

BIOLOGY LABORATORY BY LBD



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On GEM for ATL Package

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We firmly believe that good relations with the customers is the sole reason behind the success of the product and we put in best of our efforts to maintain this relation. According to the market requirements and customers' demand, we are providing a wide range of materials Services

LBD provides products that are tested for their quality, durability while ensuring optimum pricing which helps us to provide the best solutions for everyone.

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Thank You

LETTER TO THE PRINCIPAL

Dear Principal,

I am writing to you on behalf of the company I represent, LBD to inquire about the possibility of establishing a biology laboratory on your school campus. We are a well-established technology company that has been providing innovative solutions to our clients for over 10 years.

We specialize in the development of solutions related to life sciences, and we believe that our expertise could be a valuable asset to your school. We are confident that our services could greatly contribute to the educational experience of the students at your school by providing a unique hands-on approach to the life sciences. Furthermore, we are committed to ensuring that the lab is completely safe and secure for the students.

We have a team of highly qualified professionals who specialize in the safety protocols of lab environments. This ensures that your students are safe and that the lab is in compliance with all safety regulations. We understand that this type of project can be a significant investment for your school, so we are willing to discuss the costs of the project and any other questions you may have.

We look forward to hearing from you and to the possibility of working together to provide your students with a valuable learning experience. Sincerely,



Director
MR. KUMAR MAYANK

Moto of Biology Laboratory

In the study of Biology, practicals are given special consideration as they are necessary to stimulate creativity, curiosity and critical thinking among students. Moreover, practicals help increase students' engagement, thus boosting their interest in the subject. School labs are an excellent place for students which help them enhance their learning by understanding the theoretical concepts of science taught in classrooms. Well-designed laboratories make science experiments fun and help students achieve good academic results. They help to close the gap in the achievement of learning outcomes so that classroom transactions will shift towards competency-based learning and education. Hence, a well-equipped Science Laboratory is required in every school to:

- Make learning Holistic, Integrated, Enjoyable, and Engaging
- Develop conceptual understanding giving a strong emphasis on Experiential learning in all stages of science education to move toward Competency-focussed education.
- Provide opportunities to students for hands-on learning to observe, experiment and innovate.
- Full fill curricular expectations in a holistic manner
- Create and facilitate a culture of research from the school level itself
- Promote collaborative learning.

Expectations from Biology Laboratory

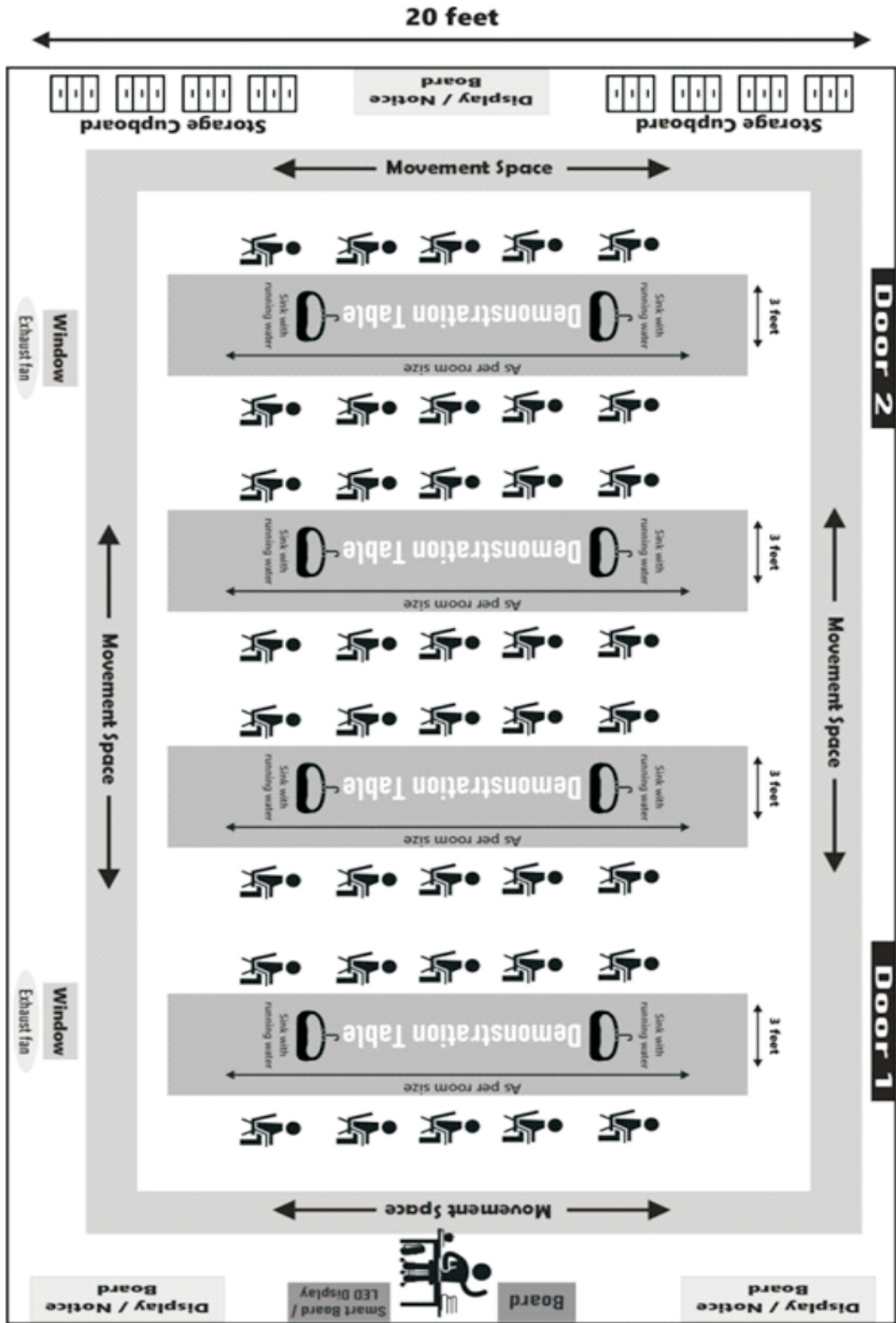
At the Senior Secondary stage, learners who have opted for biology as one of the disciplines for study are expected to:

