

PRICE LIST



Electronics

Physics

Chemistry

Biology

Mathematics



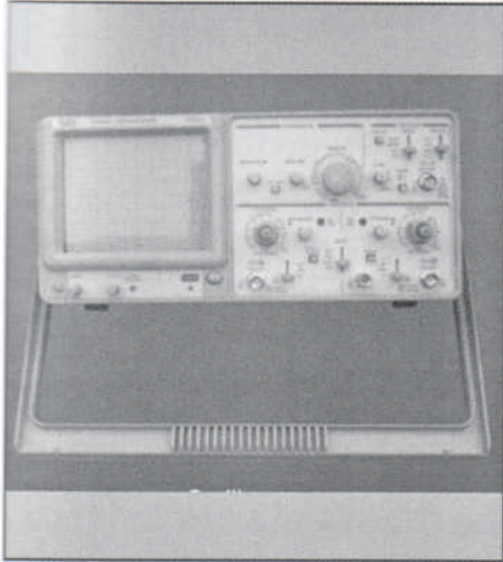
SHUBHAM INSTRUMENTS

Complete Lab Furnishes

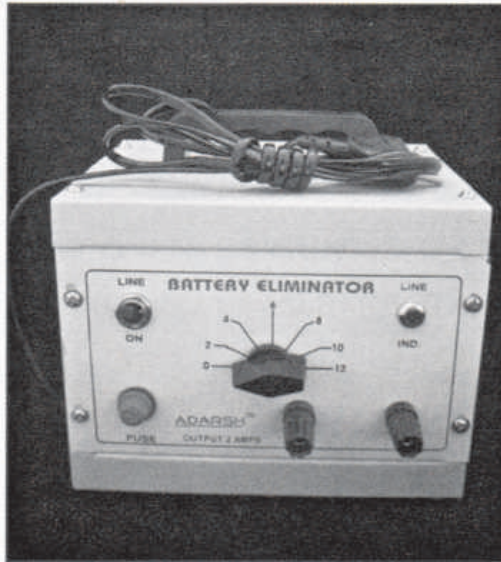
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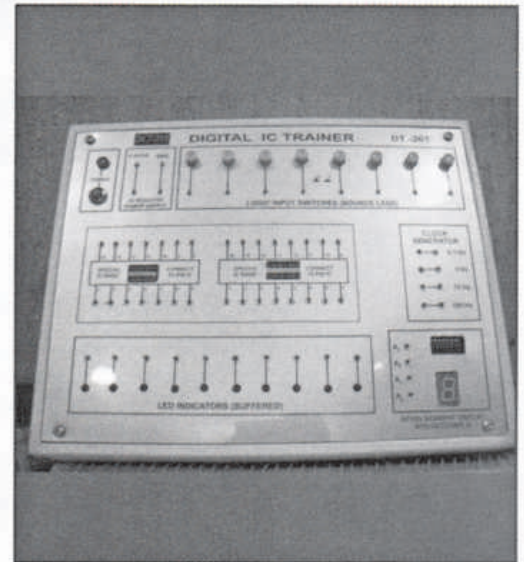
ELECTRONICS



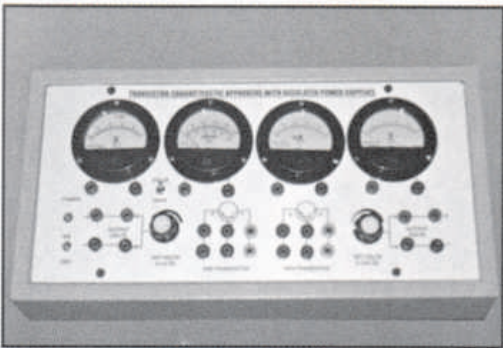
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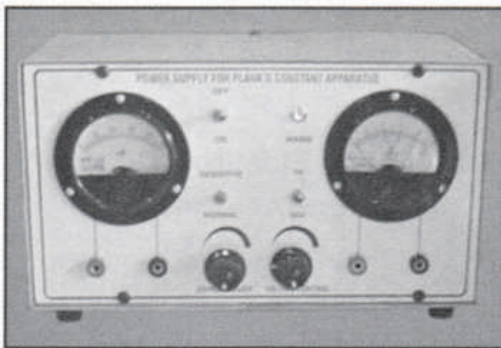
Battery Eliminator



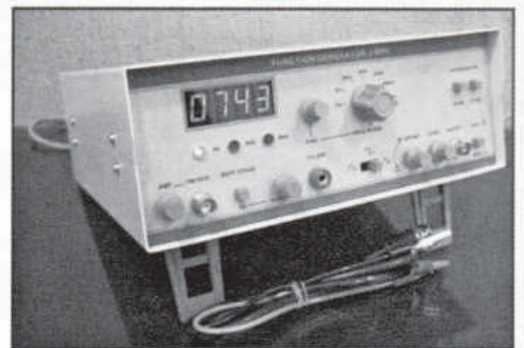
Digital IC Trainer



Transistor Characteristic Apparatus



Power Supply



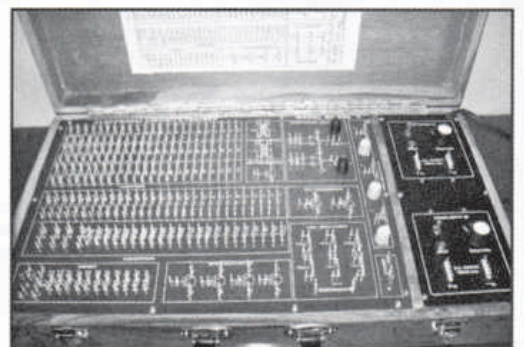
Function Generator



AC/DC Power Supply



Decade Resistance Box



Electronic Circuit Trainer

ELECTRONICS

SI001	DC Regulated Power Supply continuously variable with two analog meters. a) 15 Volt, 1 Amp b) 30 Volt, 1 Amp	5460-00 each 5980-00 each
SI002	Diode Valve Characteristic App. with built in stabilized power supply and two meters, workable on 230 volts AC, fitted with diode valve on front pannel. Different electrodes of valve and HT, LT output are brought out on terminals. Output HT: 0-250 volts AC at 25MA Continuously variable. LT: 6.3 volts AC at 2 Amps with built in rheostat for filament current control.	4160-00 each
SI003	Triode Valve Characteristic App. with built in stabilized power supply, workable on 230 volts AC, fitted with triods valve on from panel. different electrodes of valve, HT bias, LT output are brought out on seperate terminals, with three meters. Output HT : 0-30 Volts DC at 30 ma continuously variable. Bias : 0-15 volts DC at 5ma (reversible) continuously variable LT : 3 volts AC at 3 Amp.	5070-00 each
SI004	Semi Conductor Diode Characteristic App. (PN Junction Diode App.) with built in dual power supply workable on 230 volts with four meters, fitted with semi conductor diode OOA79 on front panel, different electrodes of semi conductor diode, power supply, output and meter connections are brought out on panel with separate terminals. Output Bias: 0-15 volts DC continuously variable (for forward bias) Input Bias: 0-30 volts DC continuously variable (for reverse bias)	3380-00 each
SI005	PN Junction Diode Characteristic App. same as above but with 2 meters.	2210-00 each
SI006	Zener Diode Characteristic App. with built in stabilized power supply and 2 meters workable on 230 volts AC, fitted with zener diode 8.2 volts on front panel. Connections of zener diode, power supply, output and meters are brought out on the panel. Output 0-10 volts DC, continuously variable.	2050-00 each
SI007	Transistor Characteristic App. with four meters with built in dual stabilized power supply, workable on 230 volts, AC, fitted with PNP transistor AC 128 on front panel. Different electrodes of transistor, power supply output and meter connection are brought out on panel with separate terminals. With four meters.	3380-00 each
SI008	Half Wave / Full Wave & Bridge Rectifier Apparatus with 2 meters. Objective: To study Efficiency & Ripple factor in case of half wave, full wave & bridge rectifier on application of load & filters. Features: Instrument comprises of AC power supply, 2 meters to measure Output Voltage & Output current, 4 pn junction diodes, filter circuit kit, load resistance selectable using band switch.	4030-00 each
SI009	Field Effect Transistor (FET) Characteristics App. with built in stabilized power supply, workable on 220 volts AC, fitted with FET FW 10 on front panel, different electrodes of transistor, power supply, out put and meter connections are brought out on the panel, with three meters.	4420-00 each
SI010	Uni Junction Transistor (UJT) Characteristic App. with built in dual stabilized power supply workable on 220 volts C, fitted with UJT 2N 2646 on from panel, different electrodes of UJT, power supply, output and meter connections are brought out on the panel, with four meters.	5070-00 each

SS111	Series and parallel Resonant Circuit provided with two AC metres, one inductance, three resistance and three capacitors with separator terminals.	2860-00 each
SI011	Plank's Constant App. with built in power supply workable on 220 volts AC and photo electric cell mounted with separate terminals, provided with a light source, two meters and wooden optical bench.	13910-00 each
SI012	Charging and Discharging of condenser through Resistance to study RC time constant, with built in stabilized power supply, workable on 220 volts AC. Three different resistances and capacitors are mounted with separate terminals for different graphs, provided with DC miliammeter on stand.	2000-00 each
SI013	E/M by Thomspson method (Bar Magnet Method) with built in power supply to operate cathode ray tube, one voltmeter shows deflection voltage, C.R.T. is mounted on teak wood stand with graph. Another wooden stand is provided to hold bar magnets and deflection magnetometer.	14300-00 each
SI014	E/M by long solenoid / helical method kit comprises of high noltage power supply unit with intensity, focus X and Y, deflection & solenoid current controls, two meters are provided in power supply for acceleration voltage control & or solenoid current control, one solenoid unit comprises of one solenoid mounted on wooden stand & 3" CRT is kept in the solenoid pipe.	20800-00 each
SI015	Hartley Oscillator instrument comprises of 30 V DC regulated power supply, printed circuit diagram & components mounted on front panel.	2080-00 each
SI016	Colpitt Oscillator instrument comprises of 12V DC regulated power supply, printed circuit diagram & components mounted on front panel.	2080-00 each
SI017	Phase Shift Oscillator instrument comprises of 12V DC regulated power supply, printed circuit diagram & components mounted on front panel.	2340-00 each
SI018	Wein Bridge Oscillator using Operational Amplifier IC 741: instrument comprises of 12V DC regulated power supply, printed circuit diagram & components mounted on front panel.	2340-00 each
SI019	Function Generator Solid State range 1Hz to 100 KHz in five bands. Sine, Square and Triangular wave with output voltage variable upto 20 volts peak to peak at 50 ohms impendence, accuracy $\pm 2\%$.	6500-00 each
SI020	FET Volt Ohm Meter Solid State (VTVM) triple range, fitted with deluxe meter with transparent cover, input impendence 11 megohms. A) as AC voltmeter : 7 ranges, 0-1.5, 5, 15, 50, 150, 500 and 1500 volts FSD accuracy $\pm 5\%$ B) as DC voltmeter : 7 ranges, 0-1.5, 5, 15, 50, 150, 500 and 1500 volts FSD accuracy%. C) as Ohm Meter : 7 ranges 0-1000, 10000, 100000 ohms and 1, 10, 100 and 1000 megohms FSD accuracy $\pm 3\%$.	7150-00 each
SI021	Thermister Characteristic App. with built in stabilized power supply, workable on 230 Volts AC. A thermister is fitted with built in oven with a thermometer on stand. A heat control switch, one miliammeter and separate terminals for thermister are provided.	4030-00 each
SI022	Apparatus to study AND, OR, NOT NAND, NOR Gates (Logic Gates) complete with built-in stabilized power supply.	1690-00 each
SI023	Common Base Transistor Amplifier (Frequency Response) instrument comprises of DC regulated power supply, printed circuit diagram and components mounted on the front panel.	1950-00 each

SS125	Two stage RC Coupled Transistor Amplifier (Frequency Response) instrument comprises of DC regulated power supply, printed circuit diagram and components mounted on the front panel.	2860-00 each
SI024	Operational Amplifier as Inverting & Non Inverting Amplifier instrument comprises of DC regulated power supplies of 0-1.5 Volt DC 150 mA & +15 Volt DC, printed circuit diagram & different resistances connected externally for various observations.	2730-00 each
SI025	Study of Operational Amplifier as Adder, Subtractor, Integrated and Differentiator instrument comprises of 2 DC regulated power supplies of 0-5 Volt DC and +15 Volt DC, 2 dual range round meters to measure input and output voltages & combination of resistances, capacitors mounted on front panel.	3965-00 each
SI026	Energy Band Gap of PN Junction Diode Objective: to plot reverse saturation current Vs temperature Vs temperature in reverse biased PN junction diode. Feature: Instrument comprises of DC regulated power supply 0-20 Volt. DC / 150mA, two round meters for voltage & current measurement, one PN junction diode (Ge Type) kept in oven with temperature control knob, connection of supplies, meters & diode brought out at 4mm sockets are fitted on front panel.	3120-00 each
SI027	Solar Cell Characteristics Apparatus : Objective: to draw V & I characteristics of solar cell. Features: Instrument comprises of moving coil meters fitted on panel with power supply, lamp house with power supply, solar cell mounted, supplied without optical bench.	3510-00 each
SI028	Verification of KCL and KVL Features: Instrument comprises of DC regulated power supply 0-3 VDC/250mA, two round meters for voltage & current measurement, combination of resistances mounted on front panel.	3640-00 each
SI029	BH Curve Apparatus : Objective: to trace hysteresis curves on CRO using resistance, capacitance & inductance. Features: instrument comprises of AC power supply 3-15V AC, output selectable using band switch, printed circuit diagram, components connected behind the front panel, provision for connecting external inductance is given, input & output connections brought out at sockets.	2470-00 each
SI030	Study of Stefan's Law to determine radiation constant, the apparatus consists of a voltmeter, an ammeter, a built in rheostat and variable voltage for electric bulb.	4160-00 each
SI031	Cathode Ray Oscilloscope Single Beam, Band Width DC to 10 MHz. fully solid state workable on 220 volts 50 Hz. All supplies are stabilised by accurate and stable operation. the accurate triggering of time base enables clear and stable display on screen of size 8x8 cm. Vertical deflection can be selected for either AC or DC, provision for attenuation in the input circuit, calibrated from 5mV to 50V/cm. Specifications: Band width : Vertical DC to 10 MHz (3db) Sensitivity : 10m V/cm Maximum Input Impedance : 1M Ohm Square wave calibration : 2 Volt P.P Triggering : Internal from vertical amplifier or external.	

	Sweep Time factor : 0.1 us/Div. 0.1s/div. $\pm 5\%$ Horizontal Amplifier: Band width : DC to 1 MHz Display : 8x8 cm square Power requirement : 25 Watt 240 V 50 Hz Dimension : 8"x5½"x11"	19500-00 each
SI032	Cathode Ray Oscilloscope Dual Trace, Band width DC to 20 MHz. Workable on 220 volt, 50 Hz.	39000-00 each
SI033	G.M. Counter Digital Instrument Consists of power supply for G.M. Tube with digital read out meter. 6 Digit counting system with its power supply. Controls for reset, start and stop fixed on panel. One presetable timer with 3 digit display and thumb wheel switch. Complete with G.M. tube, stand, and one radio active source.	70200-00 each
SI034	Power Supply for Ray Optics Kit: Workable on 230 V AC, it gives stabilized power output of 2 amp., 12 V DC, houses in sturdy metal box.	780-00 each
SI035	8085 Microprocessor Training Kit kit is based on 8085 Microprocessor and is designed to provide ease in interaction with 8 bit Microprocessor capabilities. This kit can be used to train engineers about the microprocessor technology to control any industrial process and to develop software for 8085 system. This kit has a powerful monitor in 4/8 byte EPROM. The monitor can be extended to incorporate an Assembler and Disassembler for 8085. This input / output structure includes programmable 24 I/O lines. It has got 16 bit programmable Timer / Counter using 8253 for generation of any type of counting.	11700-00 each
SI036	8086 Microprocessor Training Kit	18200-00 each
SI037	Laser Semi Conductor 5 mW	13000-00 each
SI038	He-Ne Laser 2 mW with power supply	36400-00 each
SI039	Accessories for Laser Experiment the standard accessories include one double rod 1.5 meter long optical bench with riders, diffraction grating, double slit, hand micrometer and grating stand.	10920-00 each
SI040	Resistivity of Semiconductors by Four Probe Method at different temperatures and determination of band gap. The experiment consists of the following : i. Four Probe Arrangement ii. Sample : Ge Crystal Mounted v. Four Probe Setup a) Constant Current Power Supply digital Accuracy : 0.25% of the reading +1 digital Load Regulation : 0.03% for no load to full load b) Electronic Millivoltmeter 200 mV Accuracy : 0.1% of reading = 1 digit Impedance : 1 Mohm Display : 3½ digit, 7 segment (LED height 12.5 mm) with auto polarity and decimal indication.	23400-00 each

SS143	Susceptibility of Fe cl3 solution (Quinck's Tube Method) to study susceptibility of ferrous solution in strong magnetic field, It consists of electro magnet of 7.5 K.G. strength, power supply 0-100 V variable 4 amps. Digital Meter 0-20 kg with hall probe, graduated capillary tube.	41600-00each
SI041	Hall Effect Experiment the setup consists of electromagnet of 7.5 kg. Power supply for electromagnet 0-100V / 4 amps with meter, germanium crystal mounted and its constant current power supply 0-20 mA fitted with two digital meter, germanium crystal mounted and its constant current power supply 0-20 mA fitted with two digital meters for Hall voltage and crystal current. Gauss Meter digital meters for Hall voltage and crystal current. Gauss Meter digital 0-20 Kilo Gauss, Provided with hall probe.	59800-00 each
SI042	Ultrasonic Diffraction Grating Experiment (To determine velocity of ultrasonic wave): complete apparatus with R.F. oscillator 3-8 Mhz, Crystal with tank, spectrometer with 7" protected circle, sodium lamp with wooden box transformer.	36400-00 each
SI043	Dielectric Constant Apparatus to calculate dielectric constant of liquids and solids. The instrument consists of high frequency oscillator of tuneable frequency, optimum tuning of oscillator can be measured using outer gang condenser. Dielectric is placed between parallel plates, change is detected and difference is noted for calculation.	14560-00 each
SI044	PNP Transistor fitted on board with separate lock type terminals and circuit diagram.	160-00 each
SI045	NPN Transistor fitted on board with separate lock type terminals and circuit diagram.	160-00 each
SI046	Semi Conductor Diode (Junction Diode) fitted on board with separate circuit diagram.	160-00 each
SI047	Zener Diode fitted on board with separate lock type terminals and circuit lock type terminals and circuit diagram.	160-00 each
SI048	Photo Voltic cell (Selenium Photo Cell) mounted on board with separate lock type terminals and circuit diagram.	840-00 each

PHYSICS



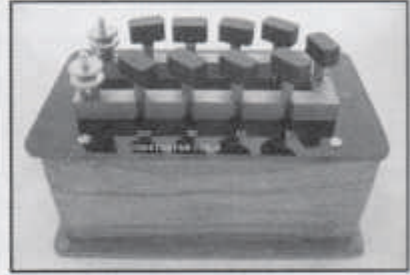
Digital Multimeter



Mechanical Stop Watch



Aneroid Barometer (Wall Type)



Resistance Box



Dynamo Model



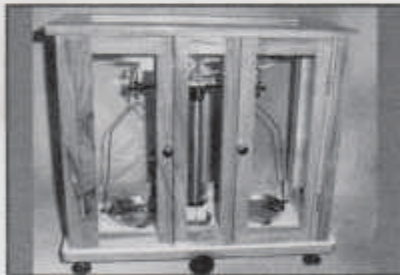
Digital Meter



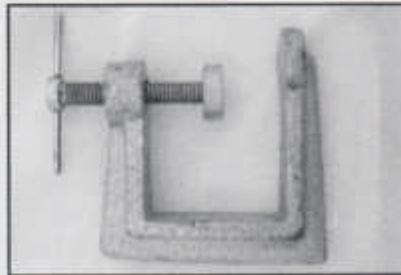
DCC Wire



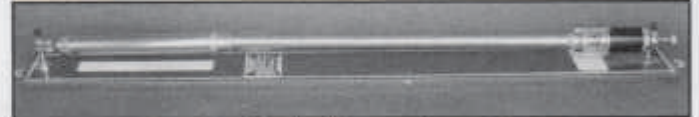
Aneroid Barometer (Demo Type)



Physical Balance



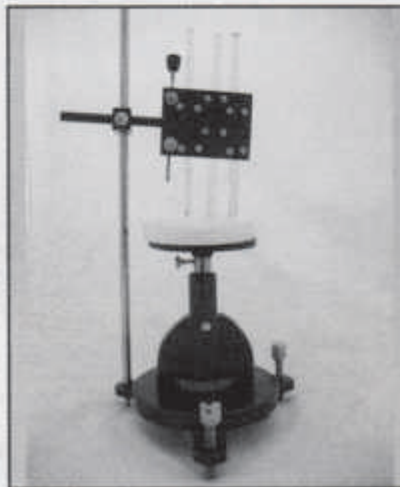
G-Glump



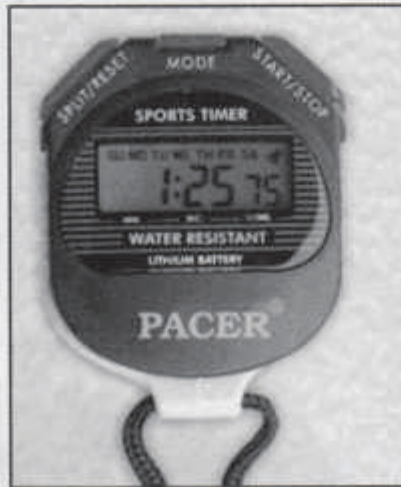
Fortin Barometer



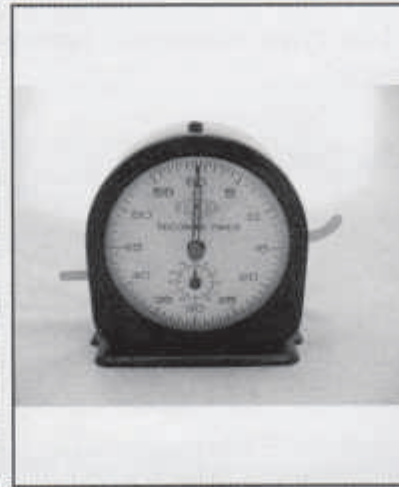
Sonometer



Rising Table with Clamp



Digital Stop Watch



Stop Clock



Ballistic Galvanometer

DISSECTION MICROSCOPE

SI049	Dissecting Microscope with bakelite fitting with two eye piece 10x, 20x in thermocole box.	640-00 each
SI050	Dissecting Microscope cast iron heavy round base with all metal parts bakelite knobs, brass eye-piece 10x, 20x, superior quality, packed in thermocole.	940-00 each
SI051	Dissecting Microscope Model No. SSA-11 with round cast Iron heavy base, sensitive focusing by rack & pinion with all brass parts arms, pipe, knobs with two eye piece 10x 20x in thick plywood box.	3250-00 each

MICROSCOPES

SI052	Pentex Microscope with one objective 10x and one eye piece 10x in card box.	1040-00 each
SI053	Single Nose Microscope with one eye piece 10x and one objective 10x in thermocole packing.	1290-00 each
SI054	Student Microscope Model No. SSA-16 improved pattern, heavy die cast body white lens bright field fixed condenser, two eye piece 10x,15x, two objectives 10x 45x (SL, Spring Loaded) (Self Parfocalised) packed in thermocole and thick plywood box. (As per ISI specification)	4390-00 each
SI055	Student Microscope (Economy Model) light body with superior quality fixed condenser and good optics, eye-piece 10x 15x, objective 10x 45x (SL) in wooden box.	3029-00 each
SI056	Junior Medical Microscope Model No. SSA-17. Improved pattern heavy die cast body with white lens bright field moveable condenser two eye piece 10x 15x, two objective 10x 45x (SL) Self Parfocalised packed in thermocole box & thick plywood box. (As per ISI specification)	4680-00 each
SI057	Junior Medical Microscope (Economy Model) light body with superior quality moveable condenser with good eye-piece 10x 15x & objective 10x 45x (SL) in wooden box.	3290-00 each
SI058	Medical Microscope Model No. SAA.18 improved pattern, die cast body with drum type graduated slow motion with detachable mechanical stage packed In thormocole box & in thick plywood box. Optical Combination : Eye Piece 5x and 10x Objectives 10x 45x (SL) 100x (SL) (Self Parfocalised). (OIL Immersion) (As per ISI specification)	6570-00 each
SI059	Inclined Medical Microscope Delux Model No. SSA-21 heavy body fitted with 6V - 20W halogen lamp workable on 220 Volt AC provided with co-axial mechanical stage and ball bearing nose piece, packed in thermocole box & in thick plywood box. Optical combination. Eye Piece 5x 10x (Hug) objective 5x 10x 45x (SL) 100x oil immersion (SL) (self Parfocalised)	11440-00 each
SI060	Inclined Medical Microscope Economy model buift in light arrangement with halogen lamp ,6 volt 20 watt, detachable mechanical stage in thick plywood box. Optical combination eye piece 5x, 10x Objectives 10x 45x (SL) 100x, oil Immersion (SL) (Self Parfocalised)	8840-00 each
SI061	Binocular Research Microscope Delux Model No. SSA-23. Heavy body inclined at 45" prorided with best quality binocular head for flat field. Illumination by 6 volt-20 watt halogen lamp fitted in base, provided with co_axial mechanical stage, ball bearing nose piece in thermocole box and thick plywood cabinet. Optical combination eye piece 5x (Hug.), 10x wide field (paired) Objectives 5x, 10x, 45x (SL) 100x, oil Immersion (SL) (Self Parfocalised)	15340-00 each

SS165	Binocular Microscope Economy Model, sturdy body provided with Binocular head rotatable at 360°, illumination provided with 6 volt-20 watt halogen lamp with detachable mechanical stage, packed in thermocole box and thick plywood cabinet. Optical combination eye piece 5x, 10x paired (Hug.) Objectives 5x, 10x, 45x (SL) 100x, oil Immersion (SL) (Self Parfocalised)	11440-00 each
SI062	Coaxial Binocular Microscope Model No. SSA-25 most modern, equipped with co-axil focusing system based on four stage gear reduction, traveling on ball bearing guides, locking device in coarse motion, coaxial mechanical stage illumination by 6V / 20W halogen lamp, binocular head fitted with superior hard coated strain free prisms packed in wooden box. Optical combination eye piece 5x (Hug.), 10x wide field (paired) Objective 5x 10x 45x (SL) 100x oil Immersion (SL) (Self Parfocalised)	26650-00 each
SI063	Co-Axial Trinocular Microscope Model No. SSA-24. most modern, equipped with co-axial focusing system based on four stage gear reduction, traveling on ball bearing guides, locking device in coarse motion, coaxial mechanical stage, illumination by 6v-20w halogen lamp with trinocular observation head for Micro-Photography & C.C. T.V, facility. Optical combination eye piece 5x (Hug.), 10x wide field (paired) Objective 5x 10x 45x (SL) 100x oil Immersion (SL) (Self Parfocalised)	29250-00 each
SI064	Photomicrographic Equipment comprising of 35 mm reflex type imported camera, microscope adaptor, bayonet mount, cable release, periplan photo eye piece 2.5x.	40950-00 each
SI065	Side View Finder To be fitted with above equipment.	38740-00 each
SI066	C.C. T.V. Attachment - Coloured close circuit TV system consisting of high resolution C mount, light weight CCD camera for excellent image contrast of microscope specimen, high resolution 14" video monitor.	2,31,400-00 each
SI067	Binocular Metallurgical Microscope fitted with binocular head, bright field horizontal illuminator with centering provision, halogen bulb 6v-20w controlled by variable intensity control knob and slot for dropping filters, packed in wooden cabinet. Optical Combination : Achromatic Objective M10x and M45x Eyepiece Wide Field 10x and Hug. 15x (paired)	2,28,800-00 each
SI068	Binocular Inverted Metallurgical Microscope fitted with binocular head, bright field horizontal illuminator with centering provision, halogen bulb 6V-20W controlled by variable intensity control knob and slot for dropping filter packed in wooden cabinet. Optical Combination : Achromatic Objective M5x, M10x, and M45x. Eyepiece Wide Field 10x and Hug. 15x (paired).	On Request
SI069	Binocular Polarising Microscope with triple revolving nose piece, co- axial coarse and fine motion, circular stage rotatable at 360°, graduated with vernier reading upto 0.1° with provision for centring by two knobs located just below the circular stage, polariser with swing out system. Compact analyser head having iris diaphragm, Bertand lens. Analyser rotating ring and half/full wave compensator with following optical combination. Objective 5x, 10x and 45x Eye Pieces 5x, 15x (With Cross) 10x (With Ocular)	On Request
STEREO BINOCULAR MICROSCOPE		
SI070	Stereoscopic Binocular Microscope Straight Binocular Head. Objective : Fixed 2x or 3x or 4x Eyepieces : 10x or 15x (paired). In plywood box.	6630-00 each

SS175	Stereo Research Binocular Microscope A model with trans illumination base for natural light by reflector. Eyepieces : 10x or 15x W/F. Paired. Objectives : Sliding 2x & 4x or 3x & 5x Magnification : 20x to 75x, in plywood box.	11050-00 each
SI071	Advance Stereo Binocular Microscope Inclined Head, rotatable to 360. Built-in illumination for incident (Epi) and substage (Transmitted) light. Both can be used individually or simultaneously. Packed in plywood box. Eyepieces : 10x W/F paired. Objectives : 2x & 4x on quick changing turret. Magnification : 20x to 40x (can be increased to 10x to 160x with spare 15x Eye piece & auxiliary objective lens 0.5x to 2.0x.	16770-00 each
SI072	Zoom Stereoscopic Binocular Microscope Zoom ratio 1x to 5x (or 0.6x to 4x) eye-piece SWF 10x base with dual light 6v, 20w halogen buib. Accessories : 1. SWF 15x or SWF 20x eye-piece paired. 2. 2x or 0.5x Auxillary Objectives.	65000-000 each
SI073	Projection Microscope 4" with one objective and one eyepiece packed in box.	3970-00 each
SI074	Projection Microscope 6" SSA-28 with two objective and one eyepiece, fitted with 12V-20W halogen lamp with intensity control knob packed in plywood box.	7800-00 each
SI075	-do- Mechanical Stage Extra.	910-00 each
SI076	Senior Projection Microscope compact, dust proof construction projection, screen of 100 mm dia with provision of wall projection, 12V-100 halogen lamp, equipped with loop and arrow pointer, supplied with mechanical stage and two objectives 10x, 40x. Eyepiece 10x packed in a cardboard box.	16900-00 each

