

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI

Shivaji Nagar, Morshi Road, Amravati - 444603 India
NAAC Accredited by **Grade A+ with CGPA 3.42 (4th Cycle)**; PM USHA: **Component-3 Grant for College Strengthening DBT Star College (2023-2024)**-Strengthening Component,; Hat trick in NIRF Ranking (2024): **Rank 99th**
UGC awarded status of **College with Potential for Excellence (2nd Phase)**;
ISO 9001:2015 **Certified College**; Identified by: DST, Govt. of India for FIST,
Sant Gadge Baba Amravati University as **Lead College**, and Career Katta as **Centre of Excellence**

TENDER NOTICE

Date: 21/08/2024

The sealed tenders are invited from the reputed Firm/Enterprise for the purchase of laboratory Equipments of standard make under DBT STAR College Scheme. The vendors should be a registered supplier possessing the Registration No, GST No., current Income Tax clearance Certificate and PFMS account.

The details of the tender are available at www.shivajiscamt.org from 22/08/2024 to 1/09/2024.

Deadline for submission of Sealed Tenders in office: 7/09/2024 before 3.00 P.M. with amount of Rs. 1000/-

Tenders Opening: 09/09/2024 at 04.00 P.M. in the IQAC Office of the College.

The undersigned has the right to accept or reject any or all tenders without notice & without assigning any reason thereof.

Shri. Harshvardhanji P. Deshmukh
President
Shri Shivaji Education Society, Amravati

Dr. G. V. Korpe
Principal
Shri Shivaji Science College, Amravati

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Terms & Condition for Participation in Open Tender

1. The prices of all materials/items/equipments etc. be quoted inclusive of all taxes i.e. GST as applicable.
2. The prices will be inclusive of all charges & f.o.r. destination.
3. Otherwise stated the warrantee/ guarantee of items/material/equipments etc. will be assumed of one year.
4. All the items need to be demonstrated in physical at the time of delivery in the respective department.
5. The security deposit of 5% will have to be deposited as per order issued.
6. The security deposit will be refunded only on the compliance of complete order.
7. The final payments will be issued through PFMS Only
8. All rights to accept or reject the tenders are reserved with the tendering authority.

Place: Amravati
Date: 21/08/2024

Dr. G. V. Korpe
Principal
Shri Shivaji Science College, Amravati

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List of the Laboratory Equipments of standard make to purchase under DBT STAR College Scheme.

Item No.	Item Title	Item Description (Detailed Specification)	Department
1	Hot air oven Dual Mode (Incubator Cum Oven)	Cycle Mode : Forced convection Temp. Range : Incubator:RT+5-80°C Drying oven:80-300°C Temp. Resolution Ratio: 0.1°C Temp. Motion: ±1°C Temp. Uniformity: Incubator: ±1.0°C Drying oven:±2.5% Inner Chamber: Mirror Stainless Steel Outer Shell: Cold rolling steel electrostatic spraying exterior Insulation layer: Compound silicate heat preservation board Heater: Stainless steel heater Temp. control mode: PID Two temperature section intelligent PID Temp. setting mode: Touch button setting Timer: 0-9999min (with timing wait function) Operation function: Fixed temperature operation, timing function, auto stop. Sensor: Pt100 Inner Chamber size(W*L*H)(mm): 400*360*450 Volume: 65L Shelf: 2 Current rating: AC220V/7.2A Volume: 65L Shelf: 2 Current rating: AC220V/7.2A	Botany
2	Conductivity Meter	(Micro controller based, Range: 0.1 µS – 100 mS, Resolution: 0.001 µS, Temperature: 0? – 1000 ?)	Botany

3	Camera	24.2MP RF-S18-150mm f/4.5-6.3 IS STM Mirrorless Camera (APS-C Sensor, 4K UHD Video) for Wedding & Content creators – Black , Compact design, 24.2MP clarity, swift autofocus, and 4K UHD video redefine travel and vlogging adventures, capturing every moment in vivid detail and unmatched brilliance. Image Sensor: APS-C CMOS Sensor with 24.2 MP Image processor: DIGIC X Shooting speed: Upto 23 Frames per second Video resolution: 4K 30p & Full HD 120p ISO range: 100–32,000 Display: TFT colour, LCD Screen, 3.0 type with approx 1040K dots Connectivity: Wifi + Bluetooth	Botany
4	Digital Balance	Capacity : 220gm Accuracy: 0.001gm Pan Size : 128 x 128mm Display : LCD with Backlight With Internal Calibration	Botany
5	Clevenger Apparatus with Heating Mantle	Made from Heat Resistant, Low Expansion 3.3 Borosilicate Glass For Oil Lighter Than Water Round bottom Flask 1000ml: 24/29 Liebig condenser 300mm-24/29	Botany
6	Digital Laboratory Refractometer	Brix Refractometer with ATC Digital Handheld Refractometer, Dual Scale-Specific Gravity 1.000-1.130 and Brix 0-32%	Botany
7	Agarose Electrophoresis assembly	(Horizontal) with power pack Cell size (W x L x H): 17.8 x 25.5 x 6.8 cm Gel tray sizes (OD) (W x L): 15 x 7 cm Sample throughput: 10-60 Base buffer volume: 650 ml Bromophenol blue migration: ~4.5 cm/hr (at 75 V)	Botany
8	Gel Caster LA1076	Hi-Gel caster helps in easy, hassle-free casting of Agarose gels for electrophoresis. Gel size 10x12cm	Botany
9	Essential Oil Determination Apparatus with Heating Mantle	Made from Heat Resistant, Low Expansion 3.3 Borosilicate Glass For Oil Lighter Than Water Round bottom Flask 1000ml: 24/29 Liebig condenser 300mm-24/29	Botany
10	Soxhlet Extractor	Soxhlet extraction assembly with heating mantle(3 in 1) capacity of 500 ml flask	Botany
11	Trinocular MICROSCOPE with camera	E.S.A.W Trinocular Microscope Cmos Camera 5MP (White) with Slide Box with Semi-Plan Objectives (Magnification 40x-1500x)	Botany

12	Desktop server	Intel Xeon Silver4208 8C 85W 2.1GHz Processor, 32 GB RAM, 2TB SATA, 512GB SSD	Botany
13	Desktop Computers -i3	All-in-One PC 12th Gen Intel Core i3-1215U 24-inch (60.5 cm) FHD Desktop (8GB/512GB/Windows 11/Wireless Keyboard and Mouse Combo/IR Privacy Camera/Intel UHD Graphics/MSO/Jet Black) 24-cb1802in	Botany
14	UPS	APC Back-UPS Pro BR1000G-IN, 1000VA / 600W, 230V UPS System, High Performance Premium Power Backup &, Desktop PC, 3 Pin 6A Output Socket – 4 with Battery backup & Automatic Voltage Regulator (AVR) with Wide Input Voltage Range of 170-294V	Botany
15	Biological Software's	1-Vlife MDS suite (QSARpro, BioPredicta, VLifeDock, VLifeQSAR software for Drug Designing) 5-year license and 2- Google cloud life sciences (Online cloud base service for Next Generation (DNA, RNA) Sequence analysis) 5-year license	Botany
16	Digital Interactive Board	Cornea (55 Inches) Ultra Touch Display Interactive Flat Panel Monitor (3840 x 2160 Pixels) Android and Windows (Optional) LED Ideal for Schools, College, Institute, Home and Office Use, Multi color (Black & Grey)	Botany

17	Micropipette: 0.5-10 μ L	<p>Adjustable Micropipette 0.5ul-10ul, Single Lab Pipette High-Accurate Automatic Micro Pipette Brand: New Cayon ? ADJUSTABLE VOLUME: Covering a volume range of 0.5ul to 10ul, increment with 0.1ul, our micro pipette is more accurate volume setting with digit display. Simply rotate the piston button to select the desired volume. ? AUTOCLAVABLE: The tip core can be disassembled and sterilized by autoclave in 121 degree. ? HIGH QUALITY: The control button and tip ejector cap is made of PA material; the body of the micropipette is made of premium grade PP material, High temperature resistance. ? EASY TO OPERATE: With air displacement principle, tips ejector and disposal tips, this pipettor is easy to operate for sampling and dispensing accurate liquid volumes. ? HIGHLY ACCURATE: Each variable pipette is tested to ensure precision and accuracy. In case the volume inaccurate when you using, you can recalibrate it.</p>	Botany
18	Micropipette: 0.5-50 μ L	<p>Type of Product: C3 Variable Volume Model No: LHC37112016 Volume Range: 5-50 μl Imprecision: 1.20/0.30 Inaccuracy: 2.00/1.00 % Volume Increment: 0.5 μl Application: Laboratory</p>	Botany
19	Micropipette: 2-20 μ L	<p>Variable Volume Micropipette, 2-20μl Range - Mechanical Tip Ejector - Eisco Labs Variable volume micropipette, 2-20μl 0.1 increments Designed to deliver precise liquid volumes Features easy to use, 2-stop mechanism for intake/dispensing and simple volume adjustment High degree of accuracy due to its advanced, trouble free operation and maintenance</p>	Botany

20	Micropipette: 50-200 μ L	Type of Product: C3 Variable Volume Model No: LHC37112024 Volume Range: 20-200 μ l Imprecision: 0.70/0.20 Inaccuracy: 2.50/0.60 % Volume Increment: 1 μ l Application: Laboratory	Botany
21	Micropipette: 200-1000 μ L	Micropipette High Performance Single Channel Pipettor 100-1000ul Volume Pipette With Manual & CE Certification + Calibration Report UV resistant for Biology Chemistry Laboratory Experiments Included: High Performance Single Channel Pipettor 100 - 1000ul Volume Pipette With Manual & CE Certification + Calibration Report. Fully autoclavable Ergonomic design Clear and easy-to-read display Volume range of 10uL to 1000uL. Each pipette is supplied with an individual test certificate & calibrated in accordance with ISO8655. UV resistant with 'CE' mark certification. Ergonomic design ensuring light weight & soft plunger movement Two step plunger operation allows 'reverse pipetting technique'. If you need custom order with different sizes/design please contact KingMariot Storefront on Amazon. Safely Packaged to avoid being damaged during transportation.	Botany
22	Micropipette tips 0.5-10 μ	Tips With filter	Botany
23	Micropipette tips 0. 5-50 μ	Tips With filter	Botany
24	Micropipette tips 50-200 μ	Tips With filter	Botany
25	Micropipette tips 200-1000 μ	Tips With filter	Botany
1	HP Desktop PC /Core i5 - 12400T/8GB RAM/1TB HDD+ 256G SSD/Windows 11/19.5TFT/Keyboard+ Mouse	Durable to conduct practical's	Computer Science

2	HP All-in-One PC 13th Gen Intel Core i7 27" (68.6cm) FHD 16GB RAM, 1TB SSD, Intel UMA Graphics, 710 White Wireless Keyboard and Mouse Combo (Windows 11 Home, MSO 21, Shell White, 6.72 Kg) 2	All-in-One PC 13th Gen Intel Core i7 27" (68.6cm) FHD 16GB RAM, 1TB SSD, Intel UMA Graphics, 710 White Wireless Keyboard and Mouse Combo (Windows 11 Home, MSO 21, Shell White, 6.72 Kg)	Computer Science
3	Raspberry pi 3 B+ module	Model B+ Kit with Adapter, Case, LAN & HDMI Cable, HeatSink, SD Card - The Complete Kit	Computer Science
4	Pi-cam	5 Megapixels Camera Module for Raspberry Pi 1080P HD OV5647 Sensor with 15cm and 100cm Pin Ribbon Cable for Raspberry Pi	Computer Science
5	Raspberry pi case with fan	Aluminum Alloy Case for Raspberry Pi 3	Computer Science
6	NodeMCU 1.0 ESP 8266 with cable	1.0 ESP 8266 with cable, 32-bit RISC CPU Xtensa LX106, Flash Memory: 4 MB SRAM: 64 KB	Computer Science
7	RGB LED strip with remote control and adapter	Strips led Lights with Adapter (Blue, 25 Meter)	Computer Science
8	HDMI Cable	HDMI Aura- Gold Plated Braided Cable, 4K High Speed HDMI Cord 10.2Gbps with Ethernet Support Compatible with 3D,4K, HD 1080P LED/LCD TV, Monitor, Computer, Gaming, Blu-Ray & More (5 Ft/ 1.5 M)	Computer Science
9	Aurdinio board with cable	UNO R3 SMD Board compatible with Arduino Development Board with USB cable	Computer Science
10	Power Adaptor for aurdino board	3.3V and 5V Power Supply Module for MB102 Bread Board for Raspberry Pi, boards compatible with Arduino,Black	Computer Science
11	Ultrasonic Sensor	HC-SR04 DC 5V Ultrasonic Module Distance Measuring Transducer Sensor, Working Voltage - DC 5V, Working Current - 15mA Max Range - 4m, Min Range - 2cm, Measuring Angle - 15 degree	Computer Science

