LS/TS	03 No.s
81.	Moss peristome	03 No.s
82.	Riccia Thallus TS/WM	03 No.s
83.	Riccia mature Sporophyte VS	03 No.s
84.	Sphagnum WM	03 No.s
85.	Sphagnum Sporophyte	03 No.s
86.	Sphagnum antheridial	03 No.s
87.	Sphagnum archegonial	03 No.s
88.	Botrychium stipe TS	03 No.s
89.	Equisetum prothallus VS	03 No.s

LIST OF ITEMS i

90.	Equisetum root TS	03 No.s
91.	Equisetum rhizome TS	03 No.s
92.	Equisetum stem TS	03 No.s
93.	Equisetum cone TS/LS	03 No.s
94.	Fern prothallus young	03 No.s
95.	Fern prothallus with antheridia	03 No.s
96.	Fern prothallus archegonia	03 No.s
97.	Fern prothallus with Sporophyte	03 No.s
98.	Fern prothallus TS	03 No.s
99.	Lycopodium stem TS	03 No.s
100.	Psilotum stem Ts	03 No.s
101.	Psilotum rhizome TS	03 No.s
102.	Selaginella root TS	03 No.s
103.	Selaginella rhizophore TS	03 No.s
104.	Selaginella Leaf WM/TS	03 No.s
105.	Selaginella stem Ts	03 No.s
106.	Selaginella Strobilus WM/LS	03 No.s
107.	Cycas normal root TS	03 No.s
108.	Cycas coralloid root TS	03 No.s
109.	Cycas leaf let (Pinna) TS	03 No.s
110.	Cycas rachis TS	03 No.s
111.	Cycas microsporophyll TS	03 No.s
112.	Cycas Megasporophyll TS	03 No.s
113.	Pinus root (young) TS	03 No.s
114.	Pinus root (old) TS	03 No.s
115.	Pinus young stem TS/LS	03 No.s
116.	Pinus stem RLS/ TLS	03 No.s
117.	Pinus needle TS	03 No.s
118.	Ephedra ovule TS	03 No.s
119.	Ephedra stem TLS/RLS	03 No.s

LIST OF ITEMS i

120.	Ephedra stem TS	03 No.s
121.	Ephedra root TS	03 No.s
122.	Cedrus stem TS	03 No.s
123.	Cedrus leaf TS	03 No.s
124.	Gnetum stem TLS/RLS	03 No.s
125.	Gnetum stem Ts	03 No.s
126.	Gnetum leaf TS	03 No.s
127.	Tradescantia epidermal hairs	03 No.s
128.	Starch grains eccentric	03 No.s
129.	Starch grains concentric	03 No.s
130.	Compound starch grains	03 No.s
131.	Semi compound grains	03 No.s
132.	Aleurone layers, grain TS	03 No.s
133.	Cystolith	03 No.s
134.	Inulin (dahalia root)TS	03 No.s
135.	Sclereids in section	03 No.s
136.	Water storage cells silica deposits	03 No.s
137.	A. calcium oxalate crystals	03 No.s
138.	Trichoblasts in section	03 No.s
139.	Apical stem meristem LS	03 No.s
140.	Aerenchyma TS or WM	03 No.s
141.	Collenchyma TS or WM	03 No.s
142.	Sclerenchyma TS or WM	03 No.s
143.	Sclerenchyma fibersmacerated	03 No.s
144.	Cucurbita young stem TS	03 No.s
145.	Helianthus young stem TS/LS	03 No.s
146.	Dicot root primary TS	03 No.s
147.	Ficus aerial root TS	03 No.s
148.	Maze mature stem Ts	03 No.s
149.	Maze root TS	03 No.s

LIST OF ITEMS i

150.	Maze root TS and LS on same slide	03 No.s
151.	Orchid root showing velamen TS	03 No.s
152.	Root with root cap LS	03 No.s
153.	Dicot leaf typical TS	03 No.s
154.	Dionaea leaf TS to show glands	03 No.s
155.	Ficus leaf TS	03 No.s
156.	Helianthus leaf TS	03 No.s
157.	Nyphaea Leaf TS	03 No.s
158.	Maze leaf TS	03 No.s
159.	Monocot Typical leaf TS	03 No.s
160.	Dicot and monocot stem on the same slide	03 No.s
161.	Herbaceous and woody stem TS on same slide	03 No.s
162.	Primary and secondary stem TS on same slide	03 No.s
163.	Monocot and Dicot root TS on same slide	03 No.s
164.	Dicot and monocot leaf on same slide	03 No.s
165.	Dicot stem TS and LS on same slide	03 No.s
166.	Monocot stem TS and LS on same slide	03 No.s
167.	Primary and secondary root on same slide	03 No.s
168.	Radial	03 No.s
169.	Conjoint collateral open	03 No.s
170.	Conjoint collateral closed	03 No.s
171.	Conjoint by collateral	03 No.s
172.	Concentric Amphivasal	03 No.s

LIST OF ITEMS i

173.	Concentric Aphhicribral	03 No.s
174.	Anther WM/TS	03 No.s
175.	Epigynous flower LS	03 No.s
176.	Hypogynous flower LS	03 No.s
177.	Perigynous flower LS	03 No.s
178.	Pollen grains different types	03 No.s
179.	Pollen grains germinating	03 No.s
180.	Amphitropous	03 No.s
181.	Anatropous	03 No.s
182.	Campylotropous	03 No.s
183.	Orthotropous	03 No.s
184.	Circinotropous	03 No.s
185.	Axile Placentation	03 No.s
186.	Basal Placentation	03 No.s
187.	Free central Placentation	03 No.s
188.	Marginal Placentation	03 No.s
189.	Parietal Placentation	03 No.s
190.	Superficial Placentation	03 No.s
191.	Microspore mother cell preparing for division	03 No.s
192.	Leptotene stage	03 No.s
193.	Zygotene stage	03 No.s
194.	Pachytene stage	03 No.s
195.	Diplotene stage	03 No.s
196.	Diakinesis stage	03 No.s
197.	Metaphase I	03 No.s
198.	Anaphase/ Telophase I	03 No.s
199.	Metaphase II	03 No.s
200.	Anaphase / Telophase II	03 No.s
201.	Meiosis I all significant stage in one	03 No.s