MICROTOMES

SI077	Hand and Table Microtome with table clamping device and plano convave razor, feed adjustment in steps of 10 microns.	2470-00 each
SI078	Rocking Microtome (Cambridge Type) in box with accessories.	5500-00 each
SI079	Rotary Microtome (Erma, Japan Type) with three object holders, one razor 120mm and honing stone. Feed adjustment 1-25 microns in steps of one micron. complete with raxine cover and box.	18200-00 each
SI080	Senior Rotary Microtome (Spencer 820 Type) latest model' with one razor 120mm and honing stone. Feed range 1-50 micron in steps of one micron with automatic feed release device. Complete in box with three object holders and raxine cover.	22100-00 each
SI081	Automatic Knife Sharpner (Spencer Type) complete with razor and accessories in wooden box.	21450-00 each

MICROSCOPES ACCESSORIES

SI082	Optics set two eye piece 10x, 15x two objective 10x, 45x (SL) Superior.	820-00 each
SI083	Optics set two eye piece 10x, 15x two objectives 10x, 45x (SL) Self Parfocalised.	1070-00 each
SI084	Eye Piece Huygenian 10x or 15x.	150-00 each
SI085	Eye Piece Huygenian 5x.	165-00 each

SS190	Achromatic Objectives Spare	5x	10x	45x	
	(a) Superior	208-00	286-00	350-00	each
	(b) High Resolution, Self Parafofocusing	286-00	390-00	455-00	each
SI086	Oil Immersion 100x spring loaded superior quality				910-00each
SI087	Wide Field Eye Piece 10x.				370-00 each
SI088	Sub Stage Condenser with Diaphragm superior.				240-00 each
SI089	Pointer Eye Piece 10x or 15x in velvet case.				180-00 each
SI090	Pointer Eye Piece 5x in velvet case.				205-00 each
SI091	Microscope Lamp Sub Stage Pin Type in card box.				235-00 each
SI092	Mechanical Stage small in card box.				910-00 beach
SI093	Mechanical Stage heavy pattern in card box.				1070-00 each
SI094	Stage Clip				20-00 set
SI095	Metallic Arc with Reflector				75-00 each
SI096	Reflector 50 MM. Plano-Concave				45-00 each
SI097	Camera Lucida Prism Type in velvet box.				1170-00each
SI098	Camera Lucida Mirror Type in velvet box.				1360-00 each
SI099	Double Demonstration Eye Piece in velvet box.				1540-00 each
SI100	Microtome Razor 120 mm. in wooden box.				1070-00 each
SI101	Stage Micrometer				1230-00 each
SI102	Ocular Micrometer				314-00 each

SLIDE PROJECTOR AND OVER HEAD PROJECTOR

SI103	Slide Projector Model No. SSA - 43 aluminium moulded compact body fitted with heavy transformer, 24volt 150 watt halogen lamp, On/Off switch, blower cooled, with 2"x2" slide carrier and Indian focus tube in cabinet.				3510-00 each
SI104	Slide Projector Model No. SSA- 42 vertical pattern. detail as above. In plastic case with Indian focus tube.				4760-00 each
SI105	Slide Projector moulded body with excellent finish.				5200-00 each
SI106	Automatic Slide Projector light weight with linear tray for 50 slides, works on 230 volt AC with halogen lamp 24 volt 150 watt, interchangeable coated 85mm projection lens, remote control for advancing slides both forward/reverse direction.				On Request
SI107	Audio-Visuat Kit three in one instrument consists of slide projector, audio- cassette player and public address system workable on 220 volt AC and provided with 24 volt 150 watts halogen lamp, packed in plywood box.				11960-00 each
SI108	Over Head Projector Model SSA-51 A modern compact, light weight and sturdy model with clear aperture 240x240mm. Provided with 24 volt 250 watt halogen lamp with heavy transformer, focusing by rack & pinion, cooling fan, folding projection arm, high class optics superior fresnel lens, efficient light intensity dim/bright switch, packed in thermocole case with card box.				9360-00 each

SS214	Over Head Projector Model No. SSA-52 Twin Bulb same as above but fitted with dual bulb. The fused bulb can be changed instantly by turning the knob.	10920-00 each
SI109	Over Head Projector (Delux) An improved model with the following : 1. Powder Coated Body. 2. Deluxe Fresnel Lens. 3. Heavy Duty Sturdy Transformer with imported core sufficient for 8 hour working. 4. Free Cooling Fan. 5. Fitted with superior reflector and thermostat to guard against over heating. 6. Fitted with hinged top plate permitting access for lamp change and cleanliness. 7. A Push-To-On Micro-Switch to shut off power supply to the unit while replacing the bulb. 8. With 50 blank transparencies and pencil set. Packed in thermocole and in outer card box	12350-00 each
SI110	Over Head Projector Latest model of overhead projector, versatile, efficient and cost effective. Light weight ABS body (weight approx 5.5 kg) with cooling fan device. Equipped with 24V 250W twin.halogen lamp with quick lamp -hange system and low - high intensity control. Standard fresnel lens of 250x250 mm working area, single element lens. Revolving head to get projection on any of the four directions. Folding arm and handle for conveniennce of carrying. Power supply through heavy transofrmer. Provided with 3.5 meter long cord and fuse in fuse chamber. Gives approx. 2800 lumens at a distance of 1 meter. Thermocole packing and outer corrugated case for safety during transportion size - 48x35x43 cm approx.	15450-00 each
SI111	Over Head Projector Same as above but provided with A-4 size (285 x 285 mm) fresnel lens and fringe control device.	18980-00 each
SI112	Over Head Projector Folding type, portable, easy carrying overhead projector having multi-layered 3 element vari-focal lense, quick changer hatogen lamp 2x24V / 250W with switch, fringe free projection gives crystal clear image packed in smal. ABS body case. Projection platform A-4. Dimension : 285mm x 285mm	48100-00 each

EPIDIASCOPE & EPISCOPE

SI113	Precision Epidiascope An efficient convertible projector equipped with high grade anastigmatic tripplet white lenses and surface coated relecting mirrors providing brilliant projection of opaque objects as well as cotoured slides. Equipped with a noiseless cooling system providing undisturbed projection for long durations. For use as an epidiascope, a slide projector, a film strip projector and a micro slide projector with the aid of different accessories supplied along with. Complete with 225 V - 800 Watt tube.	18590-00 each
SI114	Episcope Modern in design and rigidity. Built with top grade material for durability, ruggedness and trouble free life long service. Some important constructional features are : 1. The mild steel sheet body-frame with beautiful oven treated paint. 2. Heat resistant glass platform 3. Electric motor driven cooling fan 4. Projection bulb 1000 watt fitted on an adjustable metal platform 5. High grade optical glass anastigmatic lenses 6. High quality surface coated and optically worked reflecting mirror	11960-00 each
SI115	Screen for Projector and epidiascope Simple, wall type made of snow white plastic with two fixed metal tubes Size 117 x156 cm Rs. 610-00 170 x220 cm Rs. 1092-00	each

SS222	Screen for Projector and Epidiascop , Automatic spring action. It can roll automatically with the help of spring		
	Size	90 x 120 cm Rs. 2070-00	130 x 175 cm Rs. 2210-00
			each
SI116	Screen for Projector and Epidiascope Spring action automatic type but on heavy tripod metal stand. The stand is folding type.		
	Size	90 x 120 cm Rs. 2860-00	130 x 175 cm Rs. 2990-00
			each
SI117	Screen for Projector Export Quality . 150cm x 150cm		
	Wall Type	With Metal Case	With Stand
	1520-00	4420-00	5070-00
			each
SI118	Halogen Lamp 24 volt 150 watt		260-00 each
SI119	Halogen Lamp 24 volt 150 watt		280-00 each

PROJECTION SLIDES & TRANSPARENCIES

SI120	Projection Slides 35MM coloured 2" x 2" mounted in file.	12-00 each
SI121	- do - Mounted in plastic frame.	20-00 each
SI122	Overhead Transparency in natural colour mounted in duplex sheet	60-00 each
SI123	Process Coloured Overhead Projecter Transparency	95-00 each
SI124	Over Head Transparency Blank	30-00 each
SI125	Slidoscope packed in Card Box	550-00 each
SI126	Laminated Portrait of Scientists	470-00 each

SPECTROMETER AND TRAVELING MICROSCOPE

SI127	Spectrometer Standard (College Type) : Specially designed to give best possible results. Protected 150mm scale is divided on precision machine. Telescope is fitted with achromatic objective. Collimator has an adjustable precision slit with jaws of non rusting metal. Packed in a beautiful plywood box. Least count 1 minute.		
	Protected Circle	Brass Scale	S.S. Scale
	a) 15 cm	Rs.6890-00	Rs. 7540-00
			each
SI128	Spectrometer College Pattern (SSA-37) Delux		
	(a) 15.0cm	Rs. 7280-00	Rs. 7930-00
	(b) 17.5 cm	Rs. 8320-00	Rs. 8580-00
			each
SI129	Spectrometer College Type (Classic) High precision quality using best quality material and optics.		
	(a) 15.0cm	Rs. 11960-00	Rs. 12350-00
			each

SS237	Traveling Microscope SSA41 (Vernier Microscope) : Vernier reading 0.01 mm. Horizontal scale is graduated upto 17 cm and vertical scale 15 cm, embedded stainless steel scale. Cast iron heavy bed with leveling screws. Vertical and horizontal slide can be clamped at any position using clamping screw, fine motion is brought about by micrometer screws, packed in plywood box.	5720-00 each
SI130	Traveling Microscope Delux Improved design. Platform is of gunmetal, provided with special arrangement for adjustment of pillar carrying vertical scale of stainless steel, packed in plywood box.	8060-00each
SI131	Traveling Microscope Specification as above, SS Scale, best quality in thick plywood box.	10140-00 each
SI132	Six Position Vernier Microscope For use in different position, travel 15 cm. vernier reading 0.01 mm with embedded stainless steel scale. Packed in plywood box.	3900-00 each
SI133	Newton's Ring Microscope Compact form with all the necessary arrangements for conducting newton's ring experiment. A standard microscope unit with 30x magnification and rotatable cross line, complete with beautiful storing cabinet.	6500-00 each

POLARIMETERS & OPTICAL BENCH

SI134	Student Polarimeter Half Shade A simple and sensitive polarimeter designed on Laurent's half shade system for accurate results. Equipped with polariser, analyser and Laurent's half shade. Precisely graduated scale mounted on sturdy tripod stand with provision for height adjustment, complete with 200 mm tube. Range of Measurement : 0 to 360°. Telescopic Magnification : 5x vernier accuracy : 0.1°. In sturdy card board box.	5800-00 each
SI135	Sextant Standard Designed to give maximum accuracy with stainless steel scale divided to 130° and vernier reading to 12 seconds. Telescope holder is adjustable to the required height. Complete with sight tube, one inverting, one erecting telescope and one sun glass.	7800-00 each
SI136	Sextant Stand Nice duco painted heavy base with steel C.P. Rod.	2080-00 each
SI137	Abbe Refractometer For accurate measurement of indices of refraction of transparent liquids solids and solutions. For use in sugar, ghee and oil mills, pharmaceuticals and chemical laboratories, jam factories and distillaries etc. Measuring range 1.3000 to 1.7000, measurement of sugar 0% to 95%, complete in polished wooden box.	12480-00 each
SI138	Telescope Small All Brass	460-00 each
SI139	Reading Telescope For school and junior colleges, focusing from one meter to infinity. Ramsden eye piece with cross wire, achromatic optical equipment with rack & pinion, fitted on cast iron base.	900-00 each
SI140	Reading Telescope same as above with perspex scale provided with up and down motion improved design.	1590-00 each
SI141	Reading Telescope Universal Delux Fitted on nice duco painted round cast iron heavy base with levelling screws. The telescope is provided with high class optical combination and brass C.P. fittings with up and down, to and fro motion complete with perspex scale.	3380-00 each
SI142	Reading Telescope Classic superior quality, all parts are made from brass, achromatic objective provided with wooden stand.	5200-00 each
SI143	Slit for Resolving Power of Telescope Consists of unilateral jaw movements through a micrometer head and three fixing screws.	500-00 each

SS252	Astronomical Telescope Overall length about 68 cms. It is fitted with 50mm dia 6x objective. The telescope is mounted on a pillar having universal motion. The whole assembly is fitted on deco painted metal stand of 4 feet adjustable height. The telescope is packed in velvet box.	
	(a) Superior quality with achromatic lens.	3670-00 each
	(b) With single white glass lens.	2240-00 each
SI144	Astronomical Cum Terrestrial Telescope Same as above but with erector tube which can be screwed into the main tube after removing eye piece and thus the astronomical telescope is used as terrestrial telescope, complete in velvet lined case.	
	(a) Superior quality with achromatic lens.	3900-00 each
	(b) With single white glass lens.	2600-00 each
SI145	Optical Bench Simple Made from seasoned, polished wood, one meter long and provided with six wooden riders.	390-00 each
SI146	Optical Bench with Wooden Bed and Metal Accessories One meter long, superior wood, scale in mm. Four metal base slides and four metal accessories. Two of the slides are provided with transverse slow motion management.	990-00 each
SI147	Optical Bench single Rod comprises a meter long, square steel rod t6mm thick graduatео in mm and supported on two sturdy metal feet with leveling screws. Four sliders and four accessories, two of the slider have fine transverse motion.	1770-00 each
SI148	Optical Bench Double Rod (Routine Quality) one meter long with metal accessories.	1911-00 each
SI149	Optical Bench Double Rod consists of two metal rods one meter long, one of the rods evenly divided in mm supported on heavy cast iron feet provided with four neivy metal slider and accessories. Two of the sliders have transverse motion.	
	(a) Half shapered accessories	2140-00 each
	(b) Full shapered accessories	3250-00 each
SI150	Optical Bench Double Rod Full shapered accessories (same as above)	
	(a) With both rods covered with brass pipe	4070-00 each
	(b) Both stainless steel rod	5070-00 each
SI151	Optical Bench 1½ meter long full shapered accessories with two steel rod and one extra rod supporting the base.	
	(a) Steel Rod	2740-00 each
	(b) Both rods covered with brass pipe	4630-00 each
	(c) Both rods stainless steel	5720-00 each
SI152	Research Optical Bench consisting of heavy cast iron bed with strong central rib, thoroughly seasoned and aged before machining, total length 170cm fitted with stainless steel scale divided in mm' Four carriages are provided to carry the standard experiment accessories.	
	1. Optical slit	2. Biprism holder
	3. Micrometer Eye Piece	4. Llyod's Mirrors
		On Request
SI153	Ray Optics Kit An ideal instrument for work in elementary optics to demonstrate basic principles of light like reflection, refraction, deviation of light through prismor slab, with standard accessories.	936-00 each

SS263	Biprism Assembly 1½ meter long stainless steel double rod with following accessories.			
	1. Biprism holder	3. Micrometer Eye Piece		
	2. Adjustable slit	4. Automatic lens holder	10660-00	each

SI154	Nodal slide Assembly 1½ meter long stainless steel double rod with the following accessories.			
	(a) Lamp holder			
	(b) Metal Screen White, with cross slit			
	(c) Plane true table mounted mirror			
	(d) Lens assembly consisting of double lens holder with clamping arrangement for performing nodal point experiments.		14300-00	each

MIRRORS AND LENSES

SI155	Concave and Convex Mirror superior, optically true, back nicely silvered with protective coating, any focal length from 15 to 100 cm			
	Diameter	50 mm	75 mm	
	F.L. 15 to 100 cm	22-00	47-00	each

SI156	Double Concave Lens , highly polished and well edged, manufactured from Plate glass, optically true			
	Diameter	50 mm	75 mm	
	F.L. 10 cm	39-00	156-00	
	F.L. 15 to 100 cm	18-00	112-00	each

SI157	Double Convex Lens highly polished and well edged, manufactured from plate glass optically true			
	Diameter	50 mm	75 mm	
	F.L. 10 cm	36-00	112-00	
	F.L. 15 to 100 cm	18-00	75-00	each

SI158	Magnifiers with Metal Handle , brass C.P. ring.			
	Diameter	50 mm	75 mm	100 mm
	F.L. 15 to 100 cm	39-00	117-00	177-00
				each

SI159	Magnifiers in Plastic Frame :			
	Diameter	37 mm	50 mm	100 mm
	FL 15 to 100 cm	10-00	14-00	21-00
				each

SI160	Glass Slab made from superior quality moulded glass with glossy surface			
	Size	Indian	Important	each
	(a) 75x50x12mm	-	23-00	each
	(b) 75x50x18mm	75-00	86-00	each
	(c) 100x60x18mm	122-00	-	each
	(d) 100x60x25mm	138-00	-	each

SI161	Glass Prism Equilateral, highly polished surface			
	Size	38 mm	50 mm	
	(a) Superior Quality	44-00	75-00	each
	(b) Regular Quality	34-00	55-00	each

SS272	Spectrometer Prism					
	Glass	R.I.	25x25mm	32x32mm	38x38mm	
	Crown Glass	1.51	234-00	364-00	520-00	each
	Dense Flint	1.62	442-00	663-00	1145-00	each
	Extra Dense Flint	1.65	546-00	832-00	1560-00	each
SI162	Diffraction Grating	15000 lines per inch				780-00 each
SI163	Fresnel Biprism					
	Size 32x40MM	40x50MM				
	346-00	390-00				each
SI164	Mirror Strip	silvered back with protective coating.				
	(a) 75x25mm	(b) 75x50mm	(c) 100mmx25m			
	62-00	78-00 each	70-00			doz.
SI165	Mirrors Strip	Holder wooden cube with a slot to hold the mirror strip.				160-00 doz
SI166	Mirrors Strip	5x2u inch pasted on wooden stand complete.				35-00 each
SI167	Direct Vision Spectroscope	(Hand Spectroscope) wide spectrum with 10x10MM Direct Vision Prism with precision slit, fitted in brass body with telescopic focusing, in velvet case.				1210-00 each
SI168	Mixing of Light Apparatus	: (Primary Colour Apparatus) consists of three torches of primary colours i.e. red, blue and green on plastic base. Provided with power supply and on/off switch in wooden box.				1625-00 each
SI169	Model of Compound Microscope	all metal fitted on metallic base.				350-00 each
SI170	Model of Astronomical Telescope	all metal fitted on metallic base.				340-00 each
SI171	Model of Terrestrial Telescope	all metal fitted on metallic base.				420-00 each
SI172	Persistance of Vision App.	(Bird & cage app.) Battery Operated.				260-00 each
SI173	Optical Lever	single aluminium body.				170-00 each
SI174	Newton Ring App.	a pair of glasses. One plane, other convex 50mm in metal frame with three screws for applying pressure.				250-00 each
SI175	Newton Ring App.	with wooden frame				340-00 each
SI176	Ticker Tape Timer	complete A.C. Mains				1100-00 each
SI177	Lens Holder	V-shaped wooden polished				35-00 each
SI178	Ground Glass Screen	wooden polished				40-00 each
SI179	Wire Gauge Screen	wooden polished				40-00 each
SI180	Universal Lens Holder	metal on adjustable stand				160-00 each
SI181	Ground Glass Screen	in metal frame on adjustable stand				150-00 each
SI182	Wire Gauge Screen	in metal frame on adjustable stand				145-00 each
SI183	Candle Holder metal	on adjustable metal stand				120-00 each

SS295	Parallex Pin on adjustable metal stand. (Index Pin)	6mm 88-00	9mm 100-00	each
SI184	Spring Action Lens Holder brass on adjustable metal stand			364-00 each
SI185	LLyod's Mirror provided with special circular scale			1370-00 each
SI186	Pin Hole Camera (a) Wooden (b) Brass	90-00	90-00	each
SI187	Kaliedoscope Brass N.P.			105-00 each
SI188	Periscope made from wood polished			145-00 each
SI189	Angular Mirror Wooden			240-00 each
SI190	Angular Mirror Wooden Big Size			720-00 each
SI191	Spectroscope Wooden			210-00 each
SI192	Lamp Box Wooden : With three windows, bulb holder & lead wire			290-00 each
SI193	Air Wedge Apparatus : Consists of two optically true glass plates, having a very fine wedge between them. The glass plates are kept on a wooden platform with adjustable glass window.			520-00 each

KEYS, SWITCHES AND COILS

SI194	Plug Key made from 7/10" thick brass block, fitted on heavy bakelite base, packed in individual duplex box.	One way 127-00	Two way 208-00	Three way 278-00	each
SI195	Plug Key Four Way (Commutator Key) circular, on thick bakelite base packed in individual duplex box				330-00 each
SI196	Plug Key Six Way circular on thick bakelite base packed in card box				520-00 each
SI197	Pohl's Commutator with brass C.P. parts fitted on thick bakelite base, packed in card box.				325-00 each
SI198	Reversing Switch M.I.P. type with handle, fitted on thick bakelite base, packed in card box.				250-00 each
SI199	Tapping Key Single fitted on thick bakelite base with brass C.P. points, packed in individual duplex box.				110-00 each
SI200	Tapping Key Double Double contact with brass C.P. Points in card box.				190-00 each
SI201	Raleigh Key for self induction, fitted on thick bakelite base with brass parts.				700-00 each
SI202	Charge and Discharge Key fitted on thick bakelite base with silver contact.				630-00 each
SI203	D.P.D.T. Switch fitted with brass strip, mounted on board.				320-00 each
SI204	Resistance Coil In round bakelite case with brass screws and terminals, any value from 0.1 to 100 ohms is available.				35-00 each
SI205	Resistance Coil in transparent plastic tube, actual, $\pm 0.2\%$ any value 0.1 to 100 ohms is available.				45-00 each

SS318 **High Resistance Coil** : plug type, short circuit on bakalite base. Value 1K 2K 5K 10K 15K (K stand for 1000 ohms) 300-00 each

SI206 **Precision Resistance** Standard Fitted in aluminium or steel turf, bakelite case with 2 terminals, any value from 0.01 to 100 ohms, manganin coils. 240-00 each

RESISTANCE BOX AND POST OFFICE BOX

SI207 **Resistance Box Plug Type** in teak wood box fitted with ½" rectangular brass block. Double silk covered non inductive winding, accuracy ±0.02 to 0.1%. Interchangeable plugs, heat treatment given to resistance. Seasoning of wound bobbins to gain equilibrium.

Range	Total Resistance	Manganin Coils	
(a) .1 to 1	2	1180-00	each
(b) .1 to 5	11	1425-00	each
(c) .1 to 10	21	1535-00	each
(d) .1 to 50	111	2095-00	each
(e) .1 to 100	211	2210-00	each
(f) .1 to 500	1111	2782-00	each
(g) 1 to 10	20	1180-00	each
(h) 1 to 50	110	1425-00	each
(i) 1 to 100	210	1535-00	each
(j) 1 to 500	1110	2095-00	each
(k) 1 to 1000	2110	2210-00	each
(t) 1 to 5000	11110	2626-00	each
(m) 1 to 10000	21110	2782-00	each

SI208 **Resistance Box Plug** Type Wooden box fitted with T/16 rectangular brass blocks accuracy ±0.1%

Range	Total Resistance	Constantan coils	
(a) .1 to 1	2	885-00	each
(b) .1 to 5	11	910-00	each
(c) .1 to 10	21	936-00	each
(d) .1 to 50	111	1235-00	each
(e) .1 to 100	211	1250-00	each
(f) 0.1 to 500	1111	1495-00	each
(g) 1 to 10	20	885-00	each
(h) 1 to 50	110	910-00	each
(i) 1 to 100	210	936-00	each
(j) 0 1 to 500	1110	1235-00	each
(k) 1 to 1000	2110	1250-00	each
(l) 0 to 5000	11110	1495-00	each
(m) 1 to 10000	21110	1560-00	each

SS322	Resistance Box Dial Type Designed for quick and accurate work. The resister values shown on thick bakelite sheet and read by a pointer. Each dial consists of 10 steps fitted on spray painted box. Accuracy $\pm 1\%$.					
	One Dial 650-00	Two Dial 1300-00	Three Dial 1950-00	Four dial 2600-00	Five Dial 3250-00	each
SI209	Post Office Box Plug Type Fitted with rectangular brass blocks, lacquered, interchangeable plugs are connected with double nut system. Two spring keys for battary and galvanometer are provided. Fitted in teak wood box. Accuracy ± 0.05 to 0.1%					
		Manganin coil		Constantan coil		
	(a) With three ratio coils	4550-00		4420-00		each
	(b) With four ratio coils	4940-00		4810-00		each
SI210	Post Office Box Dial Type each dial consists of 10 steps provided with 4 ratio of 1, 10, 100 and 1000 ohms and 2 ratio dials, fitted in teak wood box Accuracy $\pm 0.05\%$ to $\pm 0.1\%$.					
		Manganin Coil		Constantan Coil		
	Five Dial	6760-00		6500-00		each
	Six Dial	7540-00		7280-00		each

RHEOSTATS

- SI211 **Rheostats** : 4.4cm dia porcelain tube wound with heavily oxidised eureka wire and mounted on duco painted metal feet, provided with laminated brush contacts of phosphorous bronze strips, with brass C.P. guide rod and lock type three terminals to use Rheostat as potentiometer, packed in card box.

Length	15cm	20cm	25cm	30cm	35cm	40cm	45cm	50cm	
	Amps	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	
a)	6.0	3	4.5	6	7.5	9	10.5	12	13.5
b)	5.0	4.5	6.5	9	11	13	15	18	20
c)	4.2	8	12	16	20	25	28	32	36
d)	3.3	10	16	22	28	34	40	46	52
		830/-	960/-	1170/-	1380/-	1610/-	1820/-	1900/-	2080/-
e)	2.8	15	22	29	36	43	50	58	65
f)	2.3	23	34	45	56	68	80	92	104
g)	1.8	37	55	73	91	110	128	146	164
h)	1.6	50	75	100	125	150	175	200	225
i)	1.4	64	96	128	160	190	220	250	290
j)	1.2	89	135	180	225	270	315	355	395
k)	1.0	116	175	235	290	350	405	460	515
l)	0.8	160	240	320	400	480	560	640	720
m)	0.6	270	400	540	680	820	960	1100	1240
n)	0.5	400	600	800	1000	1200	1400	1600	1800
o)	0.4	650	975	1300	1625	1950	2275	2600	2900
p)	0.3	1150	1700	2250	2850	3400	3950	4550	5150
		750/-	900/-	1040/-	1320/-	1530/-	1740/-	1800/-	2020/-

SS326

Length		15cm	20cm	25cm	30cm	35cm	40cm	45cm	50cm
	Amps	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
a)	6.5	3.5	5.5	7.5	9.5	11	13	15	17
b)	5.0	5.5	8	11	14	17	20	23	26
c)	4.2	10	15	20	25	30	35	40	45
d)	3.3	14	20	28	34	42	48	58	64
		1080/-	1260/-	1445/-	1625/-	1820/-	2000/-	2210/-	2392/-
e)	2.8	12	28	38	48	57	66	76	86
f)	2.3	26	41	56	71	86	102	114	128
g)	1.8	47	70	93	116	139	160	185	210
h)	1.6	64	96	125	150	190	225	250	290
i)	1.4	80	120	160	200	245	285	325	360
j)	1.2	115	170	230	290	2345	400	450	500
k)	1.0	148	225	295	365	445	520	590	675
l)	0.8	200	300	400	500	600	700	800	925
m)	0.6	345	510	675	835	1000	1165	1335	1500
n)	0.5	500	750	1000	1250	1500	1800	2050	2300
o)	0.4	840	1200	1650	2070	2500	2900	3350	3750
p)	0.3	1350	2100	2850	3600	4380	5100	6000	6750
		900/-	1000/-	1350/-	1210/-	1990/-	1430/-	1535/-	1640/-

SI212

Length	15cm	20cm	25cm	30cm	35cm	40cm	45cm	50cm	
	Amps	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	
a)	10.0	3	4.5	6	7.5	9	10	11	12
b)	8.0	4	6	8	10	12	14	16	18
c)	6.0	6	9	12	15	18	21	24	27
d)	5.0	12	15	18	24	30	36	42	40
e)	4.0	18	27	36	48	60	72	84	96
		1120/-	1200/-	1325/-	1430/-	1535/-	1770/-	1950/-	2160/-
f)	3.0	32	48	60	70	85	110	125	140
g)	2.5	45	55	75	95	120	145	170	190
h)	2.0	60	80	110	130	150	170	190	220
i)	1.8	100	140	200	250	300	350	400	450
j)	1.5	140	200	260	300	360	400	460	500
k)	1.2	180	260	350	430	520	610	700	790
l)	1.0	300	400	500	600	700	800	900	1000

m)	0.8	350	500	765	825	975	1100	1250	1400
n)	0.6	600	800	1200	1500	1800	2000	2300	2600
o)	0.5	700	1000	1300	1600	1900	2200	2500	2800
p)	0.3	2000	2500	3000	4000	5000	6000	7000	8000
		740/-	920/-	1105/-	1300/-	1480/-	1690/-	1885/-	2080/-

SI213 **Fixed Condenser Box** High quality paper condenser in teak wood box fitted with ebonite top and terminals. (Microfarad = mfd)

0.01 mfd	0.2 mfd	0.5mfd	1.0 mfd	2.0 mfd
260-00	290-00	340-00	365-00	495-00

SI214 **Decade Condenser Box Dial type (Capacitance Box)** Manufactured in one or more dials, each consisting of ten steps, fitted in spray painted box.

