

REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

TENDER NOTICE

Sealed Tenders are invited from Original Equipment Manufacturers/ Authorized Dealers etc. for supply of Scientific Instruments, Chemicals, Plastic wares. Glass wares and other class work materials to DESM of the Institute. The period of issue of Tender form is from **28. 09. 2015 – 19 .10. 2015** (from 10:00 a.m - 5:00 p.m) on all working days and the last date of receipt of Tender is up to 5:00 p.m of **19.10. 2015** . The Tender will be opened on **20 .10. 2015** (4:00 p.m). For further details please visit our Website: **www.riebbs.ori.nic.in** and **www.riebbbs.ac.in**

ADMINISTRATIVE OFFICER

TENDER SCHEDULE
REGIONAL INSTITUTE OF EDUCATION , BHUBANESWAR

Sealed Tender item wise are invited from **Original Equipment Manufacturers / Authorized Dealers** for supply of Science Equipment to DESM of the Institute.

The Tender forms containing Terms & conditions can be obtained from **HEAD, DESM, RIE, Bhubaneswar** on payment of **Rs 200/-** (Rupees Two Hundred) only in shape of Bank Draft drawn in favour of **"GENERAL FUND ACCOUNT", RIE, Bhubaneswar**, payable at **SBI, RCE Campus Branch** , Bhubaneswar, **Code no: 5302** or any Nationalized Bank at Bhubaneswar as per the following schedule.

a. Period of issue of Tender Forms from: **28 .09. 2015 to 19.10. 2015**

(10.00 a .m to 5.00 p.m)

b. Last date of Submission of Tender forms : **19.10. 2015 (up to 5.00 p.m)**

c. Opening of Tender : **20.10. 2015 (4.00 p.m)**

The Tenders received after due date and time and in unsealed condition ,without EMD will be rejected. For further details please visit our websites: www.riebbs.ori.nic.in and www.riebbs.ac.in .

The Principal, Regional Institute of Education, Bhubaneswar reserves the right to reject any or all tenders without assigning any reason thereof.

This issues with the approval of the competent Authority.

Administrative Officer

**TERMS AND CONDITIONS FOR PURCHASE OF SCIENCE EQUIPMENT, GLASSWARE,
PLASTIC WARE AND CLASS WORK MATERIALS FOR DESM**

Regional Institute of Education, Bhubaneswar invites item-wise sealed Tenders from Original Equipment Manufacturers / Authorized Dealers as per the specifications mentioned against each item(s) available in our website www.riebbs.ori.nic.in and www.riebbs.ac.in .

1. The Tender should accompany @ 3% of the quoted price as EMD.
2. The EMD will be refunded to the unsuccessful bidder by post as per GFR rules.
3. The EMD of successful bidders will be refunded only after satisfactory supply of ordered items/equipment.
4. The last date for receipt of duly filled in complete tender with EMD and other necessary documents is **19 .10. 2015 by 5:00 P.M.**
5. No excuse for Postal Delay, Holidays or any other reasons will be acceptable for submission of Tender beyond the due date.
6. Tenderers should sign on the Tender Form and enclose copies of the required documents.
7. After finalizing the tender process, procurement order will be placed to the successful bidders for supply of quoted items with quoted rate. **If the agency fails to supply the items within the stipulated period, the procurement order will be cancelled and EMD amount will be forfeited.**
8. The rates of Equipments be quoted as per DGS&D rate contract wherever is applicable, otherwise non DGS&D can also be quoted.
9. The payment of cost of supplied items will be made after satisfactory supply. The supplier should submit the bill in triplicate with ASR. The payment will be made by A/C payee cheque of SBI, RCE Campus Branch, and Bhubaneswar.
10. For all purpose of the contract including arbitration proceeding there under the Principal, RIE, Bhubaneswar shall be entitled to exercise all the rights and power of purchase.
11. It will be the responsibility of concerned Firm to deliver the items ordered at RIE, Bhubaneswar.
12. Force Major, Clause is applicable to this contract.
13. The supply should carry usual Guarantee/Warranty.
 - (i) No advance payment will be made to the Firm under any circumstances.
 - (ii) The Tenderers should possess valid TIN/PAN and mention the same on Tender Paper.

- (iii) Annual maintenance contract, terms and conditions need to be mentioned in Tender whenever applicable.
- (iv) The Tenderers who have downloaded the Tender Form and Terms and Conditions of the Tender from the RIE website and interested to submit the same may deposit **Rs.200.00** (Rupees Two Hundred) only in the shape of Bank Draft drawn in favour of **GENERAL FUND ACCOUNT, Regional Institute of Education, Bhubaneswar**, Payable at **Bhubaneswar** on any **Nationalized Bank** failing which the tender will be rejected.
- (v) The rates of Equipments should be **inclusive of all Taxes**, Transportation, Free Delivery and Demonstration etc.
- (vi) No extra price will be paid in any case to the supplier(s).
- (vii) The Tenderers should submit the soft copy of the Tender.

The Institute reserves the right to reject or accept any or all the tenders either in full or in part without assigning any reason thereof.