LIST OF ITEMS i

	slide	
202.	Meiosis II all significant stage in one slide	03 No.s
203.	Melabolic nucleus stage	03 No.s
204.	Prophase stage	03 No.s
205.	Metaphase stage	03 No.s
206.	Anaphase stage	03 No.s
207.	Telophase stage	03 No.s
208.	Chromatin bridge	03 No.s
209.	Laggard formation	03 No.s
210.	Ring formation	03 No.s
211.	Giant chromosome	03 No.s
212.	Multivalent formation	03 No.s
213.	TS anther Showing microsporogenesis	03 No.s
214.	TS mature anther with pollen grains	03 No.s
215.	LS Ovule showing megasporogenesis	03 No.s
216.	LS Ovule showing globular/ heart shaped embryo	03 No.s
217.	LS Seed showing seed coat, embryo and endosperm	03 No.s
218.	Mail gametophyte	03 No.s
219.	Female gametophyte	03 No.s
220.	TS young anther showing mass of Parenchymatous cells	03 No.s
221.	TS young anther showing differentiation of archesporial cells	03 No.s
222.	TS anther showing different wall layers and sporogenous Tissue	03 No.s
223.	TS anther showing Microspore	03 No.s

LIST OF ITEMS i

	tetrads	
224.	Capsella embryology set of 9 slides -One celled stage LS	03 No.s
225.	Two Celled stage LS	03 No.s
226.	Quadrant stage LS	03 No.s
227.	Octant stage LS	03 No.s
228.	Globular or heart shaped embryo	03 No.s
229.	Differentiation of cotyledons	03 No.s
230.	Precotyledon	03 No.s
231.	Bending of Cotyledons	03 No.s
232.	Mature embryo LS	03 No.s
Biological material for dissection:		
233.	Earth worm	01 drum
234.	Prawn	01 drum
235.	Pila	01 drum
236.	Cockroach	01 drum
SLIDES		
237.	Paramecium	01 no .
238.	Amoeba	01 no.
239.	Entamoeba	01 no.
240.	Leishmania	01 no.
241.	Trypanosoma	01 no.
242.	Giardia	01 no.
243.	Trematode – Larvae (All types)	01 no.
244.	Developmental stages of chick & frog	01 no.
245.	T.S, Stomach (Mammals, Amphibia, Reptilia, Pices, Aves)	01 no.
246.	T.S, Liver (Mammals, Amphibia, Reptilia, Pices, Aves)	01 no.
247.	T.S, Oesophagus (Mammals, Amphibia, Reptilia, Pices, Aves)	01 no.
248.	T.S, Intestine (Mammals, Amphibia, Reptilia, Pices,	01 no.

LIST OF ITEMS i

	Aves)	
249.	T.S, Kidney (Mammals, Amphibia, Reptilia, Pices, Aves)	01 no.
250.	T.S, pancreas (Mammals, Amphibia, Reptilia, Pices, Aves)	01 no.
251.	T.S, ovary (Mammals, Amphibia, Reptilia, Pices, Aves)	01 no.
252.	T.S, testis (Mammals, Amphibia, Reptilia, Pices, Aves)	01 no.
253.	Larval forms of Echinodermata	01 no.
254.	Okiopleura	01 no.
255.	Salpa	01 no.
256.	Doliolum	01 no.
257.	Moina	01 no.
258.	Keratella	01 no.
259.	Grammas	01 no.
260.	Nostoc WM (botany)	03 no's
261.	Chlorella WM	03 no's
262.	Cladophora Wm	03 no's
263.	Cladophora Reproductive	03 no's
264.	Coleochaete WM	03 no's
265.	Clleochaete discoid WM	03 no's
266.	Colechaete antheridia	03 no's
267.	Colechaete oogonium	03 no's
268.	Oodogonium Vegetative	03 no's
269.	Oedogonium cap cells WM	03 no's
270.	Oedogonium macrandrous Wm	03 no's
271.	Oedogonium nannandrous Wm	03 no's
272.	Oedogonium oogonial WM	03 no's
273.	Vaucheria Vegetative WM	03 no's
274.	Vaucheria Reproductive WM	03 no's
275.	Volvox daughter colony WM	03 no's
276.	Volvox oogonial WM	03 no's

LIST OF ITEMS i

277.	Volvex antheridial WM	03 no's
278.	Volvex zygote colony WM	03 no's
279.	Volvex mixed stage colony WM	03 no's
280.	Ectocarpus unilocular WM	03 no's
281.	Ectocarpus plurilocular WM	03 no's
282.	Batrachospermum Veg WM	03 no's
283.	Batrachospermum fruiting WM	03 no's
284.	Bacteria typical	03 no's
285.	Coccus form	03 no's
286.	Bacillus form	03 no's
287.	Spiral form	03 no's
288.	Gram positive Bacteria	03 no's
289.	Gram negative Bacteria	03 no's
290.	Streptococcus	03 no's
291.	Staphylococcus aureus	03 no's
292.	Bacillus subtilis	03 no's
293.	E. Coli	03 no's
294.	Mucor Veg WM	03 no's
295.	Mucor sporangia WM	03 no's
296.	Mucor zygote WM	03 no's
297.	Rhizopus Veg WM	03 no's
298.	Rhizopus sporangia WM	03 no's
299.	Rhizopus sexual WM	03 no's
300.	Morchella TS	03 no's
301.	Yeast budding	03 no's
302.	Yeast cell	03 no's
303.	Agaricus stipe TS	03 no's
304.	Agaricus pileus VS	03 no's
305.	Agaricus botton stage VS	03 no's
306.	Puccinia uredo on wheat leaf TS	03 no's
307.	Puccinia teleuto on wheat stem TS	03 no's
308.	Puccinia aecidia on babery leaf TS	03 no's
309.	Puccinia pycnia VS	03 no's

