

Physics

Chemistry

Botany

Zoology

# PRODUCT CATALOGUE

CE  
WH  
O  
GMP



# SCIENTIFIC SOLUTION

An ISO 9001 : 2015 Cer fied Co.

### SS-001 METER SCALE ONE METER & HALF METER

Made from seasoned wood, accurately graduated in cm with clear and fine divisions.



### SS-002 VERNIER CALLIPERS I.M.E. TYPE

In velvet case.



### SS-003 VERNIER CALLIPERS WITH DIGITAL READ OUT

Conversion button, on/off switch and zero setting switch. Metal knob for locking the device is provided at the top.



### SS-004 MICROMETER SCREW GAUGE WITH DIGITAL READ OUT

For taking direct reading. The micrometer is provided with mm/inch conversion button, on/off switch and zero setting switch.



### SS-005 MICROMETER SCREW GAUGE

Micrometer with ratchet stop, dull chromium plated brass body, accurately threaded M.S rod. Available in: 10mm, 15mm, 20mm, 25mm



### SS-006 SCREW GAUGE DEMONSTRATION MODEL

20cm long, made of silver alloy useful for class instructions, packed in card box.



### SS-007 SPHEROMETER BRASS

Brass scale and disc, base fitted with threaded rod and legs, packed in printed duplex box. L.C.1/100MM. Available in Single & Double Disc



### SS-008 ANALYTICAL WEIGHT BOX

Tested, presented in seasoned cabinet polished velvet lined box packed in printed duplex box. Available in : 50gms, 100gms & 200gms



### SS-009 PHYSICAL WEIGHT BOX BRASS/IRON

Brass NP, cabinet polished wooden box, duly tested, packed in printing duplex box.



### SS-010 SLOTTED WEIGHT BRASS/IRON

C.P., Precisely machined & carefully adjusted Set of 5 including hanger.

A5gms x 5 25gms

B10gms x 5 50gms

C20gms x 5 100gms

D50gms x 5 250gms

E100gms x 5 500gms

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### SS-011 SPRING BALANCE

Flat form, high impact polystyrene body with zero adjustment, anodised metal scale with clear and accurate divisions. Available in : 100gms, 250gms, 500gms & 1000gms.



### SS-012 SPRING BALANCE ACRYLIC

Tubular body in card box. Available in : 100gms, 250gms, 500gms & 1000gms.



### SS-013 STOP CLOCK

Smith type, fly back action, metal body with new Superior machine.



### SS-014 STOP WATCH

1/5 & 1/10 mechanical in metal case.



### SS-015 DOUBLE CONVEX LENS

Highly polished and well edged, manufactured from plate glass optically true:



### SS-016 GLASS SLAB

Made from superior quality moulded glass with glossy.



### SS-17 DIFFRACTION GRATING

15000 lines per inch



### SS-18 NEWTON RING APPARATUS

A pair of glasses. One plane, other convex 50mm in metal frame with three screws for applying pressure.



### SS-19 UNIVERSAL LENS HOLDER

Metal on adjustable stand.



### SS-20 PIN HOLE CAMERA

Provided with special circular scale. Available in: Wooden & Brass



### SS-021 DIGITAL STOP CLOCK

Star/stop operation is by means of a mini toggle switch and reset by a push button.



### SS-022 CONCAVE AND CONVEX MIRROR

Superior, optically true, back nicely silvered with has protective coating any focal length from 15 to 100 cm.



### SS-023 MAGNIFIERS

	Diameter
A	50MM
B	75MM
C	100MM



### SS-024 GLASS PRISM

Equilateral, highly polished surface. Available in : 38 & 50mm



### SS-025 SPECTROMETER PRISM

	(i)	(ii)	(iii)
A	Crown Glass R.I. 1.51	Dense Flint R.I. 1.65	Extra Dense Flint R.I. 1.65
B	25x25MM	25x25MM	25x25MM
C	32x32MM	32x32MM	32x32MM
C	38x38MM		



### SS-026 LENS HOLDER

V-shaped wooden polished.



### SS-027 KALEIDOSCOPE

Brass N.P



### SS-028 PERISCOPE

Made from wood polished.



### SS-029 TICKER TAPE TIMER

Complete workable on A.C. Mains.



### SS-30 DIRECT VISION SPECTROSCOPE

(Hand Spectroscope) wide spectrum 10x10 direct vision prism with precision slit, fitted in brass body with telescopic focussing.



### SS-31 WHEEL AND AXLE

Hardwood polished, comprising of 1 grooved wheel, 2 axle of different diameter, mounted jointly on wooden stand.



### SS-32 PENDULUM BOB

Set 6 different metal bobs with hook. (Brass, aluminium, Copper, Zinc, Iron and Lead)



### SS-33 DYNAMO WHEEL TYPE

Working model fitted on sunmica base with LED, packed in card box.

A	B	C
AC/DC	AC	DC



### SS-34 HYDRO POWER TURBINE

Mounted on sunmica clad wooden base, packed in card box.



### SS-35 COPPER, NICHROME, EUREKA OR CONSTANTAN, MANGANIN, BRASS & STEEL WIRES



### SS-36 CONDUCTOR SET OF 3

Made of brass, fitted on insulated stand, provided with cone, sphere and cylinder.



### SS-037 PULLEYS

A	Single
B	Double long or parallel
C	Triple long or parallel



### SS-038 CYLINDER OF METALS

Set of 6 different metal cylinders. (Brass, Aluminium, Copper, Zinc, Iron and Lead) All surfaces & edges are smooth.



### SS-039 DRAWING BOARD

Made from seasoned soft wood.

	A	B	C
	18"x12"x5/8"	23"x16"x5/8"	24"x18"x5/8"



### SS-040 MOTOR MODEL

Mounted on sunmica clad wooden base workable on 2-4 volt DC.



### SS-041 NEWTON COLOUR DISC

Disc 6" hand operated, on metal base.



### SS-042 PITH BALL PENDULUM

Fitted on stand with on insulated arm.



### SS-043 GOLD LEAF ELECTROSCOPE



### SS-044 DANIEL CELL

To draw current in open or closed circuit, comprising of polished copper vessel with terminal, empty porous pot covered with copper lid and a zinc rod.



### SS-045 GOOD & BAD CONDUCTOR

Fitted on base, provided with three different material.



### SS-046 COPPER VOLTAMETER

To demonstrate the principle of Electroplating complete in plastic jar with three copper plates suspended from a moulded bakelite cover.



### SS-047 WATER VOLTAMETER

With glass jar on wooden base, provided with two glass tubes.



### SS-048 BATTERY CHARGER

Workable on 230 volts AC with heavy transformer, bridge. Available in : 1, 2 & 3 Amp.



### SS-049 STEP DOWN TRANSFORMER

Fitted in metal box. Output 2, 4, 6, 8, 10, 12 volts AC Input - 220 volt. Available in : 1, 2 & 3 Amp.



### SS-050 CHEMICAL BALANCE

Capacity 200gm sensitivity 1/5 gm, brass beam has 50 engraved divisions on either side, each division represents 1/5 mg rider on scale.



### SS-051 TRIPLE BEAM BALANCE

For direct reading with sliding riders, fitted on metal base.



### SS-052 DISPENSING BALANCE

Double pan, packed in wooden box. Capacity 100gm.



### SS-053 SIMPLE VOLTAIC CELL

Comprising of PVC jar zinc copper plates, fitted on Bakelite cover with LED.



### SS-054 LECLANCHE CELL

To draw strong current for short durations, comprising a thick plastic jar, charged porous pot and zinc rod.



### SS-055 BATTERY ELIMINATOR

With heavy transformer, bridge rectifier, rotary switch for output selection, on/off switch. Available in : 1, 2 & 3 Amp.



### SS-056 ACCUMULATOR MASS TYPE

Mass type, 2 volts, plastic container with moulded lid and terminals. Available in : 20Ah, 45Ah



For charging and discharge of a capacity, fitted on thick bakelite base with silver contact.



