

## G.Equipment

Department of Physics

| Sl. No. | Name of Items  | Qty. | Rate  | Total Amount | Justification  |
|---------|--|------|-------|--------------|--|
| 1.      | <b>Newton's Ring Microscope apparatus (Ajanta)-</b> We NATIONAL SCIENTIFIC APPARATUS WORKS are well-established as one of the trusted Newton's Ring Standard Microscope Manufacturers in India. The Newton's Ring Microscope offered by us is extensively demanded in the market as no alternative is available in terms of quality and performance. Moreover, some of the key features of the Newton's Ring Apparatus, offered by us, are as mentioned below: Compact instrument with full arrangements for conducting Newton's Ring experiment. A standard microscope unit with 30x magnification and rotatable cross line eye piece. Focusing of microscope is through Rack and Pinion. Longitudinal movement of 26 mm is done by rotating the drum provided which reads up to 0.001cm. Complete with optical glass and convex lens inside a metal case. Packed in a sturdy wooden box along with all standard accessories. Beware Of Duplicate, low Quality Products. Buy Only From National Scientific Apparatus Works Store. | 3    | 22500 | 67500        | <p>It is imperative for College to have the latest and high quality science lab supplies these days. Effective teaching and learning of science involves seeing, handling, and manipulating real objects and materials. The knowledge that students attain in classrooms would be ineffectual unless they actually observe the process and understand the relationship between action and reaction. Science lab equipment allows students to interact directly with the data</p> |
| 2.      | <b>Travelling Microscope (Ajanta)-</b> Travelling microscope customers vernier reading microscope or travelling microscope. 0.1 mm, horizontal scale is graduated up to 20 cm, vertical scale is graduated up to 15 cms, cast iron heavy bed with brass leveling screws, 10 x remsdon eye piece, achromatic objective with f.l. 50-75 mm, vertical and horizontal slide can be clamped at any position. the images represent actual product though color of the image and product may slightly differ.   | 3    | 18500 | 55500        |  |
| 3.      | <b>Spectrometer 7" with Bi Prism (Ajanta)-</b> Laboratory Spectrometer offered by us are extensively demanded in the market due to its robust structure that includes telescope & collimator that have fine rack & pinion motion and are mounted on a stable heavy C. I. base with three leveling screws. Customers are eased with the availability of the Student Spectrometer in Brass and Stainless Steel Scale in both the sizes of 15.0 cm (6") and 17.5 cm (7") of protected circle.   | 2    | 24000 | 48000        |  |
| 4.      | <b>Polarimeter Half Shade (Ajanta)-</b> The instrument applies the unique and state-of-art control technology, equipped with high quality prisms. It not only greatly enhances the response speed, measurement time, and minimum transmittance when the Polarimeter is testing samples, but also fully embodies the high speed, efficiency and accuracy features, which completely transformed the slow response speed and long measuring time of the traditional Polarimeter. It's  | 2    | 16600 | 33200        |  |

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|     | a landmark's breakthrough of Polarimeter development in China. In terms of function, the user can customize up to 300 commonly used measurement methods which are pre-stored in the system. With applying the latest IT technology, the instrument can access the Internet.   |   |        |        |
| 5.  | Ohm's Law apparatus (Ajanta)- Instrument comprises of Two moving coil meters to measure voltage & current, One wire wound Potentiometer. Circuit diagram Printed & Connections brought out at terminals for connecting 6 Volts battery & One potentiometer DC meter in Box Plastic supplied without Battery.  | 2 | 8500   | 17000  |
| 6.  | Reading Telescope (Ajanta)- Fitted on Epoxy finish, heavy round cast iron base with three leveling screws. Provided with up and down motion with graduated scale attachment. Achromatic objective and RAMSDEN EYEPIECE 10x with X-LINE glass graticule. Focussed by rack and pinion Attachment For Resolving Power Of Telescope Suitable for above telescope and all standard telescopes. It consists of a precision optical slit jaws with lateral movements. A micrometer is provided for reading directly on a micrometer head, the distance between the jaws. Highly precision and accurate.  | 2 | 8500   | 17000  |
| 7.  | Logic Gate (Ajanta)- Built in logic inputs with SPDT switches at 5V, Onboard output LED sockets, NAND, NOR, NOT, AND & OR Gates each, Required Number of patch cords, Operation Manual  | 3 | 6500   | 19500  |
| 8.  | Jaeger's apparatus (Ajanta)- Having a wide mouth reagent bottle fitted with a cork having two holes, in one hole a dropping funnel is fitted. Complete with manometer, capillary tube. All mounted on suitable wooden stand. Without aspirator  | 2 | 6250   | 12500  |
| 9.  | CRO. Dual Trace Cathode Ray Oscilloscope (Ajanta) - Oscilloscope Weight: 2.00Kg/ 4.4Lb Sample Rate Range 500Ms/S--1Gs/S Sec/Div Range 4Ns/Div To 40S/Div Delay Time Accuracy $\pm 50$ Ppm(At Over Any $\mu$ s Time Interval) Position Range 20Ns/Div To 80Us/Div; (-8Div X S/Div) To 40Ms; 200Us/Div To 40S/Div; (-9Div X S/Div) To 400S Sample Interval = S/Div f $\Delta$ c- 200 Position Range 2Mv/Div To 10V/Div Bandwidth 100Mhz Rise Time At Bnc( Typical) 3.5Ns Trigger Source Ch1, Ch2, Ext, Ext/5, Ac Line Trigger Modes Auto, Normal, Single Coupling Type Dc, Ac, Noise Reject, Hf Reject, Lf Reject Temperature Operating: 32" To 122" (0" To 50"f); No operating: -40" To 159.8" (-40"f To +71"f) Cooling Method Convection Humidity +104" Or Below (+40"f Or Below): $\pm 90\%$ Relative Humidity; 106" To 122" (+41"f To 50"f): $\pm 60\%$ Relative Humidity | 1 | 85000  | 85000  |
| 10. | U V Visible Spectrophotometer(Ajanta)- Single Beam UV Visible Spectrophotometer offered comes with wavelength accuracy of $\pm 0.5$ nm, wavelength repeatability of $\pm 0.1$ nm and automatic wavelength setting support. Further, the system also comes with photometric accuracy of $\pm 0.1$ %T,  | 1 | 185000 | 185000 |

gathered. So please provide these Lab equipments to the college so that students get up to date knowledge