LIST OF ITEMS i

310.	Ustilogo spores WM	03 no's
311.	Ustilogo with host WM	03 no's
312.	Alternaria	03 no's
313.	Lichen thallus TS	03 no's
314.	Lichen thallus WM	03 no's
315.	Lichen soredia WM	03 no's
316.	Lichen apothecium VS	03 no's
317.	Anthoceros thallus LS/TS	03 no's
318.	Anthoceros sporophyte WM	03 no's
319.	Anthoceros sporophyte TS/LS	03 no's
320.	Anthoceros archegonium WM/TS	03 no's
321.	Anthoceros anthredia WM/TS	03 no's
322.	Marchantia thallus TS	03 no's
323.	Marchantia gemma cup VS	03 no's
324.	Marchantia gemmae WM	03 no's
325.	Marchantia antheridial head VS	03 no's
326.	Marchantia archegonail head VS	03 no's
327.	Marchantia sporophyte VS	03 no's
328.	Polytrichum archegonial VS/WM	03 no's
329.	Polytrichum antheridail VS/WM	03 no's
330.	Polytrichum capsule VS/TS	03 no's
331.	Equisetum prothallus VS	03 no's
332.	Equisetum root TS	03 no's
333.	Equisetum rhizome TS	03 no's
334.	Equisetum stem TS	03 no's
335.	Equisetum cone TS/LS	03 no's
336.	Lycopodium stem TS	03 no's
337.	Lycopodium apex LS	03 no's
338.	Lycopodium cernum stem TS	03 no's
339.	Lycopodium clavatum stem TS	03 no's
340.	Lycopodium phlegmaria stem TS	03 no's
341.	Marsilea leaf TS	03 no's
342.	Marsilea root TS	03 no's

LIST OF ITEMS i

343.	Marsilea rhizome TS	03 no's
344.	Marsilea petiole TS	03 no's
345.	Marsilea sporocarp TS/LS	03 no's
346.	Marsilea sorus WM	03 no's
347.	Selaginella root	03 no's
348.	Selaginella stem TS	03 no's
349.	Selaginella strobillus WM/LS	03 no's
350.	Selaginella microsporangia	03 no's
351.	Pinus root (Young TS)	03 no's
352.	Pinus root (old) TS	03 no's
353.	Pinus young stem TS/LS	03 no's
354.	Pinus dwarf shoot TS	03 no's
355.	Pinus male cone TS/LS	03 no's
356.	Pinus wood TS	03 no's
357.	Pinus pollen grain WM	03 no's
358.	Pinus female cone TS/LS	03 no's
359.	Pinus ovule VS	03 no's
360.	Cedrus stem TS	03 no's
361.	Cedrus Leaf TS	03 no's
362.	Cedrus male cone	03 no's
363.	Cedrus female cone TS	03 no's
364.	Starch grains eccentric	03 no's
365.	Starch grains concentric	03 no's
366.	Compound starch grains	03 no's
367.	Semi-compound grains	03 no's
368.	Aleurone layers	03 no's
369.	Apical stem meristem LS	03 no's
370.	Helianthus young stem TS/LS	03 no's
371.	Helianthus old stem TS/LS	03 no's
372.	Nymphaea stem TS	03 no's
373.	Helianthus root TS/LS	03 no's
374.	Nymphaea root TS	03 no's
375.	Dracaena stem TS	03 no's

LIST OF ITEMS i

376.	Maize stem TS	03 no's
377.	Maize stem Ls	03 no's
378.	Maize root TS	03 no's
379.	Maize root LS	03 no's
380.	Dicot leaf typical TS	03 no's
381.	Helianthus leaf TS	03 no's
382.	Nymphaea leaf TS	03 no's
383.	Dracaena leaf TS	03 no's
384.	Maize leaf TS	03 no's
385.	Meiosis all stages- complete set	03 no's
386.	Chromatin bridge	03 no's
387.	Laggard formation	03 no's
388.	Ring formation	03 no's
389.	Chiasma formation	03 no's
390.	Multivalent formation	03 no's
391.	Polytene chromosome	03 no's
392.	Salivary gland chromosomes of Drosophila	03 no's
393.	Glandular tapetum in anther TS	03 no's
394.	Periplasmodium tapetum in anther TS	03 no's

LIST OF ITEMS i

List of Plant Tissues		
S.No	Name of the Item	Quantity
1.	Perenospora (botany)	10 vails
2.	Albugo	10 vails
3.	Mucor	10 vails
4.	Rhizopus	10 vails
5.	Ustilago	10 vails
6.	Polyporus	10 vails
7.	Morchella	10 vails
8.	Sacharomyces	10 vails
9.	Aspergillus	10 vails
10.	Penicillium	10 vails
11.	Alternaria	10 vails
12.	Cletotrichum	10 vails
13.	Fusarium	10 vails
14.	Peach leaf curl	10 vails
15.	Tomato Mosaic virus	10 vails
16.	Cauliflower mosaic virus	10 vails
17.	Anabaena	10 vails
18.	Nostoc	10 vails
19.	Pediastrum	10 vails
20.	Volvox	10 vails
21.	Hydrodictyon	10 vails
22.	Ulva	10 vails
23.	Clostridium	10 vails
24.	Chara	10 vails
25.	Botrydium	10 vails
26.	Enteromorpha	10 vails
27.	Azolla	10 vails
28.	Pteris	10 vails
29.	Lycopodium	10 vails
30.	Psilotum	10 vails
31.	Ophioglossum	10 vails
32.	Selaginella	10 vails