ONE DIAL

	Sub Divisions mfd	No. of Steps	Total m.f.d	
a)	0-001	10	0.01	1200-00 each
b)	0.01	10	0.1	1200-00 each
c)	0.1	10	1.0	1200-00 each
d)	1.0	10	10.0	1665-00 each

TWO DIALS

e)	0.001 and 0.01 mfd	20	0.11	2315-00 each
f)	0.01 and 0.1	20	1.1	2315-00 each
g)	0.1 and 1	20	11.0	2860-00 each

THREE DIALS

h)	0.001, 0.01 and 0.1	30	1.11	3900-00 each
i)	0.01, 0.1 and 1	30	11.1	3460-00 each

FOUR DIALS

j)	0.001, .01, .1 and 1	40	11.11	5200-00 each
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SI215 **Universal Shunt Dial type**, based on Ayrton and Mather principle, total resistance 10,000 ohms, multiplying powers 1, 3, 10, 30, 100, 300, 1000, 3000, and 10000, provided with short circuiting push button switch. 1850-00 each

POTENTIOMETERS AND BRIDGES

SI216 **Potentiometers** on nicely polished plywood base with sunmica top, fitted with soft wood graduated scale't00cm x 1 mm, brass cP connecting strips and brass terminals.

	4 Wire	10 Wire	
(a) With pencil jockey	740-00	1040-00	each
(b) With spring action brass jockey	1095-00	1430-00	each

SI217 **Potentiometer** 4 wire on 18mm thick both side laminated wooden board with pencil jockey, heavy terminals, thick strips and brass Screws. 730-00 each

SI218 **Potentiometer** 10 wire on 18 mm thick both side laminated wooden board with heavy terminals, thick strips, brass screws, pencil jockey. 990-00 each

SS334	Pencil Jockey Brass	45-00 each
SI219	Potentiometer Dial Pattern the slide wire is 50cm long fitted over a graduated plate divided in 500 parts. The jockey is of superior type and slides on the metal rod. The dial consists of 10 coils connected in series to the slide wire.	4160-00 each
SI220	Potentiometer Dial Pattern Samea Sabove with 14 coils.	4630-00 each
SI221	Crompton Potentiometer direct reading type, consisting of 8 coils and a circular slide wire. The scale is divided into 200 parts with potential drop of 200 milli-volts, direct reading with arrangement for standardising with a standard cell. Fine and coarse rheostats are provided for adjusting the slide wire. current Range 0-001 to 1.8 volts, manganin coils, without standard cell and accessories.	6500-00 each
SI222	Crompton Potentiometer improved form provided with standardising coil.	6890-00 each
SI223	Platinum Resistance Thermometer cambridge type, heat treated, winding of the purest form of platinum having resistance of 2.8 ohm, enclosed in a borosilicate glass grounded tube, four terminals two for thermometer and two for compensatory leads are provided.	4810-00 each
SI224	Meter Bridge (wheatstone Bridge) one meter long, provided with four gaps, plywood base and sunmica top, graduated scale constantan wire brass C.P. strip and brass terminals (a) With Pencil Jockey (b) With Pressing jockey brass	1040-00 each 1430-00 each
SI225	Meter Bridge Export Quality Delux Model on 18mm thick both side laminated wooden board with superior meter scale, pencil jockey.	1070-00 each
SI226	Kohlrausch Conductivity Bridge for direct measurement of electrolytic resistance. Comprising a calibrated scale 01-10 ohms and multiplier ratio dial giving 6 ratios o.r, r, 10, 100, 1000 and 10000. It is useful for quick determination of resistance too when galvanometer replaces the headphone in the detector circuit. with fixed circular scale, accuracy $\pm 0.1\%$.	5960-00 each
SI227	Hamburger celr. (conductivity coil) with platinum electrode for use with Kohlrausch Conductivity Bridge, dip type	2420-00 each
SI228	Callendar and Griffith's Bridge , carry Foster Bridge and Potentiometer, combined in one instrument. It is an improvement over the potentiometer. 50 cm long slide wire of 1 ohms resistance is calibrated into 100 equal parts 14 coils are arranged in series in dial form each being of 1 ohms resistance. Terminals arranged for appropriate working of different instruments. Jockey sliding on brass rod, accuracy of adjustment $\pm 0.05\%$.	6500-00 each
SI229	Desauty's Brlidge for comparison of capacities of condensers. Accuracy $\pm 0.05\%$ to $\pm 0.1\%$.	8320-00 each
SI230	Raleigh's Bridge for measurement of serf inductance of a coil, calibrated to $\pm 0.05\%$ to $\pm 0.1\%$.	8320-00 each
SI231	Portable Wheatstone Bridge designed to provide an accurate and sensitive measurement of resistance and locating faults in cables by adopting the Murray and Varley loop circuit for tests. Range : 0-001 ohms to 11.11 megohms, Constantan coil, accuracy $\pm 0.1\%$.	6760-00 each
SI232	Kelvin Double Bridge for precise measurement of row resistance, capable of measuring resistance from 0.1 micro-ohm to 1.1 ohms. Ten standard resistance of manganin are provided in steps or o.ot orrm each in diar form with five murtipre ratio of 0-001, 0.01, 0.1, t anJ 10 ohms. The circular slide wire of 0.01 ohms is arso made from thick manganin wie having extremely low temperature coefficient. calibrated to ± 0.05 to 0.02% with heavy construction.	14820-00 each
SI233	Student Ketvin Bridge	7410-00 each

PANEL METER

Ammeter, Voltmeter, Galvanometer Moving Coil DC meters

Salient Features :-

1. Moving coil instruments used for measuring DC quantities. They can be used with AC system when fitted with bridge rectifiers.
2. Movement is pivoted between synthetic jewel bearing for negligible friction.
3. Zero adjuster accessible from front.
4. Anti Parrellex Mirror Scale for accurate reading.
5. The instrument confirms to I.S.,1248/1968.

SI234 **Ammeter** : DC mounted in beautiful bakerite/acrylic stand with accuracy $\pm 2.0\%$ F .S.D lock type terminals, packed in card box. All common ranges available.

Size	MO65	MR80	MR100
	Top Terminals	Delux Model	(80x100) Rectangular
	300-00	312-00	415-00 each

SI235 **Milliammeter** Same as ammeter. All common ranges available.

Size	MO65	MR80	MR100
	Top Terminals	Delux Model	(80x100) Rectangular
	300-00	312-00	415-00 each

SI236 **Micro-Ammeter** Same as above

	MO65	MR80	MR100
	Top Terminals	Delux Model	(80x100) Rectangular
1. 0 to 50uA	416-00	455-00	520-00
2. 0 to 100uA	403-00	442-00	507-00
3. 0 to 250uA	390-00	430-00	495-00
4. 0 to 500uA	377-00	416-00	480-00 each

SI237 **Voltmeter DC mounted** in beautiful bakelite/acrylic stand accuracy $\pm 2.0\%$ F.S.D. with lock type terminals, packed in card box. All common ranges available.

Size	MO65	MR80	MR100
	Top Terminals	Delux Model	(80x100) Rectangular
	300-00	312-00	416-00 each

SI238 **Millivoltmeter** Same as above.

Size	MO65	MR80	MR100
	Top Terminals	Delux Model	(80x100) Rectangular
	300-00	312-00	415-00 each

SS355	Voltmeter AC (Rectifier Type) Same as above.			
	Size	MO65	MR80	MR100
		Top Terminals	Delux Model	(80x100) Rectangular
		410-00	455-00	520-00
				each
SI239	Galvanometer DC mounted in beautiful bakelite/acylic stand with accuracy 2.0% F.S.D. with lock type terminals, packed in card box. Ranges available 30-0-30, 50-0-50.			
	Size	MO65	MR80	MR100
		Top Terminals	Delux Model	(80x100) Rectangular
		300-00	312-00	415-00
				each
SI240	Digital Panel Meter 3½ Digit display with 9 volt battery. Any range.			1430-00 each
SI241	Demonstration Meter Single Range			740-00 each
SI242	Spot Reflecting Galvanometer OSAW type with built-in lamp and scale arrangement, time period app. 1.8 second, Coil Resistance:			
	A. 100 Ohms B. 600 ohms.			5460-00 each
SI243	Multimeter a multi-range instrument for measurement of voltage, current and resistance, Moving coil meter having red pointer over two colour scale. Complete with test leads, probes and internal battery.			440-00 each
SI244	Ballistic Galvanometer OSAW type, for measurement of small quantities of electrical charge, robust and rigid in construction, easy to operate, provided with zero adjusting and locking devices. Coil resistance			
	a. 100 ohms b. 500 ohms			3160-00 each
SI245	Meter Stand Spare MO65			57-00 each
SI246	Lamp and Scale Outfit suitable for use with reflecting galvanometer, workable on 220 volts AC, complete with scale attachment, plug and cord.			2900-00 each
SI247	Lamp and Scale Outfit same as above but workable on 6 volts, provided with step down transformer.			3055-00 each
SI248	Ohm's Law App. to verify Ohm's Law, consists of one dial type rheostat, voltmeter 5 volt & milliammeter 500mA, mounted in spray painted metal box with terminals.			1480-00 each
SI249	Ohm's Law App. same as above but fitted with step down transformer giving 1,5,3,4,5, 6 volt, provided with lead wire.			1665-00 each
SI250	Ohm's Law Kit the kit consists of one board, one rheostat, one voltmeter, one ammeter and patch cords.			2340-00 each
SI251	Resistance In Series Kit the kit consists of one board, one rheostat, one voltmeter, one ammeter and patch cords.			2340-00 each
SI252	Resistance In Parallel Kit the kit consists of one board, one rheostat, one voltmeter, one ammeter and patch cords.			2340-00 each
SI253	Resistance in series & paralalled versatile instrument to verify ohms law as well as law of resistance in series & parallel, consists of two meter, five transparent resistance coils and a step down transformer giving 1.5,3,4,5 volts, housed in metal case & provided with on/off			

TANGENT GALVANOMETER

SS371	Tangent Galvanometer Aluminum having three standard windings 2,5, 50 or 2, 50, 500. The bakelite ring with windings is mounted on bakelite base with four terminals. The whole assembly rotates on a non magnetic leveling screws. Complete with compass box.	940-00 each
SI254	Tangent Galvanometer Brass same as above but with brass C.P. parts.	1380-00 each
SI255	Tangent Galvanometer Export Quality same as above but fitted with bigger brass cup , highly sensitive compass box with permanent magnet, aluminum tripod base fitted with lock type leveling screws.	2420-00 each
SI256	Helmholtz Galvanometer with two coils exactly alike and parallel, the coils increase the uniformity of the field and thus make it more sensitive, with brass C.P. parts and sensitive compass box.	1930-00 each
SI257	Stewart and Gee's App. to determine the variation of magnetic field along the axis of a coil. with 2 sets of coils 250mm dia having different number of turns and capable of carrying heavy current, mounted in metallic frame.	3460-00 each
SI258	Compass Box for tangent galvanometer with anti-parallel mirror and sensitive needle, packed in card box.	138-00 each
SI259	Compass Box Deluxe same as above with permanent magnet and stone agate bearing needle, highly sensitive, packed in card box.	208-00 each
SI260	Dynamo Gear Type AC/DC actual working model fitted on sunmica base with LED indicator and reversing switch, packed in card box.	533-00 each
SI261	Dynamo Wheel type (AC or DC) working model fitted on sunmica base with LED, packed in card box.	494-00 each
SI262	Dynamo Wheel Type AC and DC combined.	572-00 each
SI263	Dynamo Wheel Type same as above with shocking coil.	780-00 each
SI264	Motor-Cum-Dynamo it can work as a dynamo as well as motor, provided with U-shape magnet, LED with holder, provided with terminals, fitted on sunmica clad wooden base, packed in card box.	1000-00 each
SI265	Hydro Power Turbine mounted on sunmica clad wooden base, packed in card box.	780-00 each
SI266	Toothed Wheel mounted on wooden base.	195-00 each
SI267	Motor Wheel mounted on sunmica clad wooden base workable on 2-4 volt DC with newton colour disc, packed in card box.	286-00 each
SI268	Motor Expert Model fitted on wooden base with brass screws, packed in card box.	806-00 each
SI269	Newton Colour disc 6" hand operated, on metal base packed in card box.	208-00 each
SI270	Induction Coil In cabinet polish wooden box, coils are made from best quality enameled copper wire and paraffin insulation is provided throughout. Fitted with platinum contact with removable spark discharger. Complete with ON/OFF switch of primary and two lock terminals. Coils upto 15MM spark length are workable on 4-6 volts and rest on 6-12 volts DC.	
	Spark 10mm 15mm 20mm 25mm 50mm 75mm 100mm	
	length 1090-00 1155-00 1770-00 1950-00 3340-00 4640-00 5720-00 each	

SS389	Induction Coil with Transformer 25mm in cabinet polish wooden box.				2080-00 each
SI271	Self & Mutual Induction Coil : Consists of 3000 turns of 30 SWG cooper wire wound on a pool which is mounted on a wooden base.				1470-00 each
SI272	Copper Wire : Double cotton covered (D.C.C.) for connections.				
	S.W.G.	22	24		
		208-00	208-00		100 gm. each
SI273	Eureka Wire / Constantan Wire (Resistance Wire)				
	S.W.G.	22	24	26	
		285-00	285-00	285-00	100 gm. each
SI274	Nichrome Wire				
	S.W.G.	22	24		
		170-00	170-00		100 gm. each
SI275	Manganin Resistance Wire S.W.G. # 22				
			365-00		100 gm. each
SI276	Brass Wire				
	S.W.G.	22	24		
		200-00	200-00		100 gm. each
SI277	Steel Wire				
	S.W.G.	22	24		
		47-00	47-00		100 gm. each
SI278	DCC Copper Wire				
	S.W.G.	22	24		
		805-00	805-00		500 gm. each

FRictional and Current Electrify

SI279	Glass Rod 300mm x 3/8" dia.				13-00 each
SI280	Ebonite Rod 300mm x 3/8" dia.				29-00 each
SI281	Electrophorous brass disc with knob and ebonite handle, fitted on ebonite base.				180-00 each
SI282	Proof Plane with handle.				39-00 each
SI283	Gold Leaf Electroscope wooden, both side glass, top disc made of aluminium, packed in card box.				312-00 each
SI284	Gold Leaf Electroscope wooden, both side glass, top disc made of aluminium, packed in card box.				156-00 each
SI285	Gold Leaf Electroscope in conical flask.				130-00 each
SI286	Gold Leaf Electroscope metal case, provided with highly sensitive gold leaves, export quality, packed in card box.				640.00 each

SS406	Pith Ball Pendulum on stand with insulated arm on bakelite base.	76-00 each
SI287	Conductor Set of 3 made of brass, fitted on insulated stand with tripod base, provided with cone, sphere and cylinder.	500-00 each
SI288	Biots App. with one central sphere and two hemispherical covers with handle, dia 2".	260-00 each
SI289	Faradays Butterfly Net on insulated stand.	120-00 each
SI290	Simple Voltic Cell comprising of PVC jar 150x50mm, zinc and cooper plates, fitted on bakelite cover with LED, packed in card box.	325-00 each
SI291	Daniel Cell comprising of polished copper vessel with terminal, empty porous pot covered with cooper lid and a zinc rod, packed in card box.	520-00 each
SI292	Leclanche Cell comprising a thick plastic jar, charged porous pot and zinc rod, packed in card box.	325-00 each
SI293	Daniel Cell Electronic	1430-00 each
SI294	Leclanche Cell Electronic	1430-00 each
SI295	Water Voltameter with acylic jar on wooden base, provided with two glass tubes, in card box.	220-00 each
SI296	Water Voltameter with acrylic cup and two glass buretters.	650-00 each
SI297	Copper Voltameter complete in plastic jar.	338-00 each
SI298	Copper Plate heavy with brass terminal.	78-00 each
SI299	Zinc Plate heavy with brass terminal.	60-00 each
SI300	Zinc Rod with brass terminal 150 x 9mm.	89-00 each
SI301	Carbon Rod with brass terminal.	70-00 each
SI302	Copper Rod with brass terminal.	198-00 each
SI303	Daniel Cell Pot only.	240-00 each
SI304	Charged Porous pot 140 x 60mm.	120-00 each
SI305	Porous Pot Empty.	32-00 each
SI306	Good & Bad Conductor on base.	300-00 each
SI307	Electric-Non Electric Apparatus : Fitted with two carbon rods, LED and two terminals for DC supply.	156-00 each

ACCUMULATORS, BATTERY ELIMINATORS

SI308	Accumulator Mass type , 2 volts, plastic container with moulded lid and terminals.	
	(a) 20Ah Globe 495-00	(b) 45Ah Globe 700-00
		(c) 6 Volts, 7 Plates 910-00
		each
SI309	Crocodile Clip Red or Black.	7-00 each
SI310	Battery Clip steel C.P.	16-00 each
SI311	Dry Cell 10-G- 2volt capable for higher current for smaller duration.	416-00 each

SS432	Battery Eliminator with full bridge rectifier, transformer, rotary switch, on/off switch, workable on 220 volts AC mains, with safety fuse.				
	Current	Output			
	(a) 1 Amps.	2-12 volts DC			780-00 each
	(b) 2 Amps.	2-12 volts DC			936-00 each
	(c) 3 Amps.	2-12 volts DC			1120-00 each
SI312	Battery Eliminator AC/DC (Superior) : Same as above with a provision to get AC output voltage across two separate terminals with the help of same selector switch, thus the battery eliminator can be used as step down transformer also.				
	(a) 1 Amp.	2-12 volts AC/DC			1210-00 each
	(b) 2 Amp.	2-12 volts AC/DC			1326-00 each
	(c) 3 Amp.	2-12 volts AC/DC			1470-00 each
SI313	IC Regulated Battery Eliminator (Stabilised) a useful device with integrated circuits and heavy duty transformer. Output volput is provided through a selector switch, with jewel light, safety fuse and lock type terminals.				
	(a) Output 2-12 volts DC at	1 Amp.			2040-00 each
	(b) Output 2-12 volts DC at	2 Amps.			2420-00 each
	(c) Output 2-12 volts DC at	3 Amps.			2680-00 each
	Output 1.5-12 volts also available at above prices.				
SI314	Battery Charger workable on 230 volts AC with heavy transformer, bridge rectifier, ammeter, current control switch and safety fuse DC output 6/12 volts selectable.				
	1 Amp.	2 Amps.	3 Amps.		
	1027-00	1325-00	1480-00	each	
SI315	Automatic Battery Charger workable on 230 volts AC with built in solid state circuit to provide constant output voltage, with ammeter current control rheostat and safety fuse. Output 12 volts DC.				
	1 Amp.	2 Amps	3 Amps.	5 Amps.	
	1080-00	1390-00	1585-00	2130-00	each
SI316	Demonstration Transformer fitted in metal box.				
	Output 2,4,6,8,10,12 volts AC input-220 volt.				
	(a) 1 Amp.	(b) 2Amps.	(c) 3Amps.		
	780-00	1065-00	1170-00	each	

MICROMETER & SPHEROMETER

SI317	Micrometer Screw Gauge micrometer with ratchet stop, dull chromium plated brass body, accurately threaded C.P. rod . Packed individually in beautiful duplex box.				
	Size	10mm	15mm	20mm	25mm
	Pitch 1mm	150-00	180-00	200-00	220-00
	Pitch ½mm	160-00	187-00	208-00	230-00
					each
					each

SS439	Micrometer Screw Gauge same as above but provided with stainless steel rod packed in plastic case.				
	Size	10mm	15mm	20mm	25mm
	Pitch 1MM	203-00	230-00	265-00	300-00
					each
SI318	Micrometer Screw Gauge Morse and Wright type 25MM with stainless steel rod, provided with locking arrangement, packed in velvet box.				365-00 each
SI319	Demonstration Screw Gauge model 20cm long, made of silver alloy useful for class instruction, packed in velvet box.				860-00 each
SI320	Spherometer brass scale and disc, base fitted with threaded rod and legs, packed in printed duplex box.				
		1/100mm		1/1200mm	
		182-00		190-00	each
SI321	Spherometer same as cat. no. 1287 but with stainless steel rod and legs.				
		1/100mm		1/200mm	
		237-00		247-00	each
SI322	Spherometer Pye Type double disc heavy and superior quality packed in printed duplex box.				
		1/100mm		1/200mm	
		224-00		234-00	each
SI323	Spherometer Double Disc with stainless steel rod & legs.				
		1/100mm		1/200mm	
		280-00		290-00	each
SI324	Demonstration Spherometer Model disc dia 15cm, metal body, instructive model packed in card box.				860-00 each

VERNIER CALLIPER

SI325	Vernier Calliper with thumb wheel chrome plates 12.5 cm with depth gauge.	84-00 each
SI326	Vernier Calliper with thumb wheel C.P. packed in printed duplex box.	104-00 each
SI327	Vernier Calliper Stainless Steel with thumb wheel packed in velvet case.	408-00 each
SI328	Vernier calliper I.M.E. type in velvet case.	300-00 each
SI329	Demonstration Vernier Calliper model wooden polished 60 cm long with metal railing	520-00 each

MEASUREMENT

SI330	Analytical Weight Box strictly tested, presented in seasoned cabinet polished velvet lined box packed in printed duplex box.			
	Capacity	50gms.	100gms.	200gms.
	(a) Our tested	598-00	741-00	1066-00
				each
	(b) Tested by I.D.D.C.	1820-00	2340-00	3120-00
	(with certificate)			each

SI331	Physical Weight Box brass NP, cabinet polish wooden box, duly tested packed in printed duplex box.						
	Capacity	50gms.	100gms.	200gms.	500gms.	1000gms.	
		494-00	624-00	930-00	2340-00	4080-00	each
SI332	Physical Weight Box Iron C.P.						
	Capacity	100gms.	200gms.	500gms.	1000gms.		
		187-00	312-00	819-00	1482-00		each
SI333	Analytical Loose Weights brass C.P. tested.						
	1gm	2gms	5gms	10gms	20gms	50gms	100gms
	245-00	278-00	415-00	650-00	885-00	1196-00	2340-00
							doz.
SI334	Physical Loose Weights brass C.P.						
	1gm	2gms	5gms	10gms	20gms	50gms	100gms
	187-00	244-00	372-00	600-00	820-00	1120-00	2236-00
							doz.
SI335	Fractional Weight Box 1mg to 500mgm in plastic box. (Anchor)						31-00 each
SI336	Fractional Weight Box analytical tested B Grade in printed duplex box.						52-00 each
SI337	Fractional Weight Box analytical tested A Grade in printed duplex box.						75-00 each
SI338	Riders 5mg or 10mg.						18-00 each
SI339	Forceps brass heavy.						31-00 each

SLOTTED WEIGHTS

SI340	Slotted Weight Brass C.P., Set of 5 including hanger.						
	(a)	5gms x 5	25gms				94-00 set
	(b)	10gms x 5	50gms				156-00 set
	(c)	20gms x 5	100gms				268-00 set
	(d)	50gms x 5	250gms				468-00 set
	(e)	100gms x 5	500gms				936-00 set
SI341	Slotted Weight Iron CP set of 5 including hanger.						
	(a)	10gms x 5	50gms				75-00 set
	(b)	20gms x 5	100gms				94-00 set
	(c)	50gms x 5	250gms				117-00 set
	(d)	100gms x 5	500gms				240-00 set
SI342	Iron Slotted Weights Black painted set of five including hanger.						
	(a)	500gms x 5	2.5kg.				442-00 set
	(b)	1000gms x 5	5.0kg.				884-00 set

SI343	Slotted Weight superior quality made from Iron shaft, powder coated, dead accurate, rust proof & elegant looking			
	(a)	500gms x 5	2.5kg.	1120-00 set
	(b)	100gms x 5	5.0kg.	2240-00 set

SI344	Meter Scale made from seasoned wood, accurately graduated in cm with clear and fine divisions 'A' grade.			
		1 Meter	½ Meter	
		90-00	47-00	each

SI345	Meter Scale same as above 'B' grade.			
		1 Meter	½ Meter	
		78-00	39-00	each

BALANCES

SI346	Hydrostatic Balance Aluminum provided with third pan with hook, steel knife edges, adjustable height, capacity 250gm. wooden base.			702-00 each
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SI347	Hydrostatic Balance Brass same as above.			806-00 each
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SI348	Dispensing Balance double pan , packed in wooden box without weight.			
		50gm	100gm	
		702-00	858-00	each

SI349	Physical Balance with three stone edges, capacity 250gm. sensitivity 5mg. on wooden base with leveling screws, fitted in glass showcase.			1495-00 each
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SI350	Physical Balance Seven Stone made from selected stone agate, Varanasi type, in teakwood showcase with wooden base, capacity 200gms sensitivity 1mg, packed with thermocole in thick corrugated box.			2210-00 each
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SI351	Chemical Balance made from seven selected stone agate, Varanasi type, in teak wood showcase with wooden base, capacity 200gm sensitivity 1/10mg, packed with thermocole in thick corrugated box.			2470-00 each
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SI352	Analytical Balance most accurate with straight, extended beam and rider attachment, fitted in teak wood showcase with wooden base capacity 200gm sensitivity 1/10mg, packed with thermocole in thick corrugated box.			2470-00 each
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SI353	Tripple Beam Balance for direct reading with sliding riders, fitted on metal base, mass can be weighted with following facilities.			
	On Upper Scale	100mgm to 1gm		
	On the Beam	10mgm to 100gm		
	On Lower Scale	1gm to 10gm		
	Sensitivity	10 mgm		
	Capacity	111 gm		1820-00 each

SI354	Tripple Beam Balance same as above but capacity 310gm.			2040-00 each
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SI355	Barranger Balance moulded body , S.S. Pan, packed in card box.			
	Capacity	2kg	5kg	10kg

SS479	Personal Weighing Machine.	1482-00 each
SI356	Balance Bridge Wooden	47-00 each
SI357	Digital Balance top pan , digital display, battery/main operated.	5200-00 each

SPRING BALANCE

SI358	Spring Balance flat form, high impact polystyrene body with zero adjustment, anodised metal scale with clear and accurate divisions, high tension special steel wire spring is used for more durability, provided with ring & hock, packed in printed duplex box.					
	Capacity	100mg 39-00	250gm 39-00	500mg 42-00	1000mg 42-00	each
SI359	Spring Balance Acrylic tubular body in card box.					
	Capacity	100gm 94-00	250mg 94-00	500mg 94-00	1000mg 96-00	each

STOP CLOCK & WATCHES

SI360	Stop Clock smith type, fly back action, metal body with new machine, in card box.	624-00each
SI361	Stop Clock smith type (ESAL) fly back action in metal body.	1210-00 each
SI362	Stop Watch 1/5 & 1/10 mechanical.	2160-00 each

MECHANICS

SI363	Lever of Three Order set of three half meter scales on wooden stand, supplied without weights.	234-00 each
SI364	Inclined Plane 3" aluminum Arc 60cm long, fitted with glass plate with clamping arrangement to alter angle, angle, provided with frictionless pulley, metal roller, scale-pan and graduated arc, packed in card box.	663-00 each
SI365	Inclined Plane 3" Brass Arc same as above with brass arc 60x7.5cm,packed in card box.	870-00 each
SI366	Inclined Plane 4" Brass Arc export quality complete with roller and pan in card box.	1066-00 each
SI367	Friction Board App. 60cm long, fitted with glass plate, provided with frictionless pulley, wooden roller and pan.	520-00 each
SI368	Inertia App. all metal.	220-00 each
SI369	Inertia App. (Newton 1st Law) all metal big size export quality, packed in card box	390-00 each
SI370	Newton Third Law of Motion consisting of two identical wooden trolleys with bakelite feet and spring loaded axle.	247-00 each
SI371	Newton' Third Law of Motion consisting of two identical wooden trolleys with bakelite feet and spring loaded axle.	494-00 each
SI372	Newton's Cradle consists of heavy iron base and six iron bobs.	585-00 each
SI373	Inertia Bar solid brass bar with centre split chuck for clamping and suspending wire, size 30cms long and 1.5cm dia.	860-00 each
SI374	Inertia Disc a brass discs of 125cm dia 6mm thick has two holes drilled and tapped for chuck, one in centre and other along the edge of the disc.	2340-00 each

SS499	Inertia Disc as above with iron disc.	740-00 each
SI375	Inertia Table an aluminum tube of 150cm dia, accurately turned, supports three or more masses fitted into a groove concentric with the circumference. At its centre, it is supported by steel C.P. rods fitted on a heavy base with leveling screws.	1860-00 each
SI376	Simple Pendulum with iron ball about 5cms in dia. suspended by steel wire, clamp for altering of altering of the length, steel knife edge support and bracket for fixing to shelf.	600-00 each
SI377	Simple Pendulum Stand Type the apparatus consists of heavy metal base, iron rod, one set of clamp & boss-head, split rubber cork and 1" brass bob with thread.	715-00 each
SI378	Compound Bar Pendulum a powder coated steel bar 100x2.5cms bored at every 5cms and provided with 2 removable knife edges. Complete with powder coated wall bracket.	611-00 each
SI379	Compound Bar Pendulum brass strip C.P.	2300-00 each
SI380	Bifilar Pendulum consists of heavy cast iron rectangular plate having 6 holes. The plate is suspended by means of two strings of equal length from a rigid T-shaped support. Provided with heavy base and rod.	2055-00 each
SI381	Torsion Pendulum a carefully turned brass disc 125mm dia and 12mm thick is provided with split chuck in the centre. An aluminum ring of outside dia exactly 125cm has two pins which fit into two cavities in the disc so that edge of the ring is in flush with the edge of the disc	2160-00 each
SI382	Torsion Pendulum Iron Disc same as above with iron disc.	520-00 each
SI383	Double Inclined Plane consists of two inclined tracks, all wooden.	910-00 each
SI384	Kater's Reversible Pendulum consists of a steel C.P rod one meter long, carrying two sets of movable knife edges, hardwood weights are provided to compensate the air displacement	1380-00 each
SI385	Kater's Reversible Pendulum as above but all metal parts of brass chromium plated.	4680-00 each
SI386	Maxwell's Vibration Needle brass C.P. for experiments on rigidity. It consists of a small chuck carrying a mirror, 2 solid and 2 hollow cylinders, all 10cm long, fitted in the bore of the tube with graduated scale and vernier to read 0.05mm, without stand.	2600-00 each
SI387	Searl's Rigidity App. the 30cm long wire under test is connected to two brass rods 30cm long. Complete with test wires with connecting screws.	1430-00 each
SI388	Rigidity App. Stand.	1715-00 each
SI389	Bending of Beam App. comprising a metal C.P. bar one meter long resting on knife edges of two heavy table clamps, hanger with knife edge moves on metal bar, a spherometer fitted on cast iron stand with electric contacts is also provided.	1490-00 each
SI390	Torsion App. Searl's Horizontal Pattern consists of two cast iron feet, two supporting rods, one wheel with groove, moving on ball bearings is provided with chuck to hold the test rod, two aluminum scales with pointer are attached to specimen rod. (a) with half meter long rods and two scales. (b) With one meter long rods and three scales.	2520-00 each 3000-00 each
SI391	Torsion App. Searle's (Vertical Pattern) It consists of a mild steel frame mounted on a heavy cast iron base fitted with leveling screws. Three circular scales graduated in single degrees which are free to the side, can be clamped at any position on one of the frame uprights. Three pointers for clamping to the test rod are provided.	6240-00 each