12	Magnetic door Sensor	WiFi 4G Alarm System for Home Security, Wireless Home Alarm 20 Piece Kit with Siren, PIR Motion Sensors, Remote Controls, Window/Door Sensors	Computer Science
13	Dust Sensor	DSM501A PM2.5 Dust Sensor Module for Arduino Operating, Voltage: 5V DC Material: Plastic, aluminum, PCB	Computer Science
14	Carbon Monoxide sensor module	Carbon Monoxide Gas Sensor Module, Concentration: 10-10000 ppm CO Loop Voltage: < 10V DC Heater Voltage: 5.0V + 0.2V Heater Time: 60 + 0.1V	Computer Science
15	LPG sensor Module	Gas Sensor Module - LPG Detection for Electronic Projects, Circuits, and DIY Kits	Computer Science
16	Alcohol Sensor Module	Power supply of 5VDC, Consumes 150mA current Alcohol Concentration detection: 0.05 mg/L to 10 mg/L. Interface: one TTL compatible input (HSW) and one TTL compatible output (ALR). Heater consumes: <750mW. Humidity: <95%RH	Computer Science
17	Air Quality Sensor Module	Accuracy \pm (30 ppm +3%) of reading between 400 ppm and 5000 ppm, Interfaces I2C, UART and PWM Operating Range 0 ppm - 32000 ppm Supply Voltage min max 3.3 V 12 V	Computer Science
18	GPS Sensor Module	GPS Interface Speed Sensor / Compass Sender / BIM Module GPS-50-2Opens in a new window or tab	Computer Science
19	DHT-11 Module	DHT11 Temperature and Humidity Sensor Module for Arduino Raspberry Pi	Computer Science
20	LDR Module	Light Dependent Resistors are often used as light sensors.	Computer Science
21	IR Module	IR sensors are now widely used in motion detectors, which are used in building services to switch on lamps or in alarm systems to detect unwelcome guests.	Computer Science
22	LM -35	The LM Series precision measurement sensor	Computer Science
23	LORA Module pair	LORA Module pair	Computer Science

24	Relay 5v 2-channel	ADITY 5V Dual Channel Relay Module be used to control various appliances, and other equipment with large current	Computer Science
25	Relay 5v 4-channel	The 4 Channel Relay Module is a convenient board which can be used to control high voltage, high current load such as motor, solenoid valves, lamps and AC load	Computer Science
26	Water Flow Meter sensor	The electrodes, which are embedded on opposite sides of the surface through which liquid flows, create a magnetic field.	Computer Science
27	TCS230 TCS3200 Color Sensor	How TCS230 / TCS3200 Color Sensor Works. The TCS230 senses color light with the help of an 8 x 8 array of photodiodes.	Computer Science
28	Color TFT Arduino 4-Inch	Liquid crystal displays (LCD) are available in one color (monochrome) or in full color. The full-color displays are then called TFT displays.	Computer Science
29	MG995 High torque Servo Motor	Features. Metal gears: The MG995 servo is equipped with metal gears for enhanced longevity and reliability.	Computer Science
30	sonoff relay	SONOFF makes smart switches that work using either Wi-Fi or Zigbee.	Computer Science
31	AC dimmer Module SUNROM	Standard Dimmer modules provide cost-effective digital forward phase angle dimming for standard loads such as incandescent, low voltage, quartz, neon, cold-cathode and 2 and 4-wire fluorescent ballasts.	Computer Science
32	RFID READER MFRC522	MFRC522 is a highly integrated RFID reader/writer IC for contactless communication at 13.56 MHz.	Computer Science
33	16*2 LCD I2C Interface Module	It has total of 20 male pins. 16 pins are faced to rear side and 4 pins faced towards front side. The 16 pins for connect to 16x2 LCD and the 2 pins out of 4 pins are SDA and SCL. SDA is the serial data pin and SCL is the clock pin.	Computer Science

34	HC-05 Bluetooth Communication	The HC-05 is a class 2 Bluetooth module designed for transparent wireless serial communication.	Computer Science
35	DS18B20 TEMPERATURE SENSOR MODULE	DS18B20 Temperature Sensor is suitable for the cold storage, granaries, storage tanks, telecommunications room, electric power room, cable trough, and other temperature measurement and control areas; bearing, cylinder, textile machinery, air conditioning, and other small space industrial equipment temperature	Computer Science
36	PIR SENSOR MODULE	A PIR sensor is an electronic sensor used in motion detectors such as automatically triggered lighting devices and protection systems that measure devices emitting infrared light in their field of view.	Computer Science
37	DUAL AXIS JOYSTICK MODULE	The Dual-Axis XY Joystick Module is a versatile input device designed to provide analog control in two dimensions, allowing users to manipulate positions along the X and Y axes. This module incorporates two potentiometers that translate the movement of the joystick's shaft into analog voltage signals.	Computer Science
38	Flex Sensor	A flex sensor or bend sensor is a sensor that measures the amount of deflection or bending. Usually, the sensor is stuck to the surface, and resistance of sensor element is varied by bending the surface.	Computer Science
39	Current Sensor - ACS712	ACS712 Current Sensor is the sensor that can be used to measure and calculate the amount of current applied to the conductor without affecting the performance of the system.	Computer Science
40	Accelerometer Adxl335	The ADXL335 is a small, thin, low power, complete 3-axis accelerometer with signal conditioned voltage outputs.	Computer Science

41	Soil Moisture sensor	With Digital Output-Soil Hygrometer-Soil Humidity Sensor-Soil Moisture Meter	Computer Science
42	Rotary Encoder	KY-040,Incremental Encoder, Cycles per revolution (CPR) : 20, Working voltage : 0 – 5V.	Computer Science
43	Touch Button sensor	A capacitive touch sensor module based on the dedicated TTP223 touch sensor IC. The module provides a single integrated touch sensing area of 11 x 10.5mm with a sensor range of ~5mm.	Computer Science
44	5 V DC, 3A supply	5.5x2.1mm DC Power Supply Cable	Computer Science
1	Carbon Dioxide & H2S Analyser	<ul style="list-style-type: none"> * CO2 Measuring Range upto 0-5000ppm. *Sensor principle NDIR. *With data logging and downloading facility. Downloaded data available in ASCII Format (Maximum : 50,000 Records) . *Power Supply: Li-Polymer, rechargeable battery with charger. *8 Hours battery backup. *Along with user manual, test calibration certificate, Protection Cover. <p>SNGLE CHANNEL PORTABLE H2S DETECTOR DIFFUSION TYPE, (PORTABLE)</p> <ul style="list-style-type: none"> *Gas to be detected H2S. *Sensor Principle Electrochemical. *H2S Measuring Range : 0 to 100 ppm. *With data logging and downloading facility. Downloaded data available in ASCII Format (Maximum : 50,000 Records). *Power Supply: Li-Polymer, rechargeable battery with charger. *8 Hours battery backup. * Along with user manual, test calibration certificate, Protection Cover. 	Environmental Science

2	Dissolved Oxygen Sensor with Transmitter	<p>Sensor Type - Optical</p> <p>*Measurement Range- 0 to 30 mg/L.</p> <p>*Calibrated Range- 0 to 20 mg/L; 0 to 35°C (32 to 95°F).</p> <p>*Accuracy- ± 0.2 mg/L up to 8 mg/L; ± 0.5 mg/L from 8 to 20 mg/L.</p> <p>*Resolution- 0.02 mg/L.</p> <p>*Response Time- o 90% in less than 2 minutes.</p> <p>DO Sensor Cap Life- 6 months, cap expires 7 months after initialization</p>	Environmental Science
3	Digital Multiparameter Water Testing Kit	<p>Display (LCD) 2 Line 20 Cha Alphanumeric, Printer port-Centronic printer interface, Optional-PT Electrode. Power : 230 V, 50Hz +/- 10% or Internal battery with charger.</p> <p>*pH Range: 0 to 14 pH, Resolution 0.01pH, Accuracy +/-0.01[J +/-1 pH,</p> <p>Sensor : GE&RE / Comb. Electrodes . Temp. Compensation- Auto / Manual.</p> <p>* mV/ORP - Range: +/- 1999mV, Resolution 1 mV, Accuracy +/-1 Digit, Sensor : GE&RE / Comb. Electrodes.</p> <p>*Conductivity/ TDS-Range: 0 to 100 mS, 5 ranges, oppm to 100ppt 5 ranges at TDS factor 0.5 (approx) & TEMPCO 2%.. Accuracy +/- of FS +/- 1 Digit, Sensor-Glass /PVC Cond. Cell (Acceptable from 0.1 to 5.0cell constant) .</p> <p>*Temp.Compansation: Auto/ Manual.</p> <p>*Salinity: -Range: 0 to 40ppt, Resolution: 0.1 ppt, Accuracy:+/-2% of FS +/-1 Digit</p> <p>* Dissolved Oxygen (D.O). Range: 0 to 20ppm, Resol 0.1ppm, Accuracy +/-1% of FS +/-1 digit +/-0.1,</p> <p>*Senosr: Au/Ag Prove. *Temp. compensation: Auto/Manual.</p> <p>*Temperature-Range: +/- 0 to 100 Degree C,</p> <p>*Resolution 0.1 Degree C Accuracy 0.1 Degree C +/-1 Digit, Sensor PT-100.</p> <p>*Calorimeter- Range: +/-2.00 abs 0 to 100%T conc.: 1.1999, Accu. +/- 0.05 Abs Resolution 0.001 abs, 0.1 % T. Sensor : Photo Diode,</p> <p>*Source: Tungsten Lamp. Filters: Blue 440nm, Green 540nm & Red 660nm .</p> <p>*Turbidity: -Range: 0 to 1 NTU, 0 to 10 NTU, 0 to 100NTU, Accu: +/-2% of FS, Sensor : Photo Diode,Source – Tungsten Lamp.</p>	Environmental Science

4	Flame Photometer	<p>Auto Ignition Flame Photometer -With Na, K Filters and Compressor. Microcontroller controlled automation for ease of operation.</p> <ul style="list-style-type: none"> *Determination up-to five elements with single aspiration (Na, K, Li, Ca & Ba). *Unit of measurement "ppm" and "meq/l". <p>Suitable for medical and industrial analysis.</p> <ul style="list-style-type: none"> * Calibration standard up-to five point. * Auto Ignition. * Gas leak sensor. *Auto Gas cut-off. *Password protection. *Separate login for Administrator and Guest * Data processing with linear mode or quadratic curve fitting. * Results of a measurement taken earlier can be recalled and displayed (Max.Interfaces). *Built-in real time clock for date and time. *Centronix printer port for Epson compatible Dot Matrix / Inkjet printers to get. Hard copy of results (Printer Optional). *Air compressor with built-in air regulator and air filter. Pc-link software (optional) *Determination up-to five elements. with single aspiration (Na, K, Li, Ca & Ba). *Auto Ignition. * Gas leak sensor. * Auto Gas cut-off. *Password protection. 	Environmental Science
5	Orsat Apparatus	<p>a) Orsat Gas Analysis Apparatus 3 Test. Without Chemical. Or</p> <p>b) Orsat Gas Analysis Apparatus 3 Test. With Chemical</p>	Environmental Science
6	Digital Bulk Density Apparatus	<ul style="list-style-type: none"> *Microprocessor based 4 digit preset counter 30 strokes per minutes, * Strokes height 50 mm (Supplied without cylinder) 	Environmental Science

7	Digital pH	<p>Measurement of pH, mV, EC (Electrolyte Conductivity), *TDS and Salinity are possible. pH, EC, TDS or Salinity (Any of one at a time) parameters displayed along with temperature of sample. 240</p> <p>* 128 Monochrome LCD Display.</p> <p>* Back up for calibration data. 500 Measured readings data stored for all four parameters along with temperature.</p> <p>* Recall saved data for view, print etc.</p> <p>* In pH mode: 2, 3, 4 & 5 point calibration option, with user & STD buffer selection.</p> <p>* Measurement Display with BIG FONT. Hold function. Temperature compensation Auto / Manual</p>	Environmental Science
8	Digital Colorimeter	<p>Micro controller Photoelectric colorimeter,</p> <p>* Wavelength Range: 400-700nm with 8 optical filters. Filters Peak Wavelength (Typical): 420, 440, 490, 520, 540, 570, 600 & 700nm. Measuring Models: %T ABS Conc. And K-Factor.</p> <p>* Display: 4-Digit LCD.</p> <p>* K-Factor Range Display: 0 to 1999.</p> <p>Concentration Setting Limit: 0 to times the absorbance readout (With Decimal point removed).</p> <p>Sample volume (min): 1 ml in 4 ml Cuvette/Test Tube.</p> <p>Source: 6V, 3W Pre</p> <p>* Focused lamp.</p> <p>* Detector: Hermetically Sealed Photodiode.</p> <p>* Power: 230V +/- 10%, 50Hz .</p> <p>* Optical:- Interference Filter 500, 546, 378, 630nm Etc. typical BW of 100.</p> <p>* Sample Volume (min) : 300ul in 1ml Cuvette.</p>	Environmental Science