LIST OF ITEMS i

33.	Dryopteris	10 vails
34.	Equistem	10 vails
35.	Marsilea	10 vails
36.	Batrachospermum	10 vails
37.	Padina	10 vails
38.	Bulbochaete	10 vails
39.	Ceramium	10 vails
40.	Ectocarpus	10 vails
41.	Polysiphonia	10 vails
42.	Oedogonium	10 vails
43.	Cladophora	10 vails
44.	Coleochaete	10 vails
45.	Fritschiella	10 vails
46.	Vaucheria	10 vails
47.	Chlorella	10 vails
48.	Chlamydomonas	10 vails
49.	Cycas coralloid root	10 vails
50.	Riccia	10 vails
51.	Marchantia	10 vails
52.	Pellia	10 vails
53.	Porella	10 vails
54.	Anthoceros	10 vails
55.	Andreaea	10 vails
56.	Bryum	10 vails
57.	Mnium	10 vails
58.	Polytrichum	10 vails
59.	Funaria	10 vails
60.	Maize stem young/Monocot stem	10 vails
61.	Maize root young/Monocot root	10 vails
62.	Dicot stem/Young stem Sunflower	10 vails
63.	Dicot root /Young root sunflower	10 vails
64.	Leaf dicot	10 vails

LIST OF ITEMS i

65.	Maize Leaf /monocot	10 vails
66.	Murashige Skoog shoot multiplication media	5 Liters
67.	Gamborg GS medium	5 Liters
68.	Potato Micropropagation medium	5 Liters
69.	Antimicrobial Supplement	100 ml x 2
70.	Plasmid DNA cloning kit	2
71.	Southern blotting teaching kit	2
72.	Antibiotic sensitivity kit	2
73.	Antibody capture ELISA teaching kit	2
74.	Sterile Cotton swab for mrcobiology	200
75.	Loop disposable for microbiology	200
76.	Agarose gel electrophoresis kit	2
77.	Plasmid DNA extraction kit	2
78.	Restriction digestion kit	2
79.	PCR teaching kit	3
80.	Transformation teaching kit	2
81.	Ligation teaching kit	2
82.	Plasmid DNA cloning kit	2
83.	Restriction fragment polymorphism (RFLP) teaching kit	2
84.	Southern Blotting Teaching kit	1
85.	Bacterial Conjugation TEACHING KIT	2
86.	SDS PAGE teaching kit	2
87.	Blood grouping kit	4
88.	Rocket immune electrophoresis	2
89.	Plant DNA extraction kit	2
90.	Sandwich ELISA teaching kit	2
91.	Carbohydrate estimation kit (quantitative)	2
92.	Protein estimation kit (quantitative)	2
93.	DNA estimation teaching kit	1

LIST OF ITEMS i

94.	Thin layer chromatography teaching kit	1
95.	Gel filtration teaching kit	1
96.	Ion exchange teaching kit	1
97.	Blood DNA extraction teaching kit	1
98.	Ouchterlony double diffusion teaching kit	1
99.	Radial Immunodiffusion teaching kit	1

LIST OF ITEMS i

Name of the Item Specimen for museum	
Insectivorous plants	Quantity
<ol style="list-style-type: none"> 1. Drosera indica 2. Drosera burmani 3. Venus fly trap(Dionea) 4. Sercinia 5. Utricularia 6. Nepenthes-leaf pitcher 	01 No. of each plant
Orchid Plants	
<ol style="list-style-type: none"> 1. Orchid plant entire 2. Orchid plant with inflorescence 3. Orchid Bulbophyllum 	01 No. of each plant
Parasitic plants	
<ol style="list-style-type: none"> 1. Balanophora 2. Orobanchie 3. Cassytha with host 4. Orobanchie with host 5. Loranthus 6. Stiga with host 7. Loranthus with host 8. Viscum album with host 	01 No. of each plant
Hydrophytic plants	
<ol style="list-style-type: none"> 1. Eichhornia 2. Pistia 3. Elodea 4. Jussiaea 	01 No. of each plant
Root Morphology	
<ol style="list-style-type: none"> 1. Aquatic Root 2. Coralloid Root (Cycas) 3. Clinging Root Sundew 4. Root Nodules Legume 5. Nodulated Root 6. Fasciculated Roots 7. Epiphytic Root (Orchid) 8. Pneumatophore Root 9. Palmate Root 10. Fusiform root 11. Napiform root 12. Moniliform Root 13. Tuberous Root 	01 No. of each plant
Stem Morphology	
<ol style="list-style-type: none"> 1. Cladode Asparagus 2. Phylloclade of Opuntia 3. Phylloclade of Muehlenbeckia 4. Corm (Colocasia) 	01 No. of each plant

LIST OF ITEMS i

<ol style="list-style-type: none"> 5. Phylloclade of Euphorbia 6. Offset-Pistia 7. Bulb tunicated 8. Phyllode of Acacia 9. Bulbil of Agave 10. Bulbil of Dioscorea 11. Rhizome 12. Stolon Scaly bulb 	
Bryophyta	
<ol style="list-style-type: none"> 1. Aneura 2. Conocephalum 3. Anthoceros sporophyte 4. Astrella fertile 5. Cyathodium 6. Dumortiera fertile 7. Fossombronia fertile 8. Lunularia with gemma cup 9. Jungermania 10. Notothylus sporophyte 11. Plagiochasma 12. Monoclea fertile 13. Bryum 14. Pogonatum fertile 15. Sphagnum 16. Pallavacinia fertile 17. Pellia fertile 18. Porella with sporophyte 19. Reboulia 20. Polytrichum fertile 21. Sphagnum 22. Marchantia with sporophytes 23. Sphagnum with sporophytes 24. Riccardia 25. Riccardia with sporophyte 26. Minium 27. Bryum with sporophyte 28. Notothylus sporophyte 29. Andrea 30. Barbula 31. Riccia 32. Moss Funaria 33. Targionia fertile 	01 No. of each plant
Pteridophyta	
<ol style="list-style-type: none"> 1. Azolla 2. Psilotum plant 3. Selaginella vegetative plant 	01 No. of each plant

