



BARASAT COLLEGE

(Affiliated to West Bengal State University)

1, Kalyani Road, P.O. Nabapally

P.S. Barasat, Kolkata-700126

Website: www.barasatcollege.org

E-mail: barasatcollege72@yahoo.com

Phone (033)2542-3656

Fax No. (033)2542-0454

Reference No 242/Tender/Ed.deptt/17-18

Date: 20/11/17

NOTICE INVITING TENDERS

As per G.O. 1231-Edn (CS)/10M-108/17 dated 6/11/2017, Sealed Separate Tenders for each item are hereby invited for the following works separately at Barasat College.

For more details contact the college office between 11.00 A.M. and 5.00 P.M. or visit College website: www.barasatcollege.org

Interested persons are requested to drop their sealed tender within 27-11-2017 to the College Office. Tender will be open on 28-11-2017 at 2.00P.M. in the Principal's Chamber.

Books: Rs 25000/- Per department totally amounting to 19 x 25000 =475000/-; the highest discount-provider will be selected as per tender rule.

Furniture: 30 Modern Wooden Office Chairs and Class Room Chairs with handle, Steel 12 covered almiras and 10 open Book Racks for UG & PG Evening and Day library, wooden 80 pieces 2 seater tables with book/bag rack and bench for Virtual class room and Smart class rooms, 2 secretariat wooden tables and 4 secretariat chairs, 2 full pieces of Sofa Sets.

Specifications of tables and chairs: (1) Joint Benches (High & Low Combined) of 6 fts. X 1 ft. (high benches top) /6 fts. X 10 inches (low benches top) with 8 legs. (all benches' leg size 2 inches x 2 inches, High Benches: Height 2fts. 6inches and Low Benches Height 1ft.6inches; bata 3inches x 1inche, foot rest 2` x 1`) all Sal frame with Sirish or Sal top). Top thickness high & low bench 1`without polish. TOTAL BENCHES 150 PICES.

2) Class room Tables size 3fts. X 2 fts. 6inches (all table leg size 2` X 2`, Height 2fts. 6 inches, bata 3inches x 1inche, foot rest 2` x 1`, Top thickness 1`; all Sal frame with Sirish top. TOTAL TABLE 15PICES.

3) Class Room White Board: 6fts. X 4fts. TOTAL BLACK BOARD 30 PICES.

4) Revolving Office Chair-06 pieces (Steel), 20 pieces visitors chair for Principal room & other. (Steel)

5) 10 x 19 Feet = 190 squire feet (2 ½ X 1 ½ inch) box Aluminum bar with ACP & Glass and Aluminum channel window 2 tracks (3 ½ X 4 inch) – 3 pieces for IQAC cum G.B. Room, 12fts x 10fts. Trophy Show Case made of ply wood and laminated white

mica, and the front of show case covered with glass (6 mm), with Push Pallah with glass shutters for preservation of the trophies and other prizes won by the College, as well as repairing and polish work of front table of Principal's Room and minor interior decoration, all for NAAC related purposes.

Computer Equipments and allied items: 25 desktops branded of Lenovo, Hp or Dell (full set) latest model, 35 keyboards (Frontech), 30 mouse (Frontech), 5 printers cum scanner machines of hp all-in-one, 10 pen drives of hp (16 GB), 5 laptops Dell (for presentation in Seminars), 10 dongles 4g and 3g for internet connection, Biometric system.

Electrical Items with fittings: 150 pieces of LED tube light sets with full fittings, 36 pieces of ceiling fans, 40 pieces of wall mounting fans, 50 pieces of power-saver LED lights of 25 watt, 10 A.C.s (1.5 ton), 5 small sized vacuum cleaners, Exhaust fans for students washrooms- 20 pieces, Electronic grass and bush cutter- 2 pieces, Xerox machine 2 pieces, Chargeable Microphones for Pass Classes-10 pieces, 2 Projectors (LCD 3,200 ansilumens, USB, Resolution XGA, OWF)

Other Miscellaneous necessities: 4 wired Notice Boards for Old and New Buildings and Students Union, Water filter for new building with inbuilt cooling machine: 2 pieces, Designer podium for seminars and presentations- 02 for Virtual Class Room and Smart Class room, Repair of broken furniture, table tennis board, and other non-functional scientific equipments, Fire Extinguisher spray- 06 pieces, Generator- 1 piece (30 KV),

Civil work (repair and maintenance of College Building)

PAINTING OF COLLEGE BUILDING: Painting of the interior and exterior of the College, the doors, windows and grills.