### SS-057 PHYSICAL BALANCE

Capacity 200 gm sensitivity 2 mg. The balance is mounted on sturdy wooden base with leveling screws. Teakwood showcase with panel doors.



### SS-058 ANALYTICAL BALANCE

Most accurate with straight, extended beam and rider attachment, capacity 200gm, sensitivity 1/10mg. Brass beam has 100 graduated divisions with 0 at the centre.



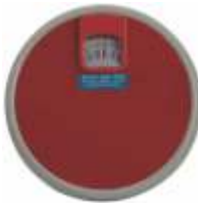
### SS-059 BERANGER BALANCE

Metal body, SS Pan packed in card box. Available In : 5 & 10 kg.



### SS-060 PERSONAL WEIGHING SCALE

Maximum capacity 120 kg. Least count 0.5 kg.



### SS-061 DIGITAL BALANCE

· Top pan, digital display, battery /mains operated.  
· Capacity 300 gm, sensitivity 10 mg.



### SS-062 POHL'S COMMUTATOR & REVERSING SWITCH

For use hysteresis experiment-with brass C.P. Parts fitted on thick bakelite base.



### SS-064 RESISTANCE BOX DIAL TYPE

A	B	C	D	E
One Dial	Two Dial	Three Dial	Four Dial	Five Dial



### SS-065 RHEOSTATS PORCELAIN TUBE

Mounted with heavily oxidised eureka wire and mounted on duco painted metal feet.



### SS-066 RESISTANCE BOX PLUG TYPE

In teak wood box fitted with rectangular brass block, double silk covered non inductive winding, interchangeable plug.



### SS-067 POST OFFICE BOX PLUG TYPE

Fitted with rectangular brass blocks, lacquered, interchangeable plugs are connected with double nut system. 10-10000 ohms.



### SS-068 PLUG KEY

A	B	C	D	E F	
One Way	Two Way	Three Way	Four Way	Six Way	Tapping Key



### SS-069 POTENTIOMETERS

Fitted on nicely polished plywood base with sunmica top, soft wood graduated scale 100mcx mm, provided with pencil jockey. Available in 4 wire & 10 wire.



### SS -070 METER BRIDGE

(Wheatstone Bridge) one meter long, plywood base and sumica top, graduated scale, constantan wire is stretched on top.



### SS-071 KOHLRAUSCH CONDUCTIVITY BRIDGE

For direct measurement fo electrolytic resistance. Comprising a calibrated scale 0.01-10 ohms and multiplier ratio dial giving 6 ratios 0.1, 1, 10, 100, 1000 and 10000. It is useful for quick determination of resistance too when galvanometer replaces the headphone in the detector circuit. With circular scale, accuracy  $\pm 0.1\%$ .



### SS-072 DE-SAUTY'S BRIDGE

For compatison of capacities of condensers. It consists an AC source, a detector, 5 unknown values. Circuit diagram is printed on board and 2 ratio dials of X10 & X100 are provided. Accuracy  $\pm 0.05\%$  to  $\pm 0.1\%$



### SS-073 CALLENDER AND GRIFFITH'S BRIDGE

Callender and Griffith's Bridge Carry foster bridge and potentiometer combined in one instrument. 50cm long slide wire of 1ohms resistance is calibrated into 100 equal parts.



### SS-074 PLATINUM RESISTANCE THERMOMETER

Consisting of heat teated winding of the purest from of platinum having resistance of 2.8 ohms, enclosed in a borosilicate glass grounded tube, provided with four terminals, two for non-inductive winding and two for compensating leads.



### SS-075 REYLEIGH'S BRIDGE

For measurement of self inductance of a coil, provided with ratio arm resistance arm, slide wire and special double key, calibrated to  $\pm 0.05$  to  $\pm 0.1\%$



### SS-076 ANDERSON BRIDGE

Used to measure inductance of a coil, provided with three resistance arm, one inductance and one capacitance.



### SS-077 PORTABLE WHEATSTONE BRIDGE

It is fully portable with build in galvanometer and battery, designed to provide an accurate and sensitive measurement to resistance and locking faults in vables by adopting the murray and varley loop circuit for tests. Separate terminals for current, battery and galavnometer are provided on bakelite panel.



### SS-078 KELVIN DOUBLE BRIDGE

For precise measurement fo low resistance, capable of measuring resistance from 0.1 micro-ohm to 1.1 ohms. Ten standard resistance of manganin are provided in steps of 0.01 ohm each in dial form wire five multiple ratio of 0.001, 0.01, 0.1, 1 and 10 ohms.



### SS-079 DIGITAL PANEL METER

3½ Digital display with 9 volt battery.



### SS-080 MILLIAMMETER, MICRO-AMMETER, VOLTMETER, MILLIVOLTMETER

Available in 100mV 100mV, 500mV range.

A	B	C		
M065	MR80	MR100		
Top Terminals			Delux-Square(80x100)	Ractangular



Workable on 9 volt battery. Provided with test leads.



### SS-082 STEWART AND GEE'S APPARATUS

To determine the variation of magnetic field along the axis of a coils, a circular non magnetic frame has copper wire wound on it.



### SS-083 BALLISTIC GALVANOMETER

Housed in bakelite body for measurement of small quantities of electrical charge, deflection closely proportional to the electric charge, robust and rigid in construction, easy to operate, provided with zero adjustable and locking devices. Time period 10-12 seconds.



### SS-084 TANGENT GALVANOMETER

The whole assembly rotates on a non magnetic tripod base with non magnetic leveling screws. Compass box is mounted on non-magnetic metallic cup and is free to rotate around it. Available in : Aluminum, Brass & Wooden Parts



### SS-085 SPOT REFLECTING GALVANOMETER

Highly sensitive instrument to be used as null detector in wheatstone bridge and potentiometer experiments.



### SS-086 LAMP AND SCALE OUTFIT

Suitable for use with ballistic galvanometer, provided with 6 volt step down transformer, 6V/20W lamp housed in metal container, a translucent perspex scale attachment graduated in 25-0-25 or 0-50 cm, plug and cord.



### SS-087 PNP TRANSISTOR

Fitted on board with banana socket and circuit diagram.



### SS-088 RESISTANCE IN SERIES AND PARALLEL KIT

It consists of two circuit boards, one rheostat, one ammeter (MR-80) and patch cords.



### SS-089 TRIODE VALVE CHARACTERISTIC APPARATUS

With build-in stabilized power supply workable on 230 volts AC, fitted with Triode valve on front panel, with two moving coil meters.



### SS-090 PN JUNCTION DIODE CHARACTERISTIC APPARATUS

To study Forward & Reverse Characteristics of PN Junction Diode. Instrument comprises of two DC Regulated Power Supplies 0-3VDC/150mA & 0-30 VDC/150mA, two dual range round meters for voltage & current measurement, PN Junction Diodes mounted behind the panel, connections of Supplies, Meters & Diodes brought out at 4 mm Sockets.



### SS-091 NPN TRANSISTOR

Fitted on board with banana socket and circuit diagram.



### SS-092 OHM'S LAW APPARATUS

Instrument comprises of Two moving coil meters to measure voltage & current, One wire wound Potentiometer. Circuit diagram Printed.



### SS-092 DIODE VALVE CHARACTERISTIC APPARATUS

With build-in stabilized power supply and two moving coil meters, fitted with diode valve on front panel. Consists of High Voltage.



### SS-093 ZENER DIODE CHARACTERISTIC APPARATUS

With build-in stabilised power supply and two moving coil meters 15V and 100mA.



### SS-094 PLANCK'S CONSTANT APPARATUS

With build-in power supply having 2 meters, workable on 220 volts AC, photo electric cell mounted in a metal box with slit to hold fitted provided with a light source.



### SS-095 E/M BY THOMSON METHOD (Bar Magnet Method)

With build-in power supply to operate cathode ray tube, one voltmeter shows deflection voltage, C.R.T. Is mounted on teak is provided to hold bar magnets and deflection magnetometer.