ADMINISTRATIVE OFFICER

REGIONAL INSTITUTE OF EDUCATION: BHUBANESWAR

Tender Form for supply of Scientific Equipment, Glassware, Plastic ware and class work materials for DESM(RIE)

- 1 .Name of the Firm with complete Postal Address: -----
2. Name of the Accounts (Need to be in the name of Firm / Organization):-----
3. Type of Account : SB / Current: -----
4. Name of the Bank : -----
5. Address of the Bank: -----
6. IFSC code of the Bank: -----
7. Account No : -----
8. Telephone No : i) Landline No.:-----
ii) Mobile No :-----
9. FAX No: -----
10. PAN No: ---
11. TIN No.:-----
12. Bid Amount (Item wise)
 - a.
 - b.
 - c.
 - d
13. EMD Details: -----

Signature of the proprietor with Address

LIST OF SCIENTIFIC EQUIPMENT TO BE PURCHASED DURING 2015-16 (DESM)

PHYSICS SECTION				
SL NO	PARTICULARS OF EQUIPMENT	SPECIFICATION / MAKE	QUANTITY	REMARKS
1	(Sine /square/triangular)Function generator (1 Hz to110kHz)-Range	OMEGA FG-321	2 nos	
2	DC Value power supply with three analogue meters, output (0-300) V DC,100mA,(6.3V -3Amp.) cat-7742	INCO	2nos	
3	Specific heat of liquid apparatus (cooling method)	INCO	2nos	
4	Melde's apparatus (Electric tuning fork) Frequency -90Hz,(Heavy coil setting vibration)	INCO	2 nos	
5	Automatic voltage stabilizer (1KVA) 130V Input / 220V output	V-GUARD	2 nos	
6	Manganin coil (1 to 10,000 Ω) Plugin-resistance box (17 plugs)	INCO	4nos	
7	Photovoltaic cell characteristics	REVCO	1no	
8	Multivibrator(ETB-95)	OMEGA	1no	
9	Viscosity by capillary flow Apparatus , (Manometer type with water tank and capillary tube)	INCO	1no	
10	Newton's law of cooling apparatus (Stainless steel chambers)	INCO	1 no	
CHEMISTRY SECTION				
11	Polarimeter with monochromatic light source	SIPCON	3 sets	
12	Thin layer chromatography apparatus with chrome plated applicator	Unilab	1 no	
13	Vaccum Pump 2.0 HP	Basynt	1 set	
14	Single Beam PC Based UV Visible Spectrophotometer,Holographic grating 1200 lines / min	Labman	1 no	
15	Digital Balance with readability up to 2 nd place after decimal point	Any	1no	
BOTANY SECTION				
15	Monocular Microscope Inclined with Blue light anti fungus , Halogen light illuminator,objectives 10x,40x,100x. abbe condenser NA 1.25	Olympus - MLM	6nos	
16	Water Bath Double walled ,stainless steel body, temp controlled by thermostat, 405 x 355 x 100 mm,12 holes	Satyam	1 no	
17	Magnetic stirrer 1 litre stainless steel top,PMDC motor,1200rpm	Labline	1 no	
18	PH Meter Microcontroller base Autimatic PH standardization with two point calibration resolution 0.01 PH ,temp range 0-1000c Display 7 digit, calibration data stored in battery back up memory ,Dot Matrix printer	Systronics Mod:361	1no	

19	Electrophoresis power supply Unit Used with mini submarine vertical electrophoresis unit , maximum out put 300Ma & 80 watts	Tarson Code:7090	1no	
ZOOLOGY SECTION				
20	Advance Rotary Microtome with all accessories (Latest spencer 820 type) Section thickness range : 1-50 μ m Section thickening setting –in step of 1 μ m, Max section area -32 mm,Knief length 120 mm ,provided with adjustment locks, weight-35 kg	Zenith Mod : SP-ZEN	1no	
21	UV-Vis Spectrophotometer.Single Beam Spectrophotometer Wave length range:190-1100 nm Bandwith:2nm Grating : 1200 lines/ mm,Wave length Accuracy ;+ 0.8 nm Display :LCD,Cell holder : 10mm, 4 position cuvette holder,power supply : Ac 220v/ 50Hz, Wt- 18 kg	LABMAN Mod : LMSP – UV 1200	1no	
22	MP USB high resolution Microscope Camera with Photo lens, Microscope Adapter with measurement software	VISION MICRO SYSTEM	1no	
LIFE SCIENCE SECTION				
23	Haemocytometer with side and capillary tubes	Any make	10 nos	
24	Haemometer	Any make	10 nos	
25	ESR Apparatus	Any make	10 nos	
26	Variable volume pipette	TARSON Code:T100 Capacity:10-100	2nos	
27	Spinwin MC-01 Micro Centrifuge	TARSON Code:1020 Built in power supply , Digital display of time and RPM Standard 6 place rotor for 12.5 ml tubes	1 no	
28	Magnetic Stirrer	TARSON Top late size 18cm x 18cm Code:5030	1 no	

HEAD,DESM

LIST OF CONSUMABLE ITEM TO BE PURCHASED DURING 2015-16 (DESM)