9	Mirror Sterescope	Mirror Sterioscope with binocular in wooden box, Field View: *Direct viewing: 180mm x 200mm. With Built in *Magnifier: 175mm dia. With 3 or 4 x Binocular viewer 65mm Dia. *Resultant Magnifications. Direct viewing: 0.78 X. With Built in Magnifier: 1.2X. With 3 or 4 x Binocular viewer 65mm. *Instrument Base 200mm	Environment al Science
10	Turbidity Meter	*Micro controller based. Range : 0 – 1000 NTU (Automatic). *Readout : 2 Line 16 Character LCD. *Data storage : Calibration & Data Stored in Memory. *Printer interface for 80 Column D.M. Printer	Environment al Science
11	Digital Sling Psychrometer	Digital Psychrometer Thermo-Hygrometer Preciva LCD Mini Temperature and Humidity Meter with Dew Point and Wet Bulb Temperature Hygrometer for Industry, Agriculture, Meteorology and Daily Life	Environment al Science

12	Digital Balance	<p>Display: LCD with multiparameter.</p> <p>*Interface: RS 232 port, Optional USB converter.</p> <p>* Weighing Units: Multiple. Percentage Weighing Units: *Display of Reference weight, sample weight, % of sample with respect to Storage: 200 Samples.</p> <p>*Multiple Printing Mode: 0,1,2,3 modes for various formats. *</p> <p>External Calibration: Using preset weights. Known weights can be corrected to + 15 counts.</p> <p>*Response Time:Slow / Normal /Fast. Stability Band Width: Stability indicator appears on display with counts variation + 1, + 2, +-3, -4. Auto Zero Tracking: User selectable 0,1,2,3. Return to Zero tracking: Variable: 0,1,2,3,4.</p> <p>*Display Updation: Speed setting : Fast / Normal.</p> <p>Capacity: 230g, Readability: 0.001g, Repeatability:0.001g, Linearity (+):0.002g, Pan size 100mm.</p> <p>*The balance is supplied with Breeze shield & Internal motorized calibration as standard. Taring Range : Up to full capacity. Response time : 3-5 seconds. Power Req : 90-250V, 50/60Hz, 10 Watt.</p> <p>*Operating Temperature : 10 to 45 deg C.</p>	Environmental Science
13	Platinum Resistance Thermoemter	<p>*Length of fine platinum wire of about 2.8 ohms, resistanc ewound non inductively on a mica frame & soldered to stout copper leads. *</p> <p>*A pair of compensating leads are provided. All four leads being connected to terminals mounted on a suitably engraved insulating panel which is joined to the mica resistance frame by cork mount on to which is fitted a stainless tube. Since connections are soft soldered, this resistance thermometer is suitable for temp. work. Packed in velvet lined case.</p>	Environmental Science
14	Cuvette for Spectrophotometer(Quartz) Pair	Quartz, Quartz 10 ml and 50 ml	Environmental Science
15	Ion Exchange Resins	Two bed Deminerliser.TBD 100	Environmental Science

16	Stalagmeter:	Borocilicate glass a) Straight Type or b) Bend Type. SFT and IFT	Environmental Science
17	Desktop	PC/Core i5/8GB RAM/256GB SSD	Environmental Science
1	BACTERIOLOGICAL INCUBATOR-MEMMERT TYPE	<p>Size: 35cm x 35cm x 35cm No. of Shelves 2</p> <ul style="list-style-type: none"> • Triple walled in construction with Inner made of Stainless Steel – 304 Grade & Exterior of CRCA steel with powder coat finish. • Food grade Silicon Rubber gasket which acts as a perfect sealant. • A transparent full length Acrylic inner door is provided to have a clear inner view of the samples/specimens put in, without disturbing the Thermal Conditions inside the incubator. • Heating elements are made of high grade Nichrome wire and placed at the both sides. • Temperature controlled by Dual Display Microprocessor based PID Temperature Controller & PT- 100 sensor. • Air circulation by motorized blower placed on top of the incubator. • Available with removable S.S. Rod shelves. • Temperature Range: 5°C above ambient to 60°C. • Temperature Accuracy: $\pm 1^\circ\text{C}$ or better. • Temperature Uniformity : $\pm 1^\circ\text{C}$ or better. • Operates on 230 Volts AC Single phase 50 Hz. • Safety Feature: Capillary type Thermostat provided to take care of temperature overshoots & in case the PID Controlling system fails. 	Microbiology & Biotechnology

2	Hot Air Oven & Incubator	<ul style="list-style-type: none"> • Temp. Range RT+5-80°C • Drying oven: 80-300°C • Temp. Resolution Ration: 0.1°C • Temp. Motion:- +1 °C • Temp. uniformity: Incubator: +1°C Drying Oven +2.5 % • Inner Chamber: Mirror Stainless steel • Outer Shell: Cold rolling steel electrostatic spraying exterior Insulation layer compound silicate heat preservation board • LCD Temperature controller. • SSR to ensure safety. • 4 grades speed fan, adjustable for different requirements. • Independence temperature limiter. 	Microbiology & Biotechnology
3	Laboratory Binocular Microscope (Semi Plan)	<ul style="list-style-type: none"> • Standard microscope set complete with built-in 6V20W halogen light illuminator with regular power supply, quadruple ball bearing nosepiece, co-axial coarse and fine focusing controls, high resolution • Semi-Plan Achromat objectives 4x, 10x, 40x (spring) and 100x (spring, oil immersion), 360deg rotatable inclined binocular tube, fungus resistant optics for tropical use, widefield paired eyepiece HWF10x (F.N.18), right hand control co-axial low drive mechanical stage and rack & pinion focusable Abbe condenser 0.9/1.25 N.A with iris diaphragm complete set. 	Microbiology & Biotechnology
4	Digital Colorimeter	with 8 filter (1ml) , %T, ABS, 3 Digit LED Display	Microbiology

5	<p>Laminar Air Flow Cabinet MILD STEEL WITH MICROPROCESSOR CONTROL Working Area Size: 3' x 2' x 2'</p>	<p>Switches : Microprocessor based switches for blower. Fluorescent light and UV light with LCD back light display (UV light with timer) Pre-Filter: 99.00 % down to 5 micron HEPA Filter: ISO 14644 Class 5 (Class 100) 99.97 % - 99.99 % down to 0.3 micron Mesh guard for protection of HEPA Filter Air Flow : Frontward Horizontally Noise Level : 60 decibel ± 5 % Velocity : 0.35 – 0.50 m / sec Work Table : Made up of Stainless steel 304 gr. Cock for gas on work table. Side Panels : 6mm ± 5 mm thick acrylic sheet. Front door : Made of acrylic UV Lamp : 15/30 W make Philips Illumination: 20/40 Fluorescent tube with diffuser Pressure : Digital Manometer 0.50 mm range with filter failure alarm Power Supply : 230 V ± 10V /50 Hz single phase A.C. Cabinet : Made of mild steel duly powder coated Heavy Duty Blower : Dynamically balanced with 0.25 HP Electric Motor Mounted on anti vibration pad 1440 rpm motor</p>	&
6	<p>Autoclave Vertical</p>	<p>Capacity City 35 Litr. S.S. With Digital Temperature Controller cum Timer (99 minutes) Capacity City 35 Litr. S.S. With Digital Temperature Controller cum Timer (99 minutes) Capacity City 35 Litr. S.S. With Digital Temperature Controller cum Timer (99 minutes) Capacity City 35 Litr. S.S. With Digital Temperature Controller cum Timer (99 minutes)</p>	Biotechnology

7	Vertical Deep Freeze	<ul style="list-style-type: none"> • Capacity 250 Ltr. • Temp. Range -18°C • Power: 1300 W • No. of shelves: 8 • No. of door: 1 • Refrigrant: R134a 	Microbiology & Biotechnology
8	Double Door Fridge	<ul style="list-style-type: none"> • Product measurement (without box):- Width:- 61.5 cm , Height:- 167.6 cm, Depth:- 71.6 cm, Weight:- 57 kg. Capacity:- 308 lt, Star convertible frost free. • Display Type:- External UI touch panel, No. of Door Pocket (freeze compartment) :- 2, No of door pocket (fridge compartment) :- 4, Voltage range:- 160-300 V, Frequency (Hz):- 50 Hz 	Microbiology & Biotechnology
9	Distillation Apparatus with Silica heaters. Borosilicate Glass	<p>Output Distilled water Quality : 2.0 lit/hr Distillate quality : Pyrogen free Electrical Power : 220/240 V 50/60 Hz, 1 x 1500 watts silica Heater</p>	Microbiology & Biotechnology
10	Haemocytometer	<ul style="list-style-type: none"> • One counting chamber with double counting grid • 2 haemocytometer cover glasses with Thickness 0.4 mm. • Each 1 blood diluting pipette thoma red & white • 2 silicon tubing with approx.. 16 cm length Each one plastic adapter red and white 	Microbiology & Biotechnology
11	Haemocytometer	<ul style="list-style-type: none"> • Polyesterine support with 2 coloured rods and Opal glass plate • Comparator tube • Hemoglobin pipette 20 acc. To sahli • Silicone tubing of approx.. 1+6 cm length • White mouthpiece • Dropping pipette with rubber teat • Stirring rod • Acid vial • Cleaning brush 	Microbiology & Biotechnology

12	pH/mV/Conductivity/TDS/Salt/Temp Water Proof Meter (Water Proof IP 57)	<ul style="list-style-type: none"> • used to measure a wide range of pH, ORP, Conductivity, TDS, Salinity and Temperature with a replaceable electrode. • It has Large LCD to display pH or ORP or Conductivity or TDS or Salinity and Temperature simultaneously. It has Automatic Temperature Compensation (ATC) and is degree °C/°F switchable 	Microbiology & Biotechnology
13	Digital Balance	<ul style="list-style-type: none"> • Capacity: 220gm, • Accuracy: 0.001gm • LCD Display with White Back Light, Internal Calibration 	Microbiology & Biotechnology
14	Mini Centrifuge	<p>Rotor Capacity: 8 place closed rotor for 1.5/2.0ml microtubes Speed RPM / RCF (g): 6000/2000 g Digital Display: Yes Electronic Safety Brake: Yes Noise Level: ? 55 dB Power Supply: Universal (95 to 230V, 50/60Hz) Rubber suction pads: Yes Rotors and Adaptors: (included in standard pack) 8 Slot x 1.5/2.0ml Closed Rotor PCR Strip Rotor (2 x 8 x 0.2 ml) Reduction Adaptors for 0.2 / 0.4 ml microtubes</p>	Microbiology & Biotechnology
15	Clevenger Assembly	<ul style="list-style-type: none"> • 1000ml Flask with Heating Mantel, • Clamp, Boss Head & Stand 	Microbiology & Biotechnology
16	UV Transilluminator	<ul style="list-style-type: none"> • Size: 20 x 14 cm, • No. of Tubes 4 Nos. x 8 Watts, • Wavelength, 365nm 	Microbiology & Biotechnology
17	Anaerobic Culture Jar	<ul style="list-style-type: none"> • (with Lid having Vacuum Cum Pressure Gauge etc.) • Plain Lid + • Accessories Like: Test Tube Stand, Petri Dish Stand. 	Microbiology & Biotechnology

18	Infrared Thermometer	<ul style="list-style-type: none"> • Measuring Distance:- 1-5 cm • Accuracy:- +- 0.2 C • Measurement time:- 0.5 seconds • Batter:- R03AAA1.5V*2 • Specification:- 117*50*185 cm • Weight:- 100 g • Memory Group:- 32 groups • Human body model:- 32-42.9°C • Object Mode:- 0-60°C • Measuring Distance:- 1-5 cm • Accuracy:- +- 0.2 C • Measurement time:- 0.5 seconds • Batter:- R03AAA1.5V*2 • Specification:- 117*50*185 cm • Weight:- 100 g • Memory Group:- 32 groups • Human body model:- 32-42.9°C • Object Mode:- 0-60°C 	Microbiology & Biotechnology												
19	Electrolyte (Na/K/Cl/Ca) analyzer	<ul style="list-style-type: none"> • Capable of measuring Sodium, Potassium, Chloride from Whole Blood, Serum, Plasma, Aqueous or Urine using ISE principal • Instrument measure following parameters directly: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Parameter</th> <th>WB/Serum/ Plasma</th> <th>Urine</th> </tr> </thead> <tbody> <tr> <td>Na</td> <td>20-200 mmol/L</td> <td>25-100 mmol/L</td> </tr> <tr> <td>K</td> <td>02.40 mmol/L</td> <td>1.5-500 mmol/L</td> </tr> <tr> <td>Cl</td> <td>25-200 mmol/L</td> <td>25-500 mmol/L</td> </tr> </tbody> </table> • Minimum aspiration volume is more than 100 µl for Whole Blood, Serum/Plasma, Aqueous & 300 µl for Urine. • Option to run low volume sample without using Capillary • Analysis time is not be more than 45 seconds • CE Certified/ USFDA approved • Easy to upgrade or downgrade in future by adding/ removing electrodes, without changing the system • Minimum number of 2 Point Calibration automated or on demand • Capable to store results of min. 2000 data including Patient Results & QC Results • Display L-J Graph • User friendly with simple user interface • Single disposable Cartridge module containing all required reagents and waste • Minimum number of consumables • Inbuilt thermal printer • RS232/LAN port for interfacing to external device • USB Port for attaching External Keyboard & Mouse • Compatible with barcode scanner • Manage inventory online 	Parameter	WB/Serum/ Plasma	Urine	Na	20-200 mmol/L	25-100 mmol/L	K	02.40 mmol/L	1.5-500 mmol/L	Cl	25-200 mmol/L	25-500 mmol/L	Microbiology & Biotechnology
Parameter	WB/Serum/ Plasma	Urine													
Na	20-200 mmol/L	25-100 mmol/L													
K	02.40 mmol/L	1.5-500 mmol/L													
Cl	25-200 mmol/L	25-500 mmol/L													