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|     | photometric repeatability of $\pm 0.3\%$ T and photometric display range of $-0.3-3.0A, 0-200\%T, 0-9999C$ . For achieving excellent performance, the system has single beam, grating 1200 lines/mm based optical system as well as other functional features like wavelength range of 200-1000nm, band width of 1 nm, stability of $\pm 0.002A/h$ @ 500nm and USB based data output port options.   |   |       |       |
| 11. | <b>Function Generator (Ajanta)</b> - The function generator MTQ 201T is a useful test instrument capable of generating multiple waveforms like sine, square and triangle at any required frequency, in switched decade sub-ranges. The generator has output banana sockets; and a maximum wave output of 100mV to 5 volts peak to peak, which may be adjusted by a variable potentiometer control. The Function Generator has a selection to switch from sine, square and triangle waveform. The frequency of the signal is set on a dial, along with a multiplier range switch. The model provides an ideal signal source for testing of servo and vibrating systems, medical and geophysical equipment, audio amplifiers, transducer circuits, filter circuits etc. The function generator uses high performance low drift circuitry to ensure low distortion and frequency stability. The entire circuit is laid on high quality printed circuit board, which is epoxy masked and component numbers are marked on it, for easy maintenance and servicing. | 2 | 24500 | 49000 |
| 12. | <b>PN Junction Characteristics apparatus (Ajanta)</b> - 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.   | 2 | 17500 | 35000 |
| 13. | <b>Zener Diode Characteristics apparatus (Ajanta)</b> - Power Supply : 0- 15VDC/150mA, Voltmeter: 0-15 Volt, Ammeter: 15/1.5mA, Zener Diode: 5.1, 8.2, 12 Volts, Size : 11"x9"x3"  | 2 | 17500 | 35000 |
| 14. | <b>PNP &amp; NPN Characteristics apparatus (Ajanta)</b> - Power Supply : 0-10VDC/150mA & 0-1VDC/150mA, Voltmeter: 0-1 Volt, 0-10V, Ammeter: 250uA/50mA, 0-50mA, Transistor: NPN & PNP-CL100, CK 100, Size : 16"x9"x3"  | 2 | 18500 | 37000 |
| 15. | <b>B.J.T. Characteristics apparatus (Ajanta)</b> - Instrument comprises of DC Regulated Power Supply, One NPN transistor, 2 round meters to measure the voltage and current, Different type of Resistances connected inside.   | 2 | 17500 | 35000 |
| 16. | <b>F.E.T. Characteristics apparatus (Ajanta)</b> - Instrument comprises of Two DC Regulated Power Supplies, 0-15VDC/150mA & 0- 3VDC/150mA, three round meters for voltage & current measurement, FET BFW10 mounted behind the panel.   | 2 | 17500 | 35000 |
| 17. | <b>U.J.T. Characteristics apparatus (Ajanta)</b> - Two DC Regulated Power Supplies 0-15 VDC/150mA & 0- 30VDC/150 mA, Three round meters MO 65  | 2 | 17500 | 35000 |



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|     | mounted on the front panel to measure voltage & current. The connections for each meter is brought out at 4mm sockets. One UJT 2N2646 mounted behind the panel Connections of Supplies, Meters & UJT brought out at 4mm Sockets. One ON/OFF Switch with jewel light is provided on the front panel. Made of Heavy duty metal box construction  |   |       |       |
| 18. | <p><b>Sodium Vapor Lamp with transformer com. Set (Ajanta)</b> - The box is rectangular in shape and provided with slits on three sides equally spaced to enable three experiments to be performed simultaneously using one light source. Each slit is provided with a cover so that it can be closed when not required. Bulb holders of finest quality are fitted in wooden box with special cord.</p> <p><b>Quality:</b> Reliable Best quality Effective service Available with 35 watt bulb and transformer.</p> <p><b>Transformer:</b> High grade laminations are used to avoid losses. The box is made from thick metallic sheet. An anchor make piano type switch is provided for on / off and a 1.6 m. 3 core flying lead is provided for main connection and output is via a special Anchor make 3-pin socket (3-pin socket is provided to avoid shock due to the leakage of the current). This transformer is an auto leak type, giving a starting voltage 400 V which automatically reduces when the lamp has struck. The types of transformer is available.</p> | 1 | 13500 | 13500 |
| 19. | <p><b>Energy Band Gap(Ajanta)-</b> A band gap is the distance between the valence band of electrons and the conduction band. Essentially, the band gap represents the minimum energy that is required to excite an electron up to a state in the conduction band where it can participate in conduction.[1] The lower energy level is the valence band, and thus if a gap exists between this level and the higher energy conduction band, energy must be input for electrons to become free. The size and existence of this band gap allows one to visualize the difference between conductors, semiconductors, and insulators.[2] These distances can be seen in diagrams known as band diagrams</p>   | 1 | 12500 | 12500 |
| 20. | <p><b>Wheat Stone Bridge(Ajanta)-</b> Portable Wheatstone Bridge (Educational Model) (Range - 0.001 Ohms to 11.11 Meg Ohms) Provided with In-built Battery &amp; Galvanometer. Portable Wheatstone Bridge Objective: This test set has been designed to provide an accurate and sensitive instrument for measurement of Resistance. Features: This set is entirely contained with a dry battery and a galvanometer. Arrangement has been provided to use the external galvanometer or the high voltage source for increasing the sensitivity of the bridge. Range: 0.001 ohms to</p>   | 1 | 22500 | 22500 |