PHYSICS SECTION				
SL NO	PARTICULARS OF CONSUMABLE ITEM	SPECIFICATION / MAKE	QUANTITY	REMARKS
1	Digital stop watch	RACER	4 nos	
2	Distillation flask with side tube at angle	BOROSIL	2nos	
3	Sodium Vapour lamp (assemble)55 watts with choke (lamp with auto leak transformer)	INCO	2nos	
4	Thermometer(0-110c) least count =0.5*c	Any Brand	6nos	
5	Conductivity cell(Cell constant =1.275)	PHILLIPS	2nos	
6	Electronics components 1. a.Capacitors 0.1μfd (450V) b.Capacitors1000pfd(400v) 2. Electrolytic capacitors a. 16μfd(450WV) b. 20μfd(450WV)	Any Brand	6 nos 6 nos 6 nos 6 nos	
7	1.Semiconductor diode BY127 i. Transistors SK-100 ii. FET BFW II iii.Op amplifier 741 iv.Resistors (1watt), 1K, 10K, 4.7K	Any Brand	6 nos 4 nos 4 nos 4 nos 1 doz each value	
CHEMISTRY SECTION (CHEMICALS)(FINAR)				
1	Ammonium Chloride	10195/Finar	4x500g	
2	Ammonium Nitrate	Finar	1x500g	
3	Ammonium Ferrous Sulphate	10130/Finar	2x500g	
4	Ammonium Bromide	10087/Finar	1x500g	
5	Conc. HCL	10770/Finar	5x2.5lit	
6	Conc. H ₂ SO ₄	11760/Finar	4x2.5lit	
7	Conc. HNO ₃	11030/Finar	2x2.5lit	
8	Conc Ammonia Soln	10070/Finar	4x2.5lit	
9	Borax	11700/Finar	1x 500g	
10	Barium Chloride	10230/Finar	2x500g	
11	Cupric Carbonate	10509/Finar	1x500g	
12	Calcium Oxide	10443/Finar	2x500g	
13	Fused Calcium Chloride	10420/Finar	2x500g	
14	Copper Sulphate	10510/Finar	2x500g	
15	Copper Turning/ Wool		1x500g	
16	Cobalt Nitrate	10501/Finar	1x100g	
17	Sodium Cobalt Nitrate	11579/Finar	1x100g	
18	Ceric Ammonium Nitrate	10092/Finar	1x100g	
19	Zinc Carbonate	11975/Finar	1x500g	

20	Iron Sulphate	10702/Finar	2x1kg	
21	Ferrous Sulphate	10700/Finar	1x500g	
22	Mercury Chloride	10900/Finar	1x250g	
23	Potassium Iodide	11310/Finar	3x500g	
24	Potassium Bromide	11230/Finar	1x500g	
25	Sodium Carbonate	11560/Finar	4x500g	
26	Sodium Hydroxide Pellets	11620/Finar	2x500g	
27	Sodium Nitrite	11650/Finar	2x500g	
28	Sodium Chloride	11570/Finar	2x500g	
29	Sodium Nitrate	11640/Finar	2x500g	
30	Sodium Bi-Carbonate	11550/Finar	1x500g	
31	Sodium Thiosulphate	11710/Finar	2x500g	
32	Sodium Bromide	11555/Finar	1x500g	
33	Stannous Chloride	11730/Finar	2x100g	
34	Hydrogen peroxide	10776/500ml	1x500ml	
35	Potassium Dichromate	11260/500g	1x500g	
36	Potassium Sulphate	11360/Finar	1x500g	
37	Silver Nitrate	11470/Finar	1x100g	
38	Zinc Sulphate	12000SG500	2x500g	
39	Tin Granules	118555SG500	1x100g	
	ORGANIC CHEMICALS(FINAR)			
40	Salicylic Acid	11443/Finar	2x500g	
41	Acetophenone	10032/Finar	1x500ml	
42	Carbon Tetrachloride	Finar	1x500ml	
43	Ethyl Methyl Ketone	10340/Finar	1x500ml	
44	Acetic Acid Glacial	10010/Finar	2x2.5lit	
45	Acetamide	10003/Finar	1x500g.	
46	Acetanilide	Finar	1x500g	
47	Acetone	10020/Finar	2x500ml	
48	Aniline	10204/Finar	1x500ml	
49	Benzaldehyde	10250/Finar	1x500ml	
50	Phenyle Hydrazine	11179LM250/Finar	2x250ml	
51	Benzophenone	10284/Finar	1x500ml	
52	Phenyl Hydrazine Hydrochloride	1182SG100/Finar	2x100gm	
53	Ethyl Acetate	10680/finar	2x500ml	
54	Methanol	10930/Finar	3x500ml	
55	Maltose	10866/finar	1x250g	
56	Nitrobenzene	11035/finar	1x500ml	
57	Alpha Naphthol	11005/finar	1x100g	
58	Beta Naphthol	11006/finar	1x500g	
59	Starch (Soluble)	11740/finar	1x500g	
60	Schiff's Reagent	11444/finar	2x500ml	
61	Iso amyl alcohol	Finar	1x500ML	

62	Acetyl Chloride	10028/finar	2x500ml	
63	Ninhydrin AR	21020/finar	1x25g	
64	N-butanol	10330/finar	1x2.5lit.	
65	Cadmium Carbonate	10410/finar	1x500g	
66	Sodium Bi-Sulphite	11552/finar	2x500g	
67	Amino Acid Kit	K007-1kit	1x1kit	
68	Buffer Tablet(pH-4)	Finar	1x1pkt	
69	Buffer Tablet(pH-7)	Finar	1x1pkt	
70	Phenol	11160SG500	1x500gm	
71	Methylene Blue	10950SG025	1x25gm	
72	Fluorescein	Finar	1x100gm	
73	D-galactose	10703SG025	1x25gm	
74	D-Fructose	10714SG100	2x100gm	
75	Aniline hydrogenphosphate	Finar	1x500ml	
76	n-hexane	70740LM500	2x500ml	
77	Ninhydrin	21020SG025	1x25mg	
78	Silica gel	11447SG500	1x500mg	
79	2-butanone	10340LM500	1x500ml	
80	Hexan-2-one	Finar	1x500ml	
81	Hexan-3-one	Finar	1x500ml	
82	Toluene	11860LM500	1x500ml	
83	Light petroleum	11130LM500	1x500ml	
84	Cyclohexane	10515LM500	1x500ml	

GLASSWARE (BOROSIL)