- Identify and develop an understanding of concepts, principles, theories, and laws governing the physical world around a biological entity.
- Develop the ability to acquire and use the methods and processes of science, such as observing, questioning, planning investigations, hypothesizing, and collecting, analysing and interpreting data, communicating explanations with evidence, justifying explanations, and thinking critically to consider and evaluate alternative explanations in the biological perspectives.
- Build upon the perceptive of essential tools and techniques used in concepts to analyse various issues in biology.
- Conduct experiments also involving quantitative measurements in biology.
- Appreciate how biology concepts evolve with time, giving importance to its historical perspective.
- Develop a scientific temper concerning biological phenomena (objectivity, critical thinking, creative skills, freedom from fear and prejudice) and Nurture natural curiosity, aesthetic sense, and creativity in biological processes and phenomena.
- Imbibe the values of honesty, integrity, cooperation, concern for life and preservation of the environment.
- Develop respect for human dignity and rights, equity and equality.
- Connect biological concepts to real-life problems and develop innovative problemsolving abilities to solve problems related to life situations through an understanding of biological concepts.
- Widen skills to illustrate linkages of elementary aspects of biology with complex phenomena.
- Integrate and interrelate biological concepts with other areas of knowledge by underlying common principles.

Pedagogy of Science education as recommended by National Education Policy 2020:

- Chapter 4 of NEP 2020 'Curriculum and Pedagogy in Schools: Learning Should be Holistic, Integrated, Enjoyable, and Engaging' has laid a wide emphasis on Experiential learning in all stages of science education in Para 4.6.
- Chapter 7 of NEP 2020 in Para 7.5 has mentioned the importance of well-equipped science laboratories for strong science education.

Model Layout of Biology Laboratory



Model of Biology Lab
30 feet

Infrastructure needed for Biology Laboratory:

S.No.	Category / Materials needed	Requirements
1	Physical Infrastructure	<ul style="list-style-type: none"> • Minimum Lab. Room size 600 Sq.ft.
2	Storage	<ul style="list-style-type: none"> • A separate room or cupboards within lab for consumables and non- consumables items in the lock and key mechanism, thus ensuring a safety, dust and vermin-free environment.
3	Teaching facility	<ul style="list-style-type: none"> • Preferably an intelligent board with an internet Facility or white / green board.
4	Demonstration Table	<ul style="list-style-type: none"> • The demonstration table should also have a sink along with a water tap. In the laboratory, seats are made available to the students, so students sit at the allotted place and note the instructions from the teacher. • 40 seating facilities (lab stools)
5	Display / Notice Board	<ul style="list-style-type: none"> • Do's & Don'ts/ rules for the laboratory use/ safety procedures • List of practical activities • Timetable- (laboratory timetable) • Emergency Contact numbers
6	Gas/ heating	<ul style="list-style-type: none"> • Preferably gas pipeline. (2 heating burners)
7	Sink with Water supply	<ul style="list-style-type: none"> • 8 sinks with water supply
8	Waste management	<ul style="list-style-type: none"> • 02 bins to be installed for biodegradable and non - biodegradable waste. • Flammable chemicals bottles must be packed separately. Empty chemical bottles can be packed in cartons/sacks. Disposal must be sent to the Material Management Division of the school.
9	Fire extinguisher	<ul style="list-style-type: none"> • To be installed at a prominent place within the laboratory or in the corridor outside the laboratory.
10	Exhaust fans	<ul style="list-style-type: none"> • 2 in number
11	Medical First Aid Kit	<ul style="list-style-type: none"> • 2 in number

Recommended equipment / items for a Biology laboratory

a) List of Non-Consumable Items (for a batch of 40 students):

S.No.	Non-Consumable	Requirements	S.No.	Non-Consumable	Requirements
1	Beaker 100ml / 250ml /500ml	Twenty	25	Watch glass	
2	Chart stand	one	26	Water bath	
3	Conical flask	Twenty	27	Wash bottle	
4	Digital balance	Twenty	28	White cavity tiles	
5	Dropping bottle	Twenty	29	Pipette stand	
6	Forceps	Forty	30	All Pins	
7	Funnel	Forty	31	Burette (50ml)	
8	Glass showcase	one	32	Burette 50 ml	
9	Heater	one	33	Perforated beaker	
10	Hot plate	one	34	Capillary tube	
11	Human skeleton (Artificial)	one	35	Test tube holders	
12	Leaf clamp apparatus	one	36	Tripod Stand	
13	Measuring cylinder 50ml/ 100ml/250ml	Twenty	37	Thermometer	
14	Micro viewers	Eight	38	Trough	
15	Microscope compound	Eight	39	Wire gauge	
16	Microscope dissecting	Eight	40	Burette Stand	
17	Morter and pestle	Eight	41	Blade for section cutting	
18	Petri dish	Forty	42	Chart display stand	
19	Pipette (graduated 10ml)	Forty	43	Enamel Tray	
20	Reagent bottle	Eight	44	Laboratory Coat	
21	Skeleton (joints)	one set	45	Scissors 4"	
22	Slide box	two	46	Scissors 6"	
23	Test tube holders	Forty	47	Scalpel	
24	Test tube stand	Forty	48	Staining Rack	

List of Non-Consumable Items (for a batch of 40 students)

S.No.	Non-Consumable	Requirements
49	Charts	<ul style="list-style-type: none"> • Controlled pollination, and Pedigree charts • Roundworm, Earthworm, and Tapeworm • Pigeon, Rat, Scoliosis, Starfish, Frog, and lizard camel, and Cockroach • Mendels inheritance , and the life cycle of the mosquito • Racemose Inflorescence, Cymose Inflorescence, • Modifications of Roots and stem • Posters / portraits of Scientists
50	Models	<ul style="list-style-type: none"> • Claws and beaks, forelimbs modifications, Brain, Ear, and Eye • Human Torso model, and Human Skeleton Model • Root nodules of leguminous plants • Cuscuta on host, lichens, homologous and analogous organs.
51	Slide permanent	<ul style="list-style-type: none"> • Asexual reproduction, Plant tissues, Animal tissues • Stages of mitosis, Meiosis, T.S. of the testis, T.S. of ovaries • Pollen tube germination, T.S. Blastula •Disease-causing agents, Bread mould, Amoeba, Hydra
52	Specimens	<ul style="list-style-type: none"> • Only plant specimens which are in the syllabus are: • Aquatic plants, xerophytic plants, monocot plants, • Dicot plants, moss, liverworts, fern • Stem root and leaf modifications, • Plant diseases., mushroom
53	Pictures / posters / Charts	<ul style="list-style-type: none"> • Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm • Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom • Yeast, liverwort, moss, fern, pine, one monocotyledonous plant • One dicotyledonous plant and one lichen, Amoeba, • Hydra, liver fluke, Ascaris, leech, earthworm, prawn • Silkworm, honey Bbee, snail, starfish, shark • Rohu, frog, lizard, pigeon and rabbit.







