

UNVIERSITY OF GOUR BANGA
Department of Botany
Requisition of Instruments for quotations- 2012

Sl. No.	Name	Brand	Specification / model no	Quantity
1	Compound microscope	Olympus	GB / HB	25 pieces
2	Trinocular microscope	Olympus	PM-30 / CH-30 / BX-41, fitted with camera of high megapixel, TFT screen, CPU, UPS and soft-wares.	1 set
3	Simple microscope	Olympus / Focus	Stage with clips, mirrors etc.	30 pieces
4	Digital balance	AFCOSET	ER-200A; ER-182A	3 pieces of core type balances and 1 piece for fine type balance
5		SARTORIUS	GW 6202; CPA225D; ED124S; BS-2202S	
5		SHIMADZU	BL220H, ATX84, AUW120	
6	Pan balance	Winser	100 mg- 5kg with weighing box	2
7	Refrigerator	Godrej	Double door, 250 L, with stabilizer	3
8	Deep-freezer	Blue star	Vertical (-40C), 350L, with stabilizer	1
		REMI	RQFV-265 (D), Vertical (-40C), 265L & RQFV-450, VERTICAL (-20c), 450l with 5kva stabilizer	1
9	Ultra low freezer	Remi	UDFV-185, vertical, (-80C), with stabilizer	1
10	Laminar air flow	Klenzaid	KlenzFlow-Laminar Air Flow Work Stations, (1.5'x2'), with 5KVA stabilizer	3
11	Distillation plant	Borosil	3362-4.0 L, Quartz heater, double distilled, 4L/hr	1 set
		Borosil	3361-4.0 L, Quartz heater, single distilled, 4L/hr	3 set
12	Distilling Apparatus	Borosil	Product Code: 3340024	2 set
13	pH meter	Systronics / Eutech	With single electrode probe, digital	5
14	Refrigerated centrifuge (vertical)	Remi	C24BL, with compatible rotors heads: R-247; R-244 and R-248, with 5KVA stabilizer, with rotor change apparatus	1
15	Table top centrifuge	Remi	1) RM-12C / RM-12C DX, With rotor heads: RM-1216 and RM-1215 2) R-8C / R-8C DX with rotor heads: R-81 and R-82, with 5KVA stabilizer, with rotor change	1+1

			apparatus	
16	Autoclave	Any brand	Steam, Presser cocker type (18"dx30"h)	3
17	Autoclave	Any brand	Vertical, steam / dry, 200L capacity	1
18	UV-Vis Spectrophotometer	Shimadzu	Model: UV-1800 & UV-2700, with computer accessories and soft-wares and printer, and 1.5 ml quvets (4 nos)	1
19	Visible Spectrophotometer	Systronics / any brand	With double lamp, digital, with good sensitivity	1
20	Digital Colorimeter	Elico / any brand	With double lamp, digital, with good sensitivity	2
21	Micropipettes	Tarson / Microlit	0.1-20ul; 20-200ul; 200-1000ul; & 1000-5000ul	3 each
22	Fixa-pipette	Tarson / Microlit	100ul; 500ul; 1000ul	3 each
23	Hot plate	Any brand	(1.5'x1.5')	2
24	Digital Water bath	Indo / Any brand	With $\pm 1^{\circ}\text{C}$ sensitivity, ambient to 98°C , 20L capacity	2
25	Microtome	Any brand	With good precision	1
26	Environmental Test Chambers / Seed Germinators	Remi	SGM-10S	1
27	Cooling Incubators	REMI	CI-12S, CIM-12S, 340L, microprocessor based	2
28	Cyclomixer	Remi	CM-101, with adaptor (CM-01/01) and adaptor (CM-01/02)	3
29	Stirrer	Remi	1) Magnetic stirrer: 2ML with stirring paddle (PTFE Coated) Q-19A; 2) Rotamantles: 2RML with stirring paddle Q-19A; 3) Electromagnetic Stirrer: 1 EMS with stirring paddle Q-19	1 each
30	Orbital Shaking Incubators	Remi	CIS-24 BL, with voltage stabilizer VS-02	2
31	Hot air oven	Indo Scientific	Large capacity	2
32	BOD-Incubator	Remi / Indo Scientific / Any brand	350L	2
33	Computer and Notepad	HP / IBM	Computer: With TFT screen (18"), CPU with INTEL-PENTIUM latest microprocessor, 500 GB	4