1	Beaker (250 ml)	1000 D 21	30 nos	
2	Beaker (100 ml)	100 D 16	20 nos	
3	Conical flask (250 ml)	4980021	20 nos	
4	Conical flask (100 ml)	4980016	30 nos	
5	Pipette 25 ml	7102009	6 nos	
6	Pipette 10 ml	7102006	15 nos	
7	Burette 25 ml	2122009	10 nos	
8	Burette 50 ml	2122012	6 nos	
9	Leibig condenser with joint size 19/26	2400087	3 nos	
10	Round Bottom flask with grounded joint size 19/26 capacity 250 ml	4380 B 21	3 nos	
11	Gooch crucible G4 30 ml size	3206810	10 nos	
12	Funnel 10 cum diamtr.		30 nos	
13	Specific gravity bottle (Pyknometer)	1627009 Borosil	3 nos	
14	Flask distilling with side arm	Borosil	4 nos	
15	Test tube 15 x 125 mm size	9800004/Borosil	500 nos	
16	Porcelain Basin 10 cm dia	Ordinary	20 nos	
17	Kipps Apparatus	6550024/Borosil	2 nos	
18	Atomiser with bottle	Borosil	2 nos	

TARSON PRODUCTS				
1	Dropping Bottles	620070	60 bottles	
2	Self-venting Labeled wash bottle	562020/Tarson	1 pack	
3	Measuring cylinder class B 25ml capacity	346020/Tarson	6 nos	
4	Measuring cylinder class B 50ml capacity	546030/Tarson	6 nos	
5	Buchner Funnel 70mm diam	643014/Tarson	3 nos	
CONSUMABLE ITEMS				
1	Test tube Holder	Any brand	50 nos	
2	Filter paper ordinary sheets	Any brand	1 rem	
3	Spatula 6" long nickel	Any brand	3doz	
4	Rubber corks size no 2	Any brand	50 nos	
5	Rubber corks size no 4	Any brand	50 nos	
6	Charcoal block	Any brand	4 pkt	
7	Blow pipe 8" long brass	Any brand	40 nos	
8	Tongs 6" long brass type	Any brand	30 nos	
9	Triangular file	Any brand	5nos	
10	Fusion tube pkt. of 5 gross	Any brand	5pkt	
11	Litmus paper Merck/PHC pkt containing 10 books	Any brand	4 pkt	
12	Litmus paper Merck/PHC pkt containing 10 books	Any brand	4 pkt	
13	Capillary tube pkt of 1 gross	Any brand	3 pkt	
14	Glass tubing (Borosil make)	Any brand	1 kg	
15	Bunsen burner Mansfield type Dollar/Parco make	Any brand	30 nos	
16	Test-tube cleaning brush	Any brand	30 nos	
17	Wire gauge with central asbestos pad	Any brand	40 nos	
18	Mortar and pestle, porcelain make 10cm diam.	Any brand	20 nos	
19	Porcelain basin 10 mm diam.	Any brand	20 nos	
20	What man No.41 filter paper (pkt of 100) circles (10 cm diam.)	Any brand	2 pkts	
21	Test tube stand (wooden)	Any brand	30 nos	
22	Thermometer up to 300c	Any brand	20nos	
23	Gas distribution cock 4 way brass made	Any brand	12 nos	
24	Chromatography paper size 460 x 570mm	Any brand	1pkt	
BOTANY SECTION				
CLASSWORK MATERIALS (CONSUMABLE MATERIALS)				
1.	Ganongs potometer	Any brand	10 Nos.	
2.	Microscopic kits	Any brand	01 Nos.	
3.	Pointed needles	Any brand	30 Nos.	
4.	Chromatography paper	Any brand	20 Nos.	
5.	Sprayer	Any brand	04 Nos.	
6.	Scalpel	Any brand	30 Nos.	
7.	Glass Dropper(Big)	Any brand	20 Nos.	
8.	Glass Specimen Jar with Cap (15x7)	Any brand	100 Nos.	
9.	Test tube (Borosil)	Any brand	10 Pkt	
10.	Marker pen	Any brand	10 Nos.	

11.	Capillary tube	Any brand	2 Pkt.	
12.	Knief Big	Any brand	02 Nos.	
13.	Pointed forecep	Any brand	30 Nos.	
14.	Blotting Paper	Any brand	2 rim	
15.	Stainless Steel Scissor(Big)	Any brand	30 Nos.	
GLASSWARES (CONSUMABLE MATERIALS)				
1	Pipette 5ml	7060	10	
2.	Pipette 10ml	7060	10	
3.	Pipette 25ml	7060	10	
4.	Petridishes (100x15)	3165	10	
5.	Burette 50 ml	2122	10	
6.	Burette 100 ml	2122	10	
7.	Reagent Bottle (100 ml)	1501	20	
8.	Reagent Bottle (250 ml)	1501	20	
9.	Tissue cultures flasks (14.75x8.66x3.75)	5510	10	
10	Centrifuge tube (Glass)	8080	10	
11	Reagent Bottles(500ml)	1500	10	
12.	Reagent Bottles(250 ml)	1500	10	
GLASSWARES (SLIDES & COVERSLIP) (BLUE STAR)				
1	Cover slip Square (Blue Star) 18mmx 18 mm	1183	100 pkt.	
2	Micro slip Rctangular(Blue star) 18 mmx18mm	1183	100 pkt.	
CLASSWORK MATERIALS (PERMANENT SLIDES)				
1.	Flower Bud(L.S)	Any brand	01 No.	
2.	Citrus flower bud (L.S)	Any brand	01 No.	
3.	Epigynous flower (L.S)	Any brand	01No.	
4.	Perigynous flower(L.S)	Any brand	01No.	
5.	Amphitropous ovule	Any brand	01 No.	
6.	Anatropous ovule	Any brand	01 No.	
7.	Campylotropous ovule	Any brand	01 No.	
8.	Orthotropous ovule	Any brand	01 No.	
9.	Circinotropous ovule	Any brand	01No.	
10.	Seed showing seed coat, embryo and endosperm	Any brand	01No.	
11.	L.S of ovule showing megasporogenesis	Any brand	01 no	
12.	L.S of ovule shoeing globular embryo	Any brand	01no	
13.	Cellular endosperm	Any brand	01no	
14.	L.S of ovule shoeing globular embryo	Any brand	01no	
15.	Cellular endosperm	Any brand	01no	
16.	Helobial endosperm	Any brand	01no	
17.	Uninucleate pollen grains	Any brand	01no	
18.	Bi-celled pollen grains	Any brand	01no	