LIST OF ITEMS i

<ol style="list-style-type: none"> 4. Sellaginella fertile plant 5. Equisetum 6. Marsilea vegetative 7. Marsilea fertile 8. Dryopteris 9. Equisetum prothallus 10. Isoetes entire plant 11. Lycopodium with cone 12. Lycopodium clavatum 13. Lycopodium phlegmeria 14. Lycopodium selago 15. Lycopodium cernuum 16. Equisetum veg. plant 17. Marsilea fertile plant 18. Psilotum with synangia 19. Fern Prothallus with sex organs 20. Fern prothallus with sporophyte 21. Fern Gleic 22. Ophioglossum 23. Marsilea germinating sporocarp 24. Regnalidium fertile 	
<p>Gymnosperm</p>	
<ol style="list-style-type: none"> 1. Cycas germinating 2. Cycas cercinate vernation 3. Cycas male cone 4. Cycas microsporopyll 5. Cycas megasporophyll 6. Cycas ovule 7. Gnetum young plant 8. Gnetum twig with leaf 9. Cephalotaxus stem with leaf 10. Cephalotaxus male cone 11. Cephalotaxus female cone 12. Aurocaria with male cone 13. Zamia with female cone 14. Aurocaria with female cone 15. Ginkgo male cone 16. Ginkgo female cone 17. Ginkgo ovule 18. Abies with male cone 19. Abies with female cone 20. Agathis with male cone 21. Agathis with female cone 22. Gnetum with male cone 23. Gnetum ovule 24. Taxus male cone 	<p>01 No. of each plant</p>

LIST OF ITEMS i

<ol style="list-style-type: none"> 25. Taxus female cone 26. Taxodium male cone 27. Taxodium female cone 28. Ephedra male cone 29. Ephedra female cone 30. Gnetum seed 31. Podocarpus male cone 32. Podocarpus female cone 33. Picea male cone 34. Picea female cone 35. Juniperus male cone 36. Juniperus female cone 37. Biota with male cone 38. Biota female cone 	
<p>Fungi</p>	
<ol style="list-style-type: none"> 1. Helminthosporium 2. Phoma 3. Phytophthora on Potato leaf 4. Phytophthora on Colocasia leaf 5. Puccinia on wheat leaf 6. Puccinia on wheat stem 7. Polyporus 8. Puccinia on barbery 9. Synchytrium on leaf 10. Synchytrium on fruit 11. Synchytrium black potato 12. Ustilago covered smut 13. Ustilago loose smut 14. Ustilago on oat 15. Ustilago barley 16. Ustilago on wheat 17. Ustilago on maize/maize smut 18. Ustilago on sugar-cane 19. Taphrina 20. Ring spot of brassica 21. Ring spot of potato 22. Peziza clusters 23. Citrus canker 24. Leaf curt of tomato 25. Leaf curl of chillies 26. Leaf curl of papaya 27. Leaf mosaic 28. Black rust of Wheat 29. Powdery mildew on Pea 30. Leaf blight disease 31. Downy mildew on Grapes 	<p>01 No. of each plant</p>

LIST OF ITEMS i

32. Leaf spot on Sorghum 33. Ergot of Barley 34. Damping off disease 35. Club root of Crucifers 36. Mosaic disease 37. Late blight of Potato 38. Early blight of Potato 39. Bacterial blight on Banana 40. Mosaic of Tobacco 41. Red stripes of Sugarcane 42. Red rot of Sugarcane 43. Leaf chlorosis 44. Necrosis of flower 45. Peach leaf curl 46. Wilts 47. Agaricus 48. Clavaria 49. Morchella 50. Peziza clusters	
Lichens	
1. Lichen Crustose 2. Lichen Foliose 3. Lichen fruiticose 4. Lichen Usnea fertile 5. Lichen Ramalina 6. Lichen Parmelia fertile 7. Lichen Phycia fertile 8. Lichen Cladonia fertile 9. Lichen Graphis fertile 10. Lichen apothecia	01 No. of each plant
Fossils	
1. Impression 2. Compression 3. Petrification 4. Moulds 5. Casts 6. Amber	01 No. of each plant

List of miscellaneous items			
S.No	Name of the item	Spec.	Quantity
1.	Buchnra brushes		1000no's
2.	test tubes ordinary	20ml, 10ml	500 no's of each
3.	Measuring flasks	1000ml, 500ml, 250ml	100 no;s of each

LIST OF ITEMS i

NAME OF THE ITEM	SPECIFICATIONS	QUANTITY	
4.	filter Papers	10 reams	
5.	Ordinary sheets	05 reams	
6.	whatmans D sheets	05 packets	
7.	whatmans circular filter paper	05 packets	
8.	Fuming masks for lab, N-95	200 no's	
9.	Pipette holders, iron stand with clamps	100 no's	
10.	test tube holders	200 no's	
11.	fusing rubber		
12.	Pressures		
13.	tripod stands	12 inches	500 no's
14.	Hair Dryer for drying purposes		05 no's
15.	Hand gloves		500 no's
16.	Chemical resistant gloves		100 no's
17.	Safety Glasses for lab		50 no's
18.	First Aid kit		05 kits
19.	Rubber tubing	10mm/8mm	10 rolls of each
20.	Glass Wool		
21.	Rubber rings for filtration flasks		500 no's