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|     | 11.11 Meg-ohms. Series Arm: Four decades in steps of 1,10,100 & 1Kohms which can be used as series resistance box also. Ratio Arms: The ratio arms of the bridge are provided with multiplying factors of 0.001, 0.01, 0.1,1,10,100 and 1000 for resistance measurements.  |   |       |       |
| 21. | <b>Shearing Bridge(Ajanta)</b> - Low Voltage Schering Bridge is one of the most important of a.c. bridges. It is widely used for measurement of Capacitance & dissipation factor. It is also used for measurement of the properties of insulators, condenser, bushing, & other insulating material. Input Supply : 50Hz , sine wave Capacitance : C2 - 1 mF, C4 - Decade, C1 - 0.33F , 0.47F , 1F , 2F Bridge balancing resistances : R3 = 500 , R4 = 2K POT, r - 500 SIZE : 180 x260 x 50 (L X D X H ) WEIGHT : 3 KG  | 1 | 22500 | 22500 |
| 22. | <b>Anderson Bridge(Ajanta)</b> - Anderson Bridge is used to measure unknown value of Inductance. The instrument has following inbuilt parts fitted in a ABS Plastic case. AC Source: The Bridge consists of sine wave signal of 1KHZ. The Amplitude of AC switch indicating lamp is provided on the Bakelite board. Two sockets are provided for the output of AC signals. Detector: For detecting small AC signals in the output, Null Detector is in-built with digital display Circuit Diagram: The circuit layout on the board is quite spread out to facilitate convenient working & clear understanding. 4mm socket are provided for making connections. R ---- Single decade resistance dials having value 100ohms 10ohms and continuously variable resistance from 0-100 ohms connected in series with the dial R r --- Three decade resistance dials having value 10ohms 1000ohms, 10ohms 100ohms and 10ohms 10ohms P=Q --- Fixed standard resistances having value 1000 ohms. C ---- Two Fixed standard capacitors having value 0.1mf and 0.2mf. (loss free) | 2 | 26500 | 53000 |
| 23. | <b>Barton's Apparatus-Horizontal (Ajanta)</b> - Barton's Apparatus Searle's Horizontal Pattern (Half Meter Long) Two cast iron feet's each with 3 through holes and grub securing screws, separating by two support rods approx 600mm long, one of which is graduated in cm and mm. The wheel 165mm dia. over groove moving on ball bearings is provided with chuck to hold the test rod of 55cm long and 5mm dia with two aluminum scales graduated 30-0-30 in single degrees, mounted on pillar support, which are adjustable along the rod, two pointers with clamp for attaching to specimen, on each of brass and steel rods, cord and hook for carrying masses. Supplied without weights.  | 2 | 12500 | 25000 |
| 24. | <b>Barton's Apparatus-Vertical (Ajanta)</b> - The apparatus consists of a heavy Cast Iron base with leveling screws which supports a mild steel frame. A torsion head is fixed at the upper end of the frame for holding one end of the rod under test. The other end of the rod is clamped in the axis of a torsion drum whose lower end is pivoted at the bottom of the frame. The deflection couple is  | 2 | 18650 | 37300 |



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|     | applied through strings wound around the drum, passing in opposite directions over pulleys, and terminating in pans. Three circular scales, used for measuring the deflection, are graduated in single degrees and can be clamped at any position. Three pointers for clamping the test rod are provided.   |   |        |        |
| 25. | <b>Ballistic Galvanometer (Ajanta)</b> - Ballistic galvanometer, product description, ohm's meter is designed for measuring the resistance in electric circuits, it is housed in unbreakable abs case with clear transparent front cover and operated on 1.5 wa cell. size, 100x100x140 mm.   | 2 | 9500   | 19000  |
| 26. | <b>Maxwell Needle Apparatus (Ajanta)</b> - Maxwell's needle apparatus is used to determine the shear modulus ( $\eta$ ) of the material of a wire of uniform cylindrical cross section. Conventionally, a single observation is taken for each observable, and the value of $\eta$ is calculated in a single shot. A modification to the above apparatus is made by varying one of the observables, namely the mass of the hollow cylinder ( $m_h$ ). With this modification five sets of values of mass difference ( $m_s - m_h$ ) are taken and corresponding values of difference of the squares of time periods ( $T_2^2 - T_1^2$ ) are plotted on the graph for calculating the value of $\eta$  | 2 | 6500   | 13000  |
| 27. | <b>Hall Effects Apparatus (Ajanta)</b> - ATICO Medical Pvt. Ltd. are manufacturer, supplier and Exporter of Hall Effect Experiment<br><b>Introduction:-</b> The resistivity measurements of semiconductors can not reveal whether one or two types of carriers are present; nor distinguish between them. However, this information can be obtained from Hall coefficient measurements, which are also basic tools for the determination of carrier density and mobilities in conjunctions with resistivity measurement. Hall effect experiment consists of the following:<br>1). Hall probe (ge. Crystal mounted on a pcb).<br>2). Electro magnet 10,000 gauss.<br>3). Power supply for electromagnet.<br>4). Constant current power supply with two digital meters. digital milli voltmeter 0-200mv sensitivity $\pm 0.1$ mv. Auto polarity.<br>digital milli ampere-meter 0-20ma , sensitivity $\pm 0.01$ ma.<br>5). Digital gauss meter with hall probe, 20kg | 1 | 125000 | 125000 |
| 28. | <b>Desauty Bridge (Ajanta)</b> - - It is a simple form of bridge giving maximum accuracy while comparing capacitance in term of resistance. Three decade dials x10, x100 and 1000 ohms from one arm. The other arm has also decade dials x10, x100 and 1000 ohms. A special mores key is fitted in the centre of the two arms connecting the battery and the galvanometer. The connections are engraved on the panel which is fitted to a teak wood polished case. All the coils are calibrated on Imported Testing Bridge. Accuracy $\pm 0.5$ to 1%.   | 1 | 18500  | 18500  |
| 29. | <b>Katter's Pendulum with Stand Brass (Ajanta)</b> - Consist of a rod of 120cm long 10cm. dia with two adjustable knife edges. Two metal weight Cast  | 2 | 6500   | 13000  |



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|     | Iron, Two wooden weights   |   |        |        |
| 30. | <b>B.H. Curve Apparatus with CRO (Ajanta)- Model No. AEI-255 Objective:</b><br>To trace hysteresis curves on CRO using resistance, capacitance & inductance.<br><b>Features:</b><br>Instrument comprises of the following:<br>Ac power supply 10-30 VAC.<br>Output selectable using band switch.<br>Circuit diagram for BH curve printed.<br>Components connected behind the front panel.<br>Input & output connections brought out at sockets.<br>One ON/OFF Switch with jewel light is provided on the front panel.<br>Made of Heavy duty metal box construction.<br>Front Panel made of high quality Bakelite sheet.<br><b>Accessories Supplied:</b><br>Required number of Patch Chords.<br>Instruction Manual. | 1 | 85000  | 85000  |
| 31. | <b>Michelson Interferometer (Ajanta)-</b> The Michelson interferometer is specially known for its use by Albert Michelson and Edward Morley in the famous Michelson - Morley experiment (1887) The Michelson Interferometer is common configuration for optical interferometer and was invented by Albert Abraham Michelson using a beam splitter, A light source is split into two arms each of those is reflected back towards the beam splitter which then combines their amplitudes interferometrically resulting interference pattern.  | 1 | 95000  | 95000  |
| 32  | <b>Research Spectrometer 9" (Ajanta)-</b> Spectrometers available in sizes 5", 6", 7" 9" and four vernier type.  | 1 | 55000  | 55000  |
| 33  | <b>G. M. Counter (Ajanta)-</b> G.M. digital counters offered by us are used in G.M. tubes and come with digital read out meter facility. These digit counting systems are also provided with control for reset, start & stop through panel. Some of the features of these counters include:<br>One pro-set-able timer with three digit display & thumb wheel switch G.M. Tube mounted in acrylic stand One radioactive source in lead container digital multi-meter to read the G.M. Tube voltage.   | 1 | 115000 | 115000 |
| 34. | <b>Plank's Constant by photoelectric effects Apparatus (Ajanta)- Objective:-</b> To Plot Forward & Reverse Char of a Vacuum Photo cell & to Calculate its stopping potential.<br><b>Features:-</b> Dual Range Power supply 0-1VDC/0-50 VDC with one dual range voltmeter & one sensitive centre zero Galvanometer of 25 $\mu$ A movement. Photo Cell mounted in wooden box having window for injecting light & also for sliding the various filters. One wooden Plank with 1/2 meter scale, light source with 100W lamp 7 set of filters.  | 1 | 22500  | 22500  |
| 35. | <b>E/M by Helical Method (Ajanta)- OBJECT:</b> To determine the value of e/m for an electron by Helical method. <b>APPARATUS:</b> The set of   | 1 | 42500  | 42500  |