CHEMICALS & STAINS (HI-MEDIA)

1.	Sucrose	RM 601	02x500gms	
2.	Mercuric chloride	RM1067	01x100gms	
3.	D-Manitol	PCT0604	01x 500gms	
4.	Sodium Bicarbonate	RM253	02 x 500gms	
5.	Manganous sulphate	RM 1381	01 x 500gms	
6.	Starch	RM3029	02 x 500 gms	
7.	Potassium permanganate		02 x 500 gms	
8.	Sodium Hydroxide pellets	RM467	02 x 500 gms	
9.	Potassium Nitrate	RM402	01 x 500 gm	
10.	Calcium Hypochlorite	RM1223	01 x 500 gm	
11.	Glucose	RMO77	02 x 500 gms	
12.	Formalin	ASO17	05 x 500 gms	
13.	Disodium EDTA	TCO38	01 x 500gms	
14.	Xylene	ASO78	02 x 500ml	
15.	Znic Sulphate	RM1180	01 x 500gm	
16.	Fructose	RM196	01 x 500gm	
17.	Silver Nitrate	RM 409	01 x 10 gm	
18.	Ferric Sulphate	RM536	01 x 500 gms	
19.	Nin Hydrin	RM 268	01 x 10 gms	
20.	Sudan I	RM 7525	01 x 25 gms	
21.	Sudan IV	RM 992	02 x 10gms	
22.	Cellulase		01 x 25 gms	
23.	Copper Sulphate	RM6391	01 x 500gms	
24.	Potassium Iodide	RM252	01 x 100 gms	
25.	Petroleum Ether	ASO63	10 x 500gms	
26.	Acetone	ASO24	10 x 500gms	
27.	Methylene Blue	SO 21	02 x 125 ml	
28.	Hydrogen Peroxide		01 x 2 lit	
30.	Sodium Thiosulphate (0.1 N)	RO69	02 x 1 lit	
31.	Hematoxylene	SO14	05 x 125 ml	
32.	Methanol	ASO 58	02 x 2.5 lit	
33.	Benedict's Reagent	R002	05 x 500ml	
34.	Conc. Sulphuric acid	As016	02 x 500 ml	
35.	Liquid detergent		02 x 500ml	
36.	Fast green	RM 7004	02 x 25 gms	
37.	Calcium Carbonate	RM 397	01 x 500gms	
38.	Boric acid	RM 3900	01 x 500gms	
39.	PH 160 PH Hydrin (1 to 12)	LA 342	01 x 1no	

MUSEUM SPECIMEN (PLASTIC EMBEDDED SPECIMEN)

1	Chara	Any Brand	01 no	
2	Nostoc	Any Brand	01 no	
3	Oscillatoria	Any Brand	01 no	
4	Oedogonium	Any Brand	01 no	
5	Polysiphonia	Any Brand	01 no	
6	Rivularia	Any Brand	01 no	
7	Vaucheria	Any Brand	01 no	

8	Volvox	Any Brand	01 no	
9	Alternaria	Any Brand	01 no	
10	Albugo conodia on leaf	Any Brand	01 no	
11	Penicillium	Any Brand	01 no	
12	Puccinia on wheat leaf	Any Brand	01 no	
13	Puccinia Pycnogonial	Any Brand	01 no	
14	Leaf curl of Papaya	Any Brand	01 no	
15	Blast of Rice	Any Brand	01 no	
16	Bacterial Blight of Rice	Any Brand	01 no	
17	Powdery mildew of Pea	Any Brand	01 no	
18	Tikka disease of Groundnut	Any Brand	01 no	
19	Late Blight of Potato	Any Brand	01 no	
20	Early Blight of Potato	Any Brand	01 no	
21	Lichen cladonia fertile	Any Brand	01 no	
22	Lichen Phycia fertile	Any Brand	01 no	
23	Marchantia Gemma cup	Any Brand	01 no	
24	Funaria fertile	Any Brand	01 no	
25	Lycopodium shoot with cone	Any Brand	01 no	
26	Equisetum prothallus	Any Brand	01 no	
27	Equisetum with sporophyte	Any Brand	01 no	
28	Fern prothallus with sex organ	Any Brand	01 no	
29	Fern sporophyll	Any Brand	01 no	
30	Cycas ovule	Any Brand	01 no	
31	Pinus male cone	Any Brand	01 no	
32	Pinus female cone	Any Brand	01 no	
33	Gnetum male cone	Any Brand	01 no	
34	Gneyum female cone	Any Brand	01 no	
35	Gnetum ovule	Any Brand	01 no	
36	Eichhornia	Any Brand	01 no	
37	Hydrilla	Any Brand	01 no	
38	Pistia	Any Brand	01 no	
39	Lemna	Any Brand	01 no	
40	Nymphaea	Any Brand	01 no	
41	Salvinia	Any Brand	01 no	
42	Jussiaea	Any Brand	01 no	
43	Limnophylla	Any Brand	01 no	
44	Vallisneria	Any Brand	01 no	
45	Wolffia	Any Brand	01 no	
46	Ectocarpus	Any Brand	01 no	
47	Typha	Any Brand	01 no	
48	Marsilea	Any Brand	01 no	
49	Ceratophyllum	Any Brand	01 no	
50	Utricularia	Any Brand	01 no	