LIST OF ITEMS i

<p>Refrigerated Centrifuge</p>	<p>Specifications</p> <ol style="list-style-type: none"> 1. Microprocessor controlled centrifuge with variable speed and time setting and also with last run memory function 2. Maintain constant temperature of 4° even at maximum speed of 18,000 RPM 3. Single equipment for different work protocols with following appropriate choice of rotors <p>Rotor options</p> <table border="0"> <thead> <tr> <th>Rotor no</th> <th>Capacity Max</th> <th>RPM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2ml</td> <td>18,000</td> </tr> <tr> <td>2</td> <td>15ml</td> <td>18,000</td> </tr> <tr> <td>3</td> <td>50 ml</td> <td>18,000</td> </tr> </tbody> </table> <p>Temperature range -10 to 40°</p> <p>Speed setting 500-18000 RPM</p> <p>Display Large back lit LCD display</p> <p>Lid Lock Safety yes</p> <p>Imbalance detection yes</p>	Rotor no	Capacity Max	RPM	1	2ml	18,000	2	15ml	18,000	3	50 ml	18,000	<p>01</p>
Rotor no	Capacity Max	RPM												
1	2ml	18,000												
2	15ml	18,000												
3	50 ml	18,000												
<p>UV Trans illuminator</p>	<p>Dimensions (mm): 280D x 340W x 80H</p> <p>Viewing Surface (mm): 210D X260W</p> <p>Wavelength (nm): 302 and 365</p> <p>UV Tubes: 11 x T5 8 W (365nm x 6 and 302nm x 5)</p> <p>UV blocking cover: aluminum alloy frame</p> <p>Power: 100-240 V, 50-60 Hz</p>	<p>01</p>												
<p>Horizontal Gel Electrophoresis apparatus with Power pack</p>	<p>Gel size: 8.2X8.5</p> <p>Gel; thickness 0.75</p> <p>Up to 15 comb wells</p> <p>2gel capacity,</p> <p>750 ml buffer requirement</p> <p>15X12X13 cm dimensions</p>	<p>01</p>												
<p>PCR machine/Thermo cycler</p>	<p>Capacity: 1 x 96 well plate, 96x 0.2 ml tubes</p> <p>Format: 0.2ml tubes, 96 well plate</p> <p>Display Interface: 6.5 in. VGA 32k color with touch screen</p> <p>Reaction volume range: 10-100 µl</p> <p>Reaction speed: Fast, standard</p> <p>Standard and fast enabled cycling</p> <p>Temperature range (Metric): 4.0 to 99.90C</p> <p>Temperature accuracy: ±0.250C (350C to 99.90C)</p> <p>Sample Ramp Rate: ±3.350C/sec</p> <p>Temperature Uniformity: <0.50C (20 sec after reaching 950C)</p> <p>Peak Block Ramp Rate: 3.90 C/sec</p> <p>Tm Calculator: Menu driven through touch screen</p> <p>High throughput compatible</p> <p>Instrument memory: USB and On-board</p> <p>Program features: Auto re-start (after power outages),</p>	<p>01</p>												

LIST OF ITEMS i

	Program overwrite protection	
Microtome	Rapid Rotary microtome, Slice thickness-1 to 25 µm Lowest slice adjusting graduation-1 µm Maximum slice section 35 x 25 mm Horizontal specimen stroke-35mm Vertical specimen stroke 46 mm	01
Digital HD Microscope (student microscope)	Digital HD Microscope with 4.3 inch screen 50-1000X Magnification 50-1000X HD Objective USB connects with PC Built in MicroSD card slot (8GB)	20 Nos
Digital Analytical Balance 0 to 500gms	0 to 500gms 0.001GM (1 mg) to 500 Grams Very sensitive with high Precision Accuracy: very high LCD Display	02
Digital Analytical Balance	0 to 120 Grams	02
Digital weighing balance	0 to 30 Kilograms	01
Monocular microscope	With 6v-29 w Halogen lamp Eye pieces: wide field eyepiece wf 10x/18mm, with foldable eye guard, anti fungus coating- locked in ocular tube Quadruple nosepiece. Ball bearing type Objectives: DIN semi plan achromatic objectives 10x, 40x, (springloaded) 100x oil (springloaded) Focussing –coaxial coarse and fine focusing on ball drive sytem of smooth movement with tension adjustable controle knob. Electrical; input 200v -240v AC through external power adaptor for battery charging, Lithium ion rechargeable battery built in.	10
Binocular Microscope	Specifications Head: Binocular OR Trinocular 45° inclined, 360° rotatable Eyepieces: Wide field focusable paired eyepiece 10x/18mm with foldable eye guard, lockable Nosepiece: Quadruple nosepiece turret (Ball bearing type) with rubber grip Objectives: LP series DIN Semi Plan Achromat 4x, 10x, 40x (spring loaded), 100x (spring loaded, oil), anti fungus Condenser: Sub stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragm with	10