SS517	Young's Modulus App. Iron Frame (Searle's) consists of two duco painted frames connected by a lin. The frames are fitted with self centering chucks provided with a spirit level, a spherometer, a cast iron ceilings attachment, a tension weight.	610-00 each
SI392	Young's Modulus App. Brass Frame (Searle's) same as above.	1200-00 each
SI393	Young's Modulus App. (Vernier Type) Simple but efficient app. consists or brass scale 10 cms long and vernier to read 1/10mm with V-slides clamps, guides for wire ceiling and tension weight.	650-00 each
SI394	Young Modulus of Metal Rod by interference Method the experimental rod carriers two metal plates of different points. These metal plates support a glass plate and a lens. One is on the top of the other adjusted by three springs and screws. On applying a load the rod bends slightly, increasing the distance between the plate and the lens. One is on the top of the other adjusted by three springs and screws. On applying a load the rod bends slightly, increasing the distance between the plate and the lens. Newton's rings are observed before applying the load. As the load is applied gradually the rings are observed before applying the load. As the load is applied gradually the rings run into the centre, disappearing one at a time. To the right is a microscope into the centre, disappearing one at a time. To the right is a microscope fitted with a micrometer eye piece scale for observing and making measurements upon the rings. The instrument is supplied w/o weight.	7800-00 each
SI395	Fly Wheel 20 cms in dia and 45 mm wide, turned and accurately balanced mounted on a horizontal shaft held in ball bearings. The wheel is marked and a pointer is fixed to the bracket. The bracket has four holes and can be fixed to the wall.	
	(a) Without Counter.	2010-00 each
	(b) With Counter.	2860-00 each
SI396	Parallelogram of Forces App. for verifying the relation between forces acting at a point, provided with two aluminum pulleys with clamp for mounting at any position, 45cm x 30 cm board wall type, complete with 3 sets of 50 gm x 5 iron slotted weights.	910-00 each
SI397	Parallelogram of Forces App. same as above, but on stand.	1040-00 each
SI398	Parallelogram of Forces App. all metal stand, board 40cm x 30cm both sides covered with sunmica, three sets of slotted weights & special export quality pulleys.	1950-00 each
SI399	Spring constant App. half meter scale with pointer, fitted on nicely painted iron base, provided with slotted weights.	780-00 each
SI400	K. Constant Spring App. improved design, large size without weight.	1690-00 each
SI401	Hook's Law app. fitted on stand with mirror scale 6" and hanger but without weights.	200-00 each
SI402	Pulleys Spare 37 mm all aluminum	
Single	Double Long or Parallel Tripple Long or Parallel	
55-00	109-00 164-00	
SI403	Pulleys Spare 37 mm aluminum with brass frame.	
	Single Double Long or Parallel Tripple Long or Parallel	
75-00	150-00 226-00	
SI404	Pulley Iron for parallelogram of forces app.	80-00 each

SS531	Pulley improved pattern all aluminum export quality.	160-00 each
SI405	Jack Screw Model simple form consisting of metal base fitted with a screw with thumb nut, all metal.	260-00 each
SI406	Wheels and Axle hardwood polished, comprising 2 grooved wheels 150 mm and 75mm diameter mounted jointly on wooden stand.	235-00 each
SI407	Pulley App. consist of a pair of pulley which can be used to decrease the magnitude of forces being exerted against the load.	585-00 each
SI408	Load X Load Arm (Lever App.) it consists of half meter screen printed metal strip with stone agate knife edge at the centre. Two plastic hooks are provided to carry the slotted weight. The apparatus is fitted on sheet metal base.	715-00 each

PNEUMATICS AND HYDROSTATICS

SI409	Air Pump Single Steel C.P. barrel on wooden base aluminum plate with stop cock. 12.5 cm 15cm 910-00 988-00	each
SI410	Magdeburg Hemisphere superior with stopcock and handle to demonstrate pressure of atmosphere, 7.5 cm dia iron cumps.	1170-00 each
SI411	App. to show pressure of Liquid (Simple Pascal Law) all metal.	190-00 each
SI412	Pascal Law App. 4 plastic vessels of different shapes mounted in brass collar.	1185-00 Each
SI413	Boyle's Law App. University pattern: two glass tubes held in clamps sliding on two steel C.P. rods fitted on wooden plank mounted on heavy cast iron base with levelling screws, supplied without mercury and ruber tubing.	860-00 each
SI414	Boyle's Law App. with two steel C.P. rods fitted on metal strip, regular quality, with two glass tubes, supplied without mercury and rubber rubing.	910-00 each
SI415	Over Flow Vessel G.I. Sheet Brass Plastic 99-00 166-00 31-00	each
SI416	Bucket and cylinder to demonstrate the Archimedes Principle, made from iron and brass CP 1½" 2" 94-00 122-00	each
SI417	Archimedes Principle App. complete with base, rod and spring balance.	650-00 each
SI418	Hare's App. with glass tube, fitted on wooden stand.	195-00 each
SI419	Hare's App. with glass tube and sliding arrangement.	260-00 each
SI420	U-Tube App. with glass tube, fitted on wooden stand.	195-00 each
SI421	U-Tube App. with glass tube and sliding arrangement.	260-00 each
SI422	Bell in Bell Jar Experiment it consists of a bell jar fitted with electric bell.	390-00 each

SURFACE TENSION & TERMINAL VELOCITY

SS550	Rising Table (Slow Motion Stand) a machine cast aluminum table 10cm dia having a stem of 12cm can be lowered or raised to desired height and it can be tightened with a thumb screw. In addition to this coarse movement, fine adjustment is provided by a flush in arrangement fitted on a heavy circular base with three leveling screw.	1430-00 each
SI423	Capillary Tube App. It consists of rising table. In this case three leveling screw of rising table are replaced by two leveling screw and one long rod to hold the capillary tube clamp.	1690-00 each
SI424	Surface Tension Balance (Searle's) for measuring surface tension of soap film or any transparent liquid, deflection of pointer on scale gives the reading, steel wire is stretched on a tripod stand. With tightening screw, scale-pan and side clip.	1520-00 each
SI425	Jaeger's Surface Tension App. this method is suitable for the purpose of studying the variation of surface tension with concentration of solution of common salt in water.	1300-00 each
SI426	Poiseuille's Viscosity App. with the help of this app. can find the coefficient of viscosity of water by noting its flow through a capillary tube of uniform bore	1675-00 each
SI427	Viscosity App. Stoke's Method a superior study app. 30mm bore one meter long borosilicate glass tube is made to stand vertically firm in between three upright bars on heavy cast iron base. Without glass tube.	1079-00 each
SI428	Borosilicate Glass tube for stoke App. graduated.	325-00 each
SI429	Viscometer (Searle's Pattern) the outer cylinder is clamped to its supporting pillar at various heights and the inner cylinder which is graduated revolves on a pillar fitted with two pulleys, complete with scale pan.	3120-00 each
SI430	Poisson's Ratio of Rubber App. consists of a cycle rubber tube of about one meter length with a small pointer, fitted on a heavy cast iron stand.	1675-00 each
SI431	Inertia Balance Kit	320-00 each
SI432	Centre of Gravity Toys set of three, all brass	300-00 each
SI433	Wooden stand for above	75-00 each

SOUND

SI434	Tunning Fork set of 8, frequencies 256 to 512 steel chrome plated, routine quality in velvet case.	210-00 set
SI435	Tunning Fork Pye Type , Bright chromium plated set of 8 in velvet case, superior.	325-00 set
SI436	Tunning Fork Ragg's Type , blue steel set of 8, in velvet case.	325-00 set
SI437	Tunning Fork Welch Type Medium bright chrome plated set of 8 in velvet case.	560-00 set
SI438	Tunning Fork Welch Type Massive special quality tested very accurate in velvet box.	1040-00 set
SI439	Tunning Fork Welch Type Aluminium highly accurate packed in moulded box provided with certificate.	2080-00 each
SI440	Rubber Pad for striking tunning fork	12-00 each
SI441	Rubber Hammer with Wooden handle for tunning Fork.	45-00 each

SS569	Resonance App. university pattern, steel C.P. tube and brass reservoir on heavy iron base good quality, without rubber tubing.	1170-00 each
SI442	Resonance App. same as above, superior quality on wooden plank with brass C.P. tube with brass reservoir, without rubber tubing.	1480-00 each
SI443	Melde's Apparatus consists of electrically maintained tuning fork, silk cord, pulley, stand and scale-pan, an electro magnet is placed between prongs of the fork, can be used in vertical or horizontal position.	2340-00 each
SI444	Melde's Apparatus same as above INCO pattern.	2730-00 each
SI445	Electrical Vibrator to determine the frequency of AC mains e.m.f. of cells and capacity of condenser, supplied with solenoid and horse shoe magnet.	1145-00 each
SI446	Vibrating Bar 30 cm long adjustable CP bar fitted on base to determine the frequency of AC mains, workable on 6 volts DC battery.	1720-00 each
SI447	Sonometer (Aluminum) nicely polished with metal fittings, provided with two wooden riders and 3 different wires each 100cm long. aluminum fittings, supplied without wts.	820-00 each
SI448	Sonometer (Brass) same as above but brass fittings without weights.	1040-00 each
SI449	Electro Magnet and Transformer for sonometer.	1040-00 each
SI450	Wave motion Apparatus with aluminium discs fitted on nicely polished wooden base: 18 Pulleys 24 Pulleys 1027-00 1170-00	each
SI451	Wave Motion Apparatus New Type this model consists of wooden base with aluminum frame and plastic spheres, when light from the projector is focused on the model, shadow of spheres forms a sine wave which can be projected on a wall or a screen.	715-00 each
SI452	Ripple Tank consists of an enameled M.S. sheet frame with four adjustable legs, complete with all the accessories and working instructions. a. 30x30 cm b. 45x45cm 1027-00 1560-00	each
SI453	Reflection of Sound App. on wooden base.	210-00 each
SI454	Reflection of Sound App. Big on wooden base.	755-00 each

HEAT

SI455	Ring & Ball Apparatus it consists of a brass ring fitted on brass rod with wooden handle and a brass ball attached by chain. Ball size 18mm Ball Size 25 mm 94-00 247-00	each
SI456	Ring & Ball Apparatus on stand 18mm 25 mm 208-00 312-00	each

SS585	Compound Metal Strip (Bimetallic) two different metals rivetted together end to end, with wooden handle, size 30 cms.				
	Iron & All.	Iron & Brass	Iron & Copper	Brass & Copper	
	55-00	65-00	70-00	78-00	each
SI457	Pullinger's Linear Expansion App. 50cm long, with spherometer and three test rods of different Metals.				
	a) With Brass C.P. Pipe.				1080-00 each
	b) With Steel C.P. Pipe				870-00 each
SI458	Co-efficient of Linear Expansion App. horizontal type, specially designed to measure the linear expansion of metals with the help of spherometer, provided with three test rods of different metal.				
	a) With Brass C.P. Pipe				1430-00 each
	b) With Steel C.P. Pipe				1160-00 each
SI459	Newton's Law of Cooling with two aluminum calorimeters hung inside a double walled tin tank fitted with a wooden top with 2 holes for thermometers.				
	G.I. Sheet	Brass Sheet			
	390-00	1000-00			each
SI460	Newton's Law of Cooling App. University Pattern set of two units, brass C.P. Superior				1600-00 each
SI461	Newton's Law of Cooling App. Single vessel type, brass.				780-00 each
SI462	Searle's Thermal conductivity App. It consists of a copper rod with its one end surrounded with a steam jacket for heating it from a boiler and the other end is kept cool by a stream of water floating through a spiral tube fitted to that, without thermometers.				
	a)	30cm x 1.8 cm copper rod			3380-00 each
	b)	30cm x 2.5 cm copper rod			4160-00 each
SI463	Conductivity App. Lee's and chariton's for determining the relative conductivity of thin layers of material, consists of cylindrical slab 11.5cm in dia 12mm thick. On this rests a 5cm deep hollow cylinder of the same dia with inlet tubes for steam, supplied without thermometer.				3770-00 each
SI464	Callender and Barne's Continous Flow Calorimeter the apparatus consists of glass tube carrying inside a spiral of wire. A steam of water is made to flow through the glass tube and heated by the spiral by passing electric current. the whole apparatus is fitted on a polished teak work board. Complete with constant level tank but w/o thermometers.				1150-00 each
SI465	Constant Level Tank on Stand				380-00 each
SI466	Glazebrook and Shaw's Calorimeter (Regnault Calorimeter) improved with water cooled jacket below the steam heater to prevent radiation.				1287-00 each
SI467	Copper Calorimeter vessel of copper in outer wooden case, with thermometer holder and stirrer, well insulated, in card box.				
	3" x 2"	4" x 3"			
	273-00	468-00			each

SS597	Joul's Electrical Calorimeter consists of a copper vessel with outer box of superior wood fitted with ebonite top with holder for thermometer. the terminals are connected to a coil of wire for 3 amps. Complete with stirrer.		
	3" x 2"	4" x 3"	
	312-00	533-00	each
SI468	Steam Boiler Copper		
	1 Litre	2 Litre	
	468-00	923-00	each
SI469	Steam Generator or Heater heavy body of copper and brass tube		
	Medium Size	Large Size	
	988-00	1365-00	each
SI470	Hope's Apparatus		
	G.I. Sheet	Brass	Copper
	260-00	520-00	845-00
			each
SI471	Stefan's Radiation Constant Apparatus consists of blackened hollow hemisphere fitted in wooden board, a steam chamber above the hemisphere to measure the temperature, copper-constant themocouple is housed in ebonite tube.		
			6240-00 each
SI472	Hypsometer copper		
	Medium	Large	
	377-00	554-00	each
SI473	Mechanical Equivalent of heat App. (Searle's) in this compact self contained apparatus heat is produced by friction between two concentric close fitting brass cones, one of which is maintained stationery by means of weight and force pulley, while other is rotated by a geared hand wheel. The wheel is grooved so that it my be rotated by a motor is desired.		
	a) Disposal Counter		7800-00 each
	b) Imported Counter		8920-00 each
SI474	Oxygen Generating tube brass with delivery tube screwed, soldered joints.		
			235-00 each
SI475	Conductivity of Metal Strip four metal strips fixed on a wooden ring with from edges meeting at the centre.		
			75-00 each
SI476	Spherical Calorimeter 50 mm dia copper painted.		
			160-00 each

COMBUSTION ENGINES

SI477	Steam Engine Sectional Working Model can be operated by compressed air. All the working parts made visible by fitting a glass plate on the chamber. Aluminum Parts.		
			2600-00 each
SI478	Steam Engine working Model Boiler Type with heater packed in corrugated box.		
			3040-00 each
SI479	Petrol Engine vertical flask type demonstration model, on metalk base, packed in card box.		
	a) Two stroke		2080-00 each
	b) Four stroke		2785-00 each
SI480	Diesel Engine vertical flask type demonstration model, on metal base, packed in card box.		
	a) Two stroke		2080-00 each

THERMOMETER

SS612	Chemical Thermometer (Delux) Mercury filled by heat process, packed in card box.				
	Range	50° C	110° C	250° C	360° C
	1° or ½°	80° C	220° F	400° C	600° C
		530-00	530-00	577-00	577-00
					doz
SI481	Chemical Thermometer (Alcohol Filled)				
	Range	50° C	110° C		
	1° or ½°	80° C	220° F		
		360-00	360-00		
					doz
SI482	Chemical Thermometer with imported yellow back capillary.				
	Range	50° C	110° C	250° C	360° C
	1° or ½°	80° C	220° F	400° C	600° C
					80-00 each
					80-00 each
SI483	Precision Thermometer Delux mercury filled by heat process.				
	a)	-10 to 50° C x 1/5	18 inches		65-00 each
	b)	-5 to 50° C x 1/10	18 inches		100-00 each
	c)	-5 to 110° C x 1/5	18 inches		100-00 each
	d)	-5 to 110° C x 1/5	18 inches		110-00 each
SI484	Immersion Thermometer mercury filled by heat process				
	Range	24"	36"		
	a) 110° C x 1/1	86-00	213-00		each
	b) 250° C x 1/1	86-00	213-00		each
	c) 360° C x 1/1	86-00	213-00		each
SI485	Wall Thermometer 20 cms in length, packed in individual duplex box				
					75-00 each
SI486	Wall Thermometer Demonstration Red Spirit filled.				
	50 cm long	100 cm long			
	280-00	520-00			each
SI487	Dry / Wet Thermometer superior quality packed in printed duplex box.				
					180-00 each
SI488	Maximum & Minimum Thermometer packed in printed duplex box.				
					180-00 each
SI489	Maximum & Minimum Thermometer imported yellow capillary.				
					650-00 each
SI490	Clinical Thermometer (C&F) prismatic capillary, imported glass, screen printed, 94°F to 108°F or 43°, accurate.				
					40-00 each
SI491	Lactotern.				
					690-00 each
SI492	Pocket Thermometer in plastic case.				
					120-00 each
SI493	Ship Thermometer in case				
					320-00 each

HYDROMETER

SS626	Hydrometer Heavy 1000 to 2000	52-00 each
SI494	Hydrometer Light 700 to 1000	52-00 each
SI495	Beaumes Hydrometer in card box	
	0.10 10-20 20-30 0 -30	80-00 each
SI496	Hydrometer for Diesel 800 to 850 in card box.	62-00 each
SI497	Hydrometer for Petrol 700 to 750 in card box.	80-00 each
SI498	Alcoholometer 15°C Range 0 to 100	115-00 each
SI499	Universal Hydrometer for light & heavy liquid with lead shots, range 700 to 2000.	112-00 each
SI500	Soil Hydrometer Range 995 to 1030 in box	182-00 each
SI501	Battery Hydrometer Small Big	
	88-00 221-00	each
SI502	Brix Hydrometer with thermometer	360-00 each
SI503	Wine Testing Set for Sugar Industries	1080-00 each

MAGNETISM

SI504	Bar Magnet powerful alnico alloy permanent magnet with ground surface thickness 8x12 mm	
	Size 50mm 75 mm 100 mm	
	170-00 260-00 338-00	pair
SI505	Bar Magnet ALNICO (Cobalt Steel) alloy in pairs with keepers in beautiful card box.	
	Size 50mm 75 mm 100 mm 150mm	
	117-00 182-00 235-00 351-00	pair
SI506	Bar Magnet extra powerful alnico alloy permanent magnet with ground surface, thickness 10x15mm	
	Size 50mm 75 mm 100 mm	
	300-00 442-00 598-00	pair
SI507	Horse Shoe Magnet alnico Alloy permanent powerful.	
	Size 50mm 75 mm 100 mm	
	170-00 247-00 338-00	pair
SI508	Horse shoe Magnet steel with ground surface	
	Size 50mm 75 mm	
	44-00 78-00	pair
SI509	Cylindrical Magnet Alnico	
	Size 50mm 75 mm 100x10mm	
	130-00 195-00 260-00	pair

SS643	Electromagnet U-shaped soft iron core, wound with insulated copper wire, with bare ends, working on 6 volt DC.				
	Size	75mm	100mm		
		75-00	88-00		each
SI510	Ball Ended Magnet				210-00 per pair
SI511	Solenoid on wooden base.				520-00 each
SI512	Vibration Magnetometer in soft wood box duly polished.				
	(a) With Aluminum fittings.				780-00 each
	(b) With Brass fittings.				965-00 each
SI513	Deflection Magnetometer Laminated Board completed with compass.				650-00 each
SI514	Deflection Magnetometer (metal) same as above but provided with non magnetic metallic frame instead of wooden base.				2450-00 each
SI515	Deflection compass anti-parallel mirro and sensitive needle.				145-00 each
SI516	Deflection compass same as above with permanent magnet.				210-00 each
SI517	Dip circle simple form fitted on wooden frame glass case. A circular scale graduated in degrees is attached to the pillar carrying the needle. Pointer is provided for reading the scale on the metal base with leveling screws, aluminum parts.				1430-00 each
SI518	Dip circle standard heavy and sturdy construction comprising an extra sensitive needle mounted on practically frictionless bearing and moving in vertical plane offer an engine divided circular scale, enclosed in duco painted metal case, fitted with hardened steel pivot.				2860-00 each
SI519	Dip circle delux model with superior fittings and lighting arrangement to stop the needle movement when not in use with the help of a lever screw.				4160-00 each
SI520	Earth inductor improved form. Coil of insulated copper wire is wound on metal ring. a spring is arranged to turn the ring quickly through 180° the coil is automatically caught. Terminals for connection are fitted on cradle.				
	Size	500 turns	1000 turns	2000 turns	5000 turns
		5330-00	5720-00	5980-00	7800-00
					each
SI521	Magnetic Field App. the app. consists of solenoid having 3 coils of 5, 10, 15 turns of insulated copper wires on wooden base.				480-00 each
SI522	Induced current App. rod type app. having primary and secondary coil, fitted on wooden base, packed in corrugated box.				595-00 each
SI523	Induced Current App. mounted on base with bulb, packed in card box.				700-00 each
SI524	Faraday's Law App. this apparatus explains the principle of electromagnetic induction, which says that magnetic field can produced electric current. The apparatus can work in three positions.				910-00 each
SI525	Electric Bell Demonstration all parts easily visible, mounted on sunmica board workable 4-6 volt D.C.				340-00 each
SI526	Orested App. on base packed in card box.				325-00 each

SS661	Lifting Magnet workable on 4-6 volt DC							560-00 each
SI527	Magnetic Compass pye type 18mm both side glass packed in card box.							15-00 each
SI528	Magnetic compass highly magnetised needle in aluminum body.							
	Size	12mm	18mm	25mm	50mm	75mm	100mm	
		86-00	172-00	208-00	260-00	560-00	806-00	Doz.
SI529	Mariner's Compass (Jimble) with floating dial all aluminum polished.							260-00 each
SI530	Dip Needle with graduated aluminum are size 75mm. The needle carefully balanced in sheet pivot.							380-00 each
SI531	Magnetic Needle		3"		4"			
			156-00		208-00			doz
SI532	Magnetic Needle superior with stone agate centre, length 75mm							80-00 each
SI533	Magnetic Needle Stand :		Plastic		Metal			
			16-00		23-00			each

BAROMETER

SI534	Fortine's Barometer Brass with Metric and English system scales reading 25" to 32" and 64cm to 81cm with reflector behind scale and cistern. Vernier operating with rack and pinion, reads 0.1" and 0.1cm, with brass pipe and brass fittings, without mercury with borosilicate glass tube, fitted on wooden base.		1580-00 each
SI535	Fortin's Barometer Aluminum same as above but with aluminum pipe and aluminum fittings with borosiliate glass tube.		1485-00 each
SI536	Thermometer Metal for Barometer.		210-00 each
SI537	Barometer Glass Tube borosiliate glass, packed in card box.		160-00 each
SI538	Wooden case for Fortin's barometer.		
	Soft Wood	Teak Wood	
	884-00	1560-00	each
SI539	Aneroid Barometer wall type		260-00 each
SI540	Aneroid Barometer demonstration type in transparent case.		520-00 each
SI541	Mercury Purified packed in plastic bottle, sealed, 500gms.		2420-00 bottle
SI542	Rain Gauge App. with measure of polythene.		
	G./I. Sheet	Brass Sheet	S.S. Sheet
	221-00	858-00	728-00
			each
SI543	Wind Vane cock shaped with N.E.S.W. point on stand, medium size, tine painted.		260-00 each
SI544	Wind Vane large on heavy metal stand.		1000-00 each
SI545	Wind Vane heavy ball bearing type on heavy metal base.		1850-00 each

SS681	Rain Gauge Self Recording Type spring balance type, comprises of brass receiver placed on teh top of a sensitive dial pattern machine.				1920-00 each
SI546	Anemometer Cup Type				5200-00 each
SI547	Cube of Metals set of 6 different metal cubes.				
	10 mm	20mm	25mm		
	174-00	562-00	1040-00		Set
SI548	Cylinder of Metals set of 6 different metal cylinders.				
	25 x 12mm	37 x 12 mm	50 x 12 mm		
	234-00	325-00	494-00		Set
SI549	Pendulum Bob set of 6 different metal bobs with brass hook.				
	12mm	18mm	25mm		
	138-00	260-00	520-00		Set
SI550	Pendulum Bob or sphere with hook.				
		12mm	18mm	25mm	
	Brass	312-00	663-00	1340-00	doz
	Copper	767-00	1248-00	2495-00	doz
	Alu. or iron	174-00	247-00	416-00	doz
	Lead	208-00	484-00	832-00	doz
	Zinc	242-00	458-00	832-00	doz
SI551	Geometrical Figures 3” wooden, set of 16 in box.				315-00 each
SI552	Geometrical Figures set of 12, wooden 12x6 inch.				1890-00 each
SI553	Geometrical Figures set of 12, made from fibre glass 6 x 3 inch.				1300-00 each
SI554	Geometrical instrument box a pair of set squares, protector, compass, divider and duster houses in a box, all made from seasoned Haldu wood.				
	Superior Quality	Routine Quality			
	755-00	635-00			each
SI555	Geometrical Instrument Box Plastic superior quality				700-00 each
SI556	Geometrical Instrument Box Plastic medium quality				445-00 each
SI557	Drawing Board made from seasoned soft wood				
	18”x12”x5/8”	23”x16”x5/8”	24”x18”x5/8”		
	247-00	480-00	560-00		each

CHEMISTRY



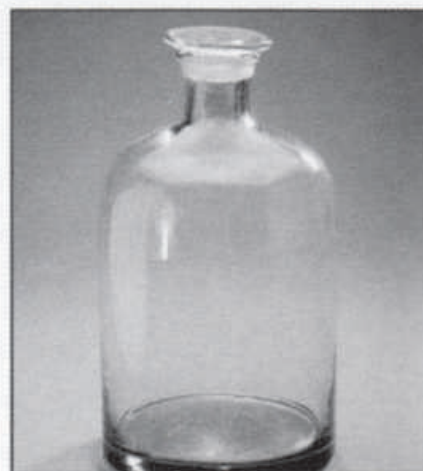
Centrifugal Machine



Centrifugal Machine (Doctor Model)



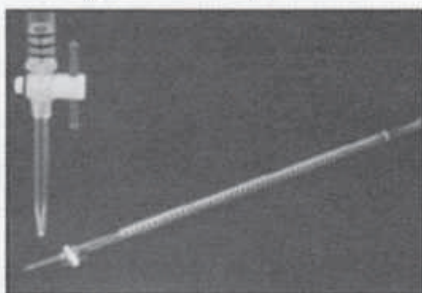
Bunsen Burners



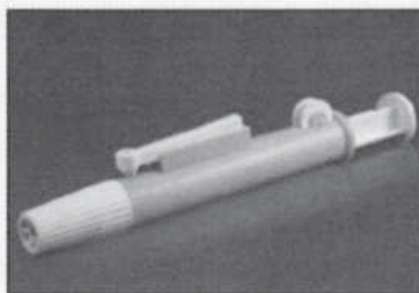
Winchester Bottle (S.G.)