b)List of Consumable Items (for a batch of 40 students at any given time)

S.No.	Category / Materials needed	Requirements	S.No.	Category / Materials needed	Requirements
1	Acetic acid	250ml	39	Hydrochloric acid	100 ml
2	Acetone	250 ml	40	Detergent	20 gms
3	Alcohol	500 ml	41	Iodine	100 ml
4	Aluminum Sulphate	20 g	42	Methylene blue	10 ml
5	Benedicts solution	100 ml	43	Micro cover slip	Eight
6	Muslin cloth	20 metres (50 cm per tudent)	44	Micro glass slides	Eight
7	Brushes	Forty	45	Million's reagent	100 ml
8	Matchbox	One box	46	Needle	Forty
9	Ammonium solution	250 ml	47	Nitric acid	50 ml
10	Acetocarmine powder	5 ml	48	Petroleum ether	100 ml
11	Cavity block	Forty	49	Potassium nitrate	20 g
12	Cavity slide	10	50	Safranin solution	50 ml
13	Cellotape / paper tape	one	51	Bile salts	Five gms
14	Chromatography paper	Two sheets	52	Soap	one
15	Cobalt chloride	50 g	53	Starch	50 g
16	Cork	10	54	Starch iodide paper	one packet
17	Cotton Roll	one roll	55	Sucrose	100 g
18	Dettol	100 ml	56	Test tube - Boiling	Twenty
19	Dropper	20	57	Test tube - Ordinary	Eight
20	Dusters	5	58	Test tube Graduated	Forty
21	Filter paper	Five boxes of 24 pieces each	59	Toothpicks	Five jars
22	Formaldehyde	500 ml	60	Aluminum foil	Four foils
23	Glycerine	500 ml	61	Barium Chloride	Five gms
24	Grease	100 g	62	Dicot stem	Ten
25	Boric acid	Five gms	63	Urea	Ten gms
26	Monocot stem	Ten	64	Milk	10 ml
27	Ethanol	50 ml	65	Seeds/Pulses	50 gm
28	Fehling solution A	20 ml	66	Rice	50 gm
29	Fehling solution B	20 ml	67	Spinach Leaves	50 gm
30	Glucose	20 gms	68	Potato	50 gm
31	Lens cleaning solution	one	69	Sugar	50 gm
32	Lens cleaning paper	one	70	Egg	one
33	Magnesium Sulphate	Ten gms	71	Onion root tips	50 gms
34	Onion root tips	Five root tips	72	Peas	500 gms
35	Plain stickers	Eight	73	Pineapple	50 ml
36	Robert solution	10 ml	74	Banana	one
37	Sodium Chloride	Ten gms	75	Apple	one
38	Sodium Hypobromide	10 ml	78	pH paper	one packet each of a narrow range and a broad range















List of Equipment

Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
1		Anti A.B.D. (Blood Group Test Kit)	BI01	Anti A.B.D. (Blood Group Test Kit)	1000/-
2		Bone Cutter (Stainless Steel)	BI02	Bone Cutter (Stainless Steel) 6"	700/-
3		Camera Lucida"	BI03/1	Prism Type in Velvet Box	1360/-
			BI03/1	Mirror Type in Velvet Box	1900/-
4		Cavity Plate/ Spot Plate(Porcelain)	BI04/1	6 Cavity	88/-
			BI04/2	12 Cavity	120/-
5		Cavity Plate/Spot Plate(Porcelain)	BI05/1	Single Cavity Slide	120/-
			BI05/2	Double Cavity Slide	160/-
6		Chart Storage Stand (Metallic) 24 Charts	BI06	Chart Storage Stand (Metallic) 24 Charts	8800/-
7		Coverslip, (Pk. of 10Gm)	BI07/1	18mm, Square	32/-
			BI07/2	18mm, Round	40/-
			BI07/3	22MM, Square	40/-
			BI07/4	Cover Slip for Haemocytometer 20x25mm (Pk of 10)	80/-
8		Dissecting Tray without Wax, Size 10"x12"	BI08/1	G.I Sheet	1200/-
			BI08/2	Stainless Steel	240/-
9		Dissecting Tray without Wax, Size 10"x12"	BI09/1	G.I.Sheet	1000/-
			BI09/2	Stainless Steel	600/-
10		Dissecting Board (Wooden)	BI10/1	8"x6"	500/-
			BI10/2	12"x18"	1000/-
11		Dissection Box (17 Instruments)	BI11/1	Popular Make, Ordinary Quality	460/-
			BI11/1	Rohit Make, Superior Quality	1000/-
			BI11/1	Surgeon Make, Deluxe Quality	2400/-
12		Double Demonstration Eye Piece	BI12	Double Demonstration Eye Piece	2800/-
13		Dissecting Needle	BI13/1	Plastic Handle	10/-
			BI13/2	Stainless Steel	48/-
14		Enamel Bowl	BI14/1	12cm	200/-
			BI14/2	14cm	300/-
			BI14/3	16cm	400/-
			BI14/4	20cm	700/-

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Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
15		Enamel Tray	BI15/1	6"x8"	540/-
			BI15/2	8"x10"	700/-
			BI15/3	10"x12"	800/-
			BI15/4	12"x18"	1300/-
			BI15/5	18"x24"	2400/-
			BI15/6	9"x11"	740/-
			BI15/8	12"x15"	1100/-
			BI15/9	15"x18"	1600/-
16		Enamel Bowl	BI16/1	12cm	BI16/1
			BI16/2	14cm	BI16/2
			BI16/3	16cm	BI16/3
			BI16/4	20cm	BI16/4
17		Enamel Mug	BI17/1	250ml	200/-
			BI17/2	500ml	300/-
			BI17/3	1Ltr	400/-
18		Farmer Potometer	BI18	Farmer Potometer"	800/-
19		First Aid Box	BI19	First Aid Box	1200/-
20		Fine Pointed Brush "(Camel Type) No .0	BI20	Fine Pointed Brush "(Camel Type) No .0	20/-
21		Forceps (Stainless Steel)		Blunt / Pointed (Any One)	
			BI21/1	5"	48/-
			BI21/2	6"	78/-
			BI21/3	8"	96/-
			BI21/4	10"	132/-
BI21/5	12"	176/-			
22		Forceps Pointed "Superior Quality	BI22	Forceps Pointed "Superior Quality	24/-
23		Ganong's Light Screen	BI23	Ganong's Light Screen	220/-
24		Ganong's Potometer (Borosilicate Glass)	BI24	Ganong's Potometer (Borosilicate Glass)	500/-
25		Ganong's Respirometer B.G. (With Stand)	BI25	Ganong's Respirometer B.G. (With Stand)	1200/-