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|     | Experimental set up comprises of the following: 1. DC Power supply for apparatus comprises of the following built in parts: (a) H.T. (High Tension) DC power supply continuously variable from 375V to 850V $\pm$ 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. |   |        |        |
| 36. | <b>Pentode Characteristic Apparatus (Ajanta)-</b> Electronics-instruments-pentode characteristic app-The instrument is designed to draw the characteristic of the pentode valve. It has two built in power supplies. Four 65mm dia meters are provided to read different electrode volt/current. The pentode valve is fitted on board. The student have to make the connection. Input:- 230 volts AC, H.T.1 (stabilised):- 0-300volts at 30mA, H.T.2:- 0-250 volts at 25mA, Bias:- 0-15 volts at 100mA, L.T:- 6.3 volts at 2 amps, Built in a nicely box with on/off switch, jewel light etc.  | 2 | 18500  | 37000  |
| 37. | <b>Smart Board (Ceramic)-</b> Interactive whiteboard Device converts whiteboard with projector to smart board, you can interactive with the image using stylus. Suitable for Classroom and office. For presentation and Interactive Trainings -Ingress.  | 1 | 165000 | 165000 |
| 38. | <b>LCD Projector (Hitachi) -</b> From the classroom to the conference room, Hitachi's CP-X3042WN LCD projector combines superior image clarity, high quality value, and long-life reliability. Bright, vivid colours with razor-sharp text and bold graphics will truly enhance any lesson or meeting and make it more memorable. For greater installation convenience, the CP-X3042WN has a cloning function which enables you to copy configuration settings from one projector to others of the same model via USB memory. The CP-X3042WN also includes our iOS application Projector Quick Connection App which offers simple control options including sending photo and document files and web site contents to the projector.   | 1 | 65000  | 65000  |
| 39. | <b>Ammeter (Ajanta)-</b> This ammeter is full scale and fully enclosed within a sturdy plastic housing and has an accuracy of $\pm$ 2.5%. The binding posts are color-coded and the unit features a zero-adjustment.   | 6 | 1250   | 7500   |
| 40. | <b>Voltmeter (Ajanta)-</b> Robust pointer instruments for measuring voltage resp. current in shock-proof desktop housings built especially for student and   | 6 | 1250   | 7500   |



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|     | practical lab experiments with moving coil instruments, mirror scale and 4-mm safety sockets.   |    |       |       |
| 41. | Galvanometer (Ajanta)   | 6  | 1250  | 7500  |
| 42. | Mile Ammeter (Ajanta)- This dual range 0-50 or 0-500 mill ampere (mA) DC Ammeter features an analog display. This economy ammeter is designed to measure the electrical current of a circuit. This device can be used for education, laboratory and scientific applications and also industrial or any application where measuring an electrical current is required.   | 6  | 1250  | 7500  |
| 43. | Calorimeter with stirrer (Ajanta)   | 6  | 950   | 5700  |
| 44. | Resistance Box- 10 Ohm's(Ajanta)  | 12 | 1350  | 16200 |
| 45. | Resistance Box- 50 Ohm's (Ajanta)   | 12 | 1850  | 22200 |
| 46. | Tuning Fork(Ajanta)   | 12 | 750   | 9000  |
| 47. | Magnetometer with compass(Ajanta)   | 3  | 3500  | 10500 |
| 48. | Potentiometer 4 wire (Ajanta)- Potentiometer 4 Wire With Pencil Jockey. Four Constantan Wires 24 Swg Stretched On A Polished Wooden Base Connected In Series With The Help Of Brass Strips Provided With Two 4mm Socket Terminals. A Box Wood Metre Scale Fitted On One Edge Of The Wooden Base Parallel To One Metre Length Of 4 Wires With A Knife Edge Jockey. A premium product by GR Lab.  | 3  | 4500  | 13500 |
| 49. | Diode Laser (Ajanta)  | 3  | 8500  | 25500 |
| 50. | Boyles Law app. (Ajanta)- Comprising two glass tubes, one closed the top and other tube open. Their lower ends are drawn out an connected together by 1meter of tubing. Both tubes are mounted on sliding brackets which may be locked in any position them on the metal supporting rods. Seasoned wood board approximately 44" high carries a meter scale graduated from 0 to 100 cm fitted heavy iron base levelling screws. Supplied without mercury and rubber tube.  | 3  | 3500  | 10500 |
| 51. | Fortin's Barometer with stand (Ajanta)- A glass tube of about 6mm bore is encased in an enamelled and lacquered brass tube, mounted on a polished wooden board with provision for wall mounting. With chemically engraved, silvered scales, graduated in both mm and 1/10" accompanied with a Vernier having a least count of 0.1mm or 1/200 inch of mercury that moves with rack and pinion arrangement and is mounted between the two scales, complete arrangement enclosed in a glass cylinder. A white reflecting surface behind the scales facilitates its easier reading. A glass cylinder towards the lower end of the barometer has an ivory pointer with adjustment screw that provides fiducially setting point to which the level of the mercury in the cistern is adjusted before noting the reading. | 1  | 32500 | 32500 |

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| 52.           | Optical Bench (Ajanta)  | 1 | 13600   | 13600 |
| 53.           | Stationary Accumulator (Globe)  | 6 | 1250    | 7500  |
| 54.           | Bar Magnet (Alnico)   | 6 | 250     | 1500  |
| 55.           | Copper water Bath (Ajanta)  | 3 | 1500    | 4500  |
| 56.           | Laptop 6th Generation (Lenovo)- 4 GB RAM, 1 TB HDD, 15 Processors, 15.6" Screen | 1 | 55000   | 55000 |
| Grand Total = |   |   | 2115700 |       |

Amount (In words Rs.): - Twenty One Lakh Fifteen Thousand Seven Hundred Only.