### SS-096 MILLIKAN'S OIL DROP APPARATUS

It consists of a condenser, a light source and a measuring microscope all mounted on a common platform. A strong pillar mounted on a heavy base carries microscope and lamp house. An oil container with a pump is provided at the top of the pillar and oil drops pass through a hole in the plate (placed just below the oil container). The microscope has up-down and sideways adjustment knobs provided with power supply.



### SS-097 COLPITTS OSCILLATOR

To study frequency and waveshape generated by Colpitts Oscillator, instrument comprises of 12V DC regulated power supply.



### SS-098 WIEN BRIDGE OSCILLATOR

Using Operational Amplifier IC 741 : instrument comprises of 12V DC regulated power supply components mounted on front panel.



### SS-099 CHARGING AND DISCHARGING OF CAPACITOR

To study RC time constant during charging and discharging of a capacitor, with build-in stabilizer power supply workable on 220 AC.



### SS-100 E/M BY LONG SOLENOID/ HELICAL METHOD

Kit comprises of high voltage power supply unit with intensity, focus X and Y, deflection solenoid current controls, two meters are provided for acceleration voltage control & for solenoid current control, solenoid unit comprises of one solenoid mounted on wooden stand & 3" cathode ray tube is kept in the solenoid pipe.



### SS-101 HARTLEY OSCILLATOR

To study frequency and waveshape generated by Hartley Oscillator, instrument comprises of 30V DC regulated power supply.



### SS-102 PHASE SHIFT OSCILLATOR

To study frequency and waveshape generated by Phase Shift Oscillator, instrument comprises of 12V DC regulated power supply.



### SS-103 FUNCTION GENERATOR

Range 1Hz to 100 KHz.



### SS-104 FET VOLT-OHM METER SOLID STATE

(VTVM) tripple range, fitted with deluxe meter with transparent cover, input impedance 11 megohms.



### SS-105 TWO STAGE RC COUPLED TRANSISTOR AMPLIFIER (Frequency Response)

Instrument comprises of DC regulated power supply printed circuit diagram.



### SS-106 ENERGY BAND GAP OF PN JUNCTION DIODE

To plot reverse saturation current Vs temperature in reverse biased PN junction diode, instrument comprises of DC regulated power supply 0-20 volt /150mA two moving coil meters 20V and 100uA for voltage & current measurement, one PN junction diode (ge type) kept in oven with temperature control knob.



### SS-107 BH CURVE APPARATUS

To trace hysteresis curves on CRO using resistance, capacitance & inductance, instrument comprises of AC power supply 3-15V, output selectable using band switch.



### SS-108 THERMISTOR CHARACTERISTIC APPARATUS

With build-in stabilized power supply, workable on 230 volts AC, a thermistor fitted with build-in oven and thermometer is mounted on front panel.



### SS-109 STUDY OF OPERATIONS AMPLIFIER ADDER, SUBTRACTOR, INTEGRATOR AND DIFFERENTIATOR

Instrument comprises of DC regulated power supplies of 0-5 Volt and  $\pm 15$  volt, one digital meter to measure input and output voltages, combination of resistances, capacitors mounted on front panel.



### SS-110 SOLAR CELL CHARACTERISTICS APP.

To draw V characteristics of solar cell, instrument comprises of moving coil meters fitted on panel with power supply, lamp house, solar cell mounted supplied with wooden plank.



### SS-111 VERIFICATION OF KCL AND KVL

Instrument comprises of DC regular power supply 0-3 V/250mA, two moving coil meters 5V, 250mA for voltage & current measurement, combination of resistance mounted on front panel.



### SS-112 CATHODE RAY OSCILLOSCOPE Dual Trace, Band Width DC to 20 MHz

Workable on 220 Volt, 50 Hz. Vertical deflection coefficients 5mV to 20V/div., Time base 20 ns - 0.2 s/div., Variable hold off, X10 magnification, triggering DC 20 Mhz., Active TV sync sep., Alternate triggering, LED indication for stable triggering, XY mode, Z modulation, saw tooth output (5 Vpp approx) component tester, 2 level calibrator.



### SS-113 DIGITAL STORAGE OSCILLOSCOPE

Signal bandwidth 25 Mhz., Independent vertical scale and position control knobs for each channel, 24 parameters of automatic measurements, low-pass, high-pass, band-reject digital filters with adjustable cut-off frequency.



### SS-114 DIELECTRIC CONSTANT APPARATUS

To calculate dielectric constant of solid. The instrument consists of high frequency oscillator of tuneable frequency, optimum tuning of oscillator between parallel plates, change is detected on difference is noted for calculation.



### SS-115 RESISTIVITY OF SEMICONDUCTORS BY FOUR PROBE METHOD

The experiment consists of the following : i) Four Probe Arrangement  
ii) Oven (upto 200-C)  
iii) Sample : Ge Crystal mounted iv) Thermometer (0-200-C)



### SS-116 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 and industrial process and to develop software for this system.



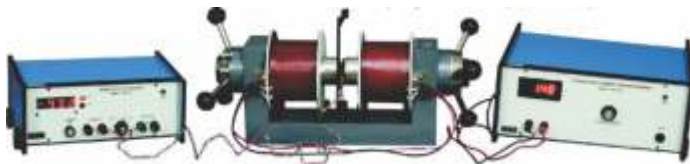
### SS-117 SUSCEPTIBILITY OF $FeCl_3$ SOLUTION (Quincke's Tube Method)

To study susceptibility of ferrous solution in strong magnetic field, it consists of electromagnet of 7.5 K.G. Strength, 0-100V 4 Amps. Variable power supply. Digital gauss meter 0-20 Kg with hall probe and graduated capillary capillary tube.



### SS-118 HALL EFFECT EXPERIMENT

The setup consists of electromagnet of 7.5Kg., Power supply for electromagnet 0-100V/4 amps, germanium crystal mounted, constant current power supply 0- 20 mA fitted with two digital meters, digital gauss meter 0-20 kilo gauss and hall probe.



### SS-119 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 time with 3 digit display and thumb wheel switch. Complete with G.M. Tube stand, and one radio active source.



### SS-120 ULTRASONIC INTERFEROMETER

It is a simple device to determine the ultrasonic velocity in liquids, the principle is based on accurate measurement of wave length in the medium. Ultrasonic waves of known frequency are produced by a quartz plate fixed at the bottom of the cell. The waves are reflected by a moveable metallic plate.



### SS-121 SPECTROMETER

A basic instrument for performing spectroscopy experiments, designed to give best possible results, mounted on stable cast iron base, protracted scale 150mm is divided on precision machine, vernier reading 1 min., Telescope is fitted with 25mm dia.



### SS-122 NEWTON'S RING MICROSCOPE

Compact with all the necessary arrangements for conducting Newton's Ring experiment, a standard microscope unit with 30X magnification and rotatable cross line.



### SS-123 SIX POSITION VERNIER MICROSCOPE

Consisting of cast iron heavy base accurately machined with travelling carriage on top, microscope is fitted with 10X Ramsden's eye and achromatic objective of 75mm working distance.



### SS-124 TRAVELLING MICROSCOPE

Sliding carriage is fitted on the top carriage which moves at right angle to the horizontal motion by means of rack & pinion, for certain experiment like Newton Ring and group reading this microscope is very convenient to use. Supplied plywood box.



### SS-125 POLAROID

It consists of two identical units each with Polaroid disc in a rotatable mount, brass scales are divided into 360° with Least Count of 1 min.



### SS-126 MICHELSON INTERFEROMETER

It is divided in two parts : (i) Mechanical

a) Bed : It is optically ground and stable.

b) Lead Screw : it is also optically ground with 200mm length and 1mm pitch.

c) Optical Mirror Mount : Kinematic mirror mounts are provided to hold the mirror.

ii) Optical Part:

a) Beam splitter : It is optically work with /10surface flatness.

b) compensating Plates : Two plates are provided.

c) mirror : 2Nos mirror of focal length 20mm are provided.



### SS-127 SEXTANT STANDARD

Designed to give maximum accuracy with 160 mm stainless steel scale divided to 130°, vernier reading 12 seconds.



### SS-128 SEXTANT STAND

Nice duco painted heavy base with steel C.P. Rod.