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Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
26		Heliotropic Chamber (Wooden) 3 Glass	BI26	Heliotropic Chamber (Wooden) 3 Glass	3000/-
27		Human Skeleton, Full Size (Fibre)	BI27/1	Routine Quality	2800/-
			BI27/2	Superior Quality	4800/-
			BI27/3	Imported with Stand (Medical Grade)	48000/-
			BI27/4	Skeleton with in Built Torso (Removable Parts) with Stand	16000/-
			BI27/5	Skeleton Showing Nerves, Size 85 cm (imported)	17600/-
28		Human Skelton Stand (Metallic)	BI28	Human Skelton Stand (Metallic)	2800/-
29		Human Skelton in Acrylic Showcase	BI29/1	Human Skelton in Acrylic Showcase	900/-
			BI29/2	Human Skelton (Min), on Stand	400/-
			BI29/3	Human Skeleton with Stand Medium Size Approx 27"	1500/-
30		Klinostat	BI30	Klinostat	4400/-
31		Kuhne's Fermentation Vessel	BI31	Kuhne's Fermentation Vessel	240/-
32		Lens Cleaning Tissue (Paper Book of 100)	BI32	Lens Cleaning Tissue (Paper Book of 100)	96/-
33		Parchment Paper (Book of 100 Lvs)	BI33	Fine Pointed Brush "(Camel Type) No .0	120/-
34		Plain Slide, Size 75x25mm Glass, Thickness 1.35 (Pk of 50)	BI34/1	Plain Slide, Size 75x25mm Glass, Thickness 1.35 (Pk of 50)	100/-
			BI34/2	Plain Slide (Frosted) Pk of 50	180/-
35		Pointer Eyepiece, 10x	BI35	Pointer Eyepiece, 10x	480/-
36		Photosynthesis Apparatus (Mohl's Apparatus)	BIN36	Photosynthesis Apparatus (Mohl's Apparatus)	600/-
37		Razor	BI37	Razor	120/-
38		Respiroscope (Borosilicate Glass)	BI38	Respiroscope (Borosilicate Glass)	600/-
39		Root Pressure Apparatus (Borosilicate Glass)	BI39	Root Pressure Apparatus (Borosilicate Glass)	600/-

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Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
40		Microtome	BI40/1	Erma Type	54000/-
			BI40/2	Spencer Type	74000/-
			BI40/3	Hand & Table Microtome	6000/-
			BI40/4	Rocking Microtome (Cambridge Type)	24000/-
41		Compound Microscope (Student)		Two eyepiece 10x, 15x & two objected 10x, 45, with fixed condenser	
			BI41/1	Labtop make, Superior Optics (In Wooden Box)	6600/-
			BI41/2	Labtop Make, Routine Optics (In Thermocole Box)	5000/-
			BI41/3	Micron make (KG-2) "ISI Marked" (In Wooden Box)	10400/-
			BI41/4	Micron make (KG-2) "ISI Markde" (Thermocole Box)	9200/-
42		Single Nose Microscope (Sup.) 10xObj & 10x eye piece	BI42	Single Nose Microscope (Sup.) 10xObj & 10x eye piece	2600/-
			BI43	Junior Medical Microscope, Micron (KG-3) With Moveable condenser fitted with 2 eyepiece 10x, 45x & 2 objective 10x, 45x in Thermocole box	11200/-
44		Medical Microscope (In Thermocole Box)		2 eyepiece 10x, 15 x & 3 objectives 10x, 45x & 100x oil immersion & fitted With mechanical stage	
			BI44/1	Medical Microscope 'Labtop Make'	12000/-
			BI44/2	Medical Microscope 'Micron' ISI Mark (Model KG-5A)	19200/-
45		Microscope Binocular Led Light		2 paired eyepiece, with 4 objective 4x, 10x, 45x, 100x oil imm. & fitted with mechanical Stage	
			BI45/1	Labtop Make (Routine Quality)	20000/-
			BI45/2	Micron Make, 'ISI Mark' (Model BINO CXL), Co-Axial	46000/-
			BI45/3	Micron Make, 'ISI Mark' (Model BINO Mini)	36000/-
46		Stereo Microscope	BI46/1	(Simple) One Objective 2x, One Pair Eyepiece 10xW.F	11200/-
			BI46/2	(Deluxe) Built In Illumination & 2 Objective & Eyepieces	44000/-
47		Stereo Zoom Microscope (7x30x) Continuous	BI47	Stereo Zoom Microscope (7x30x) Continuous	78000/-
48		Trinocular Microscope	BI48	Micron Make, ISI Mark (Model Trino - CXL)	54000/-
49		Ocular Micrometer (Imported) Superior Erma	BI49	Ocular Micrometer (Imported) Superior Erma	600/-
50		Microscope Eyepiece (10x or 15x) Any One	BI50/1	Microscope Eyepiece 5x	500/-
			BI50/2	Wide Field Eyepiece (10x)	700/-
51		Mechanical Stage For Microscope (Brass)	BI51/1	Mechanical Stage For Microscope (Brass)	2400/-
			BI51/2	Microscope Light, Led (Pin Type)	800/-


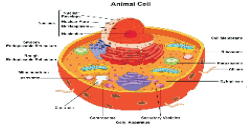

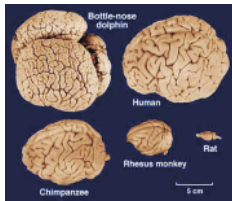

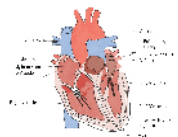
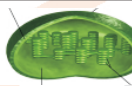

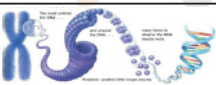

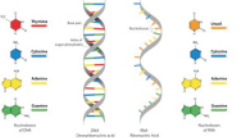
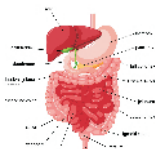
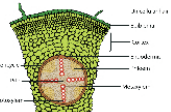
List of Equipment

Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
52		CAMERA EYEPIECE FOR MICROSCOPE (Connects via USB)	BI52/1	1.3 Mega Pixel	36000/-
			BI52/2	3 Mega Pixel	48000/-
			BI52/3	5 Mega Pixel	56000/-
53		MICROSCOPE OBJECTIVE	BI53/1	10x	800/-
			BI53/2	45x	1100/-
			BI53/3	100x	1700/-
54		REFLECTOR (Mirror) With ARC	BI54/1	REFLECTOR (Mirror) With ARC	160/-
			BI54/2	Stage Clip (Set of 2)	100/-
55		CONDENSER SUB STAGE WITH DIAPHRAM (Superior)	BI55	CONDENSER SUB STAGE WITH DIAPHRAM (Superior)	500/-
56		DISSECTING MICROSCOPE	BI56/1	Bakelite Parts, Routine Quality (In Thermocole Box)	1400/-
			BI56/2	Brass Parts, Superior Quality (In Thermocole Box)	2200/-
			BI56/3	Brass Parts, Superior Quality (In Wooden Box)	2800/-
			BI56/4	Dissecting Microscope with Bulls's Lens	5200/-
57		OSMATIC PRESSURE APP. (B.G)	BI57	OSMATIC PRESSURE APP.(B.G)	500/-
58		PASTURE PIPETTE GLASS (Per Dozen)	BI58	PASTURE PIPETTE GLASS (Per Dozen)	380/-
59			BI59	PHOTOTROPIC CHAMBER Wooden (BLACK BOX)	1400/-
60		PROJECTION MICROSCOPE	BI60	PROJECTION MICROSCOPE With 6" Dome in wooden box, (Superior Quality)	24000/-
61		SENIOR PROJECTION MICROSCOPE	BI61	SENIOR PROJECTION MICROSCOPE Square Dome with Provision of Wall Projection, Screen Dia 6"	30000/-
62		SCALPEL (Stainless Steel)	BI62	SCALPEL (Stainless Steel)	72/-
63		SCISSOR (Stainless Steel)	BI63/2	4" Pointed	140/-
			BI63/4	5" Blunt	220/-
			BI63/5	6" Blunt	280/-
64		SECHI DISC	BI64	SECHI DISC	1500/-
65		SIMPLE POTOMETER	BI65	SIMPLE POTOMETER	280/-


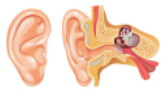


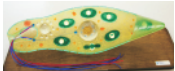
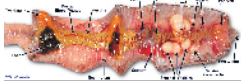
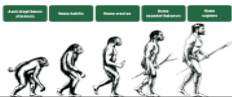



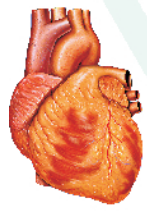
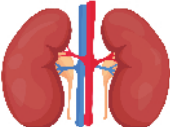

List of Equipment

Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
66		STAGE MICROMETER (Superior) Erma Japan	BI66	STAGE MICROMETER (Superior) Erma Japan	1500/-
67		T/A APPARATUS, (Transpiration & Absorption App.) B.G.	BI67	T/A APPARATUS, (Transpiration & Absorption App.) B.G.	800/-
68		VISKING TUBE, Per Meter	BI68	VISKING TUBE, Per Meter	1200/-
69		WILLMOTH BUBBLER	BI69	WILLMOTH BUBBLER	500/-
70		WATCH GLASS (Export Quality)	BI70/1	Dia 2" (A) 110.00	220/-
			BI70/2	Dia 2.5" (B) 130.00	260/-
			BI70/3	Dia 3" (C) 180.00	360/-
			BI70/4	Dia 4" (D) 280.00	560/-
			BI70/5	Dia 5" (E) 480.00	960/-
			BI70/6	Dia 6" (F) 600.00	1200/-
71		CUVETTE (PAIR) 3.5ML, Pathlength 10mm	BI71/1	Quartz UV Grade	2500/-
			BI71/2	Optical Glass	900/-
72		ARC AUXANOMETER (Small)	BI172	ARC AUXANOMETER (Small)	800/-
73		LOVIBOND TYPE COMPARATOR	BI73	LOVIBOND TYPE COMPARATOR	30000/-
74		PH COMPARATOR DISC (Universal)	BI74	PH COMPARATOR DISC (Universal)	16000/-
75		DISARTICULATED SKELETON (Fibre Glass)	BI75/1	Indian	3000/-
			BI75/2	Imported	30000/-
76		HUMAN JOINTS (MODEL) Any One Joint		Name of Joints:- Shoulder, Hip, Knee, Elbow, Foot & Hand Joint	
			BI76/1	Indian (Superior)	1600/-
			BI76/2	Imported	3500/-
77		Chloroscope	BI77	Chloroscope	2400/-
78		CLASS WORK MATERIAL (Common Zoology & Botany)	BI78	Example Dicot / Monocot Root, Stem & Leaf. Preserved Suitably & Sufficient For Class Of 30 Students	120/-
79		QUADRANT WOODEN FRAME 20"x 20"	BI79	QUADRANT WOODEN FRAME 20"x 20"	2000/-





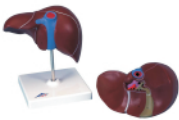

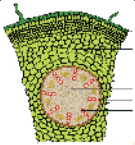


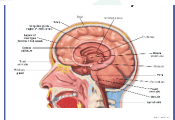
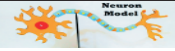