20	Micropipette: 0.5~10µl	<ul style="list-style-type: none"> • Soft touch tip ejection • Non-slippery firm grip • A handy volume setting dial for single handed operation • Fully autoclavable • Volume range: 0.5~10µl 	Microbiology & Biotechnology
21	Micropipette: 5~50µl	<ul style="list-style-type: none"> • Soft touch tip ejection • Non-slippery firm grip • A handy volume setting dial for single handed operation • Fully autoclavable • Volume range: 5~50µl 	Microbiology & Biotechnology
22	Micropipette: 2~20µl	<ul style="list-style-type: none"> • Soft touch tip ejection • Non-slippery firm grip • A handy volume setting dial for single handed operation • Fully autoclavable • Volume range: 2~20µl 	Microbiology & Biotechnology
23	Micropipette: 20~200µl	<ul style="list-style-type: none"> • Soft touch tip ejection • Non-slippery firm grip • A handy volume setting dial for single handed operation • Fully autoclavable • Volume range: 20~200µl 	Microbiology & Biotechnology
24	Micropipette: 200~1000µl	<ul style="list-style-type: none"> • Soft touch tip ejection • Non-slippery firm grip • A handy volume setting dial for single handed operation • Fully autoclavable • Volume range: 200~1000µl 	Microbiology & Biotechnology
25	Micropipette Tips: 0.5~10µl Pack of 1000	<ul style="list-style-type: none"> • Nuclease free, transparent, pyrogen free, autoclavable • Volume Capacity: 0.5~10µl • Approximate Inner Diameter: 3.5 mm • Colour: Neutral 	Microbiology & Biotechnology
26	Micropipette Tips: 200µl Pack of 1000	<ul style="list-style-type: none"> • Nuclease free, transparent, pyrogen free, autoclavable • Volume Capacity: 200µl • Approximate Inner Diameter: 5.3 mm • Colour: Yellow 	Microbiology & Biotechnology
27	Micropipette Tips: 1000µl Pack of 1000	<ul style="list-style-type: none"> • Nuclease free, transparent, pyrogen free, autoclavable • Volume Capacity: 1000µl • Approximate Inner Diameter: 7.5 mm • Colour: Blue 	Microbiology & Biotechnology

28	Compound Monocular Microscope ISI Mark IS:4381/1967	<ul style="list-style-type: none"> • Eye pieces : WF 10x (18mm Paired) • Parafoal Achromtic objectives, • 4x, 10x, 40x & 100x (Oil Immr) • Stage: 120 x 125mm • Illumination: 6V, 50w Halogen Lamp. 	Microbiology & Biotechnology
29	Heating Mantle Capacity: 1000ml	<ul style="list-style-type: none"> • Made of Knitted glass yan • Provides uniform heating of flasks upto 400 °C • Capacity: 2000 ml • Power rating: 450 kw 	Microbiology & Biotechnology
30	Agarose Gel Electrophoresis System (Horizontal) with Power Pack Digital with timer	<p>Principal Material : Acrylic Inner tank dimension : 190 x 80 x 55 mm No. of trays : 100 x 70 mm - 1 No. 50 x 70 mm - 2 Nos. No. of combs : 8 Well Analytical Acrylic Comb 1.5 mm thick x 2 Nos. 3 Well Preparative Acrylic Comb 3 mm thick - 1 No. No. of gel casting tray : 1 universal. Connecting Cord : red and black (1 each). No. of Platinum electrodes : red and black (1 each). Lid : 1 No. With Power Pack Digital PS100 Output DC Voltage : 50,100,150,200,250V Output current : Maximum 100 mA Display : LED Indicator Output : One, 4 mm socket Body : MS with powder coated body.</p>	Microbiology & Biotechnology
31	Inoculation Needle (Metal loop)	<ul style="list-style-type: none"> • MetalLoop SS-2. • Fixed nichrome loop embedded in stainless steel (SS) rod with heat resistant handle, • Size:- 2.2 mm • diameter, calibrated to 0.005 ml. 	Microbiology & Biotechnology
32	Digital Blood Pressure Monitor	<ul style="list-style-type: none"> • Adaptor included with 360 accuracy and wrap cull for all arm sizes. 	Microbiology & Biotechnology

33	Stethoscope	<ul style="list-style-type: none"> • Comprehensive Length and Diameter: With an overall length of 69 cm and a small diaphragm diameter of 3.3 cm, this stethoscope is designed for comprehensive and precise patient assessments. • Extra Eartips: The inclusion of extra eartips adds convenience and flexibility, allowing practitioners to customize the stethoscope for their individual preferences. 	Microbiology & Biotechnology
34	Glucometer	<ul style="list-style-type: none"> • Test range:- 20-600,mg/dl • Sample Size:- 0.5 µl capillary whole blood • Test Time:- 5 seconds • Memory :- Stores 300 Results • Hematocrit Range:- 35.50 % • Power:- 3V Lithium Battery (CR2032) • Weight: - 45g Including Battery • Storage condition:- 39.2-88 F • Operating Condition:- 50-104 F 	Microbiology & Biotechnology
35	Oximeter	<ul style="list-style-type: none"> • Weight:- 20-30 g • Display type:- Digital • SPO2 Measurement Range:- 60%-100% • Oxygen Saturation Range:- 30-100 % 	Microbiology & Biotechnology

36	Agarose Gel Electrophoresis System (Vertical) with Power Pack Digital with timer.	<p>Gel Size : 8 x 7 cm, Principal Material : Acrylic Upper Buffer Tank Dimension : 70 x 60 x 40 mm Lower Buffer Tank Dimension : 130 x 60 x 50 mm No. of Combs : 7 Well Teflon Comb 0.5 mm-1 No. 7 Well Teflon Comb 1 mm-1 No. 7 Well Teflon Comb 1.5 mm-1 No. Teflon Spacers : 0.5 mm Teflon Spacers 2 Nos. 1 mm Teflon Spacers 2 Nos. 1.5 mm Teflon Spacers 2 Nos. Connecting Cord : red and black (1 each). No. of Platinum electrodes : red and black (1 each). Lid : 1 No. Leveling screws : 3 Nos. Glass plate : Notched and Rectangular 2 sets. Gasket : Fixed Clamp and screws : 1 set. With Power Pack Digital PS100 Output DC Voltage : 50,100,150,200,250V Output current : Maximum 100 mA Display : LED Indicator Output : One, 4 mm socket Body : MS with powder coated body.</p>	Microbiology & Biotechnology
1	Incubator	<ul style="list-style-type: none"> • Capacity : 43 Liter • Inner dimension 350 x 350 x 350mm with 2 Shelves • Heater Power 250 W • Temperature Range ambient + 5°c to 60°c • Accuracy ± 2°c • PID Control with timer • Inside SS and outside MS epoxy coated for abrasion resistance and durable finish • SS 304 wire mesh trays • Concealed SS handle and positive latch system • Stainless steel tubular heater for safe operations 	Zoology

2	Hot Air Oven	<ul style="list-style-type: none"> • Capacity : 43 Liter • Inner dimension 350 x 350 x 350mm with 2 Shelves • Heater Power 1 KW • Temperature Range : 50°c to 200°c • Accuracy ± 2°c • PID Control with timer • Inside SS and outside MS epoxy coated for abrasion resistance and durable finish • SS 304 wire mesh trays • Concealed SS handle and positive latch system • Stainless steel tubular heater for safe operations 	Zoology
3	Tissue Homogenizer (24 wells)	<p>Bead Size: Uses all common grinding bead tubes and lysing matrices Format: Single tubes no cross contamination Power: Universal 100-230 VAC/ 50-60 Hz Throughput: Up to 24 samples per run Special Feature: FCC Part 15 and CE compliance certified Tube Size: Standard 2 ml tubes Product Description</p> <ul style="list-style-type: none"> • For complete lysis and homogenization of any biological sample • Process 24 samples at a time in 2 ml tubes • Quick homogenization in as little as 30 seconds • Optimized to homogenize tough samples with numerous mixing speeds and cycle time intervals • Can be combined for use with DNA and RNA extraction kits 	Zoology
4	Centrifuge Mini(6000 rpm)	<p>Rotor Capacity: 8 place closed rotor for 1.5/2.0ml microtubes Speed RPM / RCF (g): 6000/2000 g Digital Display: Yes Electronic Safety Brake: Yes Noise Level: ≤ 55 dB Power Supply: Universal (95 to 230V, 50/60Hz) Rubber suction pads: Yes Rotors and Adaptors: (included in standard pack) 8 Slot x 1.5/2.0ml Closed Rotor PCR Strip Rotor (2 x 8 x 0.2 ml) Reduction Adaptors for 0.2 / 0.4 ml microtubes</p>	Zoology

5	Centrifuge cooling (16000 rpm) with 1.5 ml tube head	<ul style="list-style-type: none"> • Stable speed output • High Speed • Max. 16000 rpm • Max. Rcf 16600g • Wide variety of rotors & reduction adaptors • Precise temperature control up to – 8°C • Pre-cooling feature • Fast spin feature • Calibration window on lid for speed (rpm) • Brushless Induction motor with variable frequency drive ensures gentle start • Microprocessor based unit with alpha numeric LCD display • Self-diagnosis of errors • Parameters setting through easy to use bi-directional encoder • Inverter fault detection with auto shutdown • CFC free refrigeration system • 24 programme memory • 3 Accelerations, 4 Deceleration profiles • Choice of rpm / rcf setting & display • Operating panel with feather touch keys • Digital countdown timer 0-99 minutes & continuous run • Last set parameters recall (Useful for repetitive analysis) • Automatic Rotor identification • Safety lid interlock to prevent lid opening during centrifugation • Imbalance detection & centrifugation stop with display of error • Motor overload protection • Gas hinge to prevent falling of door • Emergency lid lock release 	Zoology
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6	Laminar Airflow	<p>MILD STEEL WITH MICROPROCESSOR CONTROL Working Area Size: 2' x 2' x 2' Switches : Microprocessor based switches for blower. Fluorescent light and UV light with LCD back light display (UV light with timer) Pre-Filter : 99.00 % down to 5 micron HEPA Filter : ISO 14644 Class 5 (Class 100) 99.97 % - 99.99 % down to 0.3 micron Mesh guard for protection of HEPA Filter Air Flow : Frontward Horizontally Noise Level : 60 decibel \pm 5 % Velocity : 0.35 – 0.50 m / sec Work Table : Made up of Stainless steel 304 gr. Cock for gas on work table. Side Panels : 6mm \pm 5 mm thick acrylic sheet. Front door : Made of acrylic UV Lamp : 15/30 W make Philips Illumination : 20/40 Fluorescent tube with diffuser Pressure : Digital Manometer 0.50 mm range with filter failure alarm Power Supply : 230 V \pm 10V /50 Hz single phase A.C. Cabinet : Made of mild steel duly powder coated Heavy Duty Blower : Dynamically balanced with 0.25 HP Electric Motor Mounted on anti vibration pad 1440 rpm motor</p>	Zoology
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7	Autoclave vertical	<ul style="list-style-type: none"> • Size : 300 X 500 mm Capacity : 35 Liters • Preset (at 121°C) Digital Temperature indicator cum controller linked to a preset • (20 min) timer. • Low water level cut off • End of cycle buzzer • Fitted with a safety valve for added safety • Fitted with convenient Handy-Raise for Lid lifting. • Supplied with traceable certificate for pressure gauge and temperature indicator. • Inside and outside chamber are fully stainless steel • Hydraulically die pressed lid from stainless steel plate • Flange, fly screw, cross pin, heater cover stand are also fully stainless steel. • All internal joints argon welded, ground and polished to give crevice free internals • Pt-100 sensor for precise control and monitoring • Industrial grade energy efficient ring type heater, custom made for autoclaves, thus reducing power bills by 16 to 40% • Lid is fitted with pressure gauge, safety valve/safety fusible plug, manual exhaust • valve & vacuum breaker cum purge valve • Molded rubber gasket. • Drain valve on side at bottom for easy cleaning • With Stainless steel wire mesh carrier and spare gasket #7421 <p>PAD</p>	Zoology
8	Double door Freez	265 L Frost Free Double Door 2 Star Refrigerator with Glass Door (Crystal Black, Neo 278GD PRM Crystal Black (2S)-N)	Zoology
9	Inoculation needle	Inoculating Loops, calibrated - loop diam. x L 10 µL x 70 mm	Zoology
10	Distillation Plant (Double)	<p>Borosilicate Glass</p> <p>Output Distilled water Quality : 2.0 lit/hr</p> <p>Conductivity : 0.8 uS/com</p> <p>Distillate quality : Pyrogen free</p> <p>Electrical Power : 220/240 V 50/60 Hz, 2 x 1500 watts silica Heater</p>	Zoology
11	Digital B.P.Appratus	Fully Automatic Digital Blood Pressure Monitor With Intellisense Technology For Most Accurate Measurement - Arm Circumference (22-32Cm)	Zoology