LIST OF ITEMS i

	<p>Snap-in blue filter. Rack and pinion movements on metal guides</p> <p>Stage: Rectangular stage 135 x 124mm, X/Y travel range 76mm x 50mm. Low drive movement controls, single specimen holder</p> <p>Illumination: LED or Halogen 6V-20W illumination with variable illumination control. Up to 100,000 hours of LED life and 2,000 hours of Halogen lamp life</p> <p>Focusing: Co-axial coarse and fine focusing on ball drive system for smooth operation. BRASS rack and pinion stage drive. Fine drive movement 0.3mm/rotation</p> <p>Accessories: Dust cover, immersion oil & instruction manual included</p> <p>Warranty: 5 Year Mechanical & 1 Year Electrical</p>	
Laboratory Hot air Oven	<p>Inner chamber 304 grades Stainless steel</p> <p>Temperature range: ambient 10⁰ C to +280⁰C</p> <p>Temperature accuracy: +/- 2⁰C</p> <p>Temperature uniformity: +/- 1⁰C</p> <p>Exterior chamber Ms Powder coated</p> <p>Controller: PID Controller</p> <p>Temp Display: LED Display</p> <p>Shelves: 2-3 removable stainless steel shelves</p> <p>Air circulation: Forced air circulation</p> <p>Capacity: 125 liters</p>	02
Horizontal double distillation plant	<p>Water still double distillation unit</p> <p>Distill water output capacity 2 litres/hr</p> <p>Boiler and condenser made in borosilicate glass</p> <p>Heater made in quartz glass</p> <p>Automatic cut off power supply whwn water level low</p> <p>Heater laod 1.5kwx2</p>	01
Advanced Binocular Stereo Microscope	<p>With LED illumination</p> <p>Wide zoom ratio</p>	05
Laboratory Digital PH meter	<p>Range: 0-14 PH</p> <p>Resolution-0.01 PH</p> <p>Accuracy-±0.01PH</p> <p>Temp. Comp: Automatic with Temp Probe</p> <p>Buffer: Manual with keys</p> <p>Recognition: 4.00, 7.00(Automatic)</p> <p>Slope Adjustment: 80% to 120%, by default 100%</p> <p>Calibration: Auto/Manual, 2 –Point, 3-Point</p>	02
LABORATORY WATER BATH	<p>Stainless steel, corrosion resistant, microprocessor based, temperature range</p>	02

LIST OF ITEMS i

	up to 100° C, monochrome LCD display with ±0.1 C , ±0.1 C accuracy.	
Micropipettes-Variable volume	1 to 10 µl 100-200 µl 200-1000 µl	01 each
Digital Lux Meter	Intelligent automatically Digital display lux meter Large LCD display, font Sampling rate: 2.5 times/second Measure range: 0.1 Lux ∞100x500Lux Resolution upto 0.1 Lux High accuracy and prompt response Automatic switching of measuring range Automatic conversion range, Optical detector: 106(L) x54(W)x 28(H)mm Length of the Lead line for optical detector: 150 cm Power supply: one 9V layer built-battery Dimensions: 135 (L) x 74 (W) x 30 (H) mm Weight: 250gms (including battery)	02
UV Visible spectrophotometer	Wavelength range-200nm to 800 nm Digital display, touch sensitive screen	01
Burkards Personal volumetric air sampler	Collection of airborne particles on slide Accommodation/Slide dimensions: standard 76x 26 mm glass slides Impaction orifice: mounted in the vertical plane Instrument operation@ nominal air throughput: 10 liters per minute Operation time: 1 to 9 minutes Power: mains as well as battery Portable, Weight 500gms	01
Vertical Gel electrophoresis apparatus	VERTICAL GEL ELECTROPHORSIS APPARATUS Mini vertical electrophoresis system No of Gels-2 Gel System, Glass Plate Size-Short Plate 10.1X 7.3 cm Spacer Plate 10.1X 8.2 cm Gel Size; hand cast 8.3x7.3 cm Prest 8.6x 6.8 cm Gel thickness; 1mm Total buffer volume; 700 ml Typical run time for sds page 35 to 45 minutes Dimensions; 12x16x18 cm	01
FULLY AUTOMATIC MICROTOME	Specifications Section thickness setting range: 0.5~100 µm Trimming thickness setting range: 1~600 µm Setting values: 0.5~2 µm increment step 0.5 µm, 2~10 µm increment step 1 µm, 10~20 µm increment step 2 µm, 20~100 µm increment step 5 µm Minimum setting value: 0.5µm Vertical specimen stroke: 60 mm	01

LIST OF ITEMS i

	<p>Section Thickness Setting value From 0.5µm -2µm in 0.5µm increments From 2µm -10µm in 1µm increments From 10µm -20µm in 2µm increments From 20µm – 100µm in 5µm increments Trimming thickness: 1µm-600µm Setting value 1-10µm in 1µm increment 10-20µm in 2µm increment 20-100µm in 10µm increment 100-600µm in 50µm increment Object feed: 28 mm Maximum specimen size: 50x50 mm Specimen clamp orientation:360^o</p>	
Foldscope Microscope	With accessories	20
Olympus Students Lab Microscope	The standard microscope equipped with 1. Two pairs of eye pieces 10x, 15 x, 2. Four numbers objectives	10
Digital Colorimeter	Microprocessor based, with automatic zero setting function, 3-digit display and four ranges: %Transmission, Optical Density and two ranges for concentration C1 and C2 Wavelength range 300-700nm, Light source: long-life broad-spectrum LED, %Transmission range: 0 to 130 (with a normally used range of 0 to 100) Cuvetts-5 sets	02
PLANT GROWTH CHAMBER	Of appropriate dimension for large experiments <ul style="list-style-type: none"> • Temp 5 to 45 degree • Option for variable CO2 regime across chambers • High degree of accuracy and reliability in the control of temperature, humidity and lighting with a provision of larger plants of One (01) up to 1.5m can be grown inside the chamber. • Available with up to 5 shelves • Shelves can easily be added or removed by the user • Individually controllable shelf lighting • Optional humidity up to 90%rh • Separate chamber for seed storage, constant temperature chamber, easily adjustable tissue culture racks in each chamber 	01
MINI CENTRIFUGE	Capacity: 12 x 1.5 /0. 2. mL. Min. Speed:8000-14000 rpm, Timer: 15 sec-30 Min	02
Microprocessor based Rotary/ orbital Laboratory Shaker	Speed range-20 to 300 rpm or (1 to 300 rpm), 1 rpm increments Orbital diameter-19 to 20 mm Display type: LCD Maximum Load capacity: 10 Kg	02
Leaf area meter (LCD Display)	Light weight and fully Portable, non destructive measurements,	01