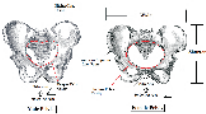
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Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
80		AMOEBA ON BOARD 10"x15"	BI80	AMOEBA ON BOARD 10"x15"	800/-
81		ANIMAL CELL / PLANT CELL (ANY ONE)	BI81/1	Basic Model on Board 10"x15"	800/-
			BI81/2	Model on Stand (Imported)	1600/-
82		HUMAN BODY on Board 10"x15"	BI82	HUMAN BODY on Board 10"x15"	1400/-
83		HUMAN BRAIN	BI83/1	2 Parts Dissectible (Basic Model)	520/-
			BI83/2	4 Parts Dissectible (On Base)	1200/-
			BI83/3	8 Parts Dissectible (On Base) Imported	4800/-
			BI83/4	Brain With Arteries on Head (Imported)	11600/-
			BI83/5	Brain Inside SKULL (Imported)	12800/-
			BI83/6	Brain Multi-Coloured Showing Lobes	10000/-
84		TYPES OF BACTERIA on Board	BI84	TYPES OF BACTERIA on Board	1800/-
85		HUMAN CIRCULATORY SYSTEM	BI85/1	Basic Model on Board 10"x24"	900/-
			BI85/2	Superior Model on Board 30"x12"	2400/-
			BI85/3	Imported Model on Board 30"x12"	10400/-
86		CHLOROPLAST MODEL	BI86	Chloroplast Model	1000/-
87		COCKROACH DISSECTED MODEL	BI87	Cockroach Dissected Model	1000/-
88		CHROMOSOME MODEL on Board	BI88/1	Chromosome Model On Board	1000/-
89		CHAMELEON MODEL	BI89	Chameleon Model	2400/-
90		DNA / RNA MODEL, (Any One)	BI90/1	Basic Model on Board 10"x15"	800/-
			BI90/2	Model on Board 16"x24"	2000/-
			BI90/3	DNA/RNA on Stand (Any One)	1400/-
91		HUMAN DIGESTIVE SYSTEM	BI91/1	Basic Model on Board 10"x12"	900/-
			BI91/2	Superior Model on Board 30"x12"	2400/-
			BI90/3	Imported Model on Board 30"x12"	10400/-
92		Dicot Stem / Root / Leaf (Any One) on Board	BI92	Dicot Stem / Root / Leaf (Any One) on Board	1000/-

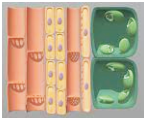
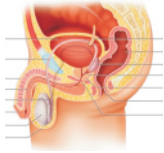

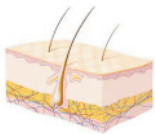

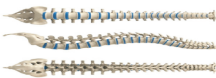





List of Equipment

Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
93		ENDOCRINE SYSTEM Model on Board	BI93	ENDOCRINE SYSTEM Model on Board	1000/-
94		HUMAN EAR	BI94/1	Basic Model On Base	700/-
			BI94/2	Big Ear (Superior Quality)	3200/-
			BI94/3	Jumbo Ear (Imported)	5600/-
95		HUMAN EYE	BI95/1	Basic Eye Model on Stand	560/-
			BI95/2	Giant Human Eye Model	2200/-
			BI95/3	Eye With Orbit (Imported)	9600/-
96		HUMAN EXCRETORY SYSTEM	BI96/1	Basic on Board 10"x15"	900/-
			BI96/2	Model on Stand (Superior) Dissectible	2800/-
97		EUGLENA MODEL	BI97	Euglena Model	800/-
98		EARTHWORM DISSECTED MODEL	BI98	Earthworm Dissected Model	1000/-
99		EVOLUTION OF MAN (SET OF 4)	BI99	Evolution Of Man (set Of 4)	4800/-
100		FLOWER MODEL	BI100/1	Model on Board 10"x15"	800/-
			BI100/2	Model on Stand (Superior)	2600/-
101		FROG MODEL (Full Size)	BI101/1	Frog Model (Full Size)	1600/-
			BI101/2	Frog Anatomy Model/Dissection Model	1000/-
			BI101/3	Life History of Frog Model	4400/-
102		FISH ANATOMY MODEL	BI102	Fish Anatomy Model	1000/-
103		HUMAN HEART	BI103/1	Basic Heart on Stand (2parts Dissectible)	520/-
			BI103/2	Jumbo Human Heart on BASE (4 parts Dissectible)	2400/-
			BI103/3	Jumbo Heart Model (Imported)	6000/-
			BI103/4	Pumping Heart Model (Imported) Working	5200/-
104		HUMAN KIDNEY	BI104/1	Basic on Board 10"x15"	800/-
			BI104/2	Basic on Stand (2 Parts Dissectible)	700/-
			BI104/3	Kidney on Stand (Big) Superior	1600/-
			BI104/4	Jumbo Half Section Kidney on Stand (Imported)	12000/-
105		HALF HEAD MODEL (Imported)	BI105	Half Head Model (imported)	11600/-

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Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
106		ENDOCRINE SYSTEM Model on Board	BI106	ENDOCRINE SYSTEM Model on Board	1000/-
107		HYDRA MODEL	BI107	Hydra Model	800/-
108		HUMAN LUNGS (BASIC MODEL)	BI108/1	Human Lungs (Basic Model)	800/-
			BI108/2	Lungs Working Model Kit (Diy)	1400/-
109		HUMAN LARYNX MODEL	BI109	Human Larynx Model	1000/-
110		LIVER MODEL	BI110/1	Basic Model	800/-
			BI110/2	Imported Model	10000/-
			BI110/3	Liver, Pancreas And Duodenum Model (Imported)	6400/-
111		MITOSIS / MEIOSIS, On Board (Any One)	BI111/1	10"x15"	1000/-
			BI111/2	16"x24"	2000/-
112		MONOCOT STEM / ROOT / LEAF (Any One)	BI112	Monocot Stem / Root / Leaf (any One)	1000/-
113		MITOCHONDRIA MODEL	BI113	Mitochondria Model	1000/-
114		MUSCULAR SYSTEM ON BOARD (Basic)	BI114	Muscular System On Board (basic)	1200/-
115		HUMAN NERVOUS SYSTEM	BI115/1	Basic Model on Board 10"x12"	900/-
			BI115/2	Superior Model on Board 30"x12"	2400/-
			BI115/3	Imported Model on Board 30"x12"	10400/-
			BI115/4	Sympathetic Nervous System (Imported)	74000/-
116		NEURON MODEL	BI116	Neuron Model	1200/-
117		HUMAN NOSE MODEL	BI117	Human Nose Model	800/-
118		PARAMECIUM MODEL	BI118	Paramecium Model	800/-
119		PITCHER PLANT (NEPENTHES) MODEL	BI119	Pitcher Plant (nepenthes) Model	2000/-
220		PIGEON MODEL	BI120	Pigeon Model	1600/-
121		ADULT MALE/ FEMALE PELVIS (Any One)	BI121/1	Indian	2000/-
			BI121/2	Imported	4800/-

