



INDIAN INSTITUTE OF TEACHER EDUCATION

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ભાવપત્રક મેળવવા અંગે.

આઈ.આઈ.ટી.ઈ. સેન્ટર ઓફ એજ્યુકેશન, ગાંધીનગરની ફિઝિક્સ, કેમેસ્ટ્રી તથા લાઇફ સાયન્સ લેબોરેટરીમાં કેમિકલ, કોમ્પોનન્ટસ, ઝલાસવેર તથા ઇન્સ્ટ્રુમેન્ટ્સની ખરીદી માટેના ભાવ આમંત્રિત કરવામાં આવે છે. ભાવપત્રક મોકલવાની વિગતો આઈ.આઈ.ટી.ઈ.ની વેબસાઇટ www.iite.ac.in પરથી જોવાની રહેશે, બંધ કવરમાં ભાવપત્રક તા.૦૭/૦૮/૨૦૨૩ (૪:૦૦ Hrs) થી તા.૧૬/૦૮/૨૦૨૩ (૪:૦૦ Hrs) સુધીમાં ભરીને આઈ.આઈ.ટી.ઈ. ખાતે પહોચાડવાના રહેશે. ભાવપત્રક સાથે ઇન્સ્ટ્રુમેન્ટ્સ ના catalogue આપવાના રહેશે.

સ્થળ:- ગાંધીનગર

કુલસચિવ

તારીખ:-૦૭-૦૮ -૨૦૨૩

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Life Science Laboratory Requirements

- Required specifications are given below.
- The requisite chemicals are needed in pure form since any impurities in them will drastically modify their properties. Hence, we require all standardized Laboratory Grade (LR) chemicals.
- The requisite biological materials [mentioned in list no.4,5,6] should be provide in adequate amount.
- Kindly send the quotation (Hard copy) of above chemicals/glassware-consumables and biological materials as per mentioned address and date(time) in newspaper advertisement.

Kindly mention name on envelope: Centre of Education (Life Science), IITE

Department of Life Science, CoE, IITE

Purchase List (2023-24)

[1]Chemicals Requirements			
No.	Name of Chemical	Specifications [Volume]	Quantity
1	Sodium Chloride	500gm	2
2	Sodium Hydroxide pellets	500gm	2
3	Copper Sulphate	250gm	1
4	Methanol	2.5L	4
5	Concentrated HCl (Hydrochloric Acid)	500ml	2
6	Petroleum Ether	2.5L	1
7	Concentrated HNO ₃ (Nitric Acid)	500ml	2
8	Ethyl Acetate	500ml	2
9	Chloroform	500ml	1
10	Ammonia buffer Solution pH 7.0	500ml	1
11	Phenolphthalein Indicator	125ml	2
12	Eosin dye	125ml (For staining)	2
13	Saffranin	125ml (For staining)	2
14	Potassium Dichromate	500gm	1
15	Potassium ferricyanide	250gm	1
16	Gention Violet	125ml(For staining)	2
17	Molisch's reagent	125ml	1
18	Biuret Reagent	125ml	1
19	Millon's reagent	125ml	1
20	Barfoed's reagent	250ml	2
21	Orcinol (5-Methyl 1,3 diol)	20gm	2
22	Seliwanoff's reagent	125ml	2
23	Bial's Reagent	250ml	2
24	Ehrlich's Reagent	100gm	1
25	Xylene	500ml	2
26	Glacial Acetic Acid	500ml	2
27	Perchloric Acid 60% AR	500ml	1
28	n-hexane (95%) pure	500ml	2
29	n-Butanol	500ml	1

30	D(+)-Glucose Anhydrous	500 gm	1
31	Phenol crystals LR	500gm	1
32	Acetone LR	2.5L	3
33	L-Ascorbic acid	100gm	1
34	D-Fructose EP	100gm	1
35	Detergent Powder	2 Kg (For glassware washing)	2
36	Distilled Water	5L	4
37	DPPH(2,2-diphenyl-1-picryl-hydrazyl-hydrate)	100 mg (For anti-oxidant assay)	1
38	Laboratory reagent-Emulsifier	500ml (For plant extract preparation)	1
39	3% Lysol	500 ml (For surface cleaning)	2
40	Pyronin G	1 gm (RNA staining)	1
41	Schiff's reagent	500ml (DNA staining)	1
42	Mercuric Chloride	25gm	1
43	Silver Nitrate	25gm	1


[2] Culture Media & kits (from Hi-media)

No.	Product Name	Specifications	Quantity
44	Nutrient Agar Powder (500 gm)	For Bacteriological Use	1
45	Agar Powder (500 gm)	For Bacteriological Use	1
46	Meat extract	For Bacteriological Use	1
47	MS (Murashige & skoog) medium	For Callus Culture	1
48	Hiper RNA Estimation Teaching Kit- HTBC007	For Molecular Biology Practical	1
49	Hiper DNA Estimation Teaching Kit- HTBC006	For Molecular Biology Practical	1