Beakers



Burette



Pipette Pump



Dropping Bottles



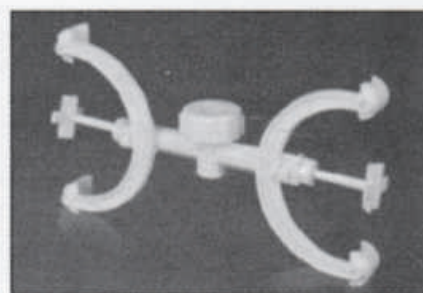
Test Tube Basket



Aspirator Bottle



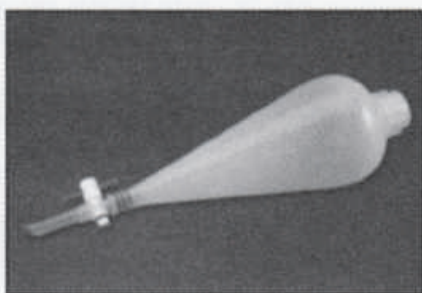
Wash Bottles (New Type)



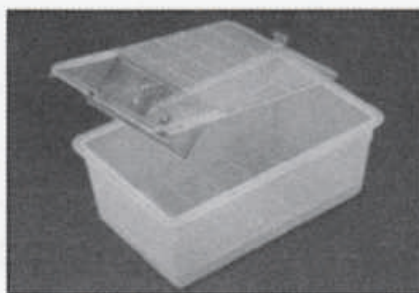
Fisher Clamp



Funnel Holder



Separatory Funnel



Animal Cage



Dessicator (Vaccum)

BURNERS & GAS TAPS

SS694	Bunsen Burner Mansfield Type wide & stable base provided with threaded air regulator with collar, fitted on nicely duco painted heavy cast iron base, packed individually in printed duplex boxl.				200-00 each
SI558	Bunsen Burner with stop cock same as above with stop cock.				290-00 each
SI559	Bunsen Burner with threaded air regulator routine quality.				145-00 each
SI560	Semi Micro Burner brass parts on iron base.				150-00 each
SI561	Fish Tail Burner on cast iron base.				250-00 each
SI562	Teclu Burner on deco painted cast iron base.				485-00 each
SI563	Mecker Burner brass lacquered with ceramic grid cap to provide a wide flame.				
	18mm	25mm			
	416-00	624-00			each
SI564	Mecker Burner with stop cock.				
	18mm	25mm			
	520-00	695-00			each
SI565	Water Taps brass neck type brass metal C.P. leak proof.				
	One way	Two way	Three Way		
	860-00	1770-00	1780-00		each
SI566	Gas Taps brass C.P. guaranted leak proof in card box.				
	One way	Two way	Three way	Four Way	
	440-00	460-00	555-00	690-00	each
SI567	Filter Pump Brass Edward type 1.5 cm dia.				320-00 each

CORK BORERS

SI568	IndiaCork Bore rn Pattern with handle brass C.P.				
	Set of 3	Set of 6	Set of 12		
	57-00	130-00	630-00		Set
SI569	Cock Borer German Pattern with handle brass C.P.				
	Set of 3	Set of 6	Set of 12		
	112-00	286-00	1105-00		Set
SI570	Cork Borer German Pattern Heavy made from thick brass pipe, with strong handle, of six borers in velvet box.				650-00 set
SI571	Cork Borer German Pattern Heavy made from thick brass pipe, with strong handle, set of 12 in velvet box.				1485-00 each

CENTRIFUGAL MACHINE

SS709	Centrifugal Machine hand operated metal parts with clamp aluminum body superior quality with plastic tubes.			
	Two Tubes 533-00	Four Tubes 600-00		each
SI572	Centrifugal Machine improved design a hand driven machine consisting of a cast iron base enclosing a steel pinion and worm drive, complete with removable crank handle with plastic tube 15ml each.			
	Two Tubes 1200-00 each	Four Tubes 1220-00		
SI573	Centrifugal Machine 4-Tube electrically operated, swing out head with speed regulator. 4x15ml plastic tubes.			3000-00 each
SI574	Centrifugal Machine 6-Tube same as above, with 6 tubes.			3140-00 each
SI575	Burette Clamp Fisher type made from thick steel sheet die pressed powder coated, staple grew finish.			
	Single Burette 73-00	Double Burette 143-00		each
SI576	Burette Clamp brass oxidised angle type, cork lined with boss head.			115-00 each
SI577	Universal Condenser Clamp brass oxidised with cork lined half round cylindrical jaws with boss head.			105-00 set
SI578	Three Finger Clamp made from aluminum, stampl colour, iron rod, finger covered with rubber tubing.			205-00 each
SI579	Boss Head cast iron, black wrinkle painted.			60-00 each
SI580	Boss Head Oxidised.			25-00 each
SI581	Boss head aluniminum stampl painted.			80-00 each
SI582	Boss Head heavy duty brass casting.			110-00 each
SI583	G. Clamp for clamping any thing on the table.			
	50mm 112-00	75mm 165-00	100mm 235-00	each

RETORT STAND

SI584	Retort Stand Sheet Metal thick iron sheet 12 SWG, die pressed base and thick rod, powder coated stampl colour, having wire for extra tightening of rod, packed in card box.			
	6"x4"x18" 182-00	7"x5"x24" 247-00	8"x5"x24" 273-00	9"x6"x30" 365-00 each
SI585	Retort Stand cast Iron heavy cast iron base with hammertone paint and iron C.P. rod 12mm thick.			
	6"x4"x18"	7"x5"x24"	8"x5"x24"	9"x6"x30"

SS724	Retort Stand light cast iron base with hammertone paint and zinc plated.				
	6"x4"x18"	7"x5"x24"	8"x5"x24"	9"x6"x30"	
	138-00	182-00	242-00	338-00	each
SI586	Tripod stand with duco painted triangular top and zinc plated rods with plastic feet, packed in card box.				
	6"x4"	8"x4"			
	70-00	83-00			each
SI587	Retort Ring with Boss head.				
	2"	3"	4"		
	88-00	94-00	112-00		each
SI588	Spirit Lamp Aluminum die pressed 4 oz.				
	Jointless		Jointed		
	44-00		29-00		each
SI589	Spirit Lamp Brass 4 oz.				
					105-00 each
SI590	Spirit Lamp Stainless Steel 4 oz.				
					55-00 each
SI591	Blow Pipe Brass C.P.				
	6"	8"	10"	12"	
	185-00	224-00	265-00	312-00	doz
SI592	Deflagrating Spoon all brass.				
					32-00 each
SI593	Test Tube Holder Flat form with wooden handle.				
	Iron	Brass			
	94-00	312-00			doz
SI594	Test Tube Holder Cross Pattern Iron C.P.				
					170-00 doz
SI595	Test Tube Holder Stainless Steel				
					40-00 each
SI596	ESR Stand powder coated				
	3 Tubes	6 Tubes			
	260-00	286-00			each
SI597	Crucible Tong C.P.		6"	8"	
	Iron	31-00	42-00		
	Brass	130-00	170-00		each
SI598	Wire Gauge 6"x6" with asbestos coating in centre.				
	No.1	No.2			
	343-00	94-00			doz
SI599	Wire Gauge in metal frame 6"x6" Superior.				
					114-00 doz

SS739	Spatula Stainless Steel flat at one end and spoon at other end.				
	4"	6"	8"		
	91-00	104-00	166-00		each
SI600	Platinum Wire Fused College type tested (EKI)				115-00 each
SI601	Platinum Loop School type in test tube.				16-00 each
SI602	Platinum Loop Holder brass rod and chuck with bakelite handle.				65-00 each
SI603	Watch Glass uniformly moulded ground edge, well packed in card box. (Superior)				
	50 mm	75mm	100 mm		
	34-00	62-00	122-00		each
SI604	Water Bath concentric rings, copper die pressed and polished hemispherical type with handle.				
	4"	5"	6"	8"	
	220-00	260-00	338-00	520-00	each
SI605	Pinch Clip Mohr's Type made of thick iron wire.				52-00 doz
SI606	Hoffman screw clip iron.				16-00 each
SI607	Pinch Clip with Thump (Tikri)				65-00 doz
SI608	Magnesium Metal Ribbon 25gm				60-00 coil
SI609	Copper Turning.				1340-00 kg
SI610	Zinc Granules packet of 500 gm.				485-00 pkt
SI611	Spirit Level with sunmica top 6" Wooden.				30-00 each
SI612	Spirit Level all brass.		3"	4"	
			86-00	120-00	each
SI613	Lead Shots.				650-00 kg
SI614	Litmus Paper Indica Red / Blue				35-00 pkt
SI615	Filter Paper Round		11 cm	12.5 cm	
			29-00	31-00	pkt
SI616	Test Tube Brush				6-00 each
SI617	Test Tube Brush Superior				14-00 each
SI618	Burette Brush Superior				36-00 each
SI619	Nickle Spatula 6"				46-00 each
SI620	Silica Crucible		15mm	25mm	50mm
	Without Lid		205-00	242-00	465-00 each
	Only Lid		205-00	242-00	465-00 each
SI621	Plastic Cell Holder Box		Two Cell	Four Cells	
			36-00	47-00	each

SS762 **Rubber Tubing** suitable for general laboratory use, soft and strong coil of 10 meters tubing.

	Bore in mm	Wall thickness in mm	
A)	4.0	1.0	130-00 coil
B)	5.0	1.0	170-00 coil
C)	6.0	1.5	200-00 coil
D)	8.0	1.5	285-00 coil
E)	10.0	2.0	425-00 coil
F)	12.5	2.5	560-00 coil

SI622 **Pressure Rubber Tubing :**

	Bore in mm	Wall thickness in mm	
A)	3.0	3.0	340-00 coil
B)	4.5	3.0	415-00 coil
C)	6.0	3.0	500-00 coil
D)	8.0	3.0	600-00 coil
E)	9.0	3.0	670-00 coil
F)	12.56	4.5	1340-00 each

SI623 **Rubber Corks** Special quality, extra soft, red coloured.

	Top dia mm	Botton Dia	Height	Size No.	
(a)	11	9	17	0	150-00 100 pc
(b)	14	11	19	1	200-00 100 pc
(c)	16	13	20	2	240-00 100 pc
(d)	19	15	23	3	275-00 100 pc
(e)	20	16	24	4	325-00 100 pc
(f)	22	17	25	5	410-00 100 pc
(g)	24	18	26	6	550-00 100 pc
(h)	25	19	28	7	625-00 100 pc
(i)	26	21	28	8	730-00 100 pc
(j)	27	22	30	9	900-00 100 pc
(k)	29	24	32	10	1130-00 100 pc
(l)	32	27	33	11	1130-00 100 pc
(m)	34	29	35	12	1410-00 100 pc
(n)	37	30	38	13	2230-00 100 pc
(o)	41	32	43	14	2550-00 100 pc
(p)	42	37	43	15	2550-00 100 pc
(q)	48	42	43	16	2570-00 100 pc
(r)	55	42	41	17	3190-00 100 pc
					extra charges for one hole. 45-00 per 100
					extra charges for two holes. 90-00 per 100

ROCKS & MINERALS

SS765	Minerals Set of 30 in showcase packed in card box.	240-00 each
SI624	Rocks set of 20 in showcase packed in card box.	240-00 each
SI625	Metallic Ores Set of 20 in showcase packed in card box.	240-00 each
SI626	Metal and Alloys Set of 24 in showcase packed in cad box.	340-00 each
SI627	Types of Metals in showcase	320-00 each
SI628	Types of Glass in showcase.	210-00 each

HOT AIR OVENS

SI629	Universal Oven (Memert Type)		
	Temperature upto 250°C Accuracy $\pm 1^\circ\text{C}$		
	Double walled, inner chamber of anodised aluminum / stainless steel sheet heating element on three sides, provided with thermostat.		
	Inner Chamber Size.	All	S.S.
	300x300x300mm (12"x12"x12")	7460-00	11050-00 each
	350x350x350mm (14"x14"x14")	8320-00	11780-00 each
	450x450x450mm (18"x18"x18")	11440-00	15600-00 each
	600x600x600mm (24"x24"x24")	18380-00	27820-00 each
SI630	Incubators (Bacteriological)		
	Memert type. Temperature from room temp. to 80°C. Double walled and single door with glass window. Inner chamber of anodised aluminium / stainless.		
	Steel Sheet	All	S.S.
	300x300x300mm (12"x12"x12")	7670-00	11180-00 each
	350x350x350mm (14"x14"x14")	8660-00	12220-00 each
	450x450x450mm (18"x18"x18")	11780-00	15940-00 each
	600x600x600mm (24"x24"x24")	18382-00	28420-00 each
SI631	Water Still (Automatic) made of stainless steel, provided with wall bracket.		
	Cap. per Hour.	Rating KW	
	(a) 2 Litre	1.5 KW	4940-00 each
	(b) 4 Litre	3.0 KW	7280-00 each
SI632	Heating Mantales		
	Capacity	Watts	Circuits
	(a) 50 ml	60	1 1300-00 each
	(b) 100 ml	60	1 1300-00 each
	(c) 250 ml	150	1 1560-00 each
	(d) 500 ml	200	1 1690-00 each
	(e) 1 Ltr.	300	1 2000-00 each
	(f) 2 Ltr.	450	1 2340-00 each

	(g)	3 Ltr.	450	1	2730-00 each
	(h)	5 Ltr.	600	1	3770-00 each
	(i)	10 Ltr.	2x500	2	5720-00 each
SI633	Water Bath Serological thermostatically controlled, double walled, temperature upto 65° accuracy $\pm 5^{\circ}\text{C}$, without racks, working chamber made of stainless steal.				
		300x250x175mm (12"x10"x7")			5900-00 each
		450x300x175mm (18"x12"x7")			4700-00 each
SI634	Water Bath Rectangular thermostatically controlled, double walled.				
	(a)	6 holes			6240-00 each
	(b)	12 holes			8500-00 each

HOT PLATE (LABORATORY)

SI635	Hot Plate Round 8" .dia (20cm) electrically operated, round plate made of cast iron and body made of thick mild steel.				1770-00 each
SI636	Hot Plate Round Double two round plates of 20cm dia each.				3540-00 each
SI637	Hot Plate Rectangular electrically operated, complete with heat control switch, cord and plug				
	a)	30x25x15cm (12x10x6 inch)			2170-00 each
	b)	45x30x15cm (18x12x6 inch)			4030-00 each

STIRRERS

SI638	Magnetic Stirrer Electrically Operated fitted with speed regulator. Cap 2 Lit. without plate and energy regulator.				4030-00 each
SI639	Laboratory Stirrer fitted with speed regulator, adjustable height, mounted on heavy stand 1/20 H.P. AC/DC Motor				7670-00 each
SI640	Slide Warming Table thermostatically controlled. Uniform Temperature from room to 110°C top of anodised stainless steel.				
	(a)	30x25cm (12"x10")			2190-00 each
	(b)	40x25cm (16"x10")			2960-00 each
	(c)	45x25cm (18"x12")			3770-00 each
SI641	Tetra Kettle Heating Element general purpose.				
		Watts	Voltage		
	(a)	1000	230		470-00 each
	(b)	1500	230		470-00 each
	(c)	2000	230		470-00 each
SI642	Autoclave suitable to sterilize bandages & needles, gas or stove heated 12"x12". Thick aluminum body with pressure gauge and safety valve. 15 lbs pressure.				5200-00 each
SI643	Autoclave (Same as above) electrical 220/230 volts with plug & cord.				5460-00 each
SI644	Muffle Furnace 900 C		9x4x4"	225x100x100mm	12220-00 each
			10x5x5"	250x125x125mm	13860-00 each

SS787	Laboratory Jack Box type M.S. 20x20cm					1820-00 each
SI645	Vacuum Pump cap. 32 Ltr per minute, single stage, oil sealed, air cool, V-belt driven and mounted on base plate with belt guard. AC single stage.					18200-00 each
SI646	Vacuum Pump Cap. 50 Ltr. per minute, double stage, oil sealed, air, cool, V-belt driven and mounted on base plate with belt gaurd. AC single stage.					26650-00 each
SI647	Anaerobic Culture Jar B.T.L. Type modified Macintosh and Fildes pattern, all metal construction consisting of a stainless steel jar with a top flange by a strong bridge clamp. the cofer is fitted with two needle valves for evacuation and a sachet containing a catalyst. A side arm on the jar is provided for connecting to semi solid lucas indicator). With gauge.					24050-00 each
SI648	Melting Point Apparatus the apparatus is useful in determination of melting point of any substance in small quantity upto 300°C. It consists of an aluminum block which accepts three capillary tubes and a mercury therm, ometer. The block is heated by two elements clamped to the sides. The built in lamp provides uniform and shadow less illumination.					2470-00 each
SI649	Vortex Shaker vibration type variable speed shaking starts when vessel is placed against cup.					5200-00 each
SI650	B.O.D. Incubator the low temperature incubator is made of double walled M.S. Sheet. Two doors are provided. Inner door is made of transparent arcylic for inspecting specimens, outer door is made of transparent acrylic for inspecting specimens, outer door is insulated and is fitted with magnetic tape with lock and key. Temperature range from 5°C to 50°C with an accuracy of +1°C. Provided with compressor, cooling coils, heating elements,					
	Cu. Ft.	Height	Width	Depth	Inner Chamber	
	6.1	825mm	505mm	415mm	Aluminum	67600-00 each
SI651	Soxhlet Extractions Unit (Mantel Type) without glass parts the unit consist of a compact rectangular box section of metal housing the heating elements and built in controls.					
	Unit of three mantels of capacity 250ml					5200-00 each
	Unit of six mantels of capacity 250ml					6760-00 each
SI652	Kjeldhal Digestion unit without glass parts supplied with heating shelf. the heaters have individual switches with an energy regulator to control the heaters and each heater draws approx 500 watts. It can accommodate flasks of cap. 500 & 800 ml.					
	No. of Heaters		On/Off Switches			
	3		1			4680-00 each
SI653	Kjeldhal Distillation Unit of three tests. Electrically operated consisting of following:					
	1. Distillation stand		2. Metal Condenser		3. Kjeldhal Heater	7280-00 each
	Without glass parts.					

PORCELAIN WARES

SI654	China Dish Superior Quality				
	50ml	75ml	100ml	125ml	150ml
	166-00	224-00	364-00	885-00	1300-00
					doz.
SI655	Crucible with lid porcelain				
	15ml	25ml	50ml		
	166-00	224-00	390-00		
					doz.

SS799	Beehive Shelf	2"	3"			
		187-00	208-00			doz.
SI656	Buckner Funnel	2"	3"	4"		
		34-00	52-00	88-00		each
SI657	Pestal & Mortar	3"	4"	5"	6"	
		31-00	44-00	73-00	109-00	each
SI658	Clay Pipe Triangular	3"				18-00 each

PLASTICWARE SUPERIOR QUALITY

SI659	Beakers: Made from PP Powder					
	50ml	100ml	250ml	500ml	1000ml	2000ml
	10-00	13-00	22-00	34-00	60-00	122-00
						each
SI660	Wash Bottle made from Low Density Polyethylene					
	125ml	250ml	500ml	1000ml		
	30-00	35-00	47-00	86-00		each
SI661	Reagent Bottle N/M or W/M. made from low Density Polyethyiene.					
	60ml	125ml	250ml	500ml		
	22-00	27-00	42-00	50-00		each
SI662	Test Tube Stand fixed six tubes.					27-00 each
SI663	Measuring Cylinder made from PP					
	25ml	50ml	100ml	250ml	500ml	1000ml
	31-00	36-00	39-00	78-00	146-00	291-00
						each
SI664	Dropping Bottle , LDPE					
	60ml	125ml				
	22-00	27-00				each
SI665	Conical Flask with screw, made from PP					
	100ml	250ml	500ml			
	55-00	80-00	122-00			each
SI666	Kipp's Apparatus					
	250ml	500ml	1000ml			
	860-00	1092-00	1378-00			each
SI667	Funnel from PP powder					
	50mm	62mm	75mm	100mm		
	8-00	12-00	13-00	23-00		each
SI668	Petri Dish made from PP powder					
	2"	3"	4"			
	13-00	18-00	21-00			each

SS813	Volumetric Flask with screw cap.					
	50ml	100ml	250ml	500ml	1000ml	
	110-00	146-00	174-00	291-00	434-00	each
SI669	Slide Box Plastic					
	25 Slides	50 Slides	100 Slides			
	57-00	117-00	218-00			each
SI670	Burette Transparent acrylic body and leak proof stop cock.					
	25ml	50ml				
	387-00	410-00				each
SI671	Pipette Pump					
	2ml	10ml	25ml			
	460-00	460-00	533-00			each
SI672	Fisher Type clamp PP					
	single	Double				
	65-00	130-00				
SI673	Retort Stand PP 225x150mm side hole.					470-00 each
SI674	Dessicator Plain PP					
	6"	8"	10"			
	1560-00	2808-00	3874-00			each
SI675	Separting Funnel PP					
	100ml	250ml	500ml			
	312-00	390-00	485-00			each
SI676	Pipette Stand Horizontal 12 Pipette					130-00 each
SI677	Pipette Stand Vertical 28 pipette					440-00 each
SI678	Simple Cell Pot					60-00 each
SI679	Leclanche Cell Pot					80-00 each
SI680	Atomic Model Set 60 Balls					160-00 each
SI681	Atomic Model Set 120 Balls					315-00 each
SI682	Rain Gauge Polythene					45-00 each
SI683	Over Flow Vessel Polythene					40-00 each
SI684	Centrifugal Tube 15ml					6-00 each
SI685	Diamond Crystal in box		Polylab	Regular		
			242-00	130-00		each
SI686	Graphihte Crystal in box		Polylab	Regular		
			242-00	130-00		each

SS832	Conical Measure	12ml	25ml	50ml	125ml	250ml	
		16-00	20-00	25-00	48-00	49-00	each
SI687	Pneumatic Trough	8"x4"	10"x4"				
		109-00	156-00				each

NEUTRAL GLASS WARE

SI688	Burette with Pinch clip packed in card box						
		25ml	50ml	100ml			
		30-00	36-00	60-00			each
SI689	Burette with stop Cock packed in card box						
		25ml	50ml	100ml			
		78-00	96-00	112-00			each
SI690	Pipettes Vol. One Mark packed in card box						
		5ml	10ml	25ml	50ml		
		130-00	156-00	169-00	260-00		each
SI691	Specific Gravity Bottle packed in card box.						
		25mm	50mm				
		21-00	26-00				each
SI692	Separating Funnel packed in card box						
		100ml	250ml				
		140-00	143-00				each
SI693	Thistle Funnel Cylindrical						10-00 each
SI694	Boyle's Law Tube Plain						16-00 each
SI695	Water Level On Stand						60-00 each
SI696	Dropper with Rubber Teat						
		4"	6"	8"			
		12-00	14-00	17-00			each
SI697	Melting Point Capillary						25-00 Pkt.
SI698	Ignition Tube						26-00 gross
SI699	Gas Jar Lid 3"						125-00 doz.
SI700	Test Tube from neutral glass in pigeon hole packing, box of 100 tubes						
	(a) 100x12 mm						315-00 box
	(b) 125x15 mm						445-00 box
	(c) 150 x15mm						560-00 box
	(d) 150x18 mm						600-00 box
	(e) 150x 25mm						1000-00 box

BOROSILICATE GLASSWARE

SS847	Burette with Teflon stop clock (Borosillcate Glass)							
		25ml	50ml	100ml				each
(a)	Light Wall	96-00	101-00	182-00				each
(b)	Heavy Wall	104-00	117-00	205-00				each
SI701	Pipette vol. one mark (Borosillcate Glass)							
	5ml	10ml	25ml	50ml				
	36-00	36-00	52-00	94-00				each
SI702	Pipette graduated (Borosillcate Glass)							
	Cap.	0.1ml	0.2ml	0.5ml	1.0ml			
		52-00	52-00	52-00	52-00			each
	Cap.	2.0ml	5.0ml	10.0ml	25.0ml			
		52-00	52-00	52-00	52-00			each
SI703	Measuring cylinder graduated made from borosilicate glass.							
	Cap. 5ml	10ml	25ml	50ml	100ml	250ml	500ml	1000 ml
	55-00	55-00	75-00	83-00	122-00	184-00	260-00	741-00
								each
SI704	Volumetric Flask (Measuring Flask) One mark heavy type (Borosilicate Glass) with solid Stopper							
	Cap.	10ml	25ml	50ml	100ml			
		62-00	75-00	81-00	96-00			each
	Cap	250ml	500ml	1000ml				
		122-00	260-00	300-00				each
SI705	Round or Flatg Bottom Flask Plain (Borosilicate Glass)							
	Cap.	50ml	100ml	250ml	500ml			
	With B-24 Joint	75-00	75-00	99-00	156-00			each
	Without Joint	49-00	49-00	75-00	130-00			each
SI706	Conical Flask (Borosilicate Glass)							
	Cap.	50 ml	100ml	150ml	250ml	500ml	1000ml	
		42-00	49-00	68-00	75-00	130-00	260-00	each
SI707	Beaker (Borosilicate Glass)							
	Cap.	5ml	10ml	25ml	50ml	100ml	150ml	250ml
		29-00	29-00	29-00	34-00	39-00	52-00	75-00
							130-00	each
SI708	Filter Funnel long stem. (Borosilicate Glass)							
	Size	50mm	65mm	75mm	100mm			
		36-00	44-00	44-00	101-00			each

SS856	Iodine Flask with stopper (Borosilicate glass)					
	Cap.	100ml	150ml	250ml	500ml	
		101-00	122-00	164-00	185-00	each
SI709	B.O.D. Bottle with stopper (Borosilicate Glass)					
	Cap.	125ml	300ml			
		205-00	194-00			each
SI710	Reagent Bottle with stopper (Borosilicate glass)					
	Cap.	125ml	250ml	500ml	1000ml	
		185-00	244-00	296-00	335-00	each
SI711	Nessler Cylinder (Borosilicate Glass)					
	Cap.	50ml	100ml			
		64-00	78-00			each
SI712	Separating Funnel Heavy type with stop clock. (Borosilicate Glass)					
	Cap.	125ml	250ml	500ml	1000ml	
		185-00	244-00	278-00	372-00	each
SI713	Specific Gravity Bottle Glass (Borosilicate Glass) with glass stopper.					
	Cap.	25ml	50ml			
		49-00	62-00			each
SI714	Weighing Bottle with stopper. (Borosilicate Glass) tall form.					
	Cap.	5ml	15ml	25ml	50ml	
		52-00	60-00	75-00	122-00	each
SI715	Liebig Condenser with B-24 Joint. (Borosilicate Glass)					
	Length	300mm	400mm			
		185-00	224-00			each
SI716	Thistle Funnel (Borosilicate Glass)					42-00 each
SI717	Distillation Apparatus with Graham Condensor interchangeable joint interchangeable stopper. (Borosilicate Glass)					
	Cap.	250ml	500ml	1000ml		
		650-00	702-00	806-00		each
SI718	Soxlet App. with Ext. Condensor, R.B. Flask with joint. (Borosilicate Glass)					
	Cap.	60ml	100ml	200ml		
		650-00	702-00	1638-00		each
SI719	Viscometer University Pattern (Borosilicate Glass)					57-00 each
SI720	Stalgnometer Straight type (Borosilicate Glass)					44-00 each

SS869	Hoffman Voltameter graduated limb and removable Platinum Electrode in thermocole packing. 50ml					832-00 each
SI721	Petri Dish :					
	Size	5cm	7.5cm	10cm	pair	
		120-00	130-00	146-00	18-00 each	
SI722	Centrifuge Tube : Plain 10 ml, 15 ml					
SI723	Theil's Tube :	18x150mm		25x150mm		
		55-00		57-00 each		
SI724	Distillation Set : The complete apparatus consists of the following items : Wooden stand with adjustable condenser support Iron rod with fly nut for tightening. Tripod Stand Bunsen Burner Fisher type clamp Distillation flask (Borosilicate glass) Condensor (Borosilicate glass) Conical flask Thermometer, Rubber Cork, Wire Gauge, Rubber Tubing.					1495-00 each
SI725	Automatic Electrically Heated All Glass Distillation Apparatus Complete with metallic stand, plug, board etc. Single stage having flask of cap. 5 litre.					26000-00 each
SI726	Fixed Volume Micro pipette					
	Range (ul)					
	5, 10, 20, 100, 200, 500, 1000					1500-00 each
	Variable Volume Micropipette (Standard)					
	0.5-10, 5-50, 10-100, 20-200, 100-1000					2600-00 each

ECONOMY RANGE BOROSILICATE GLASSWARE

SI727	Burette (Borosilicate Glass)								
		25ml	50ml	100ml					
	(a) Pinch Cock	36-00	36-00	68-00					each
	(b) Teflon Stop Cock	73-00	86-00	130-00					each
SI728	Pipette Volt. one mark (Borosilicate Glass)								
	5ml	10ml	20ml	25ml	50ml				
	34-00	39-00	44-00	47-00	83-00				each
SI729	Measuring cylinder graduated, Plastic base (Borosilicate Glass)								
	Cap.	5ml	10ml	25ml	50ml	100ml	250ml	500ml	
		42-00	42-00	42-00	47-00	52-00	109-00	169-00	each

SS879	Volumetric Flask One Mark. (Borosilicate Glass) with Plastic Stopper.					
	Cap.	10ml	25ml	50ml	100ml	
		44-00	47-00	57-00	68-00	each
	Cap.	250ml	500ml	1000ml		
		94-00	130-00	208-00		each
SI730	Separating Funnel with plastic stop clock (Borosilicate Glass).					
	Cap.	125ml	250ml			
		112-00	130-00			each
SI731	Retort Glass:					
	Cap.	250ml	500ml			
		130-00	208-00			each
SI732	Dessicators with ground glass cover knobbed. (Borosilicate Glass)					
		125mm	160mm	210mm	240mm	300mm
		1040-00	1300-00	2470-00	3900-00	7280-00
						each
SI733	Test Tube Borosilicate Glass in pigeon hole packing box of 100.					
	(a)	75x12 mm				460-00 box
	(b)	100x12 mm				520-00 box
	(c)	125 x 15 mm				910-00 box
	(d)	150 x 15 mm				1040-00 box
	(e)	150 x 18 mm				1430-00 box
	(f)	150 x 25 mm				1760-00 box
SI734	Kipp's Apparatus Borosilicate Glass					
		250ml	500ml	1 Ltr		
		2405-00	2800-00	3185-00		doz
SI735	Beaker Low from with spout.					
	Cap.	50ml	100ml	150ml	250ml	500ml 1000ml
		239-00	260-00	260-00	299-00	481-00 746-00
						doz
SI736	Flask Round Bottom or Flat Bottom					
	Cap.	100ml	150ml	250ml	500ml	1000ml
		244-00	244-00	278-00	445-00	710-00
						doz
SI737	Conical Flask					
	Cap.	50ml	100ml	150ml	250ml	500ml 1000ml
		244-00	244-00	244-00	296-00	447-00 712-00
						doz
SI738	Volumetric Flask					
	Cap.	100ml	250ml	500ml	1000ml	
		824-00	936-00	1394-00	1940-00	doz

SS889	Funnel Conical shape (Long Stem)							
	Size	5cm	6.25 cm	7.5cm	10cm			
		278-00	278-00	335-00	595-00	doz		
SI739	Petri Dishes (With Grounded Edges)							
	Size	5cm	7.5 cm	10cm	15cm			
		520-00	556-00	611-00	1604-00	doz		
SI740	Reagent Bottle N/M				F/S			
	Cap.	30ml	60ml	125ml	250ml	500ml	1000ml	
		377-00	377-00	424-00	556-00	780-00	1393-00	doz
SI741	Reagent Bottle W/M			F/S				
	Cap.	30ml	60ml	125ml	250ml	500ml	1000ml	
		400-00	400-00	520-00	520-00	834-00	1485-00	doz
SI742	Aspirator Bottles with Ground stoppers.							
	Cap.	1 lit.	2 lit.	3 lit.	5lit.	10lit.		
		351-00	447-00	585-00	767-00	1820-00	each	
SI743	Bell Jar knobbed		20x10cm (8x4 inch)			22.5x15cm (9x6 inch)		
			208-00			380-00		
						each		
SI744	Bell Jar stoppered		20x10 cm (8x4 inch)			22.5x15cm (9x6 inch)		
			278-00			520-00		
						each		
SI745	Calcium Choloride Tower 250ml						273-00 each	
SI746	Dropping Bottle T.K. Patter							
	30ml	60ml		125ml				
	600-00	780-00		960-00		doz		
SI747	Dessicator with ground glass cover knobbed.							
	10cm	12.5cm		15cm		20cm	25cm	
	452-00	600-00		793-00		1400-00	2600-00	
							each	
SI748	Kipps Appp. Gas Generating App. Complete with delivery tube, thistle funnel and rubber corks.							
	250ml	500ml		1000ml				
	1742-00	2041-00		2395-00		each		
SI749	Gas Jar with ground flange & foot.							
	15x15cm	20x5cm		25x5cm		30x5cm		
	611-00	780-00		1144-00		1375-00		
							doz	
SI750	Hydrometer Jars with spout foot.							
	50ml	100ml	250ml	500ml	1000ml			
	741-00	832-00	1076-00	1209-00	1937-00	doz		