12	Stethoscope	<ul style="list-style-type: none"> • Unsurpassed acoustic sensitivity • 5 in 1 Multipurpose • Interchangeable chestpiece – adult & child diaphragm • Interchangeable chestpiece – 3 bells (1 1/4", 1", 3/4") • Proprietary valve mechanism design • Double tube configuration <p>Accessories:</p> <ul style="list-style-type: none"> • 3 Bells • 2 Diaphragms • Ear tips 	Zoology
13	Haemocytometer (Neubaur slide)	<p>Neubaur Slide (Imported) Complete set in a plastic case consisting of:</p> <ul style="list-style-type: none"> • 1 counting chamber with double counting grid • 2 haemocytometer cover glasses with thickness 0.4 mm • each 1 blood diluting pipette Thoma red and white • 2 silicone tubings with approx. 16 cm length • each 1 plastic adapter red and white 	Zoology

14	Automated Hematology Analyser	<p>Fully automated compact 6-part differential hematology analyzer. Single sample analysis in open mode. It has a fully integrated IPU (information-processing unit) including an LCD colour touchscreen that makes it easy to operate.</p> <p>Compact 6-part differential haematology analyser</p> <ul style="list-style-type: none"> • Throughput of 60 samples per hour • Single sample analysis in open mode • Fully integrated IPU including LCD colour touchscreen • Only 25 µL aspiration volume in whole blood mode • Best-in-class diagnostics tailored to small and mid-sized laboratories <p>Throughput CBC: up to 60 samples/hour CBC + DIFF: up to 60 samples/hour Aspiration volume 25 µL in WB, 70 µL in PD</p> <p>Analysis parameters Whole Blood WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, RDW-SD, RDW-CV, PDW, MPV, P-LCR, PCT, NEUT#, LYMPH#, MONO#, EO#, BASO#, NEUT%, LYMPH%, MONO%, EO%, BASO%, IG#, IG%</p> <p>Measurement principles WBC DIFF/RET: Fluorescence Flow Cytometry WBC: Flow Cytometry</p> <p>RBC/PLT: DC Impedance method with hydrodynamic focusing HGB: Cyanide-free SLS method</p> <p>Data storage capacities Results: 100,000 samples Patient information: 10,000 records Calibration history: 20 times/ module QC files: 99 files including XbarM QC plots: 300 plots / file User maintenance Daily shutdown Weekly cleaning sequence with Cellclean or Cellclean Auto</p>	Zoology
15	Haemometer	<p>Complete set consisting of:</p> <ul style="list-style-type: none"> • polystyrene support with 2 coloured rods and opal glass plate • comparator tube • haemoglobin pipette 20 µl acc. to Sahli • silicone tubing of approx. 16 cm length • white mouthpiece • dropping pipette with rubber teat • stirring rod • acid vial • cleaning brush • directions for use 	Zoology

16	Microtome Rotary (Semi-automated)	<p>Most suitable for disposable blade attachment SPECIAL FEATURES : Surface grinding on base, horizontal, vertical and inclined slide for smooth and accurate motion. Ratchet wheel, CAM and CAM weight are made of GUN METAL. Axel and catcher made from special steel made on Imported machine. TECHNICAL SPECIFICATIONS: Feed adjustment - 1-50 microns (in steps of 1 micron each) Opening of object Clamp 37x27 mm(Ball and Flange type) Total feed excursion 28mm STANDARD ACCESSORIES: RAZOR 120MM WITH BACK & HANDLE IN CASE ONE OBJECT HOLDERS DIA 22,25,28 MM THREE DUST COVER, INSTRUCTION MANUAL & OIL CANE ONE Other Description mentioned in e-brochure.</p>	Zoology
17	Weighing digital Balance	<p>Capacity : 220gm Accuracy : 0.001g Calibration : External Pan Size : 90mm Readability : 0.001gm Display : LCD</p>	Zoology

18	Agarose Electrophoresis along with power pack(Horizontal)	<p>Digital with timer. Gel Size : 8 x 7 cm, Principal Material : Acrylic Upper Buffer Tank Dimension : 70 x 60 x 40 mm Lower Buffer Tank Dimension : 130 x 60 x 50 mm No. of Combs : 7 Well Teflon Comb 0.5 mm-1 No. 7 Well Teflon Comb 1 mm-1 No. 7 Well Teflon Comb 1.5 mm-1 No. Teflon Spacers : 0.5 mm Teflon Spacers 2 Nos. 1 mm Teflon Spacers 2 Nos. 1.5 mm Teflon Spacers 2 Nos. Connecting Cord : red and black (1 each). No. of Platinum electrodes : red and black (1 each). Lid : 1 No. Leveling screws : 3 Nos. Glass plate : Notched and Rectangular 2 sets. Gasket : Fixed Clamp and screws : 1 set. With Power Pack Digital PS100 Output DC Voltage : 50,100,150,200,250V Output current : Maximum 100 mA Display : LED Indicator Output : One, 4 mm socket Body : MS with powder coated body.</p>	Zoology
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19	Agarose Electrophoresis along with power pack(Vertical)	<p>Digital with timer. Gel Size : 8 x 7 cm, Principal Material : Acrylic Upper Buffer Tank Dimension : 70 x 60 x 40 mm Lower Buffer Tank Dimension : 130 x 60 x 50 mm No. of Combs : 7 Well Teflon Comb 0.5 mm-1 No. 7 Well Teflon Comb 1 mm-1 No. 7 Well Teflon Comb 1.5 mm-1 No. Teflon Spacers : 0.5 mm Teflon Spacers 2 Nos. 1 mm Teflon Spacers 2 Nos. 1.5 mm Teflon Spacers 2 Nos. Connecting Cord : red and black (1 each). No. of Platinum electrodes : red and black (1 each). Lid : 1 No. Leveling screws : 3 Nos. Glass plate : Notched and Rectangular 2 sets. Gasket : Fixed Clamp and screws : 1 set. With Power Pack Digital PS100 Output DC Voltage : 50,100,150,200,250V Output current : Maximum 100 mA Display : LED Indicator Output : One, 4 mm socket Body : MS with powder coated body.</p>	Zoology
20	Transilluminator	UV Transilluminator with filter 20 cm x 20 cm (For detection of more than 200 ng of DNA)	Zoology
21	Phylogenetics software	Ances Tree	Zoology
22	Micropipette 0.5 – 10 μ	Variable Volume Pipettes Finnpipette F2 Range : 0.5 to 5 μ L Fully Autoclaveble	Zoology
23	Micropipette 10 – 100 μ	Variable Volume Pipettes Finnpipette F2 Range : 10 to 100 μ L Fully Autoclaveble	Zoology
24	Micropipette 20 – 200 μ	Variable Volume Pipettes Finnpipette F2 Range : 20 to 200 μ L Fully Autoclaveble	Zoology

25	Micropipette 100 – 1000 μ	Variable Volume Pipettes Finnpipette F2 Range : 100 to 1000 μ L Fully Autoclaveble	Zoology
26	Micropipette 1000 – 5000 μ	Variable Volume Pipettes Finnpipette F2 Range : 1000 to 5000 μ L Fully Autoclaveble	Zoology
27	Micropipette Tips Range 0.5-10 μ L / 10 x 96/rack	94410040	Zoology
28	Micropipette Tips Range 10-300 μ L / 10 x 96/rack	94410513	Zoology
29	Micropipette Tips Range 2-200 μ L / 10 x 96/rack	94410310	Zoology
30	Micropipette Tips Range 30-1000 μ L/ 8 x 96/rack	94410710	Zoology
31	Micropipette Tips Range 30-1000 μ L/ 8 x 96/rack	94410710	Zoology
32	Simple dissecting Microscope with power pack	(LED with Battery Back-up) Dual Step Stereo Microscope with pillar stand for adjustable focusable working distance including transmitted & reflected LED light illumination with battery back-up, 95 mm glass plate, Black & White stage plate with clips, 360° rotatable Rack & pinion focus drive, dual step turret objective of 2x (81 mm) / 4x (58 mm) for magnification of 20x or 40x with paired widefield eyepiece 10x/ 20 mm, Microscope body with built in 45° binocular observation tube with IPD of 55-75 mm, +/- 5 mm adjustable diopter, dust cover complete set. FM 24 Mag Stereo	Zoology

33	Trinocular Digital Reserch Microscope	<p>With built-in LED illumination with universal SMPS power supply for mains supply 100V~240V, quadruple ball bearing inward nosepiece, co-axial coarse and fine focusing control, high resolution Infinity, Corrected Super Plan Achromatic Objectives 4x, 10x, 40x (spring), 100x oil (spring),360deg rotatable inclined Siedentopf Trinocular ob servation tube, fungus resistant coated optics for tropical conditions, widefield paired eyepiece WH10x (F.N.20), right hand control co-axial low drive mechanical stage, rack & pinion drive focusable Abbe condenser 0.9/ 1.25 N.A with iris diaphragm and with blue Filter.</p> <p>Features : Plan Infinity Optics, Excellent Field Flatness, F.N.20, Siedentopf Head, hard coated stage with double slide holder, Easily replaceable lamp, Inward facing nosepiece, upper focus limit stopper to prevent accidental damage to objectives, Universal Power supply ensures constant voltage & International standard Quality manufacture.</p> <p>MLXi-TR Plus LED</p>	Zoology
34	Trinocular Research Microscope with Camera capture Unit	<p>Complete with Digital Camera MagCam DC-5 (with 1.0x TR adapter)</p> <p>With built-in LED illumination with universal SMPS power supply for mains supply 100V~240V, quadruple ball bearing inward nosepiece, co-axial coarse and fine focusing control, high resolution Infinity, Corrected Super Plan Achromatic Objectives 4x, 10x, 40x (spring), 100x oil (spring),360deg rotatable inclined Siedentopf Trinocular observation tube, fungus resistant coated optics for tropical conditions, widefield paired eyepiece WH10x (F.N.20), right hand control co-axial low drive mechanical stage, rack & pinion drive focusable Abbe condenser 0.9/ 1.25 N.A with iris diaphragm and with blue Filter.</p> <p>Features : Plan Infinity Optics, Excellent Field Flatness, F.N.20, Siedentopf Head, hard coated stage with double slide holder, Easily replaceable lamp, Inward facing nosepiece, upper focus limit stopper to prevent accidental damage to objectives, Universal Power supply ensures constant voltage & International standard Quality manufacture.</p> <p>MLXi-TR Plus LED</p>	Zoology
1	Potentiostat	<p>KLyte 1.2 with customized software Linear Sweep Voltammetry, Cyclic Voltammetry, Chronoamperometry, Pulsed Voltammetry Methods, OCP Measurement, Tafel Analysis, Linear Polarization. -10 V to +10 V voltage range, Voltage Resolution upto 150 μV, Compliance Voltage upto +-15V, Variable current range selection upto 100 mA, Variable scan rate selection from 1 μV/s to 1000 mV/s, Current resolution upto 15 pA, USB interface communication</p>	Chemistry

2	Microwave Oven, 32L Convection Microwave Oven	32 L LG MC3286BRUM Convection Microwave Oven, 2400 Watt, Stainless Steel, Tact Dial, Dimension 530*322*533, Grill Power consumption 1250W,	Chemistry
3	Digital Melting Point Apparatus	Microprocessor melting point apparatus, S9750, Temp. Range- ambient 350, Resolution- 01degree celsius, Temp. Sensor- Grade A PT-100, Platinum Sensor, Miniature Furnace with selectable Ramp rate of heating, Microprocessor control, Instrument has audio and visual indicator on reaching the temp. at which the sample melts	Chemistry
4	Distillation Apparatus 4 Lit / Hr (Borosil)	PDU 310360, engineering plastic, stainless steel interior, 1.5 ltr Capacity, In built in fan cooling system for condensation	Chemistry
5	Microscale Analysis Kit		Chemistry
6	Analytical Digital Balance- Model Fien	Maximum Capacity- 220 gm, Minimum Capacity - 01.mg	Chemistry
7	Hot Air Oven Dual Mode- Model Twin	Item Code- BE/CI/MI-02, LED digital Display, With Oven/ incubator change switch and fan switch, Horizontal Air circularly by double air duct	Chemistry
8	Digital PH Meter	Item Code- BE/PHTT/03, Attractive design made of plastic, Three parameter measurement pH, mV and Temp, pH range : 0.00-14.00	Chemistry
9	Abbe's Refractometer	Touchscreen display, Range 1.30000~1.72000 5 digit decimal point precision Temperature Range -20°C to + 120°C Measurement range dissolved solids Brix: 0-100% Accuracy refractive index nD: ± 0.00002 Accuracy Dissolved Solids Brix: ± 0.1% Display: Color Touch Screen Interface: RS232C Power Supply AC 220V, 50/60 Hz.	Chemistry
10	Vacuum Pump	Max. Power: 60 W Max. Current: 0.3 A Max. Vacuum: 670 mmHg Max. Flow Rate: 18 l/min Motor Rotation: 1450 rpm Horse Power: 1/8 HP Noise Level: 50 dB Port Thread: 5/16 inch (8 mm) Power Supply: 220 V, 50 Hz	Chemistry
11	Beckmann Thermometer	Total Length 60 cm, Division of main Scale- 0.01k, Division of Auxiliary Scale 5 degree celsius, Grinding- NS 19/26	Chemistry
12	Chromatographic chamber	Cabinet size : 60x30x60 cm. approx for 4 filter papers of 46x57 cm. Size Ascending or Descending, made of teak wood and glass construction. It can accommodate two (troughs) and six glass rods	Chemistry

13	Digital Colorimeter	Microprocessor Based Square APH Test Tube Having Low Volume (2.5mL). Dual Display. 3 digits for O.D. & 3 digits for wavelength. 10 Inbuilt Digital Filters. Reads OD & %T. Feather Touch Switches. Accessories (set of 5 matched cuvettes)	Chemistry
14	Digital Conductivity Meter	AUTOMATIC TEMPERATURE COMPENSATION. Microprocessor Based With Inbuilt STD Conductance and Alpha (α) selection from 0 to 3. Conductivity Range From 0.001us To 200ms. Accessories (UNBREAKABLE Cell, Rod, Clip & Screw Driver). DIP & READ	Chemistry
15	Digital Turbidimeter	WITH 6 POINT CALIBRATION AND AUTO CURVE FITTING Microprocessor based table top model. 3 ranges: 0-20.00, 0-200.0, 0-2000 NTU. 20*4 LCD display. 6 point calibration with Auto curve fitting. Facility for Single Point Recalibration Printer facility & PC compatibility	Chemistry
16	Digital DO meter	Microprocessor based. 4 Digit LED Display with Temperature compensation. Range: 0-20 ppm. 0.1 ppm accuracy. Accessories DO Probe, Extra membrane caps, Aerator, magnet, Rod, Clip & Screw Driver)	Chemistry

17	Photo catalytic Reactor Silica Scientific work	<p>Photocatalytic Reactor System Full Setup</p> <p>Photocatalytic Reactor with quartz immersion well Capacity – 500 ml (Triple Jacketed Reactor with Outer Jacket Made of Borosilicate Glass with 3 Ports for Solution Pouring, Temperature Measurement, Sample Collection with Traded Carbon Filled Teflon Joint)</p> <p>Lamp 250 Watts Medium Pressure (UV Spectrum 200-400nm)</p> <p>Lamp Specially manufacture for photoreaction (Medium/High pressure mercury lamp) WARRANTY – 3 months warranty from the date of purchase (1time replacement during warranty period)</p> <p>Lamp 250 Watts High Pressure (Vis Spectrum 400-650nm)</p> <p>Lamp Specially manufacture for photoreaction (Medium/High pressure mercury lamp) WARRANTY – 3 months warranty from the date of purchase (1time replacement during warranty period)</p> <p>UV / Visible Lamp Power Supply 250 W</p> <ul style="list-style-type: none"> • 3 Pin Power Cable • Digital Voltage Meter • LED Indication System • Fused for Safety <p>Digital Magnetic Stirrer With Timer Stirring Speed - 200-2200 rpm (Maximum timer range – 999 minutes)</p> <p>Outer Metal Shell (Safety Cabinet)</p> <ul style="list-style-type: none"> • Safety Cabinet • Digital temperature display (@ four sample point which is Reaction temperature, Cabinet chamber temperature, Water inlet and outlet temperature) • Digital Volt meter • Clamp based in-build reactor Holding Stand • Cooling Exhaust Fan • LED panel Lamp for cabinet (Automatic Switching) • Automatic UV light or Rays protection system • UV light protected Goggles • Automatic on/off UV Lamp Timer (Max capacity of timer is 9999 minutes) • Inbuilt 2 Electrical Connection (5 Amps ports) • Silicon tubing (ID 10mm , OD 14mm) for water inlet and outlet. • Safety LED's indication system <p>Mini Chiller Tank (Manual) For Water Circulation with Pump, SMPS and ASS. Complete as above</p>	Chemistry
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1	Electricity lab experiments set up	Technical Specifications: DC Power Supply : 5V, 200mA AC Power Supply : 6V, 1A Relay : 5V Galvanometer : 30 - 0 - 30 Galvanometer Resistance : 80W Light Bulbs : 6V Potentiometers : 25W, 1W, 10kW, 1W Switch : 1 Pole, 2 Way Toggle type Core Types : E, I, U Coils: 200, 400, 800, 1600, 3200 turns.	Physics
2	Varification of Coulomb's Law set up	Technical Specifications: Magnets Quantity : 2 Nos. Length : 4cm Type : Neodymium Balancing : By IR detection Scale : 0 - 14cm Adaptor Output : 6V DC, 500mA Mains Supply : 230V \pm 10%, 50Hz Dimensions (mm) : L 360 x B 255	Physics
3	Moment of inertia table set up	Technical Specifications: Torsional Pendulum Bridge Type, consists of an aluminum disc 25 cm diameter, another disc of iron C.P. having same diameter as the interior of the grooved area of the bigger disc (the small disc has approx. 8 cm dia and 1.25 cm thickness) A tall U shaped metal bridge with split chuck, fitted into disc enable accurate suspension and torsion. An article of irregular dimensions as large as brick can also be inserted in the U shaped suspension. Supplied with wall bracket.	Physics
4	Varification of Boyle's law set up	Technical Specifications: Pressure Gauge : 0-2.1kg/cm ² Syringe : 0-50ml Dimensions (mm) : W 265 x D 175 x H 70	Physics

5	Ballistic Galvanometer set up	<p>Technical Specifications: Ballistic Galvanometer</p> <p>Suspension Wire : Phosphor Bronze</p> <p>Reflector : Concave Mirror</p> <p>Coil Resistance : 100Ω</p> <p>Lamp & Scale</p> <p>Lamp : Laser Light Source</p> <p>Scale : 30-0-30cm</p> <p>Ballistic Galvanometer Power Supply</p> <p>Supply Voltage : 6V DC</p> <p>Potentiometer : 5k</p> <p>Mains Supply : 90-275V, 50Hz</p> <p>Fuse : 0.5A</p>	Physics
6	Electrical safety experiment set up	<p>Technical Specifications: Designed, considering all safety standards. Exclusive design and attractive presentation of each block.</p> <p>This trainer represents many essential safety precautions.</p> <p>Unique demonstration & importance of Earthing.</p> <p>Real time appearance of MCB to help the students to understand its mechanical arrangement.</p> <p>Demonstration of Fuse in very easy way.</p> <p>Provided with a manual containing coloured graphical representation of many safety standards and with very interesting activities which are to be performed by students.</p>	Physics
7	J by Callender Barn method apparatus	<p>Technical Specifications: The apparatus consists of a horizontal corning glass tube open at both ends. The heating element is a coil about 40 cm long of Ni-chrome wire and is wound spirally inside the axis of the glass tube. The complete apparatus is mounted on a polished wooden base board.</p>	Physics

8	Measurement of Dependence of Hall coefficient on temperature set up	Technical Specifications: Hall Effect Setup, Model: DHE-22 Hall Probe (Ge : p-type) with a small oven and a Thermocouple Hall Probe Multipurpose Stand, HPS Electromagnet, Model EMU-50V Constant Current Power Supply, DPS-50 Digital Gaussmeter, DGM-102	Physics
9	Newton's Rings Apparatus	Technical Specifications: Lens Type : Plano - convex Focal Length : 100cm/200cm Diameter : 6cm Newton's Ring Microscope Magnification : 10x Weight (kg) : 5.7 (approximate) Horizontal Movement Limit : 9cm Least Count of Circular Scale : 0.001cm	Physics
10	Electronic Plug In components, bread board and power supply	Electronic Plug in Kit with 4mm plug in sockets and components (SK023) SEC02 ADC Module 1 SEB11 AND Gate Module 1 CB530 AND Gate Module (Single Gate) 2 SEB12 BRIDGE Rectifier Module 1 SEB71 Capacitor Module 0.001 μ F 2 SEB14 Capacitor Module 0.01 μ F 3 SEC03 Capacitor Module 0.022 μ F 2 SEB72 Capacitor Module 0.047 μ F 2 SEB15 Capacitor Module 0.1 μ F 3 SEB16 Capacitor Module 0.47 μ F 3 SEB73 Capacitor Module 10 μ F 3 SEB74 Capacitor Module 100 μ F 1 SEB17 Capacitor Module 1000 μ F 1 SEC05 Choke Module 1 SEB21 Circuit Board 1 SEB92 D-Flip Flop 1 SEB22 DAC Module 1 SEB89 Decade Counter Module 1 C4160 Decade Resistance Box 1 SE067 Digital Multimeter 3 SEB24 Diode Module 1 SEC07 Ex-OR Gate Module 2 CB534 Ex-OR Gate Module (Single Gate) 2 SW938 Fixed Power Supply +/- 15 V 1 LP16 Flexible Lead Set (25cm) 6	Physics

	<p> LP17 Flexible Lead Set (50cm) 8 LP18 Flexible lead Set (100cm) 5 SEC04 FND+7 Segment Decoder 1 C8077 Full Adder Module 1 C8076 Half Adder Module 1 SEC13 Half Subtractor Module 1 SEB48 IC555 timer Module 1 SEB26 Inductor Module 30mH 2 SEB75 Inductor Module 60mH 1 SEB28 JFET Module 1 SEB91 JK Flip Flop Module 1 R5740 LAMP Source 1 SEB30 LED Module 1 CB539 Light Sensor (LDR) Module 1 SEB31 MOSFET Module 1 SEB32 NAND Gate Module 1 CB531 NAND Gate Module (Single Gate) 1 SEC08 NOR Gate Module 1 CB535 NOR Gate Module (Single Gate) 1 SEB34 NOT Gate Module 1 CB532 NOT Gate Module (Single Gate) 2 SEB87 OP-AMP Module 1 SEB35 OR Gate Module 1 CB533 OR Gate Module (Single Gate) 1 SEB38 Push Button Module 1 SEC06 Regulator Module 1 SEB41 Resistor Module 100Ω 1 SEB43 Resistor Module 330Ω 1 SEB46 Resistor Module 1kΩ 2 SEB47 Resistor Module 3.3kΩ 3 SEB76 Resistor Module 4.7kΩ 1 SEB44 Resistor Module 10kΩ 5 SEB45 Resistor Module 15kΩ 2 SEB78 Resistor Module 27kΩ 2 SEB88 Resistor Module 33kΩ 2 SEB79 Resistor Module 75kΩ 1 SEB40 Resistor Module 100kΩ 1 SEB42 Resistor Module 330kΩ 1 SEB80 Resistor Module 470kΩ 1 SEC10 Resistor Module 1kΩ, 1W 1 SEC11 Resistor Module 100Ω, 1W 1 SEC12 Resistor Module 50Ω, 1W 2 SEB90 RS Flip Flop 1 </p>	
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		SEB50 SCR Module 1 SEB82 Shift Register Module 1 SW925 Signal Generator 2 SEC14 Solar Module 1 SEB53 Switch Module 2 CB538 Thermistor Module 1 SEB54 Transformer Module 1 SEB84 Transistor Module 2N2222 2 SEB85 Transistor Module BC107 2 SEB86 Transistor Module BC109 2 SEB57 Triac Module 1 SEB83 UJT Module 1 SW926 Variable Power Supply 2 CB536 Variable Resistor 1k Ω 1 CB537 Variable Resistor 10k Ω 1 SEB81 Variable Resistor 1M Ω 1 SEB13 Zener Diode Module 1	
11	Diffraction Grating (with 15000, 2500, 1000, 500 LPI) Hilger and watts original (made in U.K.) 32x32 mm Size	1) 15000 LPI, 2) 2500 LPI, 3) 1000 LPI, 4) 500 LPI (i) Hilger and watts original (made in U.K.) (ii) Hilger and Watts (Type Indian)	Physics

12	Set up includes CRT, Power Supply, Solenoid, etc for measurement of e/m by Helical Method	<p>The set of Experimental set up comprises of the following:</p> <ol style="list-style-type: none"> 1. DC Power supply for apparatus comprises of the following built in parts: <ol style="list-style-type: none"> (a) H.T. (High Tension) DC power supply continuously variable from 375V to 850V±5% for acceleration voltage control. (b) DC Power supply for solenoid 0-60VDC variable in steps through two band switches (5 steps) using fine and coarse controls band switches. (c) Potentiometers are mounted on the front panel for Focus control, Intensity control and X, Y shift controls. (d) Two meters to measure acceleration voltage & solenoid current are mounted on the front panel. (e) Eight pin octal bases are mounted on the front panel to connect the CRT plug. 2. One long solenoid wound on 4 dia PVC with 23 wire gauge, mounted on wooden stand & connections brought out at terminals. 3. CRT mounted inside the solenoid. <ul style="list-style-type: none"> Input : 230 volts AC 50c/s E.H.T. : 1000 volts DC Output for Solenoid Provided : 60 volts DC at 1.5 Amps Solenoid : Dia 4"-5" Length : 20" wound on properly insulated former and fitted on nicely Polished teak wood base. 	Physics
13	Digital Gauss meter	<p>Range: 200 G & 2 kG Resolution: 1G at 0 - 200G Offset: By Potentiometer to set ZERO Display: 3½ Digit LED Power: 220 V, ±5%, 50 Hz AC Axial Hall probe: InAs</p>	Physics

14	Operational Amplifier Plug In components, bread board and power supply	SJ260 SEB21 Circuit Board 1 SE067 Digital Multimeter 3 SW938 Power Supply +/- 15V 1 LP16 Flexible Lead Set (25cm) 6 LP17 Flexible Lead Set (50cm) 10 LP18 Flexible lead Set (100cm) 5 SEB87 OP-AMP Module 1 SEB41 Resistor Module 100Ω 2 SEB46 Resistor Module 1kΩ 1 SEB76 Resistor Module 4.7kΩ 1 SEB44 Resistor Module 10kΩ 5 SEB40 Resistor Module 100kΩ 1 SEB14 Capacitor Module 0.01μF 1 SEB15 Capacitor Module 0.1μF 1 SW926 Variable Power Supply 2	Physics
15	Spectrum Tube Power Supply	Hydrogen Spectrum Tube is Free with Power Supply Casing for holding 26.0cm (L) spectrum tube securely in place, and preventing user from touching electrodes Flat black finish to help eliminate ambient light Shielded and spring-loaded tube sockets for inserting and taking out tubes while preventing breakage On-off toggle switch for ease of use Part Number: KTN286	Physics

16	Millikan Oil drop apparatus for measurement of charge on electron	<p>The set-up consists of</p> <ol style="list-style-type: none"> 1. A oil drop chamber mounted on top of the panel. It has <ol style="list-style-type: none"> (i) A pair of horizontal parallel plate electrodes separated by about 5 mm thick ebonite ring with a hole for viewing the oil droplets. (ii) The upper plate has a small hole in its centre for the admission of the droplets which are produces by spraying oil with an atomizer. (iii) A device to illuminate the space between the plate electrodes. 2. Three levelling screws at the base of the panel to make the parallel plate electrodes perfectly horizontal (perpendicular to the gravitational field) and a water-level placed on top of the panel to check it. 3. A microscope with CCD camera head to view and transmit image of oil droplets between the plate electrodes to the monitor. 4. A power pack to supply continuously variable voltage in the range 0 – 800 V to the upper plate electrode when the electric field is to be created between the plates. The lower plate is permanently grounded. 5. A digital voltmeter to measure the potential applied to the upper plate. 6. A 'Time Meter' to display the time for which the oil droplet is allowed to move. 7. A timing device to measure time interval between the passage of droplets through preset points. There are two keys to operate this device. Pressing the 'Clear' key, wipes out the time information. This is like a reset key. The time meter now reads '00.0' sec. Pressing the 'Start/Stop' key starts the timing device. Pressing it again stops the device. The elapsed time can be read on the meter. 8. A monitor with graduated screen. The horizontal lines on the monitor screen help in setting the distance through which the droplets move. 9. An atomizer to spray droplets. 10. A thermometer to measure the room temperature. 	Physics
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17	Photo-multiplier Tubes (PMT) 931-A (RCA), IP21 and IP28 (For Scintillation Counter) with PMT Housing with Biasing Circuit (Positive ground) suitable for 931-A, IP 21 and IP 28 with connecting coaxial cables.	Technical Specifications: Photo-multiplier Tubes (PMT) 931-A (RCA), IP21 and IP28 with NaI Scintillator (For Scintillation Counter) and PMT Housing with Biasing Circuit (Positive ground) suitable for 931-A, IP 21 and IP 28 with connecting coaxial cables.	Physics
18	Constant Current power supply for electro-magnet	Suitable for electromagnet EM-11 Current : Smoothly adjustable, 0-3.5 Amp. per coil Load Regulation: + 0.2% for no to full load Line Regulation : + 0.2% for 10% mains variations Display : 3 ½ digit, 7 segment, LED display Power : 220 V + 10%, 50 Hz Protection : Protected against over load and short circuit	Physics
19	Digital microvoltmeter	Technical Specification: DMV-001 Range : 1mV, 10mV, 100mV, 1V & 10V with 100% over-ranging. Resolution : 1µV Accuracy : ±0.2% ±1 digit Stability : Within ±1 digit Input Impedance : >1000MW (10MW on 10V range) Display : 3½ digit, 7 segment LED with autopolarity and decimal indication Interfacing : USB (in DMV-001-C2 only) Software : DACC and CAMM, both Window compatible Power Supply : 220V ±10%, 50Hz Weight : 2.5Kg Dimensions : 245mm X 280mm X 120mm	Physics

20	Sodium Vapour Lamp (Imported) & Leak Proof Transformers 35 Watts and 55 Watts	Technical Specifications: (SL930) Starting Voltage: 470 Volts Input Voltage: 220V, 50Hz Lamp House: 300x85mm (L x dia.) Aperture dia.: 25mm Complete with housing for sodium vapor lamp, transformer, Base, Mounting rod, Bosshead and Sodium Bulb.	Physics
21	Function Generator (2 MHz Multi-Waveform Signal Generator)	Function Generator Attenuation: 20-40 dB Amplitude: not less than 20vp-p (Empty Load) Dimension: 310x230x90 mm (FG-2002) Measurement Range: 1 Hz-20 MHz Standard Accessories: Power Cord, BNC Line Cable, Manual Input Power: 5 V-0V±10% Waveform: Sine wave, square wave, Triangle wave, Positive & Negative Sawtooth and Positive & Negative Pulse Frequency: 0.1 Hz-2 MHz	Physics

22	Set up includes Photocell, Cabinet, Power Supply along with voltmeter and microammeter, Light Source and Optical Filter Set to Study of Photoelectric effect & determination of Planck const.	<p>The Apparatus Consist Of The Following :</p> <p>Photo Sensitive Device : Vacuum Photo Tube. Light Source : Halogen Tungsten Lamp 12v/35w. Colour Filters : 635nm, 570nm, 540nm, 500nm & 460nm. Accelerating Voltage : Regulated Voltage Power Supply Output : (+)5V Continuously Variable Through Multi-Turn Pot Display: 3 1/2 Digit 7-Segment Led Accuracy: (+-)0.2% Current Detecting Unit : Digital Nanoammeter It Is High Stability Low Current Measuring Instrument: Range : 1000 Microa, 100 Microa, 10 Microa & 1 Microa With 100% Over Ranging Facility Resolution : 1na At 1 Microa Range Display: 3 1/2 Digit 7-Segment Led Accuracy: (+-)0.20 Power Requirement : 220v (+-) 10%, 50hz Optical Bench : The Light Source Can Be Moved Along It To Adjust The Distance Between Light Source And Phototube. Scale Length Is 400 Mm. A Drawtube Is Provided To Install Colour Filters, A Focus Lense Is Fixed In The Back End.</p>	Physics
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23	Set up includes CRT and Power Supply, etc for measurement of e/m by Thomson method	<p>Technical Specifications:</p> <p>Nvis 6103 This is to find the specific charge density of an electron particle in a CRT by Thomson method using BAR magnet.</p> <p>This system consists of a power supply unit for CRT and Deflection Magnetometer with stand arrangement and mounting stand for CRT. A microcontroller based instrument with LCD display for displaying deflection voltage. Highly secure and stable system.</p> <p>Cathode Ray Tube</p> <p>Distance between Plates :d=1.4cm</p> <p>Length of Plates :l=3.23cm</p> <p>Distance between Screen :L=14.5cm and Plates (edge)</p> <p>Focusing Voltage :Variable 0 - 300V DC</p> <p>Intensity Adjustment Voltage:Variable 0 - 60V DC</p> <p>Deflection Voltage :Variable 0 - 50V</p> <p>Scale :0 - 30cm each side</p> <p>CRT connection :Octal socket</p> <p>LCD :16 x 2 Characters</p> <p>Deflection magnetometer :0 to 90°</p> <p>Mains :230V AC ±10%, 50Hz</p> <p>Fuse :500mA</p> <p>Dimension :W 215 x D 195 x H 130</p>	Physics
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24	GM Counter experiments set up	<p>Technical Specifications: (GC601A) • G.M.Input</p> <p>(a) Polarity : Negative (b) Amplitude : 500 mV (min)</p> <ul style="list-style-type: none"> • Resolving time : 6 micro sec. (approx) • EHT output : Variable EHT using ten turn pot upto a maximum of 1500 volts at 1 mA. Line and load regulation better than 0.05%. • Display : 20 X 2 LCD dotmatrix display to indicate data counts, Elapsed time and EHT • Counts capacity : 999999 counts Preset time : 0 - 9999 seconds • Data storage : Upto 6665 readings • Command Buttons : START, STOP, PROG, STORE, INC & DEC command buttons. • Programmability : Includes selection of preset time, storing/ recalling of data, starting and stoping of acquisition. • G.M.Socket : MHV connector for connecting to G.M.Detector. • Power : +12V adaptor at 1.4A (230,50Hz) • Mechanical Dimensions : 250mm(W) X 140mm (H) X 300mm (D) • ACCESSORIES (ESSENTIAL) <p>a. End Window G.M.Detector Stand Type : SG200 b. End Window G.M.Tube Type : GM 120 (or) GM125 c. Radioactive Source Kit Type : SK210 d. Aluminium Absorber Set Type : AA270</p>	Physics
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25	Scintillation counter experiment set up	<p>Gamma ray spectrometer Integral MINIM based:</p> <p>Specifications</p> <p>LOW VOLTAGE SUPPLY +15V, -15V, +24V & 5V are generated in LV PCB, to powerup all the circuits.</p> <p>HIGH VOLTAGE SUPPLY: (0 to 1500V) @ 1mA HV is adjustable by a ten turn the helipot & dial.</p> <p>a. HV Output: Positive polaritis b. Ripple & noise : Low the 25mV c. Regulation : Better than 0.5%</p> <p>LINEAR AMPLIFIER PCB</p> <p>a. Input Polarity : Positive or Negative b. Total Gain (Typical) : 600 (Approx.) c. Ouput (Bipolar): 0V to 8V (usable recom mended Linear range) d. Max.Output : 12V (Saturation Level) e. Shaping : 1µsec</p> <p>SINGLE CHANNEL ANALYSER PCB</p> <p>a.Input: Unipolar or Bipolar with a +ve leading edge 0 to 10V b. Output Pulse Polarity: Positive Pulse Amplitude: +5V Pulse Width :0.5 micro sec c. LLD output pulse amplitude: +5V Output pulse width: 0.5 micro sec Base line variable by : 10 turn helipot / Dial Base line variation : 0 to 10V by helical potentiometer d.Window width continously variable by helical potentiometer / Dial Window : 0 -1V in WINDOW mode ULD range: 0.10V in NORMAL mode e.LLD, ULD & MODE switch, controls have been provided on front panel</p>	Physics
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26	Digital storage Oscilloscope	<p>Technical Specifications: 100MHz bandwidth selections, 2ch input 1GSa/s maximum sampling rate Waveform Update rate 50,000 w/s 10M maximum memory depth for each channel 7" 800 x 480 WVGA LCD display 256 color gradient display function to strengthen waveform performance 1Mpts FFT frequency domain signal display Data logging function Zero Key function for horizontal time, vertical voltage and triggering</p>	Physics
27	Linear Air Track for Mechanics Experiment & Accessories	<p>Linear Air Track: Type: Triangular section. Material: Aluminium alloy. Length: 200cm. Air hole: Two rows both side, 1mm dia. Support feet: Three. Connection: Air inlet. Very low frictionless surface maintain by small tiny holes for air. Air Blower: House: Air outlet, Plastic, 35 mm dia Operating Voltage: 220 V AC, 50 Hz Air Speed: Speed regulator switch, $30 \pm 1 \text{ ms}^{-1}$ Switch: ON/OFF Dimension: 230 x 185 x 250mm (LxWxH) Supplied with shrinkable plastic pipe. Linear Air track accessories: A. Vehicle 200 g (2) B. Plug with aluminium strip (3) C. Plug with screen (1) D. Plug with clay (1) E. Plug with pin (1) F. Fork for rubber band (3) G. Weight 50 g (4) H. Plug with card(black Al sheet) (1) I. Plug with hook for attaching card (1) J. Plug with pulley (1) K. Rubber band (10) Digital timer with photogate pair: Display: 2 line LCD Type: Micro controller based Time resolution: 0.1 milli second Mode: Time, Speed & Acceleration</p>	Physics