### SS-129 WOODEN BOX FOR SODIUM & MERCURY VAPOR LAMP

Wooden box with slits on three sides to perform 3 experiments at a time, each slit has two rides to adjust the length of slit or close it when no experiment is being performed.



### SS-130 OPTICAL BENCH DOUBLE ROD

Consists of two 1 meter long metal rods, one of the rods evenly divided in mm, supported on heavy cast iron feet. Provided with four heavy metal slider and accessories. Two of the sliders have transverse motion.

A Half shapered accessories

B Full shapered accessories




### SS-131 READING TELESCOPE

One meter to infinity provided with 10X Ramsden eye piece with cross wire, achromatic objective. Focussing with rack & pinion, height of telescope is adjustable, fitted on cast iron base.



### SS-132 BIPRISM ASSEMBLY

To demonstrate the phenomenon of interference light using bi- prism and to understand the concept of interference images- formation and width of fringes.



### SS-133 SODIUM & MERCURY VAPOR LAMP TRANSFORMER

Metal box with piano type on/off switch. Out put is through a 3 pin socket. The transformer is auto leak type and given starting voltage of 440 V which reduces itself when the lamp glows.



### SS-134 ASTRONOMICAL TELESCOPE

A telescope for school students for general purpose use. The telescope is mounted on a pillar having universal motion. The whole assembly is fitted on duco painted metal stand of 4 feet adjustable height. The telescope is packed in velvet box.



Complete with 1.5 meter ss rod optical bench having the following components :-

- A. L.B. Photometer Head
- B. Lamp House



### SS-136 DIODE LASER ASSEMBLY

Diode laser, provided with set of 13 laser gratings to perform simple experiments.



### SS-137 RAY OPTICS KIT

An ideal instruments to demonstrate basic principles of light like reflection, refraction, deviation of light through prism or slab, with standard accessories.



### SS-138 NODAL SLIDE ASSEMBLY

It consists of a 1½ meter long stainless steel double rod optical bench with the following accessories.

- (a) Lamp house
- (b) Metal screen white with cross slit :
- (c) Plane true tiltable mounted mirror.
- (d) Lens assembly consisting of combination of single & double lens holder.



### SS-139 HE-NE LASER ASSEMBLY WITH OPTICAL BENCH

For demonstration of interference, diffraction and holography. Laser source and switch mode power supply are housed in a thick aluminium box with a hole through which laser beam comes out. The laser unit is mounted on a precision 1 meter double rod SS optical bench. Intensity of laser beam is 2mW and it is red in color.



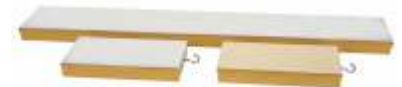
### SS-140 INCLINED PLANE 3"

Fitted with glass plate and clamping arrangement to change angle, provided with frictionless pulley, metal roller, scale-pan and graduated arc.



### SS-141 FRICTION BOARD APPARATUS

Fitted with glass plate, provided with frictionless pulley, wooden block, pan and a set of friction rollers.



### SS-142 NEWTON'S SECOND LAW OF MOTION

Consisting of two iron balls, one spring loading rod and a clamp fitted on wooden board.



### SS-143 INERTIA TABLE

An aluminium disc of 150mm dia, accurately turned, supports three or more masses fitted into a groove concentric with the circumference, fitted with chunk & mirror, supported by steel C.P. Rods, fitted on a heavy base with levelling screws.



### SS-145 COMPOUND BAR PENDULUM

To study variation of time with length for a compound pendulum. Complete with power coated wall bracket.



### SS-146 KATER'S REVERSIBLE PENDULUM

Consists of steel C.P. Rod one meter long, two adjustable knife edges facing each other, two cast iron weight are provided to slide along the length of the bar and can be clamped in any position.



### SS-147 INERTIA APPARATUS (NEWTON'S FIRST LAW)

All metal big size export quality, packed in card box.



### SS-148 'g' BY FREE FALL

To determine the value of 'G'. It consists of an electronic unit having four sockets and a switch to help hold or release the ball. A heavy retort stand carries a solenoid. When toggle switch is on catch position, current flows through solenoid producing a magnetic field and holding the ball.



### SS-149 BIFILAR PENDULUM

To find the moment of inertia of given mass of rectangular cross section. It consists of heavy cast iron rectangular plate having 6 holes.



### SS-150 TORSION PENDULUM

A carefully turned brass disc 125mm dia 12mm thickness is provided with split chuck in the centre.



### SS-151 MAXWELL'S VIBRATION NEEDLE

Brass C.P. For experiments on rigidity. It consists of a hollow cylindrical brass tube open at both ends with a chuck carrying a mirror.



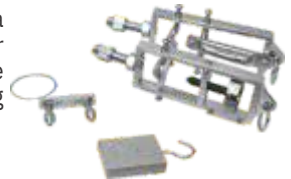
### SS-152 TORSION APPARATUS SEARLE'S HORIZONTAL PATTERN

Consists of two cast iron feet, two supporting rods, one wheel with groove moving on ball bearings is provided with chunk to hold the test rod, aluminium scales with pointed are attached to specimen rod.



### SS-153 YOUNG'S MODULUS APPARATUS (SEARLE'S)

To determine young's modulus of a wire. It consists of two rectangular frames connected by a link. The frames are fitted with self centering chucks, provided with a spirit level.



### SS-154 FLYWHEEL

20cms in dia and 45mm wide, accurately balanced wheel is mounted on a horizontal shaft held in ball bearings. The wheel is marked and a pointer is fixed to the bracket.



### SS-155 PARALLELOGRAM OF FORCE

Board covered with sunmica on both sides, three sets of 50gm x iron slotted weight & two special export quality pulleys.



### SS-156 SEARL'S RIGIDITY APPARATUS

To find the modulus of rigidity & young's modulus for a wire. The 30cm long wire under test is connected to two brass rods 30cm long.



### SS-157 TORSION APPARATUS SEARLE'S (VERTICAL PATTERN) BARTON'S APPARATUS

It consists of a mild steel frame mounted on a heavy cast iron base fitted with levelling screws, three sliding circular scales graduated in degrees are provided which can be clamped at any position.



### SS-158 BENDING OF BEAM APPARATUS

Comprising a metal bar one meter long resting on knife edges of two heavy table clamps, hanger with knife edges moves on metal bar, spherometer fitted on cast iron stand with electric contacts is also provided.



### SS-159 PARALLELOGRAM OF FORCES APPARATUS

For verifying the relation between forces acting at a point, provided with two clamp type pulleys for mounting at any position.



### SS-160 K CONSTANT APPARATUS SPRING CONSTANT APPARATUS

Provided with half meter scale, spring with pointer and slotted weights, fitted on nicely painted iron base.



### SS-161 HOOK'S LAW

Fitted on stand with 6" meter scale and hanger.



### SS-162 AIR PUMP

Fitted with aluminium palte of dia. 15cm and steel C.P. Barrel on wooden base, provided with a stop cock, on inlet screw and a connecting for pressure rubber tubing.



### SS-163 FORTIN'S BAROMETER

An instrument measure atmospheric pressure in laboratories. With metric and English system scales reading 25" to 32" and 64cm to 81cm. Vernier operating with rack pinion, reads 0.1" and 0.1cm.



### SS-164 ANEROID BAROMETER

Demonstration type. The aneroid movement with dial is mounted vertically inside a transparent case.



### SS-165 BUCKET AND CYLINDER

To demonstrate the achimedes principle, made form iron and brass.



### SS-166 BOYLE'S LAW APPARATUS

Two glass tubes one closed at the top and other open are held in clmps which can be locked at any position, clamps can slide on two steel C.P. Rods, wooden plank carrying a meter scale is mounted on heavy cast iron base with levelling screws.



### SS-167 RAIN GAUGE APPARATUS

A non rusting metal vessel having a funnel approx 4" dia fitted on top of a cylindrical container of same diameter, provided with polythene measure.



### SS-168 ARCHIMEDES PRINCIPLE APPARATUS

It consists of a 8x7" base and a rod, spring balance with clamp, plastic measurement cylinder, a brass bob of 25 mm dia.