[3] Glasswares & Consumables

No.	Name of consumable	Size/Specifications	Quantity
50	Whatman filter paper sheet	46 × 57 cm (For paper chromatography, color: white)	1

51	Conical flasks	250ml (Borosilicate glass, uniform wall thickness, flat bottom, Ideal for autoclaving)	12
52	Conical flasks	500ml (Borosilicate glass, uniform wall thickness, flat bottom, Ideal for autoclaving)	4
53	Conical flasks	100ml (Borosilicate glass, uniform wall thickness, flat bottom, Ideal for autoclaving)	12
54	Glass beakers	250ml (Borosilicate glass, uniform wall thickness, flat bottom, Ideal for autoclaving)	12
55	Glass beakers	500ml (Borosilicate glass, uniform wall thickness, flat bottom, Ideal for autoclaving)	6
56	Glass beakers	100ml (Borosilicate glass, uniform wall thickness, flat bottom, Ideal for autoclaving)	6
57	Plastic measuring cylinder	500ml	3
58	Glass measuring cylinder	500ml (Borosilicate glass, with round base calibrated at 27°C)	3
59	Cotton rolls	Non-absorbent	4
60	Blades	For taking plant sections	1
61	Bisil coverslip	22mm (pkt)	3
62	Capillary tubes (melting point tube)	1 mm × 4"	1
63	Filter papers	Qualitative filter paper R series 11µm (Grade-I) size 90mm Pack size-100no./pkt.	1
64	Blotting Papers	Pack size-100no./pkt.	1
65	Dropping bottle (Plastic Dropper bottle)	60ml capacity, made from low density poly ethylene, small uniform drop of liquid when pressed lightly	6
66	Reagent Bottles (glass)	Capacity-500ml	6 pcs

		Borosilicate glass material with glass stopper	
67	Spraying bottles	For chromatography solvent spraying	3 pcs
68	TLC Sheets	For chromatography practical	1 pkt
69	Test tube cleaning brushes	Small size	3 pcs
70	Glass Test tube	Borosilicate glass material, size-18×150mm Capacity= 20ml Pack size- 100pcs/pkt	2 pkt
71	Sugar glass test tubes	Size-25×150mm Capacity- 55ml Pack size-50pcs/pkt	2 pkt
72	Mortar-Pestle	Medium size	6 pcs
73	Cotton thread rolls		3 pcs
74	TLC TANKS	12.1cm×10.8cm×8.3cm	2 pcs
75	Borosilicate Glass petri plates	Culture petri dishes S-Line 100×15mm	30 pcs
76	Plastic petri plates	100mm	50 pcs
77	Tissue Paper Rolls	For wiping glass cuvette of spectrophotometer	10
78	Steel Spatula	medium size	6 pcs.

Biological Materials

[4] Algae, Fungal, Protozoan Materials

No.	Name of Algae/Fungi/Protozoa	Stage of Fungi/Algae	Quantity
79	Pythium	Vegetative	1
80	Pythium	Asexual	1
81	Pythium	Sexual	1
82	Sphagnum	Vegetative	2
83	Sphagnum	Asexual	2
84	Sphagnum	Sexual	2

85	Pellia	Vegetative	2
86	Pellia	Asexual	2
87	Pellia	Sexual	2
88	Fusarium	Asexual	1
89	Nostoc balls	Vegetative	2
90	Nostoc	Asexual (Hormogonia)	2
91	Mucor	Vegetative	2
92	Mucor	Sexual	2
93	Mucor	Asexual	2
94	Spirogyra	Lateral Conjugation	2
95	Spirogyra	Vegetative	2
96	Spirogyra	Scalariform conjugation	2
97	Obellia	Liquid material	2
98	Amoeba	Liquid material	1
99	Entamoeba	Liquid material	1

[5] Plant Materials

No.	Name of Plant	Specific Plant Part	Quantity (No. of Sample preserved in formalin)
100	Nephrolepis	Vegetative	2
101	Nephrolepis	Reproductive	2
102	Dryopteris	Vegetative	2
103	Dryopteris	Reproductive	2
104	Anthoceros	Vegetative	1
105	Anthoceros	Sporophyte	1
106	Anthoceros	Archigonium	1
107	Onion	Root tip	2
108	Monocot(Maize)	Root	2
109	Monocot(Maize)	Stem	2
110	Monocot(Maize)	Leaves	2
111	Dicot (Sunflower)	Root	2
112	Dicot (Sunflower)	Stem	2
113	Dicot (Sunflower)	Leaves	2

[6] Diseased Plant Materials

No.	Name of Plant	Specific Causative Agent	Quantity (No. of
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			Sample preserved in formalin)
114	Citrus canker	<i>Xanthomonas citri</i>	3
115	Puccinia	<i>Puccinia graminis</i> (tiliospore)	1
116	Puccinia	Puccinia graminis (Urediospore)	1
117	Barberry plant	(Pycnispores)	1
118	Barberry plant	(Aeciospores)	1