SS902	Measuring Cylinders Graduated									
	5ml	10ml	25ml	50ml	100ml	250ml	500ml	1000ml	2000ml	
	377-00	468-00	741-00	811-00	1040-00	1340-00	1840-00	2509-00	4680-00	each
SI751	Wolf Bottles		250ml	500ml						
			2080-00	2900-00	doz.					
SI752	Winchester Bottles Stoppered									
	2 Ltr.	3 Ltr.	5 Ltr.	10 Ltr.						
	170-00	208-00	468-00	754-00	each					
SI753	Cavity Blocks		40x40mm	55x55mm						
			60-00	86-00		each				
SI754	Pestle & Mortar Glass									
	9cm	11.5cm	15cm							
	99-00	143-00	252-00	each						
SI755	Pneumatic Trough									
	6x4	8x4	10x4	12x5						
	143-00	239-00	320-00	442-00	each					
SI756	Spirit Lamp Glass									
	60ml	125ml								
	70-00	80-00	each							
SI757	Specimen Jar with plastic cap									
	180ml	250ml	500ml	1000ml						
	48-00	62-00	68-00	96-00	each					
SI758	Specimen Jar Rectangular									
	15x10x5cm		20x10x5cm		20x12x10cm					
	208-00		239-00		380-00		each			
	20x20x12cm		20x20x16.5		22x15x10cm					
	358-00		481-00		481-00		each			
	26x15x10 cm		26x17x9 cm		30x17x9 cm		25x25x12 cm			
	500-00		580-00		780-00		941-00		each	
SI759	Reagent Bottle NM FS Amber Colour									
	125ml	250ml	500ml							
	55-00	78-00	104-00	each						
SI760	Glass Tubes & Rods. 4mm to 8mm									
	100-00 kg.									
SI761	Couplin Jar for 5 to 8mm									
	115-00 each									
SI762	Spirit Lamp Hexagonal									
	60-00 each									

SLID BOXES & CABINETS

SS915	Slide Box Superior Quality with Aluminum Grooves					
	25 slides	50 slides	100 Slides			
	68-00	109-00	169-00			each
SI763	Micro Slide Cabines Back Drawer to hold 100 slides drawer fitted with index card pulling knob and slider over metal rails with aluminum grooves					
	500 sliders	1000 slides				
	2860-00	2070-00				each
SI764	Micro-Slide Tray aluminum cap. 20 slides.					195-00 each

METAL TEST TUBE STAND

SI765	S.No.	Size(mm)	Holes	Aluminum	S.S.	Iron	
	1	12	12	35-00	39-00	34-00	each
	2	12	24	46-00	78-00	44-00	each
	3	12	36	65-00	109-00	62-00	each
	4	12	48	83-00	135-00	80-00	each
	5	15	12	36-00	61-00	35-00	each
	6	15	24	53-00	96-00	52-00	each
	7	15	36	70-00	130-00	68-00	each
	8	15	48	94-00	161-00	81-00	each
	9	18	12	44-00	72-00	40-00	each
	10	18	24	62-00	104-00	60-00	each
	11	18	36	88-00	156-00	86-00	each
	12	18	48	107-00	195-00	104-00	each
	13	25	12	55-00	94-00	52-00	each
	14	25	24	88-00	146-00	86-00	each
	15	25	36	106-00	198-00	104-00	each
	16	25	48	133-00	255-00	130-00	each

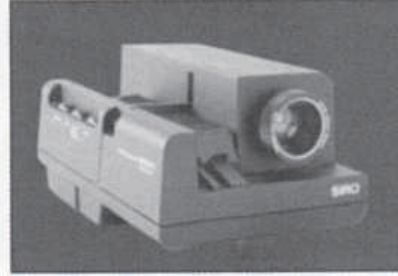
BIOLOGY



Dissecting Kit



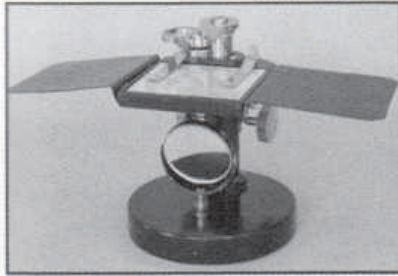
Klinostat



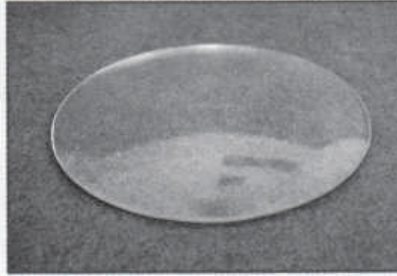
Automatic Slide Projector



Slide Box (Wooden)



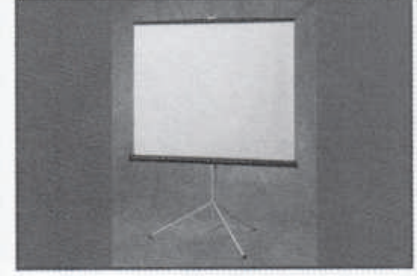
Dissecting Microscope



Watch Glass



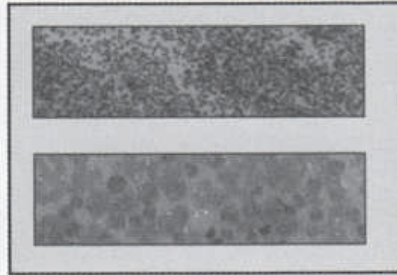
Projection Microscope



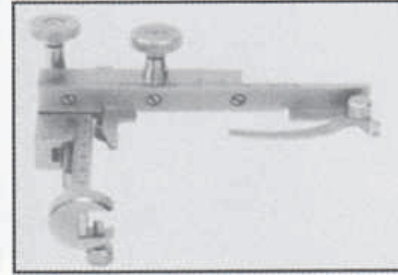
Projector Screen



Plain Slide



Prepared Slide



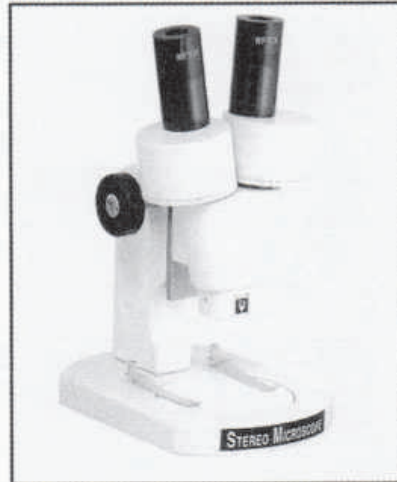
Mechanical Stage



Slide Cabinet



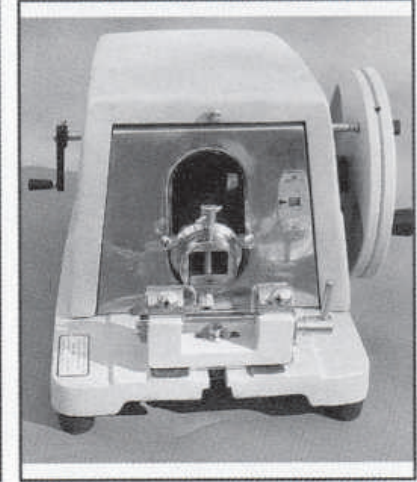
Double Objective Stereo Microscope



Simple Stereo Microscope



Super Stereo Microscope



Microtome (ERMA Type)

FIBER GLASS MODEL HUMAN PHYSIOLOGY AND ANATOMY

Very useful for 3 dimensional viewing. The models are light weight, unbreakable, washable and painted with chip proof flexible colours. The models are not affected by atmospheric moisture. All models are supplied with key card for proper understanding.

SI766	Human Eye 3 times enlarged, dissectable into 7 parts in Box.	300-00 each
SI767	Human Eye plastic on stand, packed in box.	210-00 each
SI768	Human Eye with Orbit on base, packed in box.	520-00 each
SI769	Human Ear dissectable with three parts, packed in box.	340-00 each
SI770	Human Brain dissectable, packed in box.	
	Two parts 312-00	Four Parts 338-00
		each
SI771	Human Brain dissectable on stand.	
	Two Parts 312-00	Four Parts 338-00
		each
SI772	Human Heart dissectable on stand.	
	Two Parts 312-00	Four Parts 338-00
		each
SI773	Human Kidney with Blader on board, Packed in box.	340-00 each
SI774	Human Skin natural colour, on board, packed in box.	340-00 each
SI775	Human Head & Neck on board, packed in box.	380-00 each
SI776	Human Kidney Sectional on stand, packed in box.	300-00 each
SI777	Human Tooth on stand, packed in box.	300-00 each
SI778	Model Teeth with Jaw on board, packed in box.	320-00 each
SI779	Human Lungs (Right) on stand, packed in box.	330-00 each
SI780	Human Lungs with Heart on base, packed in box.	680-00 each
SI781	Human Larynx on base, packed in box.	330-00 each
SI782	Human Reproductive System Male on board, packed in box.	330-00 each
SI783	Human Reproductive system female on board, packed in box.	340-00 each
SI784	Human Circulatory System on board, packed in box.	340-00 each
SI785	Human Nervous System on board, packed in box.	340-00 each
SI786	Human Respiratory System on board, packed in box.	340-00 each
SI787	Human Digestive System on board, packed in box.	340-00 each
SI788	Human Digestive System on board, packed in box.	340-00 each
SI789	Human Pelvis with Baby: Showing engagement of child's head in vertical section of abdomen with pregnant uterus in the 9th month. Child can be taken out in order to show the exact position of placenta with its blood vessels, on base.	1950-00 each

SS943	Human Period of Gestation a set of nine models, mounted on stand.	2470-00 each
SI790	Human Torso Dissectable Head small on base size 30".	1170-00 each
SI791	Human Torso Fixed Head small on base size 30"	910-00 each
SI792	Human Torso Big sexless, dissectable into nine parts on wooden base.	2730-00 each
SI793	Human Skeleton Full size made front fiber glass & plastic, articulated.	1930-00 each
SI794	Human Skeleton articulated small 16" on stand packed in card box.	220-00 each
SI795	Human Skeleton Plastic 30" in card box.	760-00 each
SI796	Human Skeleton Stand superior heavy base, adjustable height.	1150-00 each

ZOOLOGY MODELS

SI797	Animal Cell mounted on board.	240-00 each
SI798	Animal Cell Division (Mitosis) set of 10 mounted on board.	650-00 each
SI799	Animal Cell Division (Meiosis) set of 10 mounted on baod.	650-00 each
SI800	Model DNA set of 4 models mounted on board.	710-00 each
SI801	Model RNA set of 3 models mounted on board.	728-00 each
SI802	Model Amoeba Proteus mounted on board.	300-00 each
SI803	Model of Hydra mounted on boad.	420-00 each
SI804	Model of Paramecium on board.	420-00 each
SI805	Model of Frog dissection mounted on board.	320-00 each
	Small Size Big Size	
	560-00 1120-00	each
SI806	Frog Development a set of 24 models showing the various stages of development of frog from egg to adult.	910-00 each

BOTANY MODELS

SI807	Plant Cell mounted on board, packed in box.	300-00 each
SI808	Plant Cell Division (Mitosis) set of 10 models mounted on board.	650-00 each
SI809	Plant Cell Division (Meiosis) set of 12 models munted on board.	650-00 each
SI810	Types of Bacteria mounted on baord.	500-00 each
SI811	Model of Spirogyra on board.	350-00 each

CHARTS & SPECIMEN

SI812	Laminated Chart			
	20"x30"	22"x36"	30"x40"	
	94-00	120-00	150-00	each

SS967	Rexine Chart 30"x40" made on rexine, coloured, mounted.	560-00 each
SI813	Periodic Table Chart size 30"x40" printed in four colour	150-00 each
SI814	Periodic Table chart 40"x55"	280-00 each
SI815	Life History fully labelled mounted in jar (common variety)	
	6"x2" 8"x2"	
	143-00 161-00	each
SI816	Museum Specimen common variety, mounted in jar.	
	6"x2" 8"x2"	
	117-00 143-00	each

WOODEN WARE

SI817	Test Tube Stand Wooden Soft Wood	
	6 peg 12 peg	
	44-00 88-00	each
SI818	Burette Stand wooden single	140-00 each
SI819	Burette Stand wooden double	260-00 each
SI820	Funnel Stand wooden single	140-00 each
SI821	Funnel Stand wooden double	260-00 each
SI822	Pipette Stand for 12 pipettes vertical round.	300-00 each
SI823	Pipette Stand for 12 pipettes horizontal position.	210-00 each
SI824	Standing Rack wooden 6 bottle.	
	(a) 30 ml Bottle	120-00 each
	(b) 60 ml Bottle	130-00 each
	(c) 125 ml Bottle	275-00 each
SI825	Insect Box with cork sheet (12"x15")	470-00 each
SI826	Lens Holder	80-00 each
SI827	Staining Rack 60ml bottle 6 hole	240-00 each
SI828	Sodium Vapour Lamp Box 35W Teakwood	1770-00 each
SI829	Sonometer Teakwood , brass fittings.	1280-00 each
SI830	Inclined Plane Teakwood 4" brass are and levelling screws.	1300-00 each
SI831	Meter Bridge with pencil jockey T/W base & thick copper strip, packed in card box.	2290-00 each
SI832	Potentiometer 4 wire with pencil jockey T/W base & thick copper strip, packed in card box.	1430-00 each
SI833	Potentiometer 10 wire with pencil jockey T/W base & thick copper strip, packed in card box.	1770-00 each

DISSECTION & SURGICAL INSTRUMENTS

SS989	Prepared Slide on Botany & Zoology (School Standard)				20-00 each
SI834	Prepared Slide Mitosis Set of 5				190-00 set
	Prepared Slide Meiosis Set of 12				450-00 set
SI835	Plain - Slides size 75x25mm, Thickness 1.3 mm, packed of 50 slides.				60-00 pkt
SI836	Cavity Slide 75x25mm				
	One Cavity	Two Cavity	Three Cavity		
	88-00	96-00	101-00		doz
SI837	Cover Slip pack of 10 gms.		Square	Round	
			12-00	20-00	Packet
SI838	Dissecting tray heavy, G.I. sheet without wax				
			12"x10"	15"x12"	
			112-00	156-00	each
SI839	Dissecting Board Soft wood with lead				
			20x15cm	20x25cm	
			208-00	312-00	each
SI840	Dissection Box stainless steel in velvet box.				
	Set of 13 instruments		Set of 17 instruments		
	164-00		190-00		each
SI841	Insect Net Brass ring 12" dia with metal handle.				260-00 each
SI842	Dissecting Needle plastic handle.				20-00 doz
SI843	Dissecting Needle plastic handle, superior quality.				40-00 doz
SI844	Forceps stainless steel, superioir heavy (pointed)				
	4"	5"	6"		
	16-00	23-00	31-00		each
SI845	Bone Cutter stainless steel.				
	6"	8"			
	170-00	221-00			each
SI846	Scissors with plastic handle.				
	4"	5"	6"		
	16-00	23-00	31-00		each
SI847	Scissors S.S. heavy.				
	4"	5"	6"		
	44-00	50-00	60-00		each

SS1004	Scalpal	20-00 each
SI848	Crucibal Tongs S.S.	
	6" 8" 10" 12" 18"	
	83-00 104-00 150-00 170-00 315-00	each
SI849	Dissection Hammer (Claw Hammer) all metal with handle.	35-00 each
SI850	Surgical Gloves Latex	60-00 each
SI851	Apron Cloth cotton	100-00 each
SI852	Mask Cloth	20-00 each
SI853	Pollution Mask	60-00 each
SI854	Disposable Mask	6-00 each
SI855	Disposable Cap	6-00 each
SI856	Laboratory Coat superior quality	590-00 each
SI857	Safety Goggles	80-00 each

VACUUM TUBES & X-RAY TUBES

SI858	Geissler Tubes set of six, different shapes, pressure of inside air and the discharge phenomenon is also different, tubes are provided with permanent cemented cap for electrical connection with induction coil.	1120-00 each
SI859	Geissler Tube in velvet lined case.	1210-00 each
SI860	Geissler Tube set of 6 as above in glass case, with rotary switch for connection to one tube at a time.	1860-00 each
SI861	Spectrum Tubes straight form with a piece of fine cappillary in the middle. Total length 20cm fitted with spectrossopically pure sample of gases.	
	Krypton Helium Neon Hydrogen	320-00 each
SI862	X-Ray Tube simple construction with automatic vacuum regulating device with metal target 90 mm dia.	710-00 each
SI863	Electrical Radiometer works with mechanical effect of cathode rays. The vanes are painted. X-Rays and different fluorescent colours glow beautifully when moving at high speed, stereoscopic effect is also observed on bakelite stand.	370-00 each
SI864	Crook's Radiometer Single one side of the mica vanes is blackened and the other is bright, when placed in sun light or near any source of heat, the vanes rotate.	280-00 each
SI865	Crook's Radiometer Double the vanes rotate in opposite directions.	560-00 each
SI866	Manimeter , bennert type with sliding scale fitted with stop cock two connection tube on polished stand mercury field.	1600-00 each
SI867	Cathode Ray Tube in box	330-00 each
SI868	High Voltage Transformer for Gas Discharge Tube	2150-00 each

GEOGRAPHY APPARATUS

SS1026	Four Globe Orrey App. (Seasons App.) hand operated with gear wheel arraignment.	910-00 each
SI869	Phases of Moon the eight phases are represented by different round discs carefully painted.	680-00 each
SI870	Day and Night App a geographical globe fitted on wooden board.	490-00 each
SI871	Solar System Nine planet complete with instructions, hand operated.	1430-00 each
SI872	Solar System Nine Planet (Motorized) with power supply workable on 220V AC 50Hz packed in box.	2400-00 each
SI873	Solar and Lunar Eclipse Apparatus	470-00 each
SI874	Model of Solar System in acrylic case	980-00 each
SI875	Earth's Layer Model made of fiber glass. It shows the various layers inside the earth. Different colours are used to show the various layers.	1240-00 each

MODELS OF NON-CONVENTIONAL SOURCES OF ENERGY

SI876	Solar Fan this working model is in a two parts box. The part with solar cells is placed in sunlight and fan portion in kept in shade or class room. The solar energy gets converted into electrical energy which in turn energizes the fan. Thus conversion of solar energy into electrical energy and then mechanical energy is demonstrated.	560-00 each
SI877	Solar Pump this working model is in a two part box. The part with solar cell is placed in sunlight. The pump is filled with water and the solar energy gets converted into electrical energy which turns on the pump.	1890-00 each
	A. Iron Metal Stand with reservoir the reservoir consists of cold water inlet, hot water outlet, air vent and two pipes for connection to water heater panel.	
	B. Solar Panel this consists of thin water of blackened copper which aborbsheat and transfer the same to water flowing through pipes beneath the copper plates. The panel is fitted with a hook to fix at an appropriate angle provided with thermometer and funnel.	2340-00 each
SI878	Solar Bulb this working model is in two parts box, one part with solar cell and other with bulb, (LED). The part with solar cell is placed in sunlight and the bulb glows, showing conversion of solar energy into electrical energy.	390-00 each
SI879	Wind Mill it consists of two part wooden. First remove the lid form the bottom of the fan and then expose it to a little bit fast wind. (May be exposed to a fan in class room.) The air strikes the generator blade which starts rotating and electricity is produced which is indicated by a bulb and meter. Thus conversion of wind energy into electrical energy is demonstrated.	1000-00 each
SI880	Blast Furnace a small but economic size model. This unit is clearly labeled and cut way in design showing illustrated graph and vivid picture for students to have better grasp. The various important parts such as blast pipe, wind belt, tapping spout, slab tapped changing arrangement with chuks and levers. Mounted on 45x45cm base and height approx. 70cm.	1490-00 each
SI881	Solar Energy Kit it is a versatile instrument consisting of a solar panel with stand, two nos. rechargeable batteries, one no. each LED, meter buzzer and fan. The whole assembly is mounted on a sheet and packed in velvet box.	1670-00 each
SI882	Bio Gas Plant cross sectional model, made of mild steel sheet, showing different parts like gas pipe, gas holder, mixing kit, iron pipe, outlet pipe, guide pipe, slurry and portion walls.	1670-00 each

SS1041	Solar Cooker (Metal) demonstration model, made of mild steel sheet with hinged top, glass reflector and a carrying box.	1670-00 each
SI883	Solar Cooker (Wooden) same as above but wooden.	890-00 each
SI884	Model of Space Shuttle	2930-00 each
SI885	Model of Satellite	1040-00 each
SI886	Model of Nuclear Reactor	1560-00 each
SI887	Model of Nuclear Chain Reaction	1430-00 each
SI888	Model of Domestic Power supply with 2 meters	2470-00 each
SI889	Model of Thermostat mounted on wooden base, packed in card box	650-00 each
SI890	Model of Agricultural Equipment set of 8	650-00 each

CHEMISTRY MODELS

All the models are mounted in acrylic showcase and packed in velvette box.

SI891	Classification of Hydrocarbon Model	
	a) Methane b) Ethane c) Propane	
	d) Butane e) Iso-butane f) N-pentane	
	g) Iso-pentane h) Neo Pentance i) Ethene j) Ethyne	1,450-00 each
SI892	Sulphur Atomic Model	192-00 each
SI893	Yellow Phosphorus Atomic Model	250-00 each
SI894	Black Phosphorus Atomic Model	280-00 each
SI895	Silicon Electronic Configuration (2, 4, 8) Model	470-00 each
SI896	Orbit of Atom	710-00 each
SI897	Diamond Crystal Model	1170-00 each
SI898	Graphite Crystal Model	1100-00 each
SI899	Sodium Chloride Crystal Model	780-00 each
SI900	Arrangement of Electron in Atom (Structure of Atom)	470-00 each
SI901	Isotopes of Hydrogen (Hydrogen, Deuterium Tritium)	430-00 each
SI902	Formation of Sodium Ion Model	940-00 each
SI903	Formation of Chlorine Ion Model	940-00 each
SI904	Hydrogen Molecule Model	390-00 each
SI905	Oxygen Molecule Model	470-00 each
SI906	Formation of Magnesium Oxide Ion	1250-00 each
SI907	Covalent Bond in Hydrogen Molecule	710-00 each
SI908	Covalent Bond in Chlorine Molecule	1250-00 each
SI909	Covalent Bond in Oxygen Molecule	1100-00 each

SS1069	Covalent Bond in Water Molecule	1020-00 each
SI910	Molecules set of 5 Model	
	1. Water 2. Ammonia Chlorine 4. Phosphrous 5. Sulphur	840-00 each

NANO-TECHNOLOGY MODELS

SI911	Bucky Ball a bucky ball is a molecule containing 60 carbon atoms. Here each carbon atom is bound to three adjacent carbon atoms forming a sphere, which is around 1.0 nm in diameter. The bonds between atoms form a pattern of joined hexagons and pentagons that is similar to the panels on a soccer ball. It is also called fullerene's model.	1410-00 each
SI912	Nano-Tube: Carbon nanotubes are an extension of bucky balls. In fact, they are bucky balls without the ends closing. Hence, spheres are not formed and long tubular structures are formed that are called carbon nanotubes. Nanotubes are cylinders, which are a lattice of carbon atoms, each atom covalently bonded to three other carbon atoms. The carbon nanotube derived from bucky ball is also called a bucky tube.	3380-00 each

PLANT PHYSIOLOGY APPARATUS

SI913	Apparatus for experiments on root pressure, T tube with stop cock and graduated jar, coming glass	210-00 each
SI914	Mull's Potometer , apparatus for measuring absorption of water by transpiring plants, corning glass.	445-00 each
SI915	Ganong Potometer on stand, packed in card box.	
	Neutral glass	105-00 each
	Corning glass	225-00 each
SI916	Farmers Potometer corning glass in card box.	260-00 each
SI917	Respirometer , complete with graduated and levelling tubes, rubber tubing and stand, corning glass	485-00 each
SI918	Kuhne's Fermentation Vessel on wooden stand.	80-00 each
SI919	Demonstration Respiroscope in card box corning glass.	260-00 each
SI920	Leaf Clasp. brass wire.	80-00 each
SI921	Ganong Light Screen brass.	90-00 each
SI922	Arc Indicator model metal on stand medium	315-00 each
SI923	Klinostat with new clock movement having start and stop system. An ideal instrument for recording growth of plants. Complete with aluminum pully, plate, brass clamp and recorder, with fixed rods fitted on heavy cast iron base.	3900-00 each

SODIUM AND MERCURY VAPOUR LAMP

SI924	Sodium Vapour Lamp Transformer		
	35 Watt.	55 Watt.	
	1950-00	2340-00	each

SS1085	Sodium Vapour Lamp		
	35 Watt.	55 Watt.	
	2600-00	3720-00	each
SI925	Wooden Box for Sodium Vapour Lamp		
	35 Watt.	55 Watt.	
	962-00	1066-00	each
SI926	Mercury Vapour Lamp Transformer	80 Watt with wooden box (without bulb)	1820-00 each
SI927	Laminar Air Flow	cabinet size 2'x2'x2' with manometer, hepa filter, prefilter, lighting & UV tube.	59800-00 each
SI928	Digital Photo Calorimeter	8 filters mains operated with optical density in 2½ digit LED display.	13000-00 each
SI929	Digital pH Meter	3½ Digit LED Display with auto temperature compensation. combination pH electrode & RTD probe (Table Model.)	11960-00 each
SI930	Digital Conductivity Meter	3½ Digit LED Display in 5 ranges along with conductivity cell, digital cell constant, display adjustment, facility for temperature compensation.	11960-00 each
SI931	Digital Spectrophotometer	: Range 340 to 960 nm with facility for automatic concentration, % transmission and O.D. measurement, wavelength resolution 5 nm, 3½ digit LED display with round test tubes.	46280-00 each
SI932	Digital Flame Photometer	: With filters Na & K 2½ digit LED display along with compressor and other accessories.	46280-00 each
SI933	Auto Karl Fischer Titrimeter	: (Deluxe Model) having control & stirring with array of 10 LED'S, buzzer, auto zero burette, adjustable timer, dual platinum electrode & other accessories.	27950-00 each
SI934	Digital Colony Counter	4 digit LED display with magnifier and pen.	7800-00 each
SI935	Water and Soil Analysis Kit	measures pH, ORP, conductivity, TDS, dissolved, oxygen and temperature (Without ORP electrode) six parameters.	33800-00 each
SI936	igital Potentio Meter	3½ digit LED display along with glass, silver, platinum, reference electrode, mains operated (Table Model)	11700-00 each
SI937	Digital Turbidity Meter	3½ digit LED display range upto 1000 NTU/JTU (Table Model).	17940-00 each
SI938	Thin Layer Chromatography Apparatus	: To introduce the principles of absorption chromatography using the thin layer technique. This mechanism is having moveable applicator with inbuilt thickness arrangement between 0 to 2 mm (Minimum Div. 0.25 mm). It further consists of the following components.	
	a) Spreader (Applicator)		
	b) Perspex base of 114x23cm to support glass plates.		
	c) Plate rack aluminium, anodised, for ten 20x20cm or 20x10cm plates.		
	d) Developing tank with lid.		
	e) Spotting template made of perspex.		
	f) T.L.C Plates set of five 20x20cm and two 20x5cm or set of ten 20x10cm and two 20x5cm.		

	g) Glass sprayer with rubber bellow, Cab, 100ml.	
	i) Scriber for marking lines made of stainless steel.	
	j) Instruction Manual.	10400-00 each
SI939	Chromatography Cabinet : To introduce the theory and principles of ascending; descending and reverse phase paper chromatography. This is made of wood with glass on all four sides and on top internal surface is wax coated for solvent resistance. Hinged top provided with rubber gasket for air tight closing and window with air tight door. In lower portion heavy castors provided for easy movement. Finished in natural colour nitrocellulose lacquer. Supplied as standard equipment are two stainless steel troughs and four glass rod. For accommodating 4 filter papers of 45x57cm.	13000-00 each
SI940	U.V. Chromatography Inspection Cabinet : For viewing & detecting prepared substance on T.L.C plates & a number of other laboratory & investigation work. This cabinet is fitted with two U.V. tubes of different wave lengths & a fluorescent tube for visible light. An eye protective glass window is also provided on the top front for viewing the samples.	11440-00 each
SI941	Electrophoresis Apparatus (Submarine Gel Student Mechanism) : This is most efficient way to separate Nucleic Acid (DNA/RNA) fragments in agrose gels. This elementary unit with fixed platinum electrode assembly consists of perforated lid for vapors, gel trays 5x7 cm. (2 nos.) 10x7 cm (1 nos.), 8 well comb 1.5 mm (2 nos.) 3 well comb 3.0 mm (1no.) comb stand connecting cord & instruction manual.	11440-00 each
SI942	Power Supply for Electrophoresis Apparatus : It is very ideal for student practical classes & routine clicical work. It is designed to give 50, 100, 200, or 250 volts constantly indicated by LED on each point. Its maximum current is upto 100 mA.	3380-00 each
SI943	Bar Gel Polyacrylamide Electrophoresis Apparatus Circular : It is a traditional mechanism meant for running 8 gel tubes of 10cm long. Acrylic pipes are used to make its circular shape, cathode & anode electrode assembly is centrally mounted in circular shape, which provided uniform electrical flow. Three ventilators are provided in the lower buffer reservoir for cool air circulation. The elementary unit consists of anode reservoir (1 no.) Cathode reservoir (1 no.) Platinum Electrode assembly (Anode & Cathode) (2 nos.) Glass Tubes 10 cm (24 nos.) Slilicone Rubber Gromets Fixed & Spare (8+8Nos.) Rubber Bungs (12 nos.) Polythene Closers (24 nos.) gel casting stand (1 no.) Syringe with needle (1 no.) Power cord (1 no.)	8,400-00 each
SI944	Power Supply for Bar Gel Polyacrylamide Electrophoresis Apparatus : Stablized DC power supply with course and fine control knobs to set at any voltage from 0 to 300V and constant current upto 100 mA.	10400-00 each