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Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
122		PHLOEM MODEL	BI122	PHLOEM MODEL	1000/-
123		HUMAN REPRODUCTIVE SYSTEM MALE/ FEMALE (Any One)	BI123/1	Basic Model on Board 10"x24"	900/-
			BI123/2	Superior Model on Board 22"x12"	2400/-
			BI123/3	Imported Model on Board	10400/-
			BI123/4	Lungs with Heart & Larynx (Imported)	14800/-
124		HUMAN REPRODUCTIVE SYSTEM MALE/FEMALE (Any One)	BI124/1	Basic Model on Board 10"x15" (Regular)	800/-
			BI124/2	Model on Board Big Size (Imported) Superior	12800/-
125		HUMAN SKIN	BI125/1	Basic Model on Board 10"x15" (Regular)	800/-
			BI125/2	Skin Model (Imported) Vertical	5000/-
126		HUMAN STOMACH MODEL	BI126/1	Human Stomach Model	800/-
127		HUMAN SPINAL CORD	BI127/1	Human Spinal Cord	800/-
128		HUMAN SKULL MODEL (LIFE SIZE)	BI128/1	Indian Model	1600/-
			BI128/2	Imported Model	6000/-
			BI128/3	Multicolored (Imported)	9200/-
			BI128/4	Fetal Skull (Imported)	4400/-
129		SPIROGYRA	BI129	Spirogyra	1000/-
130		HUMAN TEETH	BI130/1	Basic Model on Board 10"x15" (Regular)	800/-
			BI130/2	Teeth Set of 4 on Stand	1600/-
			BI130/3	Teeth (Imported)	3800/-
			BI130/4	Teeth with Tongue	2000/-
131		DENTAL CARE MODEL (With Tooth Brush)	BI131		2200/-
132		HUMAN TORSO	BI132/1	Full Size (Superior)	6000/-
			BI132/2	Full Size Torso (Magnetic) Superior	26000/-
			BI132/3	Imported Torso (50cm High, 11 Dessectible Parts)	24000/-
			BI132/4	Unisex Torso (Indian) 23 Parts (85cm)	24000/-
			BI132/5	Unisex Torso (Imported) 23 Parts (85cm)	46000/-
			BI132/6	Human Torso Small Size	2400/-

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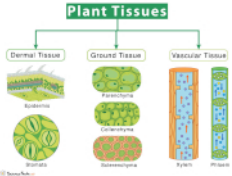
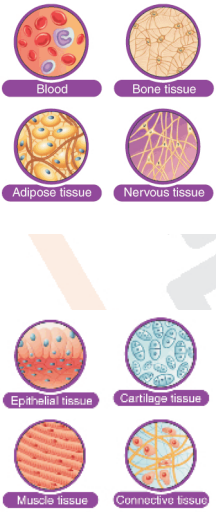

Equipment for Biology

S. No.	Product Image		Product Code	Specification	Price
133		NURSING/ MEDICAL COLLEGE MODELS	BI133/1	Embryo Model	102000/-
			BI133/2	Ovary Model	36000/-
			BI133/3	Human Placenta	102000/-
			BI133/4	Human Fertilization and Early Embryogeny	120000/-
			BI133/5	Fetus with Viscera and Placenta (13Parts)	54000/-
			BI133/6	Fertilization Process Simulator	38000/-
			BI133/7	The Development Process of Fetus	110000/-
			BI133/8	Advanced Delivery Mechanism Demonstration Simulator	230000/-
			BI133/9	Vacuum Delivery Model	99000/-
			BI133/10	Leopold Maneuvers Simulator	102000/-
			BI133/11	Gynecological Examination Model	201200/-
			BI133/12	Episiotomy Training Simulator	68000/-
			BI133/13	Vulva Suturing Training Simulator	32000/-
			BI133/14	Labour Delivery Simulator	106000/-
			BI133/15	Newborn Baby Model	7400/-
			BI133/16	New Style New Born Baby Model	940/-
			BI133/17	Advanced Trauma Simulator	416000/-
			BI133/18	Surgical Suturing And Bandaging Simulator	232000/-
			BI133/19	PICC Line (Peripherally Inserted Central Catheter)	264000/-
			BI133/21	Advanced Neonatal Peripheral and Central Vein Intubation Simulator	200000/-
			BI133/22	Multifunctional intravenous Injection Arm Model	138000/-
			BI133/23	Full-Functional Vein Injection Arm	180000/-
			BI133/24	Multi Functional I.V. Training Arm	92000/-
			BI133/25	Child IV Training Arm	74000/-
			BI133/26	Prostate Inspection Model	260000/-
			BI133/27	Peritoneal Dialysis Simulator	265000/-
			BI133/28	Advanced Surgical Suture Arm	64000/-
			BI133/29	Advanced Surgical Suture Leg	92000/-
			BI133/30	Airway Intubation Model	154000/-
			BI133/31	Male Catheterization Training Simulator	90000/-
			BI133/32	Female Catheterization Training Simulator	90000/-
			BI133/33	Adult intramuscular Injection Training Manikin	219000/-
			BI133/34	Lymphatic System	73000/-
			BI133/35	Breast Examination Model	84000/-
			134		MANIKINS
BI134/2	Advanced Multi-Functional Child Nursing Manikin(Unisex)	254000/-			
BI134/3	Full-functional Elderly Nursing Manikin (Female)	339000/-			
BI134/4	Basic Combination Nursing Manikin	200000/-			

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Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
135		MANIKINS	BI135/1	Advanced Nursing & Wound Care Manikin (Male)	270000/-
			BI135/2	Multi-Functionl Nursing Mankikin	81000/-
			BI135/3	AD Trainer	54000/-
			BI135/4	CPR Trainer Manikin (Torso)	45000/-
			BI135/5	Adult CPR TRaining Full Boday Manikins	220000/-
			BI135/6	Half Body CPR Training Manikins with Indicators	108000/-
136		COMMUNITY HYGIENE	BI136/1	Sanitary Well	15000/-
			BI136/2	Insanitary Well	15000/-
			BI136/3	Deep and Shallow Well	15000/-
			BI136/4	Deep Tube Well	18000/-
			BI136/5	Step Well	16400/-
			BI136/6	Berkefield Filter	15000/-
			BI136/7	Slow Sand Filter	19400/-
			BI136/8	Rapid Sand Filter	16400/-
137		ENVIRONMENTAL SANITATION	BI137/1	House Drainage System	19400/-
			BI137/2	Chamber Type Incinerator	19400/-
			BI137/3	Activated Sludge Process	19400/-
			BI137/4	Bore Hole Latrine	15000/-
			BI137/5	Dug Well Latrine (Pit Latrine)	15000/-
			BI137/6	Trench Latrine	16400/-
			BI137/7	Septic Tank Latrine	18000/-
138		Vertebral with Pelvis & Femur Heads	BI138	Vertebral with Pelvis & Femur Heads	18000/-
139		Embryo Development Model (Set of 9)	BI139	Embryo Development Model (Set of 9)	8000/-
140		Sling Psychrometer	BI140	Sling Psychrometer	2000/-
141		SLIDE CABINET (Wooden)	BI141/1	1000 Slides	10000/-
			BI141/2	2000 Slides	20000/-
			BI141/3	5000 Slides	52000/-
			BI141/4	10000 Slides	104000/-
			BI141/5	20000 Slides	208000/-