## Department of Chemistry

| Sl. No. | Name of Items   | Qty. | Rate   | Total Amount | Justification   |
|---------|---|------|--------|--------------|---|
| 1.      | <b>Humidity &amp; Temperature Control Cabinet- Model No. Aei-121 (Ajanta)</b><br>We Are Manufacturers Of Humidity Control Cabinets, Temperature Control Cabinets In India Since Last Two Decades. Our Temperature And Humidity Control Cabinets Are Conceptualized And Designed To Create Test Chambers To Study And Contemplate The Effects Of Different Environmental Parameters Such As Humidity, Temperature Applications Tests Involving Micro-Organisms, Plants, Tissues, Electronic Components Etc. Apart From Various Customized Industrial And Research Applications. Our Temperature Control Cabinets And Humidity Control Cabinets Have A Variety Of Usage In R And D Laboratories, Research Studies And Product Testing Facilities Across The Globe. Apart From That, These Temperature And Humidity Control Cabinets Have A Variety Of Usages In Tissue Culture Applications, Enzyme Reaction Studies, Growth Observation Studies, Fermentation Analysis And Various Other General And Specialized Applications In Various Laboratories. We Specialize In Both Standard And Customized Temperature Control Cabinets And Humidity Test Cabinets, Specifically Designed To Meet The Challenging Demands Of Various Scientists For Individual And Specialized Research Applications. Over A Short Period Of Time Weiber Brand Have Been Established As Reliable Exporters Of Temperature Control Cabinets And Humidity Control Cabinets In India, Catering To The Vast Markets In South East Asia, Middle East, Africa And Europe. Apart From That We Are Supplying Our Temperature And Humidity Control Cabinet In India, Catering To A Variety Of Customers Ranging From Defence Installations, Research Laboratories, Educational Institutes And Various R And D Laboratories Of Leading National And Multinational Companies. | 1    | 85000  | 85000        | It is imperative for College to have the latest and high quality science lab supplies these days. Effective teaching and learning of science involves seeing, handling, and manipulating real objects and materials. The knowledge that students attain in classrooms would be ineffectual unless they actually observe the process and understand the relationship between action and reaction. Science lab equipment allows students to interact directly with the data gathered. So please |
| 2.      | <b>High Temperature Muffle Furnace- Model No. Aei-122 (Ajanta)-</b> Salient Features Of Muffle Furnace: - Double Walled With Double Insulation For Minimum Heat Leakage & Faster Temp. Rise. The Outer Casing Made Of Thick CRC Powder Coated. Heating Chambers Consist Of Rectangular Horizontal Totally Enclosed Muffle Bracket. Heating Elements Are Made Of Nichrome / Kanthal Wire Wound Externally On The Muffle. Temp. Controlled By Micro Processors Based Digital Temp. Indicator Cum Controller With CS/AI Sensor. Max.Temp.1000°C, Working Temp. 900°C. Various Models With Different Temp. Range Are Available.   | 1    | 62500  | 62500        |   |
| 3.      | <b>Digital Orbital Shaking Incubator Cooling (Ajanta)</b>   | 1    | 125000 | 125000       |   |
| 4.      | <b>Incubator Shaker- Model No. Aei-123 (Ajanta)- Specifications:</b><br><br>Cat. Volume Maximum No. Of Clamp<br>No<br><br>1000ml 500ml 250ml 150ml 100ml 50ml   | 1    | 115000 | 115000       |   |

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|     | 16 25 36 49 64 64   |   |        |        |
|     | <p>16 Ltr</p> <p>6-</p> <p>01</p>   |   |        |        |
| 5.  | <p><b>Shaking Machine- Model No. Aei-124 (Ajanta) - WEIBER</b></p> <p>Wrist Action Shaking Machine Action Is Used For Vigorous Shaking Of Various Solutions/Chemicals In Wrist Action Mode By Conical Flask Fitted In The Clamps. These Machines Are Well Integrated With The Heavy Cast Iron Base Which Make These Sturdy In Construction, Have Two Equipped Arms Used For Holding Flasks Fixed For Shaking Liquid Solutions.</p>  | 1 | 57500  | 57500  |
| 6.  | <p><b>Rotary Shaker Horizontal (Ajanta) - Size 150x150 cms</b></p> <p>complete set Model No. Aei-125</p> <p>Being The Leading Names In The Industry, We Offer Technically Updated Array Of Rotary Shakers That Are Used In Varied Light And Heavy Duty Industries. It Is Used For Mixing And Dissolving The Chemicals In Accurate Proportion. Our Entire Product Range Is Abrasion Resistant In Nature And Is Delivered In Standard Technical Dimensions.</p>   | 1 | 42500  | 42500  |
| 7.  | <b>V.D.R.L. Shaker- Ajanta</b>  | 1 | 26000  | 26000  |
| 8.  | <p><b>Reciprocating Shaker (Ajanta) - Reciprocating action shaker</b></p> <p>in which platform on shaker makes a back &amp; forth motion. This shaker is used for clinical and chemical investigations dye manufacturing, micro biological research. The metabolic shaker body is made up of M.S. duty powder coated; tray made up of S. S. Trays can be interchangeable as per number of conical flasks. Shaking speed is adjustable from 20 to 200 strokes per minutes. Stroke length is 40 mm Variable speed &amp; reciprocating stroke gives gentle agitation to vigorous mixing.</p>   | 1 | 62500  | 62500  |
| 9.  | <p><b>Quartz Water Distillation Double Distillation unit- Model No. Aei-129 (Ajanta)</b></p> <p>We Are Engaged In Making Available Never-Failing Kjeldahl Distillation &amp; Digestion Combined Unit (Without Glass Part). We Are Associated With The League Of #1 Manufacturer And Suppliers Of Kjeldahl Distillation &amp; Digestion Combined Unit In Delhi. Each Unit, Which Rolls Off Our Manufacturing Unit, Is Ensured To Work Safely And Efficiently. And The Guarantee Of Quality Is An Assured Thing To Benefit From Our Products</p>  | 1 | 105000 | 105000 |
| 10. | <p><b>Bomb Calorimeter digital safety device- Model No. Aei-128 (Ajanta)-</b></p> <p>Backed By The Team Of Adroit Professionals And Rich Experiences In This Industry, Our Company Has Emerged As One Of The Renowned anufacturers And Exporters Of Digital Bomb Calorimeter With Safety Device. While Manufacturing These Digital Bomb Calorimeters With Safety Device, Our Expert Professionals Make Sure That It Is Manufactured In Compliance With Industrial Standards And Norms. This Digital Bomb Calorimeter With Safety Device Is Offered To The Clients Without The Oxygen Cylinder. Our Venerated Clients Can Avail Vast Range Of Safety Devices From Us At Very Reasonable Price.</p> | 1 | 125000 | 125000 |
| 11. | <p><b>Bottle Washing Machine with S.S. Tank (Ajanta)-</b></p> <p>Electrically operated with quick release chuck taking wide variety of interchangeable nylon brushes for cleaning syringes, test tubes, bottles etc Machines with soaking tanks have 12 rinser and two</p>  | 1 | 32500  | 32500  |