OIL & PETROLEUM TESTING INSTRUMENTS

SI945	Redwood Viscometer No. 1 : Electrically heated with energy regulator for temperature control.	19500-00 each
SI946	Redwood Viscometer No. 2 : Electrically heated with energy regulator for temperature control.	23400-00 each
SI947	Abels Flash Point Apparatus : This apparatus is suitable for determining the close up flash point of petroleum and mixture according to IP 33 and IP 170 and IS 1448 (Part 1) 1985 (P :20). It is supplied with oil cup cover, fitted stirrer, themometer socket, S.S. water bath and stand. An electic heater is fitted at the bottom for operation on 220 volts AC circuits. With oil test jet, electrically heated with energy regulator control.	18850-00 each

SS1109	Pensky Martens Flash Point Apparatus : is made as per IP 34, ASTM D-93-58 T and IS 1448 (Part 1) 1270 (P : 21) and IS 1203-1953 method B. The apparatus consists of brass test cup with handle removable cup cover, With spring operated rotating shutter having pilot jet and stirrer with flexible shaft. The assembly rests in a air bath which is covered with dome shape metal top, the cup is fitted with insulated handle and locking arrangement near cup flange and the assembly is kept on round shape electric heater with temperature regulator. Suitable for operation on 220 volts 50 cycles AC circuits. With oil test jet, electrically heated with energy regulator control.	19500-00 each
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PHYSIOLOGY APPARATUS

SI948	Kymograph : Electrical Recording Drum 4/8 speed gear system or 8 speed direct. Electrically driven drum suitable for general experimental working. With S.S. spindle on ball-bearing movement, aluminum cylinder 6" dia, robust gear clutch. The cylinder is raised or lowered and is locked in position by a small lever.	15600-00 each
SI949	Accessories For Kymograph : Set of seven accessories for conducting Simple Muscle Twitch Experiment viz. Adjustable Stand, Myograph, Induction Coil, Simple Electrode, Tuning Fork N-100, Weight Set, Power Supply, Glazed Paper Sheet.	9100-00 each
SI950	Organ Bath (Single Unit) : Made of transparent acrylic sheet, chemically welded to make it perfectly leak-proof. Complete with uprights, organ & oxygen tubes, capillary tubing, frontal lever. Temperature by immersion heater controlled by a Thermostat. Chamber Size : 7"x5"x5"	5200-00 each
SI951	Simple Lever Brass	225-00 each
SI952	Starling Heart Lever	260-00 each
SI953	Frontal Writing Lever	85-00 each
SI954	Aeration Tube	45-00 each
SI955	Symes Cannula	35-00 each
SI956	Mayograph Board 6x4 board with cork top, clamp and fork.	320-00 each
SI957	Spirometer 6 ltr. capacity with chain compensated counter balance to the float.	13780-00 each
SI958	Tablet Marking Machine : Hand operated. Single punch for making tablets upto 1000 mg. Built of heavy cast body.	21450-00 each
SI959	Capsule Filling Machine : A versatile lever operated semi-automatic machine for various operations.	24700-each
SI960	Bottle Filling Machine : Semi-automatic electric operated.	19500-00 each
SI961	Bottle Sealing Machine : Hand operated.	12220-00 each
SI962	Tube Filling Machine Collapsible : Stroke type, barrel and piston arrangement with stroke setting.	9,000-each
SI963	Tube Sealing Machine : Hand lever sliding movements with toughed jaws. Robust construction.	2990-00 each
SI964	Ampoule Filling & Sealing Machine : Hand operated.	16120-00 each

SS1127.	Tablet Coating Pan : The machine is worked by oil immersed gear box with 1/4 H.P. motor. Air blower is operated independently.	19500-00 each
SI965	Ball Mill : Motor Driven, capacity 1 kg built on metal platform with geared motor.	16120-00 each
SI966	Tincture Press : Extra heavy for making tinctures.	3380-00 each
SI967	Suppository Moulds : Made of brass. 4-Moulds set, Cap. 1gm/1.5gm 6-Moulds set, Cap. 1gm/1.5gm 12- Moulds set, Cap. 1gm/1.5gm	780-00 each 880-00 each 1040-00 each
SI968	Friability Test Apparatus : Single Drum, Used to determine the durability and abrasiveness of tablet.	13520-each
SI969	Tablet Hardness Tester Monsanto type : Made of brass, the scale is adjustable for zero setting.	2150-00 each
SI970	Tablet Hardness Tester Pfizer Type : Capacity 0-20 kg dial type, packed in box.	8580-00 each
SI971	Pole Climbing Apparatus : Outer chamber made of thick plywood sheet with an observation window and inner animal chamber is made of clear acrylic sheet bottom of which is provided with chrome plated brass bars. A latest design with latest solid state circuitry for lumes and shocks have been incorporated. All controls are provided on the front-side panel. A shock for controlled duration of 100V AC 50Hz single phase-0.2 mA is built-in and is controlled by built-in and is controlled by built-in 11 position tuner. Output for connection to Kymograph or recorder has been brought out as terminal. An animal dropping removal tray has been provided for keeping the equipment clean.	22100-00 each
SI972	Actophotometer (Activity cage) Complete with 6 photo-cell and digital counter, with perspex chamber, variable intensity 100V (max.) in steps.	16640-00 each
SI973	Analgesiometer : 1. Radial heat type or Tail flicker type 2. Contact heat type. 3. Eddy's hot plate for determining Analgesic effect of drugs, digital.	9360-00 each 12350-00 each 18200-00 each
SI974	Electro Convulsometer : Used for anti-convulsion & Epileptic drug experiments. Provides 50 Hz A.C. Stimulus for producing min. & max. seizures	14300-00 each
SI975	Stimulators : Student Stimulator-transistorized .	3120-00 each

PSYCHOLOGY APPARATUS

SI976	Mirror Drawing Apparatus Electrical with 2 zero Reset	9490-00 each
SI977	Vernier Chronoscope Pendulum type with 4 lights	7150-00 each
SI978	Perimeter (with stand) working model	15600-00 each
SI979	Two Hand Co-ordination Electrical with zero reset	5980-00 each
SI980	Phy-Phenomenon Apparatus	11700-00 each

SS1144	Muller Layer Illusions (with Metal Stand)	2340-00 each
SI981	)Tachistoscope (Fall Door Type	3380-00 each
SI982	Mac Dougall Disc	1300-00 each
SI983	Finger Dexterity Apparatus	1560-00 each
SI984	Ascending Weight Apparatus (Weight Discrimination App.)	1755-00 each
SI985	Memory Drum	3510-00 each
SI986	Card Sorting Tray	1365-00 each
SI987	Human Maze Electrical	7280-00 each
SI988	Mirror drawing with digital timer & digital error counter	17680-00 each
SI989	Human Maze with digital timer & Digital error counter	17680-00 each

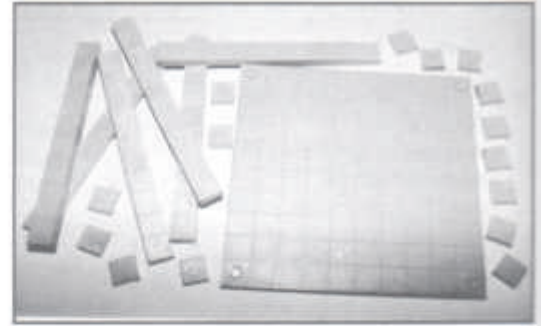
MATHEMATICS



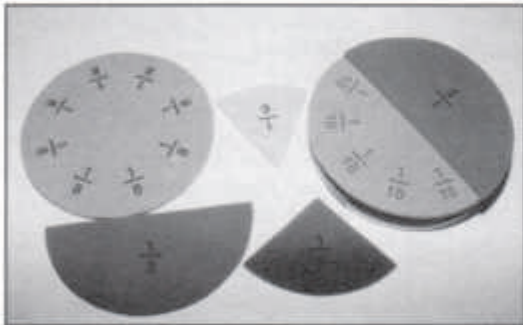
Time Kit



Place Value Card



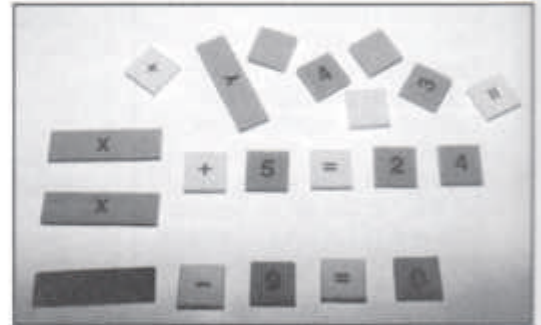
French Fries Kit



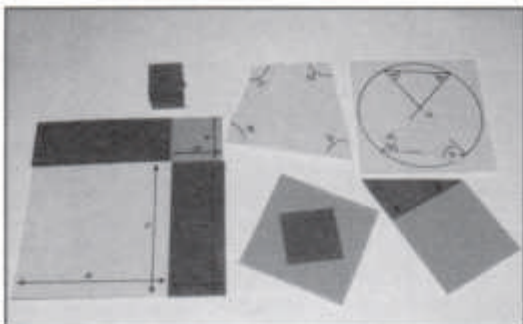
Fraction Burger



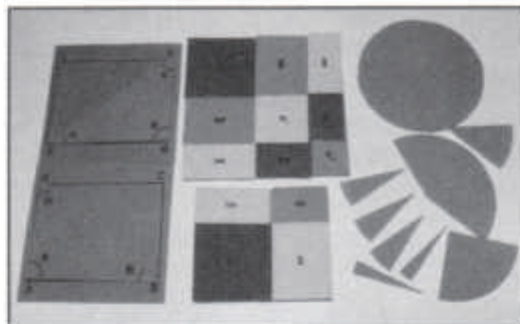
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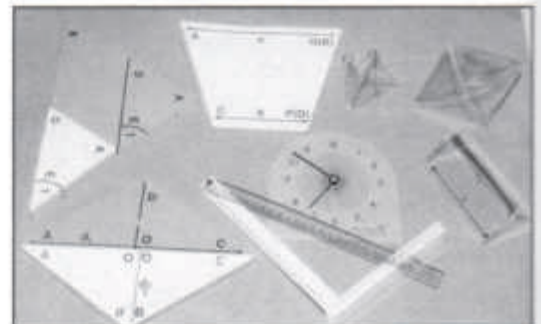
Algebra Kit



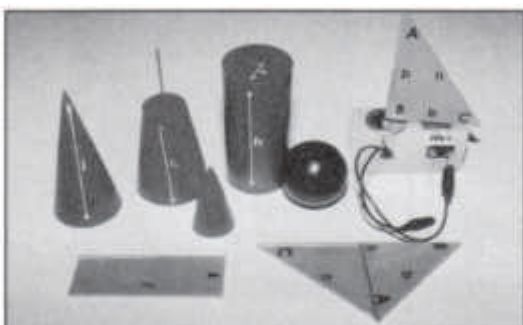
Kits for 7th Class



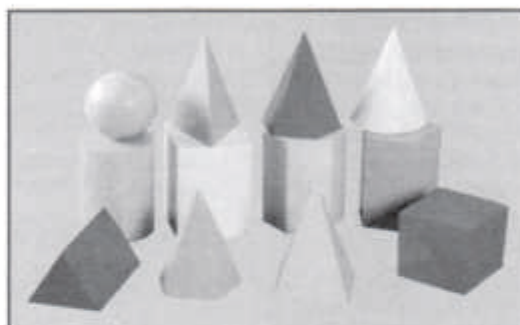
Kits for 8th Class



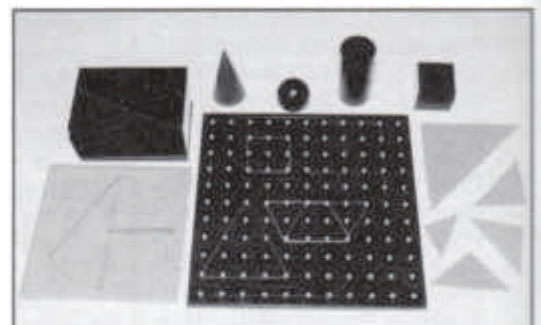
Kits for 9th Class



Kits for 10th Class



Drawing Models



Geometry Kit

ITEMS FOR YOUR MATHEMATICS LABORATORY

As Mathematics Lab is now compulsory for each every school, we have included following models, instruments, charts and transparencies.

MATHMATICS INSTRUMENTS & MODELS

SI990	Mathematical Signs: A set of 100 pieces to teach math, basic signs to the kids, provided with magnets to fix the signs on magnetic board.	1140-00 each
SI991	Time Teacher : Demonstration type, overall size 60x40 cm with table stand, to teach 24-hours time concept and format.	1950-00 each
SI992	Time Teacher, Handy: To teach time concept a) Based on 12- hours format b) Based on 24-hours format	140-00 each 140-00 each
SI993	Clock Face Dials: Simple time learning tool.	50-00 each
SI994	Clock Stamp : Rubber stamp for teachers to fix impression of clock in student's note book for exercise.	120-00 each
SI995	Dice Large, Wooden : Large size, wooden, to learn probability.	145-00 each
SI996	Base Board (Magnetic): Set of two, wall hangin board 1-100 marked magnetic and 10 blank magnetic squares, equipment used to teach problem of a) Number missing b) Table problems c) Next number & previous number problems d) Comparison problems e) Arithmetic problems	2120-00 each
SI997	Base Board Ink stamps : Set of two stamps for teachers to fix impression of 1-100 number grid as well as blank 100-grid impression in student note book for exercise.	800-00 each
SI998	Circle Fraction (Magnetic) : A set of circle fraction 1, 2, 3, 4, 5, 6, 8, & 10 using magnets for classroom demonstration to solve. a) Multiplication b) Addition c) Subtraction d) Division e) Comparison of fraction etc.	1540-00 each
SI999	Circle Fraction (Non-Magnetic) : With base-keeper set of circle fraction as above but non-magnetic supplied with one keeper for placing fractions.	1170-00 each
SI1000	Fraction Keeper Spare	200-00 each
SI1001	Rectangular Fraction (Magnetic) : Set of rectangular colored pieces representing halves, thirds, fourths, fifths, sixths, eighths, tenths and one whole.	1040-00 each
SI1002	Subtraction of 2-digit number (Magnetic): Magnetic wall hanging board to solve two digit subtraction problem with help of squares.	1040-00 each
SI1003	Abacus Junior 3 - Rows: 3 - rows each containing 10 beads for learning counting	240-00 each
SI1004	Abacus Junior 10 - Rows: Horizontal 10 rows, 2 colors each containing 10 plastic beads fitted on stand & wooden frame.	690-00 each

SS1169	Abacus Senior 5-Raws: Each row contains 10 coloured beads of size 38 mm. provided with mathematical signs to solve. a) Place Value Problems b) Addition & Subtraction Problems c) To read Decimal	850-00 each
SI1005	Abacus-10-Rows / Place Value Board : Same as above but 10-rows to solve whole number to billion, decimal to 10 thousand and number system including comma, decimal points etc.	1600-00 each
SI1006	Sum of 3 angles of triangle is 180° (Magnetic) : Magnetic, class room demonstration to prove the principle. Set of 4 parts.	390-00 each
SI1007	Sum of 3 angles of triangle is 360° (Magnetic) : To prove every quadrilateral has an angle sum total of 360°, Set of 5 parts.	650-00 each
SI1008	Verification of a^2-b^2 (Magnetic): Magnetic equipment along with theoretical proof. Set of 4 parts.	510-00 each
SI1009	Finding the Incenter of different types of triangles: Magnetic set containing 4 types (Right Angle, Obtuse Angle, Equilateral Triangle) Set sectioned in parts.	1950-00 each
SI1010	Circum center of a triangle (Magnetic) : Contains 3-types (Right Angle, Obtuse Angle & Acute Angle triangle) set sectioned in parts.	1330-00 each
SI1011	To illustrate the mid-point theorem (Magnetic): To prove the principle.	840-00 each
SI1012	Ratio of area of similar triangles ((Magnetic): Set of 4-parts.	490-00 each
SI1013	To draw a triangle equal in area of square (Magnetic): Set of 5-parts.	520-00 each
SI1014	To draw a triangle equal in area of parallelogram (Magnetic): Set of 3-parts.	550-00 each
SI1015	Equal chords of congruent circles subtend equal angles: Set of 3 parts.	490-00 each
SI1016	Verification of $(a+b)^2$:	910-00 each
SI1017	Verification of algebraic identity $(a+b)^3$: Colourful, clearly marked comprising of 9 parts	910-00 each
SI1018	To verify Pythagoras Theorem (Magnetic): Magnetic equipment to verify square on the hypotaneous is equal to sum of squares on the other two sides.	1000-00 each
SI1019	Geo Board (Junior) double sided: Sturdy board with square pin array on one side and circular pins fitted on other side, supplied with rubber bands.	970-00 each
SI1020	Geo Board (Senior) double sided: Same as above, with printing of x & y axis on one side and circular degree divisions on the other side.	1100-00 each
SI1021	Geo Board Ink Stamps: Rubber Stamps set of 2, square and round side arrangement as per Geo Board. Teacher can have impression on student's note book.	420-00 each
SI1022	To study quadrilateral triangle, polygon etc. (Geometrical Shapes): Magnetic Set of 12 shapes to study basic Geometrical shapes.	760-00 each
SI1023	2-D template stamps set (Geometrical Shapes Stamps): Set of rubber stamps to make an impression of geometrical shapes on the student's note book for exercise.	980-00 each
SI1024	To study volume relation between cone & cylinder: Cone and Cylinder fabricated from sheet metal duly painted. To demonstrate volumetric relationship.	780-00 each

SS1190	Volumetric study of different level by jug & beaker: Set of five to study deferent volume level.	320-00 each
SI1025	Study of relationship between cubic centimeter and millimeter: Clear acrylic container, cubical shaped, capacity one litre, printed millimeter level and height.	1560-00 each
SI1026	To study volume of cylinder - 2 Parts: A set of two cylinders. One small cylinder fits into the large one.	1430-00 each
SI1027	3-D Model of Tetrahedron: Large shape geometrical figure, four equal triangular faces, attractive coloured, made of medium density fiber board.	820-00 each
SI1028	3-D Model of Hexahedron: Large geometrical, six equal triangular faces, construction as above	755-00 each
SI1029	3-D Model of Octahedron: Construction as above. Eight equal triangular faces.	755-00 each
SI1030	3-D Model of pyramid -2 Parts: Large triangular base pyramid section of two parts.	885-00 each
SI1031	3-D Model of Pyramid, Vertical Cross section: In two parts showing in vertical axis.	1330-00 each
SI1032	3-D Model of Pyramid, section from a cube: Large 30cm, section of two parts showing pyramid section.	1330-00 each
SI1033	3-D Model of Cube, section in two right angular prisms: Cubical shape, section in two parts two right angular prisms from acube.	1260-00each
SI1034	3-D Model of cylinder, in two semi cylinders: Large cylinder having vertical section of two parts.	1210-00 each
SI1035	3-D Model of Frustum of cone: Large conical shape with top cut parallel to base showing frustum.	755-00 each
SI1036	3-D Model of Truncated Cone: Conical shape with top angular cut.	755-00 each
SI1037	3-D Model of sphere, section in two hemispheres: 15 cm dia made out of medium density fiber board, sphere is sectioned in two parts	780-00 each
SI1038	3-D Model of Cone, section in 5 parts showing truncated, frustum, hyperbola and parabola.	1950-00 each
SI1039	Geometrical Model 10 cm plastic set of 12 Single Coloured	455-00 each
SI1040	Geometrical Model 10cm palstic set of 12 Multi Coloured	780-00 each
SI1041	Geometrical Models : Set of 12, wooden size (10x15cm) Technically perfect	1690-00 each
SI1042	Geometrical Models : Large size 15x30cm set of 12 made from medium density fibre board, multi coloured	4600-00 each
SI1043	Stamps set for 3-D Models : Set of Stamps of 3-D models, impressions for Student's notebook for exercise.	910-00 each
SI1044	3-D Geometrical models spare: Made out of medium density fibre board, multi coloured:	
	a) Cube : Size 15x15 cm.	430-00 each
	b) Cuboid : Size 15x15x30 cm.	520-00 each

c)	Sphere	:	Size Dia. 15 cm.	520-00 each
d)	Pyramid Triangular	:	Base Size 15x30 cm	700-00 each
e)	Pyramid Hexagonal	:	Base Size 15x30 cm.	700-00 each
f)	Pyramid Square	:	Base Size 15x30 cm.	700-00 each
g)	Prism Hexagonal base	:	Prism has two hexagonal faces and six rectangular face. Size 15x30 cm.	520-00 each
h)	Prism Octagonal	:	Two eight sided Octagonal faces and eight rectangular faces. Size 15x30cm	585-00 each
i)	Cone	:	Circular base dia, 15 cm and conical height 30 cm.	700-00 each
j)	Cylinder	:	Two circular faces of dia 15 cm and height 30 cm.	700-00 each
k)	Prisms Pentagonal	:	Two five sides polygon faces and five rectangular faces. Overall size 15x30cm.	700-00 each
SI1045	Area of a Parallelogram (Magnetic) : Set of 3 Parts. Magnetic for demonstration on a magnetic board along with theoretical proof with instruction manual.			755-00 each
SI1046	Properties of Parallelogram (Magnetic) : Set of 5 parts showing; Angle, sides, diagonal properties, magnetic, for class room demonstration with instruction manual.			1145-00 each
SI1047	Area of Right angle triangle (Magnetic) : Set of 4 parts with instruction manual.			570-00 each
SI1048	Area of Acute angle triangle (Magnetic) : Set of 3 parts with instruction manual.			755-00 each
SI1049	Area of Obtuse angle triangle (Magnetic) : Set of 3 parts with instruction manual.			755-00 each
SI1050	Area of Rhombus (Magnetic) : Set of 5 parts to calculate area of rhombus with instruction manual.			755-00 each
SI1051	Area of Trapezium (Magnetic) : Set of 4 parts with instruction manual.			755-00 each
SI1052	Mathematical Charts Poly Art : Based on mathematical syllabus printed on poly art material size 75x100cm covering the following heads:			480-00 each
	1)	Time Number	2)	Measures
	3)	Shape	4)	Geometry
	5)	Data	6)	Fraction, Decimal & Percentage
	7)	Formulas for shapes	8)	Money
	9)	Patterns	10)	Algebra
	11)	Investigation	12)	Plane figures (Triangles)
	13)	Plane figure	14)	Plane figures (Polygon & Circle)
	15)	3-D figure	16)	Co-ordinate Geometry
	17)	Transformation Geometry	18)	Trigonometry
	19)	Trigonometric Rations and value	20)	Graph of Trigonometric function
SI1053	Mathematical Transparencies :			
	a)	Original Colours		90-00 each
	b)	Hand Coloured		55-00 each

For teaching below mentioned subject with over head projector.

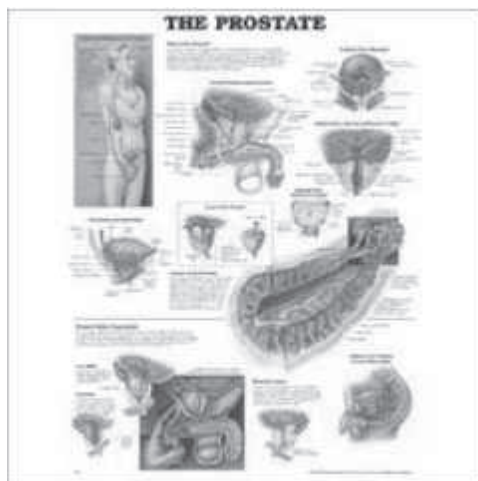
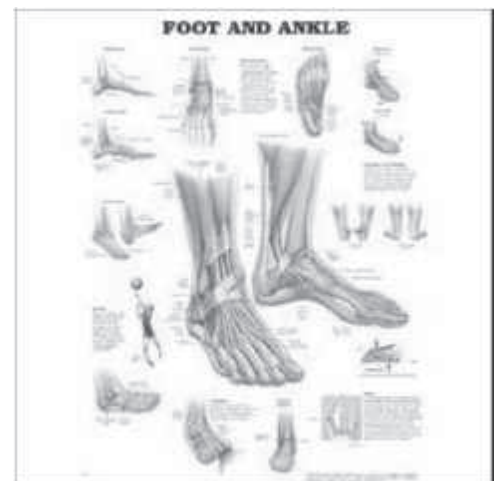
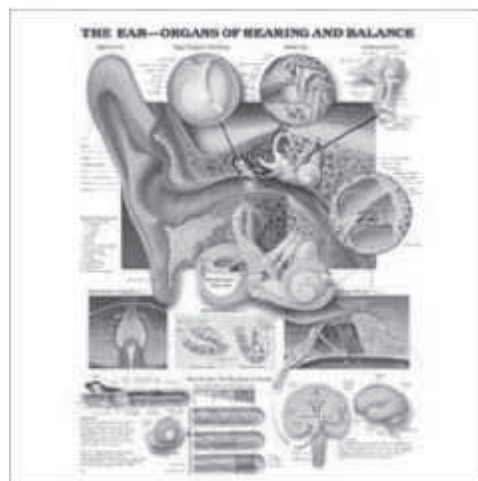
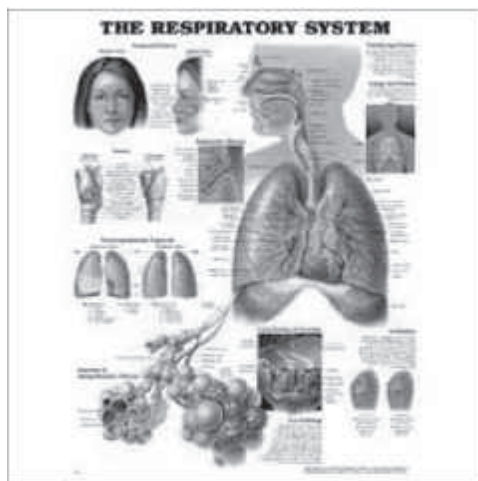
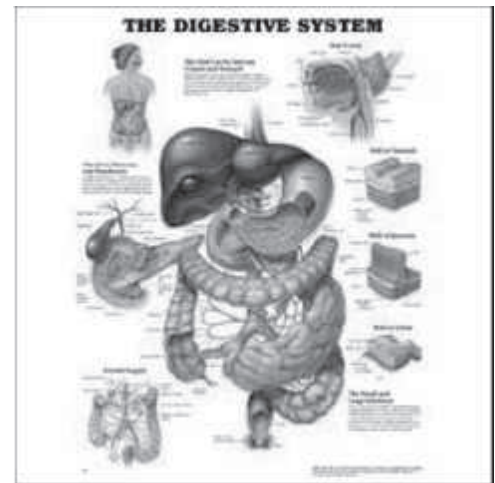
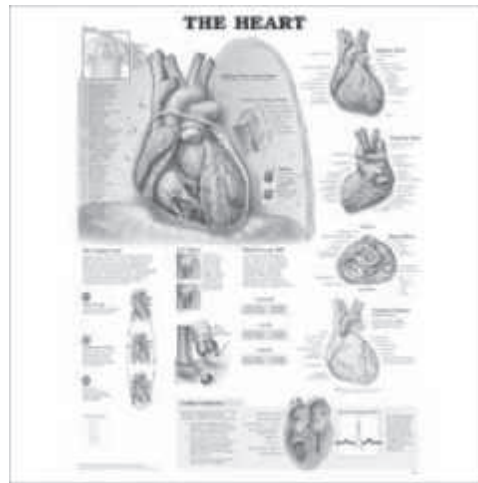
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|-------------------------------|-----------------------------|
| 1) Symbols | 2) Sum Sets |
| 3) Type of Sets | 4) Type of Sets |
| 5) Symmetry of Solids | 6) Types of Number Line |
| 7) Some Properties of Number | 8) Expansion |
| 9) Pascal's Triangle | 10) Graphs |
| 11) Line & Angle | 12) Congruence |
| 13) Symmetry of Plain figures | 14) Reflection and Rotation |
| 15) Euler's Formula | |

SI1054 **Portraits of Mathematicians:** Size 31x43 cms. With PVC bindings 470-00 each

- | | |
|-------------------------|--------------------|
| 1) Archimedes | 2) Georg Cantor |
| 3) Rene Descartes | 4) Types of Sets |
| 5) Leonhard Euler | 6) Pierre de Ferma |
| 7) J.C. Friedrich Gauss | 8) Lagrange |
| 9) La place | 10) Leibniz |
| 11) Lady Love Lace | 14) Pythagoras |
| 15) Zeno of Elea | 16) Riemann |
| 17) Ramanujan | 18) Aryabhatta |
| 19) Varah Mihir | 20) Bhaskaracharya |

SI1055	Same as above but with ABS molded framing	520-00 each
SI1056	Clinometer: Mathematical Instruments to measure the angle of elevation/ depression of an object.	1470-00 each
SI1057	Tangram Puzzle set of seven	57-00 each
SI1058	Dominoes Math Activity Game	460-00 each
SI1059	Trundle Wheel (Metric Teaching Device)	1080-00 each
SI1060	3-D Model of Dodecahedron: Made of medium density fiber board 12 Pentagonal faces.	1690-00 each
SI1061	3-D Model of Icosahedron: Made of medium density fiber board 20 triangles faces.	1690-00 each
SI1062	3-D Model of Parallelepiped: Made of medium density fiber board section of two parts (Two Equilateral Prism)	940-00 each