LIST OF ITEMS i

	no calibration required with internal memory , rechargeable battery	
Graded soil sieves with SHAKER	Complete set of sieves/mesh including all sieve numbers	01
DNA extraction teaching kit	Genomic DNA extraction from plant leaves	02
Fuel operated lawn mower/Honda lawn mower HRU 196 PU	Cutting width: 21 INCHES Cutting height adjustment: 1 /one lever Cutting height range (mm): 11 stages (16-76mm) Wheel diameter: 200x 200 mm Grass catcher capacity: 70 litres Blade type swing Engine: GXV 160 Mechanism- Drive:self propelled Fuel type: unleaded petrol Fuel tank capacity: 1.5 litres	02
Tubular Inverter Battery	180 /12 V	04
Printer for PC	LASER JET	01
UPS	1KVA	05
Pruning ladder/garden ladder	Strong and durable	02
Garden Pruning scissors big and small	Good quality and durable	10 ach
Garden Uniform	XL/XXL SIZE Color blue Good quality cloth	XL -12 Nos XXL -10 Nos
Garden Gloves	Superior quality	24 AIRS
Osmotic pressure apparatus: with U & T tube fitted with stop cock		02
Apparatus for demonstration of osmotic pressure with porous pot		02
Apparatus for experiments on root pressure: Comprising of a T tube with stop cock and graduated jar		02
Apparatus for experiment on root pressure-Corning glass		02
Apparatus for experiment on root pressure-Corning glass		02
Apparatus to demonstrate the process leading to root pressure		02
Apparatus for determining the quantity of water absorbed and given off by transpiring plant (T/A app		02
Black man's apparatus: For measurement of relative transpiration from two surfaces of leaf U- tube two bell jar complete on stand.		02
Apparatus to show the stomata- Places the aeriferous system with direct and open air communication with the external air complete		02
Transpiration apparatus: Complete on stand.		02
Apparatus to measure the loss of water in transpiring plants complete		02
Apparatus to measure the loss of water with pfeffers graduated tube		02
Apparatus to demonstrate the suction due to transpiration: Complete on stand and		02

LIST OF ITEMS i

clamp	
Apparatus to show suction due to evaporation-on stand	02
Apparatus to demonstrate that air cavity of the leaf communicates with outer atmosphere through stomata	02
Apparatus for experiment to demonstrate the loss of weight during transpiration	02
Potometer ganong's: On stand with graduated fine capillary tube.	02
Potometer moll's: for measuring absorption of water/ corning glass	02
Potometer famer's: for measuring the amount of transpiration	02
Darwin Potometer: Complete	02
Thodayi's Potometer on stand/corning glass	02
Gorrou's Potometer	02
Bosse's Potometer	02
Potometer: for observing the rate of absorption of water by transpiring plants under varying circumstances.	02
Apparatus to show the unequal transpiratory activities –on different surfaces of leaves	02
Transpiration Tube: Graduated in 15ml x 1.10ml/ corning glass	02
Apparatus for investigating the transpiration: W/o Thermometer	02
Space marking wheel: made of very hard rubber lining	02
Space marking disc	02
Normal light Screen: Strongly built star shaped.	02
Ganongs large light screen: Wooden box fitted with three colour of glasses having a slit to insert leaf.	02
Apparatus to demonstrate the cohesion of water –and the development of tension in water column	02
Respiration apparatus: for demonstrating the production of carbon dioxide in the respiration of plant./ plus corning glass	02
Absorption tubes (Pettenkoffers): 5cms long with rubber corks.(plus corning glass	02
Differential air thermometer-for measuring the heat production in respiration with cup	02
Respiration apparatus Pettenkoffers-complete with all accessories	02
Apparatus for experiment on respiration of root: A zinc trough and jar fitted with roping funnel.	02
Apparatus for investigate the influence of light on respiration: zinc trough with glass slides	02
Apparatus to demostrate the evolution of carbon dioxide	02
Ganong's Respirometre: Complete graduated levelling tube and fitted with stand.	02
Demonstration respiroscope Ganong's.	02

LIST OF ITEMS i

Garreau's bottle-complete to show the production of carbon dioxide	02
Garreau's tube-1000ml capacity/ corning glass	02
Apparatus for investigation the fermentation in absence of free oxygen	02
Fermentation vessel-khune's fitted on stand	02
Apparatus to determine the giving out of CO ₂ : from germinating seeds complete with four bottles rubber cork and glass tubes fitted.	02
To determine the phenomenon aerobic respiration or to demonstrate that CO ₂ is producing during during respiration.	02
Apparatus for demonstrating the intake of Oxygen: By germinating seeds	02
Apparatus for the determination of respiratory quotient: (RQ) under the influence of various nutrients solution after puriswitch	02
Apparatus to show that the formation of starch –depends upon the presence of carbon dioxide from water plants	02
Photosynthetometer: for demonstrating the absorption of cabondioxide by green plants in light and equivolumetric release of oxygen.	02
Moll's apparatus: to show that the cabondioxide is essential for the process of photo synthesis in green plants	02
Apparatus for the culture of plants: Under exclusion of cabondioxide.	02
Apparatus to prove that the green plants can produce oxygen when cabondioxide is at their disposal. Without thermometer.	02
Apparatus for estimation of cabondioxide decomposed by assimilating plants complete. Without mercury and platinum wire.	02
Heliostat with clock: Work divided are for dividing the axis to the latitude.	02
Klinstat: strongly built for use in horizontal or vertical position, fitted with new germen machine based on heavy iron stand.	02
Apparatus for demonstration of geotropism of root curvation	02
Crafts Secchi disc: for indicating turbidity of water in pond. Metal disc 200mm dia, marked in alternate black and white quadrants with long plastic	02
Soil borer (Iron)- Complete set of various diametres	10 sets
Specific gravity bottles	10