### SS-169 BELL IN BELL JAR

Experiment to demonstrate that sound cannot travel in vacuum, it consists of a bell Jar fitted with electric bell. Operates on 6 volt.



### SS-170 WIND VANE

Small sized, cock shaped, fitted on base with N W E S arm clearly visible.



### SS-171 ANEMOMETER

Cup shape with counter. The instrument has a wheel consisting of three conical cups in horizontal plane.



### SS-172 JAEGER'S SURFACE TENSION APPARATUS

This method is suitable for the purpose of studying the variation of surface tension with concentration of solution of common salt in water.



### SS-173 SURFACE TENSION BALANCE

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.



### SS-174 U-TUBE APPARATUS

For use as a manometer, provided with a glass tube, meter scale and fitted on wooden stand.



### SS-175 VISCOSITY APPARATUS STOKE'S METHOD

The instrument is based on principle of fall of spherical ball through liquid. This instrument is used to determine viscosity of a transparent liquid like glycerine.



### SS-176 RESONANCE APPARATUS

To determine the velocity of sound, it consists of a vertical wooden plank which carries a wooden scale at one side, a brass tube on another and a transparent tube in between.



### SS-177 ELECTRICAL VIBRATOR

To determine the frequency of AC mains, e.m.f. Of cells and capacity of condenser. A thin steel is clamped at one end and passes through a small solenoid. One end of the rod is flattened and a thread is tied to it. The solenoid is connected to AC mains through a suitable lamp resistance.



### SS-178 STEAM ENGINE BOILER TYPE WORKING MODEL

It consists of two part  
1. Steam Boiler  
2. Engine



### SS-179 RISING TABLE (SLOW MOTION STAND)

A machine cast aluminium table 10cm dia having a stem of 12cm can be lowered or raised to desired height and it can be tightened with a thumb screws.



### SS-180 MELDE'S APPARATUS

Consists of electrically maintained tuning fork with frequency of 60 vibrations per sec., An electro magnet is placed between prongs of the fork with touching it, a small type strip is attached to one of the prong, can be silk cord, pulley, stand, scale-pan and G-clamp.



### SS-183 RIPPLE TANK

To study propagation, reflecting, refraction diffraction and interference of waves, consists of an enameled M.S. Sheet frame with four adjustable legs, complete with all the accessories and working instructions, size of tank is 30x30cm.



### SS-181 WAVE MOTION APPARATUS

With heavy discs supporting a series of rods. On revolving the handle, motion is transmitted from one rod to next appearing as a travelling wave, fitted on nicely polished wooden base.



### SS-182 REFLECTION OF SOUND APPARATUS

To show that angle of incidence and angle of reflection are same for a particular setting.



### SS-184 RING & BALL APPARATUS

To explain thermal expansion. It consists of a brass ring fitted on brass rod with wooden handle and a brass ball attached by chain.



### SS-185 COMPOUND METAL STRIP OR BIMETALLIC STRIP

Consists of 30 cms. Long strips of two different metals rivetted together end to end, as thermal expansion of two materials is unequal, the strips will bend when heated, provided with a wooden handle.



### SS-186 PYROMETER

(Simple Linear Expansion) it consists of a metallic base with two vertical pillars. One pillar supports a pointer pivoted at its upper end and the other end moving freely on an arbitrary scale. The other pillar supports the specimen rod with one end touching the adjustment screw for setting the pointer to zero, supplied with three test rods.



### SS-187 CO-EFFICIENT OF LINEAR EXPANSION APPARATUS

Vertical type, specially designed to measure the linear expansion of metals with the help of spherometer, provided with three test rods of different metal.



### SS-188 NEWTON'S LAW OF COOLING

Two aluminium calorimeters are hung inside a double-walled metal tank fitted with a wooden top with 2 holes for thermometers.



### SS-189 COPPER CALORIMETER

Consists of well insulated copper vessel in outer wooden case, fitted with thermometer holder and stirrer, packed in card box.



### SS-190 SEARLE'S THERMAL CONDUCTIVITY APPARATUS

To find co-efficient of thermal conductivity of copper, it consists of a 30cm. Long 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 flowing through a spiral tube fitted to the rod, the whole assembly is kept in a wooden case.



### SS-191 CONDUCTIVITY APPARATUS LEE'S AND CHARLTON'S

For determining the relative conductivity of thin layers of material, consists of cylindrical slab of 11.5cm in dia and 12mm thick, a 5cm deep hollow cylinder of the same dia with inlet and outlet tubes for steam rests on this slab.



### SS-192 CALLENDER AND BARNE'S CONTINUOUS FLOW CALORIMETER

To determine mechanical equivalent of heat, the apparatus consists of glass tube open at both ends carrying inside a spiral of wire. The inlet and outlet system are connected to glass tube trough rubber tubing and carry terminals for electrical supply.



### SS-193 GLAZEBROOK AND SHAW'S CALORIMETER

(Regnault Calorimeter) improved pattern with water cooled jacket below the steam heater to prevent radiation.



### SS-194 STEAM BOILER COPPER

Cylindrical body with conical top and a short neck, having an outlet tube.



### SS-195 HOPE'S APPARATUS

Consists of a cylindrical vessel surrounded by an annular trough and two thermometer opening above and below the trough. Mixture of ice and salt is placed in the trough and temperature of water at top and bottom of cylindrical vessel is recorded.



It consists of a copper boiling vessel with a steam jacket in a tube. A lid with a tube is provided which holds the thermometer under test in a cork. Supplied without cork and thermometer.



### SS-197 BAR MAGNET

Powerful alnico alloy permanent magnet with ground surface, thickness 8x12mm, north and south poles are clearly marked.

	A	B	C	D
	50MM	75MM	100MM	150MM



### SS-198 U-SHAPE MAGNET

Alnico alloy magnet, highly effective when high magnetic strength is required, permanent & powerful.

A	B	C
50MM	75MM	100MM



### SS-199 CYLINDRICAL MAGNET

Round bar magnet with poles clearly marked.

A	B	C
50MM	75MM	100MM



### SS-200 ELECTROMAGNET U-SHAPED

Soft iron core, wound with insulated copper wire with bare ends, working on 6 volt DC.



### SS-201 VIBRATION MAGNETOMETER

It consists of a wooden box having a front glass door and glass on back side. It has a glass tube fitted with simple torsion head to support a strip that can hold a magnet, by means of a thread.



### SS-202 DEFLECTION MAGNETOMETER

To compare the magnetic moments of give short magnet. It consist a compass box mounted at the centre of a wooden base about one meter long.



### SS-203 DIP CIRCLE STANDARD

Heavy and sturdy construction comprising an extra sensitive needle mounted on practically frictionless bearing and moving in vertical plane over an engine divided circular scale, enclosed in duco painted metal case, fitted with hardened steel pivot.



### SS-204 EARTH INDUCTOR

Coils of insulated copper wire is wound on metal ring. A spring is arranged to turn the ring quickly through 180° when a catch is released. After having turned through 180° the coil is automatically fixed. Terminals for connection are fitted on the cradle.



A	B	C	D
500 turns	1000 turns	2000 turns	5000 turns

### SS-205 ELECTRIC BELL

Demonstration type, all parts easily visible, mounted vertically on sunmica board, workable on 4-6 volt DC.



### SS-206 MAGNETIC COMPASS

Highly magnetised needle in aluminium body with glass top. Dial shows cardinal points. North pole of the needle is colored red.



### SS-401 GANONG POTOMETER

Simple type, borosilicate glass parts and stand.



### SS-403 FARMERS POTOMETER

Simple glass bottle and borosilicate glass fittings.



### SS-405 SIMPLE POTOMETER

To demonstrate suction due to transpiration, having a graduated capillary tube with cylindrical funnel shaped top.



### SS-407 RESPIROMETER

Complete with graduated and levelling tubes, rubber tubing and stand, borosilicate glass.