CHARTS



PHYSICS

OPTICS

- 1 Optical Fibre- Basic Principle
- 2 Fibre Splicer, Coupler And Connector
- 3 Refraction Of Light
- 4 Reflection Of Light
- 5 Chromatic Aberrations & Their Remedies
- 6 Optical Microscope
- 7 Optical Telescope
- 8 Michelson's Interferometer
- 9 Light Dispersion
- 10 Light Diffraction
- 11 Light Polarisation
- 12 Light Interference
- 13 Images Formed By Lenses
- 14 Images Formed By Mirrors

MECHANICS

- 1 Simple Pendulum & Harmonic Oscillators
- 2 Moment Of Inertia
- 3 Cantilevers & Centrally Loaded Beams
- 4 Gallilean & Lorenz Transformations
- 5 Elasticity-Hooke's Law
- 6 Surface Tension
- 7 Newton's Laws Of Motion
- 8 Dimensional Formulae

ATOMIC & NUCLEAR PHYSICS CHARTS

- 1 Structure of Atom
- 2 Nuclear Fission Reactors
- 3 Zeeman & Paschen-Back Effect
- 4 Stark & Raman Effect
- 5 Effects Of Radiation On Humans
- 6 Particle Accelerator-Cyclotron
- 7 Nuclear Radiation Detectors-I
- 8 Nuclear Radiation Detectors-II
- 9 Atomic Reactor
- 10 Nuclear Fission & Fusion

HEAT & THERMODYNAMICS

- 1 Thermodynamical Processes
- 2 Calorimeter (Joule's Method)

- 3 Joule's Thomson Experiment
- 4 Heat Transfer
- 5 Types & Uses Of Thermometers
- 6 Carnot Cycle
- 7 Inter Conversion Of Energy Forms
- 8 Engines (Internal & External Combustion)

MODERN PHYSICS

- 1 Holography
- 2 Compton's Effect
- 3 Basic Laser Device And Laser Action
- 4 Lasers-Types
- 5 Michelson - Morley Experiment
- 6 Davisson & Germer Experiment
- 7 Lasers-Basic Principle
- 8 Photoelectric Effect
- 9 Origin of X-Rays

ELECTRICITY & MAGNETISM

- 1 Simple Electric Circuit
- 2 AC Circuits
- 3 Magnetic Circuits
- 4 Hysteresis Curve
- 5 Maxwell's Equations
- 6 Hall Effect
- 7 Hydro Electric Power Project (DAM)
- 8 Uses of Electricity In Daily Life
- 9 Kirchoff's Laws
- 10 Magnet & Its Properties
- 11 Electro Magnetic Induction

SOLID STATE PHYSICS

- 1 X-Ray Diffraction & Bragg's Law
- 2 Bragg's Spectrometer
- 3 Types of Crystal Structure Part-I
- 4 Types of Crystal Structure Part-II

ELECTRONICS

- 1 Cathode Ray Oscilloscope
- 2 Solar Cell
- 3 Semi-Conductor-I
- 4 Semi-Conductor-II
- 5 Oscillators
- 6 Logic Gates
- 7 Transistor Characteristics

- 8 Triode Characteristics
- 9 Rectifiers
- 10 Electronic Symbols-I
- 11 Electronics Symbols-II

SPACE

- 1 The Solar System
- 2 Solar & Lunar Eclipses
- 3 Galaxies

CHEMISTRY

GENERAL

- 1 Jumbo Periodic Table
- 2 Periodic Tables Of The Elements
- 3 First Aid In Laboratory
- 4 Laboratory Safety Measures
- 5 Techniques Used In Laboratory

PHYSICAL

- 1 Structure Of Atom
- 2 Nuclear Fission Reactor
- 3 Zeeman & Paschen-Back Effect
- 4 Stark & Raman Effect
- 5 Particle Accelerator-Cyclotron
- 6 Nuclear Radiation Detectors
- 7 Atomic Reactor
- 8 Nuclear Fission & Fusion
- 9 Types of Crystal Structure
- 10 Shapes of Atomic Orbitals
- 11 Relative Energies of Orbitals
- 12 Formation of Molecular Orbitals
- 13 Geometry of Molecules Part - I
- 14 Geometry of Molecules Part - II
- 15 Structure of Ionic Solids
- 16 3D Arrangement In Solids
- 17 Types of Cells
- 18 Separation Of Substances
- 19 Liquefaction Of Gases
- 20 Lattice Defects
- 21 Michaelis-Menten Equation
- 22 Radioactivity

ORGANIC

- 1 Hybridisation
- 2 Orbital Structure Of Benzene

- 3 Confirmation In Hydrocarbons
- 4 Structural Isomerism Part - I
- 5 Structural Isomerism Part - II
- 6 Stereoisomerism Part -I
- 7 Stereoisomerism Part -II
- 8 Refining Of Petroleum
- 9 Synthetic Polymers
- 10 Natural & Synthetic Rubbers
- 11 Preparation Of CH₄, C₂H₄ & C₂H₂
- 12 Chromatography
- 13 Synthetic Dyes

INORGANIC

- 1 Estimation of Nitrogen
- 2 Determination of Molecular Mass
- 3 Extraction of Metals
- 4 Preparation of Oxygen
- 5 Preparation of Hydrogen
- 6 Preparation of Nitric Acid
- 7 Manufacture of Ammonia
- 8 Manufacture of Sulphuric Acid
- 9 Preparation of Carbon Dioxide
- 10 Preparation of Hydro Chloric Acid
- 11 Extraction of Aluminium
- 12 Extraction of Copper
- 13 Oxidation & Reduction
- 14 Extraction of Iron
- 15 Distillation
- 16 Soap Manufacturing
- 17 Principle Of Extraction
- 18 Corrosion
- 19 Acids, Bases & Salts
- 20 Electrolysis
- 21 Manufacturing Of Cement
- 22 Organometallic Compounds
- 23 Chemical Analysis Of Food Articles

BIOLOGY

NUTRITION

- 1 Balanced Diet
- 2 Vitamins

GENETICS

- 1 Dihybrid Crossing
- 2 Monohybrid Crossing

- 3 Mendelian Explanation Garden Pea
- 4 Sex Linked Inheritance In Drosophila
- 4 Mutations & Chromosomal Aberrations
- 5 Linkage & Crossing Over
- 6 Analogous Organs: Plants
- 7 Homologous Organs: Plants
- 8 Analogous Organs: Animals
- 9 Homologous Organs: Animals
- 10 Pedigree Analysis: Rolling Tongue
- 11 Pedigree Analysis: Blood Group
- 12 Pedigree Analysis: Color Blindness
- 13 Pedigree Analysis: Widow's Peak

CYTOLOGY

- 1 Cell Membrane
- 2 Plant Cell Wall
- 3 Endoplasmic Reticulum
- 4 Mitochondria
- 5 Golgi Complex
- 6 Chloroplast
- 7 Nucleus
- 8 The Chromosome
- 9 Gene Map - Male
- 10 Gene Map - Female
- 11 Protein Synthesis
- 12 D.N.A
- 13 R.N.A.
- 14 Centrioles , Flagella & Cilia
- 15 Enzymes
- 16 Ribosomes & Lysosomes

PLANT PHYSIOLOGY

- 1 Plant Respiration
- 2 Plant Transpiration
- 3 Plant Osmosis & Root Pressure
- 4 Photosynthesis - Light Reaction
- 5 Photosynthesis - Dark Reaction
- 6 Glycolysis

PLANT PATHOLOGY

- 1 Plant Diseases : Bacterial & Viral
- 2 Plant Diseases: Fungal
- 3 Krebs Cycle

MEDICINAL PLANTS

- 1 Medicinal Plants -I (Exported From

- India)
- 2 Medicinal Plants -II (Imported in India)
- 3 Medicinal Plants -III (Endangered Species)
- 4 Medicinal Plants -IV (Prohibited to Export from India)

BIO CHEMISTRY

BIO CHEMISTRY CHARTS

- 1 Structure Of Mitochondria
- 2 Chloroplast Structure
- 3 Calvin Cycle (C₃ Cycle)
- 4 Carbohydrates - I
- 5 Carbohydrates - II
- 6 Lipids
- 7 β Oxidation Of Fatty Acids
- 8 Urea Cycle
- 9 Aminoacyl-t RNA Biosynthesis
- 10 Carbohydrate Metabolism - TCA Cycle
- 11 Photosynthesis: Photosynthetic Electron Transport Chain
- 12 Carbohydrate Metabolism - Glycogenesis & Glycogenolysis
- 13 Proteins (Structural Organization)
- 14 Nucleic Acid – DNA
- 15 Nucleic Acid -RNA
- 16 Central Dogma
- 17 Enzymes Detailed
- 18 Carbohydrate Metabolism - Glycolysis
- 19 Carbohydrate Metabolism - Gluconeogenesis
- 20 C₄ Cycle And CAM Plants
- 21 Biosynthesis Of Triglycerides & Cholesterol
- 22 Biosynthesis Of Saturated Fatty Acids
- 23 Amino Acid Metabolism
- 24 Bacterial Genetic Transformation
- 25 Hershey - Chase Experiment
- 26 Mechanism Of Blood Coagulation
- 27 Hormones And Their Physiological Roles
- 28 Biochemical Aspects Of Diabetes Mellitus
- 29 Phosphotransferase System (PTS)
- 30 ABC Transporters

- 31 Ribosome
- 32 Translation Factors

BIO TECHNOLOGY

BIO TECHNOLOGY CHARTS

- 1 DNA-Structure
- 2 Mendelian Laws Of Inheritance
- 3 Method Of Sterilization
- 4 Microbial Species And Strains
- 5 Hypersensitive Reactions
- 6 Immune Response To An Infection
- 7 Blotting Techniques
- 8 HIV Life Cycle
- 9 Genetic Code
- 10 Prokaryotic Gene Expression
- 11 The Immune System
- 12 Antigen - Antibody Interactions
- 13 Cell Culture (Primary & Secondary)
- 14 Genetic Engineering
- 15 Recombinant DNA Technology
- 16 Gene Cloning And Transfer
- 17 Transgenic Animals
- 18 Environmental Biotechnology
- 19 Gene Interactions
- 20 Genetic Disorders
- 21 Microbial Genetics
- 22 Immunoglobulin Structure
- 23 B & T Lymphocytes
- 24 Humoral & Cell Mediated Immunity
- 25 PCR (Polymerase Chain Reaction)
- 26 Complement System
- 27 MHC Class -I Molecule
- 28 MHC Class -II Molecule
- 29 Mutations And Chromosomal Aberrations
- 30 Linkage And Crossing Over

BOTANY

ALGAE

- 1 Chlamydomonas Structure & Life Cycle
- 2 Ullothrix Structure & Life Cycle
- 3 Oedogonium Life Cycle

- 4 Spirogyra Structure & Conjugation
- 5 Chara Structure and Life History
- 6 Volvox Structure and Life History
- 7 Oscillatoria Structure and Life History
- 8 Nostoc Structure and Life History
- 9 Batrachospermum Structure & Life History
- 10 Polysiphonia Structure & Life History
- 11 Ectocarpus Structure & Life Cycle
- 12 Dictyota Structure and Life History
- 13 Fucus Structure & Life Cycle
- 14 Vaucheria Structure & Life History
- 15 Sargassum Structure & L.H.
- 16 Diatoms Structure & Reproduction

FUNGI

- 1 Rhizopus Structure & Life History
- 2 Mucor Structure & Life History
- 3 Yeast : Saccharomyces
- 4 Bacteria -I Structure and Forms
- 5 Bacteria-II Showing Reproduction
- 6 Virus types, Structure and Life History
- 7 Penicillium Structure & Life History
- 8 Albugo (Cystopus) Str. & Reproduction
- 9 Phytophthora Structure and Life History
- 10 Puccinia graminis Structure & Life History
- 11 Agaricus Structure & Life History
- 12 Peziza Structure & Reproduction
- 13 Lichens Structure & Types
- 14 Aspergillus Structure & Life History

PLANT PATHOLOGY

- 1 Plant Diseases :Bacterial
- 2 Plant Diseases : Fungal and Viral

HISTOLOGY

- 1 Plant Anatomy Part I Simple Tissues, Parenchyma, Collenchyma & Sclerenchyma
- 2 Plant Anatomy Part II Showing Complex Tissues, Xylem
- 3 Plant Anatomy Part III Showing Complex Tissue Phloem

BRYOPHYTA, PTERIDOPHYTA

- 1 Riccia Structure & reproduction
- 2 Marchantia Structure & Life History
- 3 Anthoceros Structure & reproduction
- 4 Funaria (Moss) Life History
- 5 Selaginella Reproduction
- 6 Selaginella Structure
- 7 Psilotum Life History
- 8 Psilotum Structure
- 9 Marselia Reproduction
- 10 Marselia Structure
- 11 Lycopodium Reproduction
- 12 Lycopodium Structure
- 13 Equisetum Reproduction
- 14 Equisetum Structure
- 15 Aspidium (Fern) Life History
- 16 Aspidium (Fern) Structure
- 17 Pteris (Fern) Life History
- 18 Pteris (Fern) Structure
- 19 Nephrolepis (Fern) Life History
- 20 Nephrolepis (Fern) Structure
- 21 Adiantum Life History
- 22 Adiantum Structure

ANGIOSPERMS

- 1 Plant cell (Ultra structure)
- 2 Mitosis in Plants
- 3 Meiosis in Plants
- 4 Structure of chromosome during mitosis
- 5 Structure of Chromosome during meiosis
- 6 Parts of a Plant (Mustard)
- 7 Plant Kingdom - I (Flowering)
- 8 Plant Kingdom - II (Non-flowering)
- 9 Datura Life Cycle
- 10 Insectivorous Plants
- 11 Comparison of Monocot & Dicot Plants
- 12 Forms of Androecium
- 13 Forms of Gynaecium
- 14 Placentation
- 15 Aestivation
- 16 Inflorescence-I (Simple, Racemose & Cymose)

- 17 Inflorescence - II (Compound & Special)
- 18 Different Types of Pollination
- 19 Forms of Ovules
- 20 Forms of Calyx & Corolla

GYMNOSPERMS

- 1 Cycas life history
- 2 Cycas Anatomy
- 3 Gnetum Life Cycle
- 4 Gnetum Anatomy
- 5 Ephedra Structure and Anatomy
- 6 Pinus Life History
- 7 Pinus Anatomy

SEEDS AND FRUITS

- 1 Hypogeal Seed Germination (Gram & Maize)
- 2 Epigeal Seed Germination (Bean & Sunflower)
- 3 Dispersal of Seeds & Fruits
- 4 Classification of Fruits

ROOTS, STEMS & LEAVES

- 1 T.S. Dicot root
- 2 T.S. Monocot root
- 3 T.S. Dicot stem
- 4 T.S. Monocot stem
- 5 T.S. Dicot leaf
- 6 T.S. Monocot leaf
- 7 T.S. Dicot stem sec. growth
- 8 T.S. Dicot root Secondary Growth
- 9 Root modification
- 10 Stem modification (Aerial)
- 11 Leaf modification
- 12 Vegetative propagation
- 13 Artificial propagation
- 14 Specialised stems
- 15 Typical leaf showing parts
- 16 Types of leaves
- 17 Simple leaves
- 18 Stipules
- 19 Leaf Venation
- 20 Compound Leaves
- 21 Phyllotaxy
- 22 Leaf Lamina

FLOWER & EMBRYOLOGY

- 1 Typical Flower Showing Parts
- 2 Fertilization Sh. germination of Pollen grain
- 3 Germination of Pollen Grain and Developmen of Male Gametophyte
- 4 T.S. Anther & Its Development
- 5 Megasporogenesis
- 6 Development of Embryo and Endosperms
- 7 Development of Embryo in Sagittaria
- 8 Embyro in Capsella
- 9 Microsporangium
- 10 Types of Embryo Sacs
- 11 Development of Monocot Embryo

TAXONOMY / FAMILIES

- 1 Ranunculus sceleratus
- 2 Delphinium ajacis (Larkspur)
- 3 Brassica campestris (Mustard)
- 4 Papaver rhoeas (Garden Poppy)
- 5 Argemone mexicana
- 6 Althaea rosea (Holly Hock)
- 7 Hibiscus rosa sinensis (Shoe Flower)
- 8 Gossypium herbaceum
- 9 Citrus aurantium
- 10 Murraya exotica (marua)
- 11 Lathyrus odoratus (Papilionateae)
- 12 Cassia fistula (Caesalpinioideae)
- 13 Acacia arabica (Mimosiaecae)
- 14 Rosa indica (Rose)
- 15 Prunus persica (Peach)
- 16 Luffa aegyptiaca
- 17 Chenopodium album
- 18 Ricinus communis
- 19 Polygonum
- 20 Helianthus annuus (Sunflower)
- 21 Sonchus asper
- 22 Solanum nigrum
- 23 Petunia hybrida
- 24 Calotropis procera (Aak)
- 25 Cryptostegia grandiflora
- 26 Salvia officinalis
- 27 Ocimum basilicum
- 28 Nerium odorum (Oleander)

- 29 Artabotrys odoratissimus (Champa)
- 30 Annona squamosa (Sitaphal)
- 31 Asphodelus tenuifolius
- 32 Allium cepa (Onion)
- 33 Avena sativa (Oat)
- 34 Zea mays (Maize)
- 35 Triticum vulgare (Wheat)
- 36 Oryza sativa (Rice or Paddy)
- 37 Coriandrum sativum (Dhanian)
- 38 Ipomoea palmate
- 39 Euphorbia pilulifera
- 40 Euphorbia splendens

HUMAN

PARASITOLOGY & DISEASE

- 1 Cardiovascular Disease
- 2 Malaria
- 3 Tuberculosis
- 4 Cholera
- 5 Typhoid
- 6 Dysentery
- 7 Diarrhoea
- 8 Filariasis
- 9 Leprosy
- 10 Pathogenic Protozoa
- 11 Entamoeba (Life Cycle)
- 12 Acquired Immuno Deficiency Syndrome (AIDS)
- 13 Enterobius Vermicularis (Pinworm)
- 14 Malarial Parasite Life History
- 15 Ascaris Lumbricoides Life History
- 16 Fasciola Hepatica (Liver Fluke) Life History
- 17 Ancylostoma Duodenale (Hookworm) L.C.
- 18 Deficiency Diseases
- 19 Vectors of Human Diseases
- 20 Colour Blindness & Hemophilia
- 21 Prevention of Diseases

SYSTEMS OF HUMAN BODY

- 1 Muscular System
- 2 Skeleton-I (Entire Skeleton, Vertebral Column & Skull)
- 3 Nervous System

- 4 Autonomic Nervous System
- 5 Arterial System
- 6 Venous System
- 7 Lymphatic System
- 8 Digestive System
- 9 Respiratory System
- 10 Excretory System
- 11 Female Reproductive System
- 12 Male Reproductive System
- 13 Endocrine System
- 14 Human Immune System

STRUCTURES/ ORGANS

- 1 DNA
- 2 RNA
- 3 The Cell
- 4 Gametogenesis
- 5 Fertilization
- 6 Oogenesis
- 7 Spermatogenesis
- 8 Heart
- 9 Brain
- 10 Skeleton-II (Vertebrae, Sacrum & Thoracic Cage)
- 11 Skeleton III (Girdles & Limbs)
- 12 Eye
- 13 Ear
- 14 Skin
- 15 Teeth
- 16 Kidney
- 17 Embryo Development
- 18 Human Anatomy
- 19 Human Blood Cells
- 20 Nose
- 21 Tongue
- 22 Human Joints
- 23 Menstrual Cycle
- 24 Spinal Cord
- 25 Sense Organs
- 26 Muscles
- 27 Bones & Cartilage

ZOOLOGY

CELLS AND TISSUE

- 1 Animal Cell (Ultra Structure)
- 2 Animal Mitosis (Cell Division)
- 3 Animal Meiosis (Cell Division)
- 4 Animal Tissues-I
- 5 Animal Tissues-II
- 6 Animal Tissues-III
- 7 Gametogenesis
- 8 Fertilization In Animals
- 9 Oogenesis
- 10 Spermatogenesis

MAMMALS

- 1 Rat External Characters
- 2 Rat General Anatomy
- 3 Rat Digestive System
- 4 Rat Male Reproductive System
- 5 Rat Female Reproductive System
- 6 Rat Excretory System
- 7 Rat Arterial System
- 8 Rat Venous System
- 9 Rat Nervous System
- 10 Rat Respiratory System
- 11 Rat Skeleton System
- 12 Rat Brain Different Views
- 13 Rat Heart Different Views

EVOLUTION

- 1 Animal Kingdom-II (Vertebrates)
- 2 Animal Kingdom-I (Invertebrates)
- 3 Evolution of Man
- 4 Phylogeny of Horses
- 5 JECK WELCH

COMPARATIVE STUDY

- 1 Vertebrate Hearts
- 2 Vertebrate Brains
- 3 Vertebrate Skulls
- 4 Vertebrate Girdles
- 5 Vertebrate Urinogenital System
- 6 Vertebrate Embryos
- 7 Vertebrate Arterial Arches Circulation
- 8 Vertebrate Genital & Venous System

AVES

- 1 Pigeon External & Internal Characters
- 2 Fowl Skeleton
- 3 Chick Embryo - 16 Hrs.
- 4 Chick Embryo - 24 Hrs.
- 5 Chick Embryo - 48 Hrs.
- 6 Chick Embryo - 96 Hrs
- 7 Beaks of Birds
- 8 Claws of Birds
- 9 Types of Birds

REPTILLA

- 1 Types Of Reptiles
- 2 Snakes Poisonous & Non Poisonous
- 3 Varanus Skeleton
- 4 Snake Types
- 5 Lizard External & Internal

AMPHIBIA

- 1 Frog External Characters
- 2 Frog Internal Anatomy
- 3 Frog Skeleton
- 4 Frog Skull Different Views
- 5 Frog Development -I Egg To Gastrulation
- 6 Frog Development-II Gastrula To Tadpoles
- 7 L.H. Frog Showing Metamorphosis
- 8 Frog Digestive System
- 9 Frog Nervous System
- 10 Frog Male Reproductive System
- 11 Frog Female Reproductive System
- 12 Frog Excretory System
- 13 Frog Arterial System
- 14 Frog Venous System
- 15 Frog Respiratory System
- 16 Frog Skin V.S
- 17 Frog Brain Different Views
- 18 Frog Heart Different Views

PISCES

- 1 Scoliodon External Characters
- 2 Scoliodon General Viscera
- 3 Scoliodon Digestive System
- 4 Scoliodon Brain Different Views
- 5 Scoliodon Skeleton

- 6 Scoliodon Male Urinogenital System
- 7 Scoliodon Venous Aystem
- 8 Scoliodon Arterial System
- 9 Scoliodon Cranial Nervous System
- 10 Scoliodon Receptor Organs
- 11 Labeo Rohita External Characters
- 12 Labeo Rohita Axial Skeleton
- 13 Labeo Rohita Skull
- 14 Amphioxus External Characters
- 15 Amphioxus T.S. Through Different Regions
- 16 Amphioxus Development
- 17 Amphioxus Excretory System
- 18 Fish Types

ECHINODERMATA

- 1 Starfish (Asterias) Ext.characters & Anatomy
- 2 Starfish (Asterias) Water Vascular System

MOLLUSCA

- 1 Unio Respiratory System
- 2 Pila Externa Characters
- 3 Pila Reproductive System
- 4 Pila Circulatory System
- 5 Pila Nervous System
- 6 Pila Sense Organs
- 7 Pila Res. & Excretory System
- 8 Pila Digestive System
- 9 Unio Externa Characters
- 10 Unio Circulatory System
- 11 Unio Internal Anatomy
- 12 Unio Nervous System
- 13 Unio Digestive System

ARTHROPODA

- 1 Beneficial Insects
- 2 Harmful Insects
- 3 Food Grain Pests
- 4 Housefly L.H
- 5 Mosquito L. H. Showing Comparison Of Culex & Anopheles
- 6 Butterfly L.H.
- 7 Honey Bee L.H.
- 8 Silkworm L.H.
- 9 Grasshopper L.H.

- 10 Cockroach L.H.
- 11 Cockroach Anatomy
- 12 Cockroach
- 13 Cockroach Mouth Parts
- 14 Cockroach Digestive System
- 15 Cockroach Respiratory System
- 16 Cockroach Circulatory System
- 17 Cockroach Nervous System
- 18 Cockroach Reproductive System
- 19 Prawn External Anatomy
- 20 Prawn Reproductive System
- 21 Prawn Digestive System
- 22 Prawn Excretory System
- 23 Prawn Nervous System
- 24 Prawn Circulatory System

ANNELIDA

- 1 Earthworm External Characters
- 2 Earthworm Internal Anatomy
- 3 Earthworm Development
- 4 Earthworm Reproductive System
- 5 Earthworm Nervous System
- 6 Earthworm Digestive System
- 7 Earthworm Excretory System
- 8 Earthworm Circulatory System

PLATYHELMINTHES

- 1 Taenia Solium Str. & L. H. (Tapeworm)
- 2 Ascaris Internal Str. Of Male & Female
- 3 Liverfluke Str. & Life History Ancylostoma Duodenale Life Cycle (Hook Worm)
- 4 Ancylostoma Duodenale Life Cycle (Hook Worm)

COELENTERATA

- 1 Obelia Structure
- 2 Hydra Structure & Internal Anatomy
- 3 Corals & Coral Reefs

PORIFERA

- 1 Phylum Porifera
- 2 Sycon Development
- 3 Canal Systems In Sponges

PROTOZOA

- 1 Amoeba Structure & Locomotion

- 2 Paramecium Structure
- 3 Paramecium Rep.-I
- 4 Euglena Structure & L. H.
- 5 Entamoeba (Life Cycle)
- 6 Plasmodium Vivax
- 7 Paramecium Rep.-II

RABBIT

- 1 Rabbit External Characters
- 2 Rabbit General Anatomy
- 3 Rabbit Digestive System
- 4 Rabbit Male Reproductive System
- 5 Rabbit Female Reproductive System
- 6 Rabbit Excretory System
- 7 Rabbit Arterial System
- 8 Rabbit Venous System
- 9 Rabbit Nervous System
- 10 Rabbit Respiratory System
- 11 Rabbit Skeleton
- 12 Rabbit Brain Different Views
- 13 Rabbit Heart Different Views
- 14 RABBIT SKULL

POTRAITS

GREAT SCIENTISTS

- 1 Charles Robert Darwin
- 2 Louis Pasteur
- 3 Leonardo Da Vinci
- 4 Sir Charles Bell
- 5 Sir J.C. Bose
- 6 Sir Isaac Newton
- 7 Sir C.V. Raman
- 8 Archimedes
- 9 Albert Einstein
- 10 Thomas Alva Edison
- 11 Robert Boyle
- 12 Marie Curie
- 13 Michael Faraday
- 14 John Dalton
- 15 S. Ramanujan
- 16 William Ramsay
- 17 Aristotle
- 18 J.J. Thomson
- 19 Nicholas Copernicus
- 20 Dr. Vikram Sarabhai

- 21 Aryabhata
- 22 Benjamin Franklin
- 23 Alfred Nobel
- 24 Neil Bohr
- 25 Watson

GREAT LEADERS

- 1 M.K. Gandhi
- 2 Jawahar Lal Nehru
- 3 Subash Chandra Bose
- 4 Sarojini Naidu

- 5 Lal Bhadur Shastri
- 6 Swami Vivekanand
- 7 Indira Gandhi
- 8 Maulana Azad
- 9 Rajiv Gandhi
- 10 Rabindranath Tagore
- 11 Mother Teresa

PRESIDENTS OF INDIA

- 1 Dr. Rajendra Prasad
- 2 Sarvapalli Radhakrishnan

- 3 Dr. Zakir Hussain
- 4 V.V. Giri
- 5 Fakhruddin Ali Ahmed
- 6 Neelam Sanjiva Reddy
- 7 Giani Zail Singh
- 8 R. Venkataraman
- 9 Dr. Sankar Dayal Sharma
- 10 K.R. Narayanan
- 11 A.P.J. Abdul Kalam
- 12 Smt. Pratibha Patil



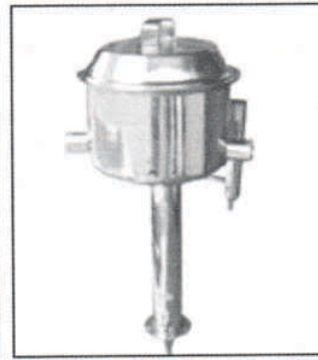
Autoclave (Portable)



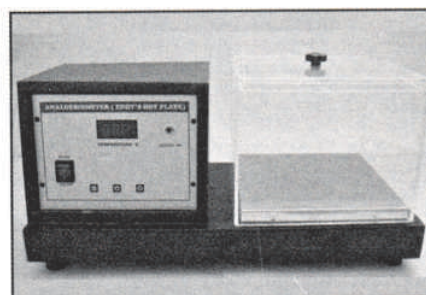
Disintegration Test Unit



Tablet Hardness Tester
(Pfizer Type)



Distillation Plant



Eddy Hot Plate



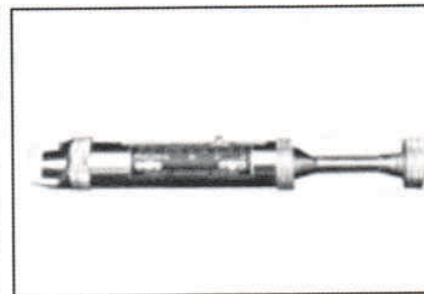
Radiant Heat (Analgesimeter)



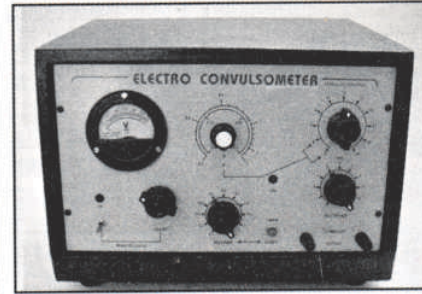
Actophotometer (Activity Cage)



Tablet Friability Test Apparatus



Tablet Hardness Tester
(Monsanto Type)



Convulsometer