The purchase of the above mentioned items are subject to the receipt of grants from the Department of Higher Education, West Bengal. The names and numbers of the above mentioned equipments are subject to the sanction of the Department of Higher Education, West Bengal

Dr. Parthapratim Dasgupta
Principal
Barasat College

LABORTARTY EQUIPMENTS OF ZOOLOGY DEPARTMENT

ITEM	SL NO	NAME	QUANTITY
EQUIPMENTS	1	SCANNING TUNNELING MICROSCOPE	1
	2	DIGITAL BALANCE (.000GM)	1
	3	COLORIMETER(640-760 NM)	1
	4	TISSUE BLOCK	2
	5	BINOCULAR (DAY NIGHT VISION)	1
	6	CAMERA LUCIDA	2
	7	STAGE AND OCULAR MICROMETER	2 EACH
	8	STEREOZOOM MICROSCOPE	1
	9	DISSECTING MICROSCOPE	1
	10	MICROPIPETTE	1
	11	BURETTE WITH BURETTE STAND	10
REAGENTS	12	ABSOLUTE ALCOHOL(500ML)	10
	13	XYLOL(500ML)	2
	14	DPX(500ML)	2
	15	BSA POWDER	2 BOX
	16	STARCH POWDER(500)	1
	17	CARMIN PODER (5GM)	1
	18	ORCEIN POWDER(5GM)	1
	19	RBC DILUTING FLUID	2
	20	WBC DILUTING FLUID	2
	21	SUCROSE POWDER(500)	1
	22	MANGANOUS SULPHATE(500)	1
	23	SODIUM THIOSULPHATE(500)	1
	24	PICRIC ACID(500)	1
	25	1 NAPHTHOL(100)	1
	26	RESORCINOL	1
	27	POTTASIMUM IODIDE	1
BOOKS	28	PRINCIPLE OF GENETICS-R.H.TAMARIN	1
	29	HARPER BIOCHEMISTRY	1
	30	PARASITOLOGY-BISWAPATI DASGUPTA	1
	31	ENDOCRINOLOGY-TURNER/BUXTER	1
	32	ECOLOGY-BEGON TOWNSEND HARPER	1
	33	INVERTEBRATE ZOOLOGY-MEGLITSCH SCHRAM	1
	34	VERTEBRATE-POUGH ETAL	1
	35	VERTEBRATE-BRUSCA AND BRUSCA	1
	36	ZOOLOGY-HICKMAN ROBERTS LARSON	1
	37	ANIMAL PHYSIOLOGY-ECKERT RANDELL	1
	38	GENETICS-KLUGS AND CUMMINS	1
	39	TOXICOLOGY-E HODGSON	1
	40	TOXICOLOGY-CASSARETTE AND DOUEL	1

Requisition for equipments for Physics Laboratory

SI No	Name of Equipments	Quantity
1	Digital Multi meter	03
2	Wires of one end tap	100
3	Wires of both end tap	100
4	Ammeter range 0—200mA	10
5	Ammeter range 0—200microAmp	2
6	Variable Power Supply(0-10V)	10
7	1K, 100, 500 ohm Pod	20
8	Optical Bench for Fresnels Biprism	1
9	Fresnel Biprism	1
10	A slit and suitable Convex lens	1
11	Micrometer eyepiece	1
12	Helium Light Source	1
13	Mercury Light source	1
14	Plane Diffraction gratting	1
15	Polarimeter	1
16	Cathode ray oscilloscope	1
17	Resistance (ohm)=10, 100, 1K, 10K, 22, 2.2, 220, 2K, 3, 30, 300, 3K, 47, 4.7, 470,	50 pieces each
18	Capacitor---0.1 μ F, 2.2 μ F, 8 μ F	20 pieces each
19	IC—741, 7404, 7408, 7409, 7411, 7432, 7402, 7400, 7486	10 pieces each
20	Signal generator—30 MHz	
21	Tools---Cutter, pliers, screw driver	1 each