		HP / DELL / ACER	memory, double layer DVD writer, USB ports, key board (TVS GOLD), mouse (hp/IBM); UPS (APC, Double battery) Notepad: with INTEL-PENTIUM latest microprocessor, 500 GB memory, USB ports, accessory key board (TVS GOLD), and mouse (HP / Microtech)	2
34	LCD projector	SONY / EPSON / HITACHI / CANON	SONY: <u>VPL-EX100, VPL-EX120</u> Epson EB-1910, Epson EB-1915, Epson EB-Z8050W HITACHI: <u>CP-SX1350, CP-X3010</u> Canon LV-5110,	2
35	Over head projector	Kinderman/galaxy	Double lamp, good light adjustment and focussing	2
36	Printer – Laser	Hp	Black and white, economic printing	1
37	Scanner	Hp	High performance	1
38	Xerox machine	Canon	Compatible with computer	1
39	Air condition	Godrej / Samsung	2.0 ton, 5 star,	5
40	Microwave	Godrej / Samsung / LG / Whirlpool	With power adjustment, large capacity (in height)	1
41	Sonicator	Sartorius	Labsonic M, with Probe diameter 1 mm, approx. 80 mm long	1 set
42	Concentrator	SAVANT	SPEED VAC CONCENTRATOR: Complete system, with temperature control both sub-zero and above, SC110A/SC210A, rotor heads: RH200-12, RH8-17.5, RF8-100, RFA-8, RH8-200, PSF 100R, PSFA-200, with 5KVA stabilizer	1 set
		EPPENDORF	Eppendorf Concentrator plus: Complete system, Rotor head: Rotor F-45-48-11, Rotor F-45-8-17, Swing-bucket rotor A-2-VC, F-45-72-8,	
		LABCONCO	Model: 3710035; 12-13 mm rotor for 40 slots for 1.5 / 2 ml tubes and 108 slots for 3 / 5/ 6/ 10 ml tubes + Labconco vacuum pump.	
43	PCR Mini thermal cyclers	Bio-Rad	MJ Mini 48-well gradient thermal cyclers	1 pc
		Applied Biosystems	GeneAmp® PCR System 9700, 0.5 mL Sample Block Module (Part No. 4309131);	
		Chromous	48-well gradient thermal cyclers	

44	Vertical mini Gel apparatus	Biorad / Applied Bio systems	Mini-PROTEAN Tetra Electrophoresis System, With the Mini-PROTEAN 3 multi-casting chamber, Mini-PROTEAN 3 Casting Stand, with 2 replacement gaskets, 5 short plates, and 5 gel releasers, Mini-PROTEAN Comb, 15-well, 0.75 mm, Spacer Plates With 1.0 mm Integrated Spacers, 5; Spacer Plates With 1.5 mm Integrated Spacers, 5 With gel caster and power pack: PowerPac Universal power supply	1 set
45	Horizontal gel apparatus	Genei	With gel caster and power pack, gel tray UV-transparent	1 set
46	UV-Trans-illuminator	CHROMOUS/ GENEI	With UV protector	1 set
47	Gel Documenter	Biorad / Applied Biosystems	With UV & visible lamps, good sensitivity and high resolution camera with soft-wares, computer and accessories	1 set
48	HPLC	SHIMADZU	Prominence UFLC	1
49	Dissolved Oxygen Measurement Primer	LAZAR,	Cat. No. DO-166MT-1SXS; DO-166-6SXS	1 set
50	Oxidation-Reduction Potential System	ArrowDow	ArrowDow Micro Redox Measurement System: Complete Redox ORP Measurement Systems: ORP-146CXS	1 set
51	Micro pH Measurement Primer	LAZAR	Lazar Ultra-M micro pH electrode: PHR-146S; Complete micro pH measurement systems: PHR-146XS - Ultra-M micro pH system.	1 set
52	Digital camera	Canon / NIKON	Higher than 18x optical zoom, > 12 megapixel, 2700 mAh battery (8 nos) with battery charger and 8GB memory card	1 set
53	Conductivity meter	LAZAR	Cat. No.: COND-158BL-XS Complete conductivity measurement system for PC	1 set
54	Fluorescence Spectrophotometer	Shimadzu	Fluorescence spectrophotometer: Model: RF-5301, with computer accessories and soft-wares and printer	1
55	FTIR Spectrophotometer		FTIR: IRPrestige-21, with computer accessories and soft-wares and printer	1

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