provide these Lab equipments to the college so that students get up to date knowledge



|     |  |   |        |        |
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|     | drill chuck to hold variety of brushes, and are mounted on sturdy angle iron frame duly painted. Complete with 1/4 H.P. motor, pulley of two chucks for fixing different sizes of brushes, with soaking unit mounted on angle frame with 12 rinser, stop cock, tank of G.I. sheet/ Stainless Steel Sheet.  |   |        |        |
| 12. | <b>Digestion &amp; Distillation Apparatus Complete with Glass parts (Ajanta)</b> - Model No. AeI-129 We Are Engaged In Making Available Never-Failing Kjeldahl Distillation & Digestion Combined Unit (Without Glass Part). We Are Associated With The League Of #1 Manufacturer And Suppliers Of Kjeldahl Distillation & Digestion Combined Unit In Delhi. Each Unit, Which Rolls Off Our Manufacturing Unit, Is Ensured To Work Safely And Efficiently. And The Guarantee Of Quality Is An Assured Thing To Benefit From Our Products.   | 1 | 120000 | 120000 |
| 13. | <b>Digital Melting Point apparatus (Ajanta)</b> - This is a compact instruments designed for accurate determinations of melting points of solid samples.<br><b>Salient Features:</b> Cylindrical silicon oil bath Built-in magnetic stirrer with electronic speed controller. Electronic controller for adjusting the heating rate. Digital display of temperature with PT-100 sensor Glare-free back-ground light with adjustable light intensity. Provision for holding the melting point display Description.   | 1 | 65000  | 65000  |
| 14. | <b>Water bath Shaker- Model No. AEI-270 (Ajanta)</b><br><br>SHEL LAB Reciprocating Water Baths deliver precise temperature control and a smooth reciprocal shaking motion. Temperature and oscillation controls feature an easy to read P.I.D. microprocessor temperature controller and an independent safety thermostat.<br><br>The bath may be used with or without oscillation. Shaking speed is variable from 20 to 200 oscillations per minute, and the stroke length can be adjusted to three separate settings: 0.5, 1.0, or 1.5 inches to minimize the chance of accidental spillage. Also, the unique basket support system is designed to eliminate tank wear, yet still provide full support and free action for a heavily loaded basket. A durable finish on the housing prevents corrosion and chipping. In addition to a stainless steel tank, the bath platform tray is designed for optimum temperature uniformity. Maximum temperature is achieved using the stainless steel gable cover, which is designed to prevent condensate from dripping onto samples and assures uniform temperature conditions. | 1 | 55000  | 55000  |
| 15. | <b>Micro based Flame photometer with compressor (Ajanta)</b> - Model No. AEI-265 Offered provides working in General, Serum and Urine modes with general mode sensitivity of Na:0.5 ppm, K:0.5 ppm, Li:0.5 ppm, Ca:15 ppm. Also coming with Na & K filters with Ca & Li filters made available at optional at extra costs, these have resolution of 0.1 ppm / meq with reproducibility of + 2% FS, &± 2 Digits, curve fit accuracy of + 2% FS and 20 x 4 Alphanumeric backlit LCD display support. The system also provides up to 5-Point calibration with curve   | 1 | 110000 | 110000 |

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|     | fitting software and features RS-232C interface support.  |   |       |       |
| 16. | <b>Muti Magnetic Stirrer with Hot plate (Ajanta) - digital Model No. AEI-220 (Ajanta)-</b> We are offering magnetic stirrer. Description: highly polished ss top plate for optimum heat transfer pm dc motor for higher torque even at low speeds accurate steeples speed control maintains speed stability bushing according to din 12878 for connecting a contact thermometer digital led display for temp. & rpm available providing high accuracy.  | 1 | 8500  | 8500  |
| 17. | <b>Microprocessor water analysis kit (Ajanta) - Model No. AEI-114 (Ajanta)-</b><br><br>Offered Can Deliver Working In PH Range Of 0-14 Ph, Ph Resolution Of 0.01ph, Ph Accuracy Of + 0.01 Ph (Relative) As Well As Automatic & Manual Calibration Support.<br><br>PH: Range : 0-14 Ph<br>Resolution : 0.01ph<br>Accuracy : + 0.01 Ph ( Relative)<br>Temp. Comp. : Automatic With Pt100 Sensor<br>Buffer Recognition : 4.00 , 7.00 , 9.20 ( Automatic)<br>Calibration : Automatic & Manual<br>Dissolved Oxygen: Range : 0 To 20 Ppm<br>Resolution : 0.1 Ppm<br>Calibration : Automatic<br>Accuracy : + 0.2 Ppm + 1digit<br>Temp. Comp. : Automatic With Pt100 Sensor<br>Pressure Comp. : 0-999 Mm Of Hg ( Manual)<br>Salinity Correction : 0-20 Mg/L<br>Mv/ORP: Range :- 2000 To +2000 Mv<br>Resolution : 1 Mv<br>Calibration : Manual<br>Accuracy : + 0.1% + 1digit<br>Temperature: Range :-100 To +200 Degree C<br>Resolution : 0.1 Degree C<br>Accuracy : + 0.2% + 1digit | 1 | 65000 | 65000 |



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|     | Input : Pt100 Calibration : Manual<br>Conductivity: Range: 0-200.0 Ms/Cm<br>Range Selection: Automatic<br>Resolution : 0.01 Us/Cm<br>Accuracy : + 0.5%<br>Temp. Comp. : Automatic With Pt100 Sensor<br>Ref. Temp. : 25 Degree C<br>Temp. Co-Efficient: 0-4% Adjustable<br>Cell Constant : 0.05 To 2.0 Adjustable<br>TDS: Range : 0-200 Ppt<br>Range Selection : Automatic<br>Resolution : 0.1 Ppm<br>Accuracy : + 0.5%<br>TDS Factor : 0.5 By Default( Adjustable)<br>Accessories: Ph Electrode<br>Two Buffer Solutions Conductivity/TDS/Salinity Cell<br>DO Probe, DO Membranes, KCL Temp. Probe Operation Manual<br>ORP Electrode AT EXTRA COST  |   |       |       |
| 12. | <b>Oil free vacuum machine (Ajanta)- Features:</b><br>No Lubrication required<br><ul style="list-style-type: none"> <li>Noiseless performance</li> <li>Absolutely Portable</li> </ul> <b>Other Details:</b><br>No Lubrication required<br><ul style="list-style-type: none"> <li>Noiseless performance</li> <li>Absolutely Portable</li> <li>Totally Oil - free construction</li> <li>Practically maintenance free</li> <li>Built - in micro suction filter</li> <li>Special diaphragms available (Teflon / vi-ton etc.)</li> <li>Extra large bearings for trouble - free and smooth running</li> <li>Pump available with flame - proof motor (Model ATV - 45 - FM)</li> </ul> Pump available with 24 V / 48 V DC (Model ATV - 15 - DC - 1500) | 1 | 17500 | 17500 |