### SS-409 OSMOTIC PRESSURE APPARATUS

For determination of Osmotic pressure complete with simple glass jar



### SS-411 SIMPLE POTOMETER

For determining the rate of absorption of water by transpiring plants under varying circumstances.



### SS-413 KUHNE'S FERMENTATION VESSEL

Made from borosilicate glass, fitted on a plastic stand.



### SS-415 TRANSPIRATION

For determining the rate of absorption of water by transpiring plants under varying circumstances.



### SS-417 WILLMOTT BUBBLER

Borosilicate glass parts and soda glass bottle.



### SS-419 DEFLAGRATING SPOON



### SS-421 ROOT PRESSURE

T-tube with stop cock and graduated cylinder.



### SS-423 GANONG LIGHT SCREEN

Mode of brass sheet.



Iron C.P.

A	B
6"8"	



### SS-427 SPATULA SS

Flat at one end and spoon at other end.



### SS-429 WIRE GAUGE

6"x6" with asbestos coating in centre.



### SS-430 WATCH GLASS

A	B	C
50mm	75mm	100mm



### SS-431 PLATINUM LOOP WITH

school type in test tube.



### SS-433 WATER BATH

Concentric rings, copper die pressed and polished hemispherical type with handle.



### SS-435 TEST TUBE BRUSH



### SS-437 SPIRIT LEVEL

With sunmica top 6" wooden.



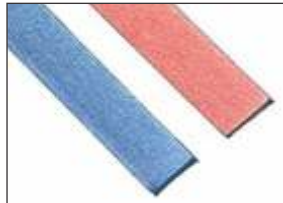
### SS-439 pH PAPER

Each packet consists of 10 books of 50 leaves each.



### SS-441 LITMUS PAPER RED / BLUE

Each packet consists of 10 books of 50 leaves each.



### SS-443 TEST TUBE STAND WOODEN



### SS-445 TEST TUBE HOLDER

Flat form with wooden handle.



### SS-447 FILTER PAPER ROUND



### SS-449 RUBBER TUBING

Suitable for general laboratory use, soft and strong coil of 10 meters tubing.



### SS-452 PIPETTE BULB

A	B	C
Small	Medium	Large



### SS-454 PLASTIC CELL HOLDER BOX

A	Two Cells
B	Four Cells



### SS-456 TEST TUBE STAND METAL

Available in aluminum & stainless steel (SS)



### SS-458 SPIRIT LAMP ALUMINUM

Die pressed 4 oz.



### SS-460 GAS TAPS

Brass C.P. Leak proof, packed in card box.

A	B	C	D
One way	Two way	Three way	Four way



### SS-462 CORK BORER GERMAN PATTERN

With handle brass C.P.

A	B	C
Set of 3		Set of 12



Swan neck type bras metal C.P. leak proof.

A	B	C
One way	Two way	Three way



### SS-466 BURETTE CLAMP FISHER TYPE

Made form thick steel die pressed, powder coated, staple grey finish.



### SS-468 THREE FINGER CLAMP

Made form aluminium, staple colour, iron rod, finger convered with rubber tubing with iron boss head.



### SS-470 RETORT STAND SHEET METAL

Thick iron sheet 12 SWG, die pressed base and thick rod, powder coated staple colour, having wire for extra tightening of rod.



### SS-472 TRIPOD STAND

Duco painted triangular top and zinc plated rods with plastic feet.



### SS-474 CHEMICAL THERMOMETER

Made form yellow or while capacity tube, mercury filled by head process, calibrated under controlled conditions, approx. 12 inches long and 7-8 mm thick.



### SS-476 WALL THERMOMETER DEMONSTRATION

Mounted on a wooden plank and filled with red spirit.



### SS-478 DRY-WET THERMOMETER

Moulded body, superior quality packed in printed duplex box, humidity chart on centigrade & fahrenheit included.



### SS-480 MAXIMUM & MINIMUM THERMOMETER

Mounted on plastic body, temperature range -30°C to 50°C, calibrated in C & F, magnet contained on special holder for ease in operation.



### SS-482 CLINICAL THERMOMETER (C&F)



### SS-484 DIAL TYPE THERMOMETER

Made in plastic moulded body, diameter of scale is 75mm.



### SS-486 LACTOMETER REGULAR QUALITY

Black base, shot & Wax poised, adjusted for use at 84°F.



### SS-488 URINOMETER REGULAR QUALITY

Black base, Short & Wax poised, adjusted for used at 20°C.



### SS-490 DENSITY HYDROMETER

ISI marked, Shot & Wax poised, adjusted for use at 15°C M-50 SP, maximum length 270 mm accuracy  $\pm 0.0002$ . Any range from 0.650 - 0.700 Sp. Gr. To 0.950 - 1.000 Sp. Gr. Available.



### SS-492 BAUME HYDROMETER

Short & Wax poised, adjusted for use at 20°C. Any range from 0.00 - 10.0° Be to 40.0 - 60.0° be available. In card box.



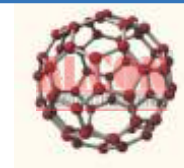
### SS-494 HYDROCARBON CLASSIFICATION

- |                   |                   |              |
|-------------------|-------------------|--------------|
| a) Methane        | b) Ethane         | c) Propane   |
| d) Butane         | e) Iso-butano     | f) N-pentane |
| g) Iso pentane i) | h) Neo pentane j) |              |
| Ethene            | Ethylene          |              |



### SS-496 MOLECULES MODEL SET OF 5

1. Water
2. Ammonia
3. Chlorine
4. Phosphorous
5. Sulphur



### SS-498 CRUCIBLE WITH LID

Tall font with lid, glazed inside and outside except for bottom surface and rim.



### SS-500 CHINA DISH

Superior quality, round form with lip, glazed both inside and outside.



### SS-502 BEEHIVE SHELF

All glazed except bottom and top rim. Size 3"



### SS-504 PESTLE & MORTAR

Mortal with lip, glazed outside except bottom and unglazed inside, pestle unglazed at grinding surface and oversized size comfort for hand comfort in grinding.



### SS-506 BUCHNER FUNNEL

With thin stem, fixed perforated plate, glazed inside and outside except for rim



With wire and unglazed pipes. 3"

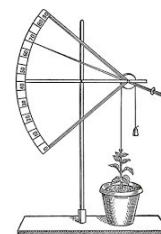


### SS-510 KLINOSTAT

With new clock movement having start and stop system, fitted on heavy cast iron base, a plant carrying cup is also provided.



### SS-512 ARC INDICATOR



### SS-514 BUNSEN BURNER MANSFIELD TYPE

Fitted on nicely duco painted heavy cast iron base provided with threaded air regulator and collar, packed individually in printed duplex box.



### SS-516 MEKER BURNER

Brass lacquered with ceramic grid cap to provided a wide flame.



### SS-701 BINOCULAR RESEARCH MICROSCOPE

It consists of a heavy aluminum base with electrical fittings inside and an inclined metal stand. Large stage fitted with co-axial mechanical stage for easy manipulation of slide. 45° inclined binocular head is attached to the stand by means of a clamping screws. Binocular head has adjustable inter pupillary distance adjustment and diopter adjustment on the left tube.

Boll bearing type quadruple nose piece is provided for precise movement of objectives. Illumination is by 6V-20W halogen lamp with on/off switch and intensity control knob. Abbe type condenser having glass of 1.25 Numerical Aperture with iris diaphragm and swing out filter holder is provided.



### SS-703 COAXIAL BINOCULAR MICROSCOPE

Most modern Equipped with co-axial focusing system based on four stage gear reduction, travelling 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.

Optical Combination

Eye piece 5x paired Huygenian, 10x paired Wide Field.

Objectives 5x, 10x, 40x (Spring Loaded) 100x (Spring Loaded, parfocalised, oil Immersion)



### SS-705 CO-AXIAL TRINOCULAR MICROSCOPE

Most modern equipped with co-axial focusing system based on four stage gear reduction, travelling 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 paired (Hug.) Paired wide filed. Objective 5x 10x 40x (SL) 100x Oil immersion (SL) (Self Parfocalised)



### SS-707 TRINOCULAR BIOLOGICAL MICROSCOPE WITH CAMERA ATTACHMENT

Trinocular head inclined at 30° and rotatable at 360°. Diopter adjustment ring on accular tube. Interpupillary distance adjustment form 55-75 mm. Vertical tube for digital photography.

Paired eye piece EWF 10XFOV 18mm.

Ojectives 4X S-Plan Achromatic, 10x S-Plan Achromatic, 40X (Spring Loaded, S-Plan Achromatic), 100X (Oil immersion, S-Plan Achromatic.)

### SS-709 PROJECTION MICROSCOPE 4"

The microscope is provided with one objective 10x, one eyepiece 10x, 100 mm dia projection screen, build in illumination system in the base and a focussing knob.



### SS-710 DISSECTING MICROSCOPE

Provided with cast iron base, closed glass stage having clips to hold specimen, plano concave reflector and detachable hand rests, two eye pieces 10x, 20x. With bakelite parts, packed in thermocole box.



It has a cast iron base and including body, coarse motion is through rack & pinion, supplied with 10x objective and 10x eye piece, stage is fitted with iris diaphragm underneath and stage clip on it, packed in thermocole box.



### SS-714 STUDENT MICROSCOPE

It has a u shaped heavy cast iron base with 90° inclinable body stage size is 110x110 mm with stage clips, separate knob for coarse and fine motion are provided on the body, revolving triple nose piece carries the objectives, illumination is by plano-concave reflector, a bright field condenser is fixed to the stage .



### SS-714 JUNIOR MEDICAL MICROSCOPE

It has a U-shaped heavy cast iron base with 90° inclinable body stage is 110x110mm with stage clips, separate knobs for coarse and fine motion are provided on body, revolving triple nose piece carrier the objectives, illumination is by plano-concave reflector, a bright abbe condenser with diaphragm can be moved up and down through a knob provided on the lower left side of the body.



### SS-716 MEDICAL MICROSCOPE

It is suitable for observation of cells and micro organisms, it has a U-shaped heavy cast iron base with 90° inclinable body, stage is 110x110 mm with stage clips, separate knob for coarse and fine motion are provided on the body, the slow motion is drum type. A detachable mechanical stage.



### SS-718 INCLINED MEDICAL MICROSCOPE

Robust metal construction having a revolving quadruple nose piece to carry four objectives, fully rotatable 45° inclined tube illumination by 6V- 20W halogen lamp with solid state control, the large is fitted with a ca- axial mechanical stage for easy manipulation of slide, abbe type moving condenser with diaphragm and swing out filter holder is provided below the stage. Optical combination.



A dual purpose instrument equipped with 150mm dia meter, build in fine grain glass which is removable to project the image on the wall or screen. Equipped with 12V-100W halogen lamp, loop and arrow pointer, mechanical stage, two objectives 10x, 40x, eyepiece 10x and an cooling fan, packed in a card board box.



**SS-730 MECHANICAL STAGE**



**SS-732 CAMERA LUCIDA MIRROR TYPE**



**SS-722 PROFILE PROJECTOR**

Compact, light weight table top model. 250 mm diameter screen with 90° cross line and chart holders. Screen is graduated to 360° with vernier reading 6 minutes. Projection light source 24V/150W holo gen lamp. Double opaque light source for source for surface illumination. Two adjustable dichoric reflector lamps 12V/100W each. Focussing through a knob. Optical distortion below 0.15% . Standard magnification 10x. Cooling by built-in Noiseless & vibration free fan.



**SS-734 DOUBLE DEMONSTRATION EYE PIECE**



**SS-736 STAGE MICROMETER**



**SS-740 CAVITY SLIDE**

A	One Cavity
B	Two Cavity
C	Three Cavity



**SS-724 HAND AND TABLE MICROTOME**



**SS-738 ACCULAR MICROMETER**



**SS-742 SLIDE PREPARED**

On Botany & Zoology, school standard.



**SS-744 DISSECTING TRAY**

G.I. Sheet without wax

A	12" x 10"
B	15" x 12"



**SS-726 POINTER EYE PIECE**

A huygenian eye piece with an accurately centered fine pointer in velvet case.

- (a) 10x or 10x
- (b) 5x



**SS-728 MICROSCOPE LAMP**

Pin type sub stage lamp, having a plastic ventilated body with a blue filter on one side and plain ground glass filter on the opposite side. Provided with on/off switch.



**SS-746 DISSECTING BOARD**

Soft wood with lead

A	20x15cm
B	20x25cm



**SS-748 INSECT NET**

Ring 12" dia with metal handle.



**SS-750 DISSECTION BOX**

Stainless steel in velvet box.

A	13 Instruments
B	17 Instruments

**SS-752 FORCEPS**

Stainless steel, superior heavy (pointed)

A	B	C
4	5	6
"	"	"



**SS-754 DISSECTING NEEDLE**

Plastic handle.

**SS-756 BONE CUTTER**

Stainless steel.

A	B
5	6
"	"



**SS-758 SCISSORS**

With plastic handle.

AB	C
4 5"	6
"	"



**SS-760 SCISSORS S.S. HEAVY**

A	B	C
4	5	6
"	"	"



**SS-762 CRUCIBLE TONGS S.S.**

A	B	C	D	E
6	8	10	12	18"
"	"	"	"	"



**SS-764 STAINING RACK**

Wooden 6 hole

A	30 ml Bottle
B	60 ml Bottle
C	125 ml Bottle



**SS-766 INSECT BOX**

With cork sheet (12"x15")

A	25 Slides
B	50 Slides
C	100 Slides



**SS-768 SLIDE BOX WOODEN**

With Aluminium Grooves



**SS-770 SLIDE BOX PLASTIC**

A	25 Slides
B	50 Slides
C	100 Slides

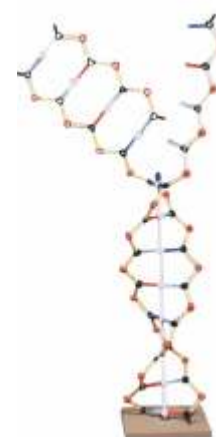


**SS-772 SLIDE CABINET**

Each drawer to hold 100 slides drawer fitted with index card pulling knob and slider over metal rails with aluminum grooves.



**SS-774 SS-776 MODEL DNAMODEL RNA**



**ANIMAL CELL**



**SS-780 PARAMECIUM MODEL**

**PROTEUS MODEL**



**SS-782 AMOEBA**



**SS-784 PLANT CELL**



**SS-786 EYE MODEL**



**SS-788 BRAIN MODEL**



**SS-790 EAR MODEL**



**SS-792 HEART MODEL**



**SS-794 KIDNEY WITH BLADDER MODEL**



**ALN-796 SKELETON**



**SS-798 SKIN MODEL**



**SS-800 HEAD & NECK MODEL**



**SS-802 TEETH WITH JAW MODEL**



**LUNGS MODEL**



**SS-805 LARYNX MODEL**



**SS-806 REPRODUCTIVE SYSTEM MALE/FEMALE MODEL**



**SS-808 CIRCULATORY SYSTEM MODEL**



**SS-810 NERVOUS SYSTEM MODEL**



**SS-812 PELVIS WITH BABY MODEL**



**SS-814 HYDRA MODEL**



**SS-816 SS-818 RESPIRATORY DIGESTIVE SYSTEM MODELS SYSTEM MODEL**



**SS-820 TORSO SMALL**



**SS-822 PRESERVED SPECIMEN**



**EMBEDDED**

**SS-824 CHARTS**



**SS-826 PRESERVED SPECIMEN**



**SS-851 SLIDE PROJECTOR**

Aluminium moulded compact body fitted with heavy transformer, 24volts 150watt halogen lamp, on on/off switch, blower cooler with 2"x2" slide carrier and focus tube, packed in sturdy case for storage and safety in transportation.



**SS-855 OVER HEAD PROJECTOR**

A moden, compact, light weight and sturdy model with clear aperture 240x240mm, provided with 24volt 250watt halogen lamp with heavy transformer, focussing by rack & pinion, cooling fan, folding projection arm, rotating projection head 360°, high oprics, superior fresnel lens, efficient light intensity dim/bright switch, packed in thermocole case with card box.



**SS-853 OVER HEAD PROJECTOR DELUXE MODEL**

Trouble free performance, economically priced. Working stage 285x285 mm folding arm and head for easy storage anti glare Fresnel lens External color fringe control twin halogen lamp 24V-250 Watt Tilt angle 0-60° head rotation 360° safely cut off switch approx. 2500 output lumens. Packed in thermocole, supplied in outer sturdy corrugated box for safe transportation.



**SS-857 PROJECTION SCREEN**

Simple, map type made of show white synthetic cloth rolled on two fixed metal tubes.

A90 x 120cm
B130 x 175cm



**SS-859 PROJECTION SCREEN**

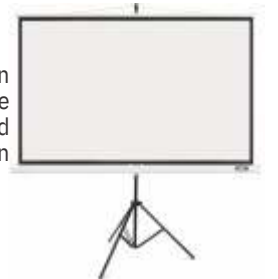
Wall mounting type automatic spring action. It can roll automatically with the help of spring.

A90 x 120cm
B130 x 175cm



**SS-861 PROJECTION SCREEN**

150cm x 150xm portable, spring action type, ideal for classroom and conference room. Superior image resolution and accurate color reproduction, high grain with a contrasting border.



**SS-863 SLIDSCOPE**

For viewig slides in available light.



**SS-865 METALLIC AND ALLOYS SET OF 24**



**SS-867 MINERALS SET OF 30 ROCK SET OF 20**



**SS-869 METALLIC ORES SET OF 20**



**SS-870 COLLECTION OF METAMORPHIC ROCKS**



**SS-871 COLLECTION OF 10 METAL**



**SS-873 POLITICAL GLOBE**

Political Globe with steel/unbreakable ABS plastic graduated acc. Available Language : English & Hindi. Other languages available only in 20 & 30 cms Dia. Arabic, Bengali, Gujrati, Kanada, Marathi, Oriya, Punjabi, Tamil, Telgu.



**SS-875 ILLUMINATED GLOBE**

Physical relief with light off and Physical Cum Political with light on, with unbreakable die casted steel base and arc in attractive cardboard box.



**SS-877 ANTIQUITY GLOBE**

Shows the latest political boundaries with capitals & other important cities & towns with illumination to high light the Globe & make it attractive.



**SS-879 THE EARTH'S LAYER MODEL**

This model shows the layers in side the earth. It is in seven detachable parts which indicate the interior of the earth.



**SS-881 MODEL OF EARTHSS-883 INTERNAL STRUCTUREMODEL OF THE SUN**



**SS-885 VISUAL 3D MAPS**

This is entirely a new concept, although done of flat PVC sheet which is unbreakable, markable and wahsable, they look like a actual '3D' map with naked eyes.

**SS-887 WORLD PHYSICAL**



**SS-889 INDIAN SUBCONTINENT PHYSICAL**



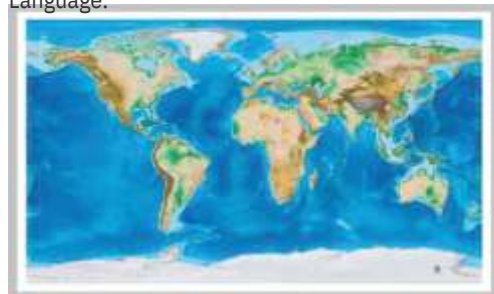
**SS-895 3D LARGE SIZE**

**SS-891 OCEAN FEATURESSS-893MAP OF THE WORLD WORLD RELIEF & BATHYMETRIC**

53 X 73 cms complete with hard backing and elegant wooden framed.

We can produce any of our customer requirement in similar 3D view either it is a map or poster in any size upto 65 x 125 cms in National or Regional Language.

Size 140 x 92 cms. This is the raised relief model map of the world showing the earth surface in relief as well as the relief of the world ocean are also to be seen. Complete with hard backing, frame with hanging hooks.



**SS-897 MODEL OF BOARD CONFIRMATION AND THE EARTH**



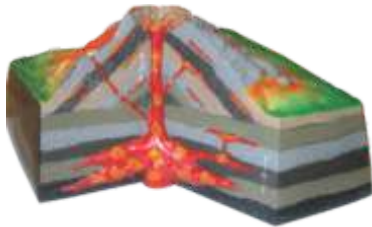
**SS-899 MODEL OF PLATE STRUCTURE AND SURFACE MORPHOLOGY**



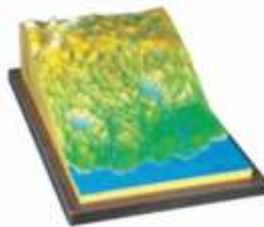
**SS-900 FAULT BOARD MODEL**



**SS-902 MODEL OF VOLCANO**



**SS-904 MODEL OF CRUSTAL MOVEMENT**



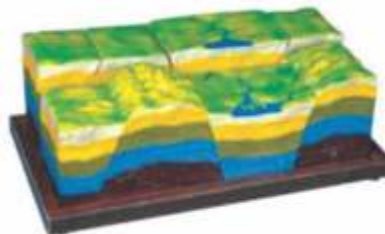
**SS-906 MODEL FO FOLD STRUCTURE AND ITS GEOGRAPHIC EVOLUTION**



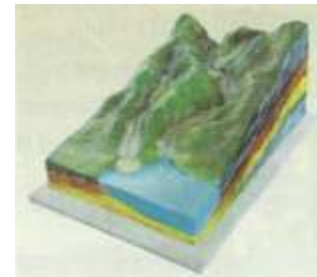
**SS-908 MODEL OF CONTOUR MAP INTERPRETATION**



**SS-910 MODEL OF DIASTROPHISM, FRACTURE STRUCTURE AND HORST GARDEN**



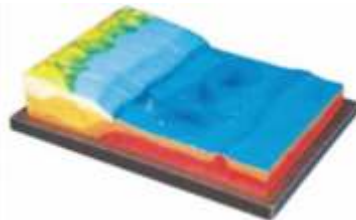
**SS-912 MODEL OF FLOCCULATION SEDIMENTATION DEMONSTRATION DEVICE**



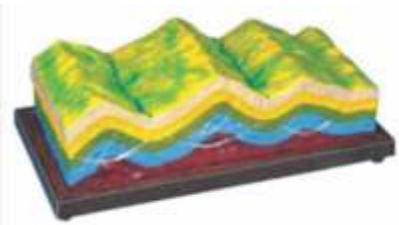
**SS-914 MODEL OF ISLAND FORMATION**



**SS-916 MODEL OF BOTTOM CONFIGURATION**



**SS-918 MODELS FOLD STRUCTURE AND ITS GEOMORPHIC EVOLUTION**



**SS-920 GEOGRAPHICAL TERMS MODEL**



SS-922 STEVENSON  
METEOROLOGICAL  
SCREEN WOODEN



SS-924 PHASE OF MOON  
SS-926 EARTH  
MOVEMENT MODEL



MOVEMENT MODEL



SS-928 STUDENT  
PLANETARIUM  
ILLUMINATED



SS-930 ELECTRICAL  
APPARATUS DAY  
& NIGHT



SS-932 STANDARD  
TIME  
INDICATOR



SS-934 MODEL  
SOLAR SYSTEM



SS-936  
PLANE TABLE  
COMPLETE



SS-938  
ALIDADE  
VANE) BRASS (SIGHT



SS-940  
MAGNETIC  
TROUGH  
COMPASS IN WOODEN CASE  
15 CM



SS-942 OPTICAL  
SQUARE



SS-944  
BRASS  
PLUMBOB



SS-946  
PLUMBING  
FORK



SS-948  
CROSS  
STAFF



SS-950 SURVEY  
CHAIN



SS-952  
INDIAN  
CLINOMETER  
COMPLETE IN CASE



PATTERN  
TANGENT

SS-954  
ABNEY LEVEL WITH SLOW  
MOTION 5"