		<p>Photogate: 2 Nos. Interface: USB Operating voltage: 5V DC Photogate detector: Infra-Red Microcontroller based and in-built test functions. Supplied with a pair of photogate and photogate mounting rod. Boss head: Object type: Square & round shape Object size: Up-to 13mm dia Material: Aluminium alloy Object can be held both vertically and horizontally. Support Rod & Support base</p>	
28	Optical Bread Board with Table	<p>Technical Specifications: 23" x 47", English Table Type:English Thickness (mm):50.00 Length (inches):47.0 Width (inches): 23.0 Construction: Stainless Steel (400 Series) Top and Bottom Plates, Plated Steel Honeycomb Core, High Pressure Laminate Core Sidewalls Core Cell Area (cm²): ≤3 Flatness (mm): 0.13 Mounting Threads: (945) ¼-20 Tapped on 1" Centerlines, on 1.5" Corners Weight (lbs): 74.0</p>	Physics

29	Mount and Accessories with Optical Bread Board	<p>Optical Mounts (One each)</p> <p>(a) Precision X-Y-Z Translation Stage: X-Y motion by micrometer & Z by thumb wheel with heavy base suitable to mount on board/plane table.</p> <p>(b) Precision X-Y-Z Translation Stage: with Z motion by micrometer</p> <p>(c) Precision X-Z Translation Stage: Same with X-by micrometer and Z by thumb wheel</p> <p>(d) Highly Precision Translation Stage: (Item no. a to c above) with imported micrometer or screw.</p> <p>(e) Rotational Stage with coarse & fine movement</p> <p>(f) Post mounts, thumb wheel mount</p> <p>(g) V grooves & clamps</p> <p>(h) Self centering holders & mounts for lenses, slits and M.O.</p>	Physics
30	Radioactive Source[Tl-204 (beta), Cs-137 (gamma),Sr-90 (beta), Co-60 (beta)]	<p>Technical Data: FIVE uncalibrated Beta reference sources (BS280 Nominal Activity: 0.1 to 0.3 μci) evaporated and sealed on 25mm dia x 5mm plastic disc covering FIVE photopeak energies with activity in the range of 0.1 to 0.4 micro curie.</p>	Physics

31	Green Diode Laser 532nm	Technical Specifications: GM-CW02 : Compact 532nm green laser module Laser Class : 2, 3R, 3B (II, IIIa, IIIb) Wavelength : 532nm Output Power : <30mW Output Mode : Continuous Input Voltage : 3V DC Operation Current : <300mA (<600mA for the 50mW) Operation Temp. : 20°C to 30°C Divergence : 1.2mrad Expected Lifetime : > 3000 hours Case Material : Brass Length : 30 mm Diameter : 12 mm	Physics
32	IR Diode Laser 785nm	785nm single-mode laser diode	Physics
33	Xenon Light Source for fibre optic spectrometer	Technical Specifications: XM-100 Lamp: Xenon Lamp Power: 100 Watt Optical Layout: Czerny Turner Wavelength Range: 240-800nm Bulb: OZONE Free lamp Bulb life: 1500hrs Colour Temperature: 6000K (Daylight) Provision for selection of wavelength Provision for changeable gratings to increase range Inbuilt filters to cut off higher harmonics Thermally stable optical bench Monochromatic light source directly coupled to CCD array detector Exciting optical filters: Excitation through monochromator continuous variation of Wavelength from 240-1000nm Upgrade: Abs, Fluor, Trans, Refl, color High arc stability Hot restart capability Beam diameter: 50mm Focal Length: 75mm Grating Mount: Single Number of Gratings: 1 Grating Size: 25 x 25 mm Number of ports: 1 exit port	Physics

		Fiber Optic Coupler Plate: Yes Slit Type: Fixed or Variable Slit Width: Variable Slit Height: 10mm Higher Order Filter Size: 15mm Wavelength Accuracy: < 0.5nm Resolution: 1 nm upwards Weight: 3.3 kg Dimension: 21cm*23cm*11.5cm	
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34	Monochromator for fibre optic spectrometer	<p>Technical Specifications: XM-100</p> <p>Lamp: Xenon Lamp Power: 100 Watt Optical Layout: Czerny Turner Wavelength Range: 240-800nm Bulb: OZONE Free lamp Bulb life: 1500hrs Colour Temperature: 6000K (Daylight) Provision for selection of wavelength Provision for changeable gratings to increase range Inbuilt filters to cut off higher harmonics Thermally stable optical bench Monochromatic light source directly coupled to CCD array detector Exciting optical filters: Excitation through monochromator continuous variation of Wavelength from 240-1000nm Upgrade: Abs, Fluor, Trans, Refl, color High arc stability Hot restart capability Beam diameter: 50mm Focal Length: 75mm Grating Mount: Single Number of Gratings: 1 Grating Size: 25 x 25 mm Number of ports: 1 exit port Fiber Optic Coupler Plate: Yes Slit Type: Fixed or Variable Slit Width: Variable Slit Height: 10mm Higher Order Filter Size: 15mm Wavelength Accuracy: < 0.5nm Resolution: 1 nm upwards Weight: 3.3 kg Dimension: 21cm*23cm*11.5cm</p>	Physics
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35	Travelling Microscope	<p>Technical Specifications: (TVM-03) Microscope Tube: Inclinable in any angle. true vertical and horizontal positions marked focusing.</p> <p>Scales and Verniers: Made of lifetime Stainless Steel.</p> <p>Optics: True achromatic objective with 7.5 cm, focusing distance from object.</p> <p>10X Ramsden Eyepiece with fine cross wire.</p> <p>Scale and Vernier: Horizontal scale: 18 cm divided at 1mm interval Vertical scale: 16cm divided at 1mm interval Screw gauge dial: 100 divisions with a least count of 0.01mm</p>	Physics
36	Foucault Pendulum Apparatus GEOM0027	<p>Technical Specifications: The unit for measuring the Earth's rotation in a smaller scale.</p> <p>A unique energy compensation mechanism enables continuous operation of the pendulum; glass windows shield the unit from drafts for uninterrupted, precision measurements;</p> <p>and a special 360° scale enables exact recording of directions.</p> <p>Designed for in depth analysis and advanced studies, this Foucault's Pendulum features amplitude adjustment and built-in illumination.</p> <p>Size: 40.6 x 40.6 x 144.8 cm; Weight: 110 lbs.</p>	Physics

37	Michelson Interferometer	Technical Specifications: Base dimension: 290x212x168mm (LxWxH) SK025 Distance (M2 & BS): 100mm Beam splitter: 50 x 38 x7mm (LxWxT) Compensating plate: 50 x 38 x 7mm (LxWxT) Mirrors M1 and M2: 30 mm dia, thickness 10mm R:T: 50 : 50 Flatness of beam splitter: $\lambda/8$ Least count: 0.01mm (coarse adjustment knob) Least count: 0.0001mm (fine adjustment knob)	Physics
38	Introductory Nano cell experiment set up	Technical Specifications: NV4500 Shape Memory wire : Ni-Ti alloy Dimension : Length : 77 mm Diameter : 0.7 mm Magnifying Lens Magnification : 10 X Diameter of Lens : 40 mm Laser source : Wavelength : 630 nm Output : Less than 3mW Hot Air Gun : 200 Watt Diffraction Grating : With 8 different atomic arrangement	Physics
39	Nano TiO ₂ Solar cell experiment set up	Technical Specifications: Conductive glass plate : Tin Oxide Coated Dimension : 2.5 x 2.5cm Resistance : 20 - 300 Electrolyte Solution : Iodine Electrolyte contain Ethylene Glycol Dilute Acetic Acid Solution : 100ml, pH 2-3 in distilled water Labolene (Surfactant) : 20ml Nano TiO Powder : 10g 2 Hot Air Gun : 200W Light Source : Halogen lamp Mains Supply : 230V \pm 10%, 50Hz Output Power : 50W	Physics

40	Housing for Xenon lamp and monochromator with fan and lenses	<p>Technical Specifications: XM-100</p> <p>Lamp: Xenon Lamp Power: 100 Watt Optical Layout: Czerny Turner Wavelength Range: 240-800nm Bulb: OZONE Free lamp Bulb life: 1500hrs Colour Temperature: 6000K (Daylight) Provision for selection of wavelength Provision for changeable gratings to increase range Inbuilt filters to cut off higher harmonics Thermally stable optical bench Monochromatic light source directly coupled to CCD array detector Exciting optical filters: Excitation through monochromator continuous variation of Wavelength from 240-1000nm Upgrade: Abs, Fluor, Trans, Refl, color High arc stability Hot restart capability Beam diameter: 50mm Focal Length: 75mm Grating Mount: Single Number of Gratings: 1 Grating Size: 25 x 25 mm Number of ports: 1 exit port Fiber Optic Coupler Plate: Yes Slit Type: Fixed or Variable Slit Width: Variable Slit Height: 10mm Higher Order Filter Size: 15mm Wavelength Accuracy: < 0.5nm Resolution: 1 nm upwards Weight: 3.3 kg Dimension: 21cm*23cm*11.5cm</p>	Physics
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41	Microscope Camera 1.3 MP With Software	<p>Technical Specifications: 1.3MP CMOS CAMERA</p> <p>SPECIFICATIONS:</p> <p>SENSOR PARAMETER- 1/3" 1.3MP CMOS</p> <p>RESOLUTION: 1280*1024</p> <p>FRAME RATE- 16 FPS@1280*1024</p> <p>PIXEL SIZE- 2.2µm*2.2µm</p> <p>SENSITIVITY- 1.4V/LUX-SEC@550nm</p> <p>COLOUR FILTER- RGB LAYER PATTERN</p> <p>WHITE BALANCE- 1.5M</p> <p>COMPATIBILITY- WINDOWS XP/7/8</p> <p>RATE OF FIELD- 1/6</p> <p>OPTICAL MAGNIFICATION- 10X</p> <p>TUBE ADAPTER DIA.- 23.20mm or 30.00mm</p> <p>CONNECTION- OCULAR TUBE OR C-MOUNT</p> <p>UNIFORM FOCUSING: YES</p> <p>POWER SUPPLY: USB 2.0 PORT</p>	Physics
42	Parallelogram Binocular Mount	<p>Technical Specifications: Folded Mount Dim.:36" x 12" x 7"</p> <p>Folded Tripod Dim. :42" x 6" x 6"</p> <p>Min/Max height of Binoculars:42" (3.5 feet)</p> <p>Maximum height of Binoculars:84" (7 feet)</p> <p>Mount/Tripod Weight:~9/8.5 Kg</p> <p>Materials used:Premium marine ply, stainless steel hardware</p> <p>Mount Finish:Natural veneer, sealed and sprayed with 4 layers of tough automotive PU finish</p> <p>Tripod Height:40" - 60", adjustable</p> <p>Motion:Smooth motion in 4 axes, due to the 12 large teflon washers inserted between moving parts.</p> <p>Maximum Weight Handling:5 Kg binocular, viz. 25 x 100</p> <p>Counterweight provided:9 kg</p> <p>Binocular Attachment provided:L' Steel Bracket for small binoculars Wooden knob and spacer for large binoculars</p> <p>Accessories Included:Anti Vibration Pads, Binocular Attachment (steel), Surveyor's tripod, carry bag, tripod spreader for rigidity</p> <p>Spanners 2 pairs for locking nuts.</p>	Physics

43	Digital Telescope Camera (Electronic Eyepiece for Telescope) 1.25" 2 Mega Pixels Astronomy Camera Dynamic Observation)	1.25" 2 Mega Pixels (Astronomy Camera Dynamic Observation)	Physics
44	Scintillation counter experiment set up	Prospect Gamma Spectroscopy Software, Osprey digital tube base MCA with connectors, Teaching Laboratory Scattering Table Assembly: NaI detector Sheilding	Physics

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