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| 19. | <b>Chemical Analyzer (Ajanta)-</b> The Quintox industrial combustion analyzer does the following: Measures: O <sub>2</sub> , CO, Inlet temperature, Flue temperature - Calculates: Efficiency, CO <sub>2</sub> , Net stack temperature, Losses, Excess Air, CO/CO <sub>2</sub> , Poison Index, Net Temperature Differential - Integral printer - 15' handset cable 15' probe hose w/1000°F, 12" shaft - Nearly 2000 test memory slots   | 1 | 150000 | 150000 |
| 20. | <b>Rocking Microtome (Ajanta)-</b> It is designed for sectioning comparatively soft, wax-embedded tissues with a thickness range of 2mm to 24mm, in steps of 2mm. Calibrated in 2 micron divisions, the section cutting thickness can be set easily and quickly by a single control. It is recommended for elementary biology & pathology students. The rocking microtome is an extremely reliable instrument comprising of three moving parts. The lead screw mechanism incorporates quality precision engineering and the cutting stroke is controlled by a single control lever which minimizes the operator skill required.   | 1 | 24500  | 24500  |
| 21. | <b>Turbidity meter (Ajanta)-</b> We are recognized as well-established organization engaged in manufacturing trading exporting and supplying a wide range of digital turbidity meter which can effectively determine turbidity level of dispersant in liquids. This instrument scatters light for its operations. Our offered meter is commonly used for measuring sulphates phosphates chlorides zinc and silver. Under the vigilance of our experts this meter is rigorously tested on various parameters of quality to ensure its flawless performance.  | 1 | 13500  | 13500  |
| 22. | <b>Autoclave (Ajanta) -</b> The Deluxe Quality Autoclaves are sturdily constructed in rustproof, heavy gauge aluminum for use in rugged condition. Its a unique vessel that generates steam under pressure and temperature between 120°C to 135°C. On reaching the right temperature the instruments are subject to a saturated steam environment for a pre-specified time which results in safe and guaranteed sterilization.  | 1 | 97500  | 97500  |
| 23. | <b>Melting Point apparatus (Ajanta)-</b> This is a compact instruments designed for accurate determinations of melting points of solid samples.   | 1 | 6500   | 6500   |
| 24. | <b>Smart Board (Ingress) -</b> Interactive whiteboard Device converts whiteboard with projector to smart board, you can interactive with the image using stylus. Suitable for Classroom and office. For presentation and Interactive Trainings-Ingress.   | 1 | 165000 | 165000 |
| 25. | <b>LCD Projector (Hitachi)-</b> From the classroom to the conference room, Hitachi's CP-X3042WN LCD projector combines superior image clarity, high quality value, and long-life reliability. Bright, vivid colours with razor-sharp text and bold graphics will truly enhance any lesson or meeting and make it more memorable. For greater installation convenience, the CP-X3042WN has a cloning function which enables you to copy configuration settings from one projector to others of the same model via USB memory. The CP-X3042WN also includes our iOS application Projector Quick Connection App which offers simple control options including sending photo and document files and web site contents to the projector. | 1 | 65000  | 65000  |
| 26. | <b>Mixture Grander (Singer)</b>   | 1 | 8500   | 8500   |
| 27. | <b>Chenomastic Balance (Vikash Varanasi)</b>  | 1 | 22500  | 22500  |
| 28. | <b>Single Pan Balance</b>   | 2 | 27300  | 54600  |



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|---------------|---|----|---------|-------|
| 29.           | Vacuum Pump   | 2  | 18650   | 37300 |
| 30.           | Operational Manual for temp. & Humidity meter   | 6  | 1500    | 9000  |
| 31.           | Aspirator Bottle cap. 20 ltr. (Poly Lab)  | 3  | 8500    | 25500 |
| 32.           | Cork borer set of six   | 12 | 650     | 7800  |
| 33.           | Spatula   | 12 | 150     | 1800  |
| 34.           | Hot Plate (Ajanta)- Description: 110v 50hz sh-2 hot plate magnetic stirring machine stir healthcare lab specifications: model: sh-2voltage: 110v/50hzheating power: 180wmotor power: 10wstirring speed: 0-1600r/ministering capacity: 500mlheating-platesize: 120 x 120mmmaximum heating plate temperature: 380° c height: 39.5cmsize: 20.5x12. 3cm features: 1, the shell and the upper cover are respectively used die casting, stretching process, the surface of the process, in order to prevent the liquid leakage is like. 2, can be heated and stirred at the same time. 3 fully enclosed heating plate, no open flame, heating up fast, and durable. 4, the heating power and stirring speed step less adjustable. 5, suitable for industrial, agricultural, medical and health, scientific research institutions, colleges and universities laboratory liquid mixing heating. Packing includes: 1 x main unit1 x adaptor(according to your country distributed adapter)1 x fuse1 x English mannual1 x user manual more details: | 3  | 9500    | 28500 |
| 35.           | Copper water Bath (Ajanta)  | 6  | 1500    | 9000  |
| 36.           | Laptop 6th Generation (Lenovo)- 4 GB RAM, 1 TB HDD, I5 Processors , 15.6" Screen  | 1  | 55000   | 55000 |
| Grand Total = |   |    | 2061000 |       |

Amount (In words Rs.): - Twenty Lakh Sixty One Thousand Only.