CHEMISTRY DEPARTMENT:
Requisition List of equipment and necessary other items:
(Please see Annexure for Chemistry Department)

ANNEXURE FOR DETAILS (CHEMISTRY DEPARTMENT)

Requisition List of equipment and necessary other items:

A. Equipment

Serial No	Equipment (Nos)	Accessories	Chemicals(quantity in gms)	Book (Nos)
1	Digital Conductometer (1)	Additional Conductivity cell (1 No.)	E-Merck KCL-250gms	
2	Digital pH meter (1)	Additional PH glass electrode	Buffer Tablets: pH 7 and pH 4	
3	Digital colorimeter (1)		E Merck KMnO ₄ 250 gms; K ₂ Cr ₂ O ₇ 250 gms	
4.	Digital Potentiometer(1)	Pt-electrode (2Nos) Ag-electrode (2 Nos)	E Merck Agar-Agar 100 gms, NH ₄ NO ₃ 250 gms	
5.	Electronic balance up to 3 decimal (2)			
6	Polarimeter (2)	Additional Source-Sodium lamp (2 Nos)	E Merck Sucrose, dextrose 500 gms	

B. Glasswares (Borosil make) :

Burette (50 ml size, 12pcs); measuring cylinder(size range, 10 – 500 ml, 6pcs each); beaker (size range, 50 – 1000 ml, 12 pcs each); volumetric flask (size range, 25 – 1000 ml, 6 pcs each); pipette (size range, 1 – 25 ml, each 6 pcs); conical flask (size range, 100-500 ml, each 12 pcs); glass jar (size range, 2 – 3 litre, each 5 pcs); nickel crucible (5 pcs); funnel (size range, 50 -75 mm, each 5 pcs); water suction based filtering system (3 Nos); round bottom flask with condenser, 6 pcs of 250 ml; water distillation system, one no.; solvent chamber (dimesions, 25 cm x 5 cm) for TLC, 6 pcs; column for column chromatography (dimensions, 30 cm x 1,5 cm, 6 nos; Iodine chamber, 6 nos; watchglass (size range, 50-70 mm, each 12 pcs)

C. Reagents (E-Merck India Ltd) (250 to 500 gms/ml for each):

Calcium carbonate, silver nitrate, antimony oxide, carbon tetrachloride, ferric chloride, mohr salt, cobalt nitrate, stannous oxide, lead sulphide, ammonium bifluoride, methanol, ethanol, liq ammonia, sulphuric acid, hydrochloric acid, phosphoric acid, glacial acetic acid, amyl alcohol, alumina, phenolphthalein, patton reader indicator, parachloroaniline, phthalic acid, sodium hydroxide, vitamin C tablet, sodium nitrate, KI, O-chlorobenzoic acid, acetic anhydride, salicylamide, benzamide, picric acid, acetanilide, ferrous oxide, ferrous sulphate, mercuric chloride, DMG, EDTA, cadmium sulphate

D. Reference Books

1. Organic Chemistry: Authors (a) Claiden (b) Eliel (c) Louden (d) J. March (e) N. Tewari
2. Physical: Authors. (a) Ladler (b) Castallen (c) H R Mukherjee vol 1, 2 (d) K L Kapoor, vol 1-5
3. Inorganic : (a) Cotton and Wilkinson, (b) J. D. Lee (c) Moeller

