

Department of Biological Sciences, Presidency University - Central Instrumentation Research Facility - List of equipment required

Sr No	Brief description of Instrument	Quantity	Source	Total Cost Rs Lakh	Justification
1	Voltage stabilizer/UPS	1 system	Sen and Pandit	5.00	For back-up of highly sensitive instruments
2	Plant Growth Chamber	1	Conviron (USA)	10.00	For plant research and carrying out practical classes
3	Bio-Safety Cabinet	3	New Brunswick (USA)	13.50	For Animal cell culture, For carrying out practical classes
4	Laminar Flow Hood	2	Klenzaid (USA)	5.00	For Bacterial Culture, For carrying out practical classes
5	CO ₂ Incubator CO ₂ Incubator CO ₂ Incubator	3	Thermo-Scientific (Germany)	11.40	For Animal cell culture, For carrying out practical classes
6	CO ₂ Cylinder CO ₂ Cylinder CO ₂ Cylinder	4	Indo-Scientific	0.20	For Animal cell culture, For carrying out practical classes
7	Inverted Microscope with digital Imaging	2	Nikon (Japan)	18.00	For cell culture, For carrying out practical classes
8	Vacuum Pumps	4	Merck-Millipore Biosciences (Germany)	0.96	For filtration, tissue culture, For carrying out practical classes
9	Liquid N ₂ Can (Cryo Cans)Liquid N ₂ Can	2	Thermo Scientific (Germany)	2.00	For storage of cells/ samples
10	-20°C Freezer-20°C Freezer-20°C Freezer	4	Vest frost	2.60	For storage of cells/ samples/ chemicals
11	-80°C Deep Freezer-80°C Deep Freezer-80°C	1	New Brunswick (USA)	4.70	For storage of cells/ samples/ chemicals
12	4°C Refrigerator/ Cold Cabinet4°C	4	Haier (USA)	3.90	For storage of cells/ samples/ chemicals
13	Quartz Distillation Plant	1	Borosil	2.90	double distilled pure water required for making buffers etc
14	Autoclave (Big & small)	1+1	Nuve (Turkey)	4.90	For sterilization
15	Weighing Balance	1 fine + 1 coarse	Kern (UK)	1.25	Basic requirement for carrying out practical classes and research
16	pH Meter	1	Eutech (Singapore)	0.30	Basic requirement for carrying out practical classes and
17	Ice-Machine	1	Manitowoc USA	2.50	Basic requirement for research
18	Micro-Centrifuge (Table Top), refrigerated	2	Eppendorf (Germany)	5.30	Basic requirement for carrying out practical classes and
19	Micro-Centrifuge (Table Top), Non-	2	Eppendorf (Germany)	1.55	Basic requirement for carrying out practical classes and
20	Micro-Centrifuge (Table Top), refrigerated with variable rotor-heads	1	Eppendorf (Germany)	5.53	Basic requirement for carrying out practical classes and research
21	High Speed microcentrifuge	2	Eppendorf (Germany)	6.05	Basic requirement for carrying out practical classes and
22	Speed Vac	1	Eppendorf (Germany)	4.33	Basic requirement for carrying out practical classes and
23	BOD-incubator/Shaker	2	OVFU	1.60	Basic requirement for carrying out practical classes and
24	Water Baths	4	Genaxy	3.20	Basic requirement for carrying out practical classes and
25	Protein Gel Apparatus with Transfer system	2 + 2	BIO-RAD (Hercules, CA, USA)	2.70	Basic requirement for carrying out practical classes and
26	DNA gel Apparatus (Big/Small)	2 + 2	BIO-RAD (Hercules, CA, USA)	1.75	Basic requirement for carrying out practical classes and
27	Power-pack	4	BIO-RAD (Hercules, CA, USA)	2.40	Basic requirement for carrying out practical classes and
28	UV-Vis Trans-illuminator	1+1	Merck Biosciences (Germany)	0.95	Basic requirement for carrying out practical classes and
29	Gel-documentation system/ with Chemiluminescence Facility	1	Applied Biosystems USA	17.40	Basic requirement for carrying out practical classes and research
30	Rockers/Orbital Shaker/ cyclomixer	2 + 2 + 2	Merck Biosciences (Germany)	1.40	Basic requirement for carrying out practical classes and
31	Vortexer	4	Merck Biosciences (Germany)	0.43	Basic requirement for carrying out practical classes and
32	Magnetic Stirrer with Heating option	4	Merck Biosciences (Germany)	0.80	Basic requirement for carrying out practical classes and
33	Pipettes/Pipette-Aid	1set + 2	Eppendorf (Germany)	1.10	Basic requirement for carrying out practical classes and
34	UV-Vis Spectrophotometer	1	Shimatzu (Singapore)	4.09	Basic requirement for carrying out practical classes and
35	Synergy Plate reader	1	BioTek (VT, USA)	6.06	Basic requirement for carrying out practical classes and
36	Gradient PCR (veriti)	1	Applied Biosystems USA	5.50	For carrying out practical classes and Genomics research
37	Real Time PCR(Step one-plus)	1	Applied Biosystems USA	18.00	For carrying out practical classes and Genomics research
38	Fluorescence Microscope	1	Carl Zeiss (Germany)	20.00	Basic requirement for carrying out practical classes and
39	Ultra-centrifuge	1	Beckman Coulter, USA	30.20	Basic requirement for carrying out practical classes and
40	FPLC (with PC, Printer and UPS)	1	BIO-RAD (Hercules, CA, USA)	8.50	Basic requirement for carrying out practical classes and
41	2D-Gel Electrophoresis System	1	BIO-RAD (Hercules, CA, USA)	7.20	Basic requirement for carrying out practical classes and
42	Flow cytometer	1	Becton-Dickson India Pvt. Ltd.	40.00	Basic requirement for carrying out practical classes and
43	Confocal Microscope	1	Nikon, Japan	165.00	For cutting edge research and training
44	Odyssey Scanner	1	Li-COR Biosciences USA	34.80	For high throughput cutting edge research and training
45	Walk-in Plant growth Chamber	1	Atlanta Drugs & Chemicals	10.00	For high throughput cutting edge research and training
	GRAND TOTAL			494.95	