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Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
142		VETERINARY MODEL	BI142/1	Cow Skeleton	26000/-
			BI142/2	Cow Skeleton	26000/-
			BI142/3	Dog Skeleton	26000/-
			BI142/4	Fowl Skeleton	26000/-
			BI142/5	Dog Blood Circulation	26000/-
			BI142/6	Cow Digestive System	26000/-
			BI142/7	Cow Uterus	26000/-
			BI142/8	Dog Respiratory	26000/-
			BI142/9	Dog Heart	26000/-
143		Plant Tissue	BI143	Parenchyma, Collenchyma, Sclerenchyma, Xylem, Phloem, Dicot & Monocot Stem/Root/Leaf, Fern, Agaricus, Onion Root Tip, Plant Cell, Onion Peel, Chlamydomonas, Chlorella, Diatom, Spirogyra, Volvox, Nostoc, Yeast, Lichen, Oscillateria, Rhizopus, Riccia, Marchantia, Stomata, Pinus Cone Male & Female, Yeast, Chlorella	44/-
144		Animal Tissue	BI144/1	Animal Cell, Squamous Epithelium, Cuboidal Epithelium, Columnar Epithelium, Nerve Cell Muscle: Cardiac, Striated, Unstrained, Smooth Muscle. Mammal: Kidney/ Heart/ Ovary/Testis/ Skin/ Bone/ rtery/ Vein/ Liver/ Spinal Cord/ Spleen/ Stomach/ Pancrease/ Blood/ Hyaline Cartilage/ Elastic Cartilage Ascaris Male & Female, Bacteria, Paramecium, Non-Medullated & Medullated Nerve, Areolar Tissue ,Adipose Tissue, Mosquito	44/-
			BI144/2	Slide Amoeba, Ringworm , Blastula, Entamoeba	140/-
			BI144/3	Slide Hydra, Yeast Budding, Human Blood R.B.C./W.B.C.	60/-
			BI144/4	Slide Mitosis, Set of 5 slides	400/-
			BI144/5	Slide Meiosis, Set of 12 slides	960/-
			BI144/6	Binary Fission Amoeba	400/-
			BI144/7	Slide (Set of 100) Human Histology Indian	20000/-
145		Slide Box (Wooden) ke"	BI145/1	25 Slides	240/-
			BI145/2	50 Slides	400/-
			BI145/3	100 Slides	520/-

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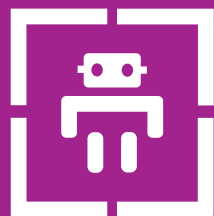
Equipment for Biology					
S. No.	Product Image		Product Code	Specification	Price
146		Botany Specimens (Common)	BI146	Spirogyra, Sargassum, Funaria, Marchantia, Riccia, Agaricus, Red Rot of Sugarcane, Late Blight of Potato, White Rust of Crucifere, Citrus Canker, Fern (adiantum), Sunflower, Maize Plant, Wheat Plant, Opuntia, Cuscuta, Zizyphus, Acacia Arabica, Hydrilla, Eichhornia, Vallisneria, Lemna, Napiform Root, Fusiform Root, Conical Root, Fibrous Root, Lichen, Pinus Male Cone, Cycas Male Cone, Pinus Female Cone.	280/-
147		Zoology Specimens (Special)	BI147	Euspongia, Sycon, Star Fish, Sea Urchin, Slug, Sepia, Octopus, Loligo, Labeorohita, Catfish, Crab, Prawn, Centipede, Millipede, Electric Ray, Sting Ray, Ascaris Male, Ascaris Female, Leech, Physalia, Jelly Fish, Eel Fish, Leucosolenia, Tapeworm	560/-
148		Botany Specimens (Special)	BI148	Euphorbia, Ceratophyllum, Loose Smut Of Wheat, Fern (Dryopteris), Drosera (Sundew), Selaginella, Equisetum (Horse Tail), Marsilea (Water Fern), Nelumbo (Lotus), Vanda (Epiphytic Roots), Agave (Bulbil), Aloe Vera, Bryophyllum (Reproductive Leaf), Stem Tendrill (Passiflora), Leaf Tendrill (Pea), Typha (Cat Tail), Cycas Female Cone, Utricularia (Bladderwort), Calotropis, Pistia (Offset).	560/-
149		Zoology Specimens (Rare -1)	BI149	Zoology Specimens (Rare -1) Brittle Star, Herdmania, Aplysia, Sea Cucumber, Flying Fish.	1400/-
150		Zoology Specimens (Rare -2)	BI150	Zoology Specimens (Rare -2) Balanoglossus, Euplectella, Hyalonema	3600/-
151		Botany Specimens (Rare)	BI151	Botany Specimens (Rare) Venus Fly Trap, Algae Collection, Fungi Collection, Bryophyte Collection, Racemose Inflorescence (Set of 6), Cymose Inflorescence (Set of 6).	2400/-
152		Botany Specimens (Seed Germination in Jar)	BI152	Botany Specimens (Seed Germination in Jar) Germination of Gram Seed / Pea Seed / Bean Seed / Maize Seed / Wheat Seed / Castor Seed . (Any One)	900/-
153		Specimen Embedded in Acrylic Slab	BI153	Specimen Embedded in Acrylic Slab	800/-
154		Life History Of Specimen in Plastic Jar	BI154	Life History Of Specimen in Plastic Jar L.H Butterfly, House Fly, Honey Bee, Mosquito, Cockroach	600/-
NOTE: - All BIOLOGICAL Products will be strictly supplied subject to availability and wildlife restrictions.					

BIOLOGY LABORATORY FURNITURE



BIOLOGY LABORATORY





LBD

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LBD Robotics Pvt. Ltd.

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Uttar Pradesh - 201305

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