CLASSWORK MATERIALS (CONSUMABLE)

1	Anabaena Veg.	Any Brand	10	
2	Anabaena heterocystic	Any Brand	10	
3	Nostoc veg.	Any Brand	10	

4	Nostoc heterocystic	Any Brand	10	
5	Oscillatoria	Any Brand	10	
6	Rivularia	Any Brand	10	
7	Volvox vegetative	Any Brand	10	
8	Volvox daughter colonies	Any Brand	10	
9	Chara reproductive	Any Brand	10	
10	Oedogonium vegetative	Any Brand	10	
11	Oedonium cap cells	Any Brand	10	
12	Oedodonium macrandrous	Any Brand	10	
13	Oedogonium nanandrous	Any Brand	10	
14	Vaucheria Asexual	Any Brand	10	
15	Vaucheria sexual	Any Brand	10	
16	Polysiphonia Veg	Any Brand	10	
17	Albugo asexual	Any Brand	10	
18	Albugo sexual	Any Brand	10	
19	Puccinia Acediospore	Any Brand	10	
20	Puccinia Uredospore	Any Brand	10	
21	Puccinia Teleutosporre	Any Brand	10	
22	Alternaria	Any Brand	10	
23	Riccia veg.	Any Brand	20	
24	Riccia sporophyte	Any Brand	20	
25	Marchantia thallus	Any Brand	20	
26	Marchantia Gemma Cup	Any Brand	20	
27	Marchantia Antheridia	Any Brand	10	
28	Marchantia Archegonia	Any Brand	10	
29	Marchantia Sporophyte	Any Brand	10	
30	Anthoceros thallus	Any Brand	10	
31	Anthoceros Sporophyte	Any Brand	10	
32	Funaria Veg. Plant	Any Brand	10	
33	Funaria With capsule	Any Brand	20	
34	Moss Protonema	Any Brand	10	
35	Moss Sporophyte	Any Brand	10	
36	Sellaginella Stem	Any Brand	20	
37	Sellaginella Stribilus	Any Brand	20	
38	Sellaginella Root	Any Brand	10	
39	Equisetum Stem	Any Brand	20	
40	Equisetum Root	Any Brand	10	
41	Equisetum Rhizome	Any Brand	10	
42	Equisetum Cone	Any Brand	20	
43	Lycopodium Stem	Any Brand	20	
44	Lycopodium Root	Any Brand	10	
45	Lycopodium Strobilus	Any Brand	20	
46	Marsilea sporocarp	Any Brand	20	
47	Marsilea Rhizome	Any Brand	10	
48	Marsilea Root	Any Brand	10	

CLASSWORK MATERIALS (CONSUMABLE ITEMS)				
1.	Biotech squares steel Quadrates	Any Brand	05 Nos.	
2.	Burette stand	Any Brand	20 Nos.	
3.	Stage Micrometer,	(ERMA, JAPAN)	05Nos.	
4.	Occular Micrometer, 0.1 mm	(ERMA, JAPAN)	05Nos.	
5.	Specimen jar screw neck with Bakelite plastic cap (500 ml)	Any Brand	100 Nos.	
6.	Specimen jar screw neck with Bakelite plastic cap (1000 ml)	Any Brand	50 Nos.	
7.	Screw driver set for microscope)	TAPARIA	02 No.	
8.	Scalpel	Any Brand	30 Nos.	
9.	Forceps(Pointed) 6- inch	Any Brand	30 Nos.	
10.	Forceps(Pointed) 7- inch	Any Brand	30 Nos.	
11.	Scissors 5-inch	Any Brand	30 Nos.	
12.	Scissors 7-inch	Any Brand	30 Nos.	
13.	pH paper	MERCK	5 Packet	
14.	Inoculation needle	Any Brand	10 Nos.	
15.	Hand Magnifier with Bakelite handle- 4 -inch	Any Brand	05 Nos.	
ZOOLOGY SECTION				
CHEMICALS (HI MEDIA)				
1	Acetocarmin –PTC		5X100 ml	
2	Agarose		1X 25 gm	
3	n-butyl Alcohol		2X 2.5 lit	
4	Calcium Carbonate	GRM-397	1 X500gm	
5	Bromophenol Blue	GRM-117	1 x5 gm	
6	Carmin Powder	RM-224	1 x 5 gm	
7	Calcium Hydroxide	GRM-1276	1 X 500 gm	
8	Calcium Acetate	GRM-3901	1x 500gm	
9	Copper Sulphate	GRM-6391	1 x 500gm	
10	EDTA	GRM-678	1 X 500gm	
11	Eosin 2% w/v	S007	5X125ml	
12.	Ethidium bromide	RM813	1 X 1gm.	
13.	Fructose	GRM1355	1 X 500gm	
14.	Hematoxylene (deafields)	SO14	5 X 125ml.	
15.	Iodine	GRM1064	1 X 50gm.	
16.	Iodine Solution	R044	3 X 125ml.	
17.	Lactose	GRM017	1 X 500gm.	
18.	Leishman’s Stain Solution	S018S	2 X 250ml.	
19.	Manganese sulphate monohydrate	GRM687	1 X 500gm	
20.	Methanol	AS058	1 X 2.5lt.	
21.	Methyl orange	GRM958	1 X 25gm.	
22.	α- Naphthylamine	GRM6096	1 X 100gm.	
23.	Paraffin wax (noncaking) in block	GRM10668	1 X 3kg.	
24.	Petroleum ether	AS064	3 X 500ml.	
25.	Potassium iodide	GRM252	1 X 100gm.	
26.	2-Propanol	AS067	2 X 500ml.	
27.	Sodium dihydrogen orthophosphatedihydrate	GRM256	1 X 500gm	

28.	di-Sodium hydrogen phosphate dihydrate	GRM257	1 X 500gm.	
29.	Sodium sulphate	GRM1037	1 X 500gm.	
30.	Sodium thiosulphate	GRM1420	1 X 500gm.	
31.	Tris buffer	GRM1218	1 X 100gm	
32.	Ureas active meal	GRM091	1 X 100gm.	

MUSEUM SPECIMEN

01.	Balanoglossus	Any Brand	1no	
02.	Echinus	Any Brand	1no	
03.	Clypeaster	Any Brand	1no	
04.	Nautilus	Any Brand	1no	
05.	Echinis	Any Brand	1no	
06.	Chimaera	Any Brand	1no	
07.	Anabas	Any Brand	1no	
08.	Uromastix	Any Brand	1no	
09.	Viper	Any Brand	1no	
10.	Krait	Any Brand	1no	
11.	Stegostoma	Any Brand	1no	
12.	Pristis	Any Brand	1no	
13.	Harpodon	Any Brand	1no	
14.	Labeo rohita	Any Brand	1no	
15.	Catlt catla	Any Brand	1no	
16.	Mrigala	Any Brand	1no	
17.	Arius	Any Brand	1no	
18.	Heteropneustes	Any Brand	1no	
19.	Mystus	Any Brand	1no	
20.	Wallago	Any Brand	1no	
21.	Belone	Any Brand	1no	
22.	Hemirhamphus	Any Brand	1no	
23.	Opheocephalus	Any Brand	1no	
24.	Echeneis	Any Brand	1no	

PRESERVED SPECIMEN FOR DISSECTION AND MOUNTING

01.	Earthworm (selected large in glass container)	Any Brand	200No.	
02.	Pila large	Any Brand	400No.	
03.	Prawn (FW) 5" to 8 "	No Brand	400No.	
04.	Scolidon – 15" – 18"	No Brand	400	
05.	Sponge gemmules	No Brand	10units	
06.	Sponge spicules	No Brand	10units	

GLASSWARE & PLASTICWARE (BOROSIL)

01	Beakers-tall forms, with spout – 250ml.	1060D21	12	
02	Beakers-tall forms, with spout – 500ml	1060D24	12	
03	Reagent Bottle, Amber – 1000ml.	1519029	06	
04	Burettes, Boroflo – 50ml	2121012	06	
05	Conical Flasks, Narrow mouth – 500ml.	5000024	10	
06	Pipette measuring –1ml.	7059P11	6	
07	Pipette measuring –2ml.	7059P22	6	
08	Centrifuge tubes, conical bottom- 15ml.	8080007	10	

09	Micropipettes, variable volume, single channel, 0.2ml.-2.0ml.	LH007112002	2	
10	10µl Universal Graduated tips	BGT-10B	2pkts	
11	Empty tip Box	BGT-10ETR	1	
COVER GLASSES (BLUE STAR)				
12	Micro cover glasses – Blue Star i. Square – 18mm.		1 X 20pkts	
	ii. Circular – 18mm		1 X 20pkts	
OTHER CLASS WORK MATERIALS				
01	Stethoscope, dual head	Any Brand	2nos	
02	Mercurial Sphygmomanometer	Make-Meditech	2nos	
03	Laboratory Mercury thermometer 10°C to 150°C	Any Brand	4nos	
04	Counting Chambers – (Rohem) Bright Line counting chambers		6nos	
05	R.B.C. Pipettes GERMAN SUPERIOR Make with Mouth Piece & Rubber Tubbing (Box of 10 pieces)		2boxes	
06	W.B.C. Pipettes GERMAN SUPERIOR Make with Mouth Piece & Rubber Tubbing (Box of 10 pieces)		2 boxes	
LIFE SCIENCE SECTION				
CHEMICALS (HI-MEDIA)				
01	Acetic Acid	AS001-2.5L	1X2.5L	
02	Acetone	As024-2.5l	1x 2.5L	
03	Hydrochloric Acid	AS003-2.5L	1x2.5L	
04	Sulphuric Acid	AS016-2.5l	1x 2.5l	
05	Nitric Acid	AS008-2.5L	1X 2.5L	
06	PICRIC acid	RM1788-500G	1X500gm	
07	Xylene	AS078-2.5L	1x 2.5L	
08	Methanol	AS058-2.5L	1X 2.5L	
09	Chloroform	AS039-500ml	1 x 500ml	
10	Di Sodium Hydrogen Phosphate	RM6365-500g	2x 500g	
11	Sodium di hydrogen Phosphate	RM 6382	2X 500g	
12	Sodium Carbonate	RM1189-500G	1X 500gm	
13	Sodium Hydroxide	RM467-500g	1x 500g	
14	D- Glucose	RM016-500G	1X500G	
15	D-Fructose	RM1355-500g	1x 500gm	
16	D-Lactose	RM017-500G	1x 500gm	
17	Maltose	RM3050-500gm	1x 500gm	
18	Sucrose	RM134-500gm	2x500gm	
19	Starch	RM3029-500gm	1x500gm	
20	D-Xylose	RM-111-100g	1x 100gm	
21	D-Galactose	RM 101-25g	1x 25g	
22	Cellulase	RM 126-500g	1x5g	
23	Pectinase	RM2366-500g	1 x250g	
24	Petroleum Ether 60*-80*	AS064-2.5L	2 x 2.5l	
25	Silver Nitrate	RM408-10G	1X 10g	

26	Urease Active meal	RM091-100g	1x 100g	
27	Urea	RM632-500g	1 x 500g	
28	Bovine Serum Albumin	MB083-25 g	1x 25g	
29	Benedict's Qualitative Reagent	R002-500ml	4x 500ml	
30	Benedict's Quantitive Reagent	R003-500ml	4x 500ml	
31	Gelatin	RM019-500g	1 x 500g	
32	Guaiacol	RM1118-250g	1x250g	
33	Glycerol	RM081-1L	1x1L	
34	Haematoxylin	RM236-5G	1 X5g	
35	Safranine	RM1315-25g	1 x25 g	
36	Eosine	RM938-25g	1 x 25g	
37	Gram's Safranine	S027-125ml	2 x125ml	
38	Gram's Crystal Violet	S012-125ml	2 x125ml	
39	Gram's Iodine	S013-125ml	2x 125ml	
40	Gram's stain kit	K001-1kit	1 kit	
41	Alpha naphtol	RM 13492-500G	1X500G	
42	Ortrho Phosphoric Acid	AS010-500ml	2 x 500ml	
43	Hydrogen Peroxide 50%	500ml	2 x 500ml	
44	Beef Extract	500gm	1 x 500gm	
45	Carmine Powder	RM224-25g	1 x25 g	
46	DPX Mount	100ml	1 x 100	
47	EDTA	RM678-100g	1 x100g	
48	Indole-3-acetic Acid	RM-384-5g	1 x 5g	
49	Indole -3 -butyric Acid	RM385-5g	1 x 5g	
50	Agarose Special	RM273-10g	1 x 10g	
51	Iso-Propanol(2-propanol)	AS067-2.5L	1X 2.5L	
52	Di ethyle Ether	AS047-500ml	1 x 500ml	
53	Sillica gel for TLC	Rm-7480-500g	1 x 500g	
54	Haematoxylene(Delafield)	S014-125ml	4 x 125 ml	
55	Leishman's Stain (Twin pack)	S018-250ml`	1 x 250ml	
56	Lactic ACID	RM243-500ml	1 x 500ml	
57	Ninhyrin A-R	RM248-25g	1 x 25 g	
58	Iodine resublimated	RM1065-100g	1 x 100gm	
59	Fehling's solution no-1	R037-500ml	4 x 500ml	
60	Fehling's solution no-2	R038-500ML	4 X 500ML	
61	Mercuric Chloride extra pure	RM 1067-100g	1 x 100g	
62	Parafin wax congealing point 60*-62 *c packed in ss container	RM 1042-500 gm	10 x 500gm	
63	Sodium Chloride extra pure	RM031-1 kg	1 x 1kg	
64	Sodium oxalate AR	RM 031-1 kg	1 x 500gm	
65	D-Manitol ,extra pure	RM024-500G	1 X 500gm	
66	Coolmassie Brilliant Blue G-250	MB092-5g	1 x 5g	
67	Gentian violet	S010-125ml	2 x125ml	
68	Bromophenol Blue indicator	1004-125ml	2 x 125 ml	
69	Sodium Sulphate anahydrous purified	RM1419-500g	1 x 500g	
70	Potassium Carbonate extra pure	RM1399-500G	1 X 500G	
71	Potassium Chloride purified	RM 697-500g	1 x 500 g	
72	Sudan Black-B	RM260-5g	1 x 5g	

73	Schiff's reagent	SS074-500ml	1 x 500ml	
74	Tri sodium citrate Dehydrate extra pure	RM255-500g	1 x 500g	
GLASSWARE (BOROSIL)				
1	Culture petridishes,100 x 17mm	316677 /100 std pack	100	
2	Burette Boroflo stopcock,amber colour	2132009 / 5 std pack	4 x 5 pack	
3	Test tube with rim	9800U08/ 200	200	
4	Pipette 10 ml	7079p06 / 10	10	
5	Pipette 5ml	7079p05 /10	10	
6	Pipette 2ml	7079p022/ 10	10	
7	Pipette 1ml	7079p011/10	10	
8	Beaker 25 ml	1000009/10	10	
9	Beaker 50 ml	1000D12 10	10	
10	Beaker 100ml	1000D16/10	10	
11	Beaker 150 ml	1000D18/10	10	
12	Beaker 250ml	1000D21/10	10	
13	Beaker 500ml	1000D24/10	10	
14	Beaker 1000ml	1000D29/10	10	
15	Conical flask 250ml	498021/10	10	
16	Conical flask 500ml	4980024/10	20	
17	Conical flask 1000ml	4980029/10	10	
18	Watch glass 120mm dia	9986079/10	50	
19	Watch glass 150mmdia	9986081/10	30	
20	Reagent bottles 250ml	1500021/10	10	
21	Reagent bottles 500ml	1500024/10	20	
22	Reagent bottles 125ml	1500017/10	10	
23	Stirrer glassrod 7 x 205 mm	19850207/10	20	
24	Centrifuge 15 ml capacity	8080007/10	20	
MISC ITEMS				
1	Blotting paper		500	
2	Retort stand for burette TARSON	141020	10	
3	Burette clamp Tarson	121100	12	
4	Pointer eye piece German make		10x -5nos 15x-5nos	
5	Cavity slides two cavities	Blue star	10 pkts	
6	Microslides Thickness 1.10mm	Blue star	50pkts	
7	Cover glasses CIRCULAR 22mmdia	Blue star	30 pkts	
8	Cover glasses square square 22mmx23mm		40 pkts	
9	Scissor straight 8"		10 nos	
10	Scissor straight 6"		10 nos	
11	Aluminium Dissecting tray with wax		30 nos	
12	Fine pointed forcep (large)		10 nos	
13	Fine pointed forcep (small)		10 nos	
14	Bone cutter stainless steel 8" super model medical		20 nos	

HEAD.DESM