Department of Botany

Requisition for Laboratory Equipments-

Sl No.	instruments and equipments	Quantity	
1.	Camera Lucida Prism Type (Weswox)	2	
2.	Ocular Micrometer- ERMA	2	
3.	Stage Micrometer- ERMA	2	
4.	Work out specimens [Star Scientific Agency]:- CRYPTOGAMS- <i>Nostoc</i> (with akinetes and heterocysts), <i>Oedogonium</i> (macrandrous, with antheridia and oogonia), <i>Vaucheria</i> , <i>Chara</i> , <i>Rhizopus</i> (asexual), <i>Penicillium</i> (asexual), <i>Ascobolus</i> ANATOMY- <i>Bignonia</i> (stem), <i>Boerhaavia</i> (stem), <i>Dracaena</i> (stem), <i>Cucurbita</i> (stem), Maize (stem), <i>Tinospora</i> (root), <i>Arum</i> (root), Gram (root), <i>Nerium</i> (leaf), Tuberose (leaf)	2 containers of each specimen	
5.	Permanent Slides (Best quality)- CRYPTOGAMS- <i>Nostoc</i> (with akinetes), <i>Riccia</i> (v.s. of thallus showing archegonium), <i>Riccia</i> (v.s. of thallus showing antheridium), <i>Anthoceros</i> (l.s. of sporophyte), <i>Psilotum</i> (t.s. of synangium), <i>Equisetum</i> (t.s. of strobilus), <i>Ophioglossum</i> (l.s. of spike) GYMNOSPERM- <i>Gnetum</i> (l.s. of male cone), <i>Gnetum</i> (l.s. of ovule) FOSSILS- <i>Rhynia</i> (Stem), <i>Lepidodendron</i> (Stem), <i>Lyginopteris</i> (Stem), <i>Cordaites</i> (Stem)	1 slide per specimen	
6.	Absolute Alcohol-1 lit.	2 containers	
7.	Rectified Spirit- 1 lit.	2 containers	
8.	Safranin stain (250 ml)- Standard quality	1 container	
9.	Light green stain (250ml)- Standard quality	1 container	
10.	Proper lens cleaning and repairing of existing Compound and Simple microscopes.	5 compound microscopes and 5 simple microscopes	

Requisition Computer Science Department

Sl. No.	Name of equipment	Quantity
1.	IC number : 7805, 7483, 74151, 74153, 74155, 74138, 7585, 7486, 7489, 74189, 74194, 7400, 7402, 7404, 7408, 7410, 7411, 7432, 7414, 7420, 7421, 7427, 7442, 7473, 7413, 7474, 7476	15 pcs. of each IC
2.	8085 microprocessor kit , Company – Dynalog	3
3.	Transformer (Input 220V , Output 6V)	5
4.	Transformer (Input 220V , Output +12V, +5V)	5
5.	Source generator	1
5.	Potential meter	6
6.	op-amp bettery with +12V , -12V, +5V and 0.xV ouput	3
7.	Solder iron	2
8.	Soldering wire	2 coil
9.	Solder Flux	3
10.	Seven segment LED display	5
11.	Seven segment LED display driver IC	5
12.	RAM chip	20
13.	Breadboard	5
14.	Digital multimeter	3
15.	Resistance : 1k, 10k, 330ohm, 220ohm, 3.3k	20 pcs each
16.	Jumper wire : male , female	25 pcs each

List of Instruments and logistics required for the Department of Geography, Barasat College

Sl. No.	Item	Quantity
1	GPS (Garmin eTrex 30 topo GPS)	2
2	Satellite images (LISS III)	2
3	Stereo pairs	5
4	Mirror stereoscope	5
5	Rocks and minerals set (5 inch)	3
6	Rock testing kit	3
7	Soil testing kit	1
8	Projector with screen	1
9	Small Refrigerator	1
10	Dumpy levels along with tripods	4
11	Tapes.	4
12	Staffs.	2
13	Pins.	20
14	Prismatic compass with tripod.	4
15	Ranging rod.	8
16	Brunton compass	3
17	Abney level	5
18	Clinometer	5
19	Slide calliper	3
20	Staff chairs for the faculty	6
21	Office table for the faculty.	1
22	Steel book self	1
23	Total station.	1