Department of Botany

| Sl. No. | Name of Items  | Qty. | Rate  | Total Amount | Justification  |
|---------|--|------|-------|--------------|--|
| 1.      | Binocular Research Microscope (Olympus) - Model No. AEI-111<br>Objective: 4x, 10x, 40x(S), 100x(Soil) Wide Field Plane-Scope<br>Biological Microscope: 45mm DIN Achromatic<br>Objective: 4x, 10x, 40x(S), 100x(Soil) Wide Field Plane-Scope<br>Eyepiece: WF10X, WF16X; Total magnification: 40x-1600x Direct/<br>107x-2680x From Dia2-30mm Iris Diaphragm And Dia32 Filter;<br>Abbe Condenser : N.A. 1.25 ; Coaxial Coarse And Fine Focusing<br>Adjustable Mechanism: 25mm, Precision: 0.002mm; Illumination<br>Halogen Lamp 220V/ 6V20W.  | 2    | 65000 | 130000       | It is imperative for College to have the latest and high quality science lab supplies these days. Effective teaching and learning of science involves seeing, handling, and manipulating real objects and materials. The knowledge that students attain in classrooms would be ineffectual unless they actually observe the process and understand the relationship between action and reaction. |
| 2.      | Monocular Research Microscope (Olympus) - MONOCULAR head inclined at 45o and rotatable in 360o lockable at any angle. Inter pupillary distance adjustments provided. Eyepiece anti-fungal KEOWA Wide Field WF 10x/FOV 18mm (PAIRED) A.R. coated eyepiece with high eye point and foldable eye guards. Nosepiece- Quadruple ball bearing nosepiece with POSITIVE click stop & rubber grip. Objectives- KEOWA Semi Plan Achromatic objectives 4x/NA 0.10, 10x/NA 0.25, 40x/NA 0.65(SL) and 100x/NA 1.25(SL) Oil imm, anti fungal treated. Stage- Double Plated Rectangular stage( Ball Bearing Type) of size 120x140mm having low positioned co-axial controls. Both X & Y axis having graduated scale & verniers reading to 0.1mm. Focusing- Co-axial fine & coarse focusing control with ball bearing guide ways based on four stage gear reduction system, free from any back lash & large knobs provide a soft & sophisticated touch to the microscope. Tension- Control Ring Enable you to adjust tension on coarse focusing knobs. Condenser- Focusable Abbe two lens type condenser NA 1.25 fitted with iris diaphragm and swing out filter holder with blue filter moving up and down through rack and pinion mechanism. Illumination- Built-in Base illumination with 3W LED/6V-20W halogen lamp & intensity controlled power supply. | 2    | 55000 | 110000       |  |
| 3.      | Tissue Culture Microscope (Olympus) - Model No. AEI-105 -<br>Tissue Culture Rack Are Very Useful For Various Types Of Tissue Culture Plants And Other Tissue Culture Work In Tissue Culture Room. Our Company Offers Tissue Culture Rack, Which is Used For Tissue Culture Plants And Tissue Culture Work In Tissue Culture Room. We Have Gained Recognition As One Of The Trusted Tissue Culture Growth Rack Manufacturers. Specifications: Made By : Tissue Rack Are Made Of Tubular Mild Steel Pipes Duly Painted For Longer Life Or Made Of Aluminium.<br><br>Racks Specification : Each Rack Of Size 48"x18" (Depth) Is Covered With Thick Glass Or Sun Mica Paste Dour Board. Distance Between Each Rack Is 15". Lighting: Four Fluorescent Tubes Are Glare Free Lights Are Built In Upper Portion In Worktable. UV Germicidal Light: Are Fitted Inside The Rack. Chocks: All Fluorescent Tubes Chocks And Ultra Violet Germicidal Tube Chocks Are Fitted Out Side Of Rack. Timer: 0-  | 1    | 95000 | 95000        |  |



|   |  |   |        |        |  |
|---|--|---|--------|--------|--|
|   | 24 Hours Digital Timers Are Provided Of Tissue Culture Rack. Control Panels: All Control Panels Are Fitted Tops Of Tissue Culture Racks. On/Off Switch Of Fluorescent Tubes And UV Tubes. All Control Panels Are Fitted Separately In Each Rack With Indicator Light. Easy Mobility :The Whole Rack Is Provided With Four Nos. Castor Wheels At The Bottom For Easy Mobility To Any Place.   |   |        |        | Science lab equipment allows students to interact directly with the data gathered. So please provide these Lab equipments to the college so that students get up to date knowledge |
| 4 | B.O.D. Incubator- Inner chamber : S.S. 304, Exterior cabinet : Mild steel powder coated, No of S.S. Shelves : 02 Nos Temp range : 5°C - 60°C, Controller : Microprocessor based Auto-Tune PID Digital Temp & Rh Controller Temp accuracy : $\pm 0.5$ °C, Volume capacity : 120 litres, Mobility on castor wheels, U-shaped Tubular Heaters Main unit, refrigeration system, Digital Temperature PID controller, Instruction Manual, IQ-OQ-PQ Documents on request Full size acrylic sheet inner door, Electrical wiring as per CE Compliances  | 1 | 115000 | 115000 |  |
| 5 | Laminar Air Flow (Ajanta)- Our Esteemed Clients Can Avail From Us An Exclusive Range Of Laminar Air Flow. We Offer Our Product Range In Various Sizes, Thickness And Designs In Order To Meet Various Requirements Of Our Precious Clients. Laminar Air Flow Is Precisely Fabricated By Our Skilled Professionals With Perfection Using Premium Quality Raw Material And Sophisticated Technology. We Offer Laminar Air Flow To Our Valued Clients At Industry Leading Prices. Features: Strong & RIGID CONSTRUCTION Corrosion RESISTANT Low-MAINTENANCE   | 1 | 105000 | 105000 |  |
| 6 | UV Spectrophotometer (Ajanta) - MONOCULAR head inclined at 45o and rotatable in 360o lockable at any angle. Inter pupillary distance adjustments provided. Eyepiece anti-fungal KEOWA Wide Field WF 10x/FOV 18mm (PAIRED) A.R. coated eyepiece with high eye point and foldable eye guards. Nosepiece- Quadruple ball bearing nosepiece with POSITIVE click stop & rubber grip. Objectives- KEOWA Semi Plan Achromatic objectives 4x/NA 0.10, 10x/NA 0.25, 40x/NA 0.65(SL) and 100x/NA 1.25(SL) Oil imm, anti fungal treated. Stage- Double Plated Rectangular stage( Ball Bearing Type) of size 120x140mm having low positioned co-axial controls. Both X & Y axis having graduated scale & verniers reading to 0.1mm. Focusing- Co-axial fine & coarse focusing control with ball bearing guide ways based on four stage gear reduction system, free from any back lash & large knobs provide a soft & sophisticated touch to the microscope. Tension- Control Ring Enable you to adjust tension on coarse focusing knobs. Condenser- Focusable Abbe two lens type condenser NA 1.25 fitted with iris diaphragm and swing out filter holder with blue filter moving up and down through rack and pinion mechanism. Illumination- Built-in Base illumination with 3W LED/6V-20W halogen lamp & intensity controlled power supply. | 1 | 185000 | 185000 |  |
| 7 | Projection Microscope (Ajanta) - The projection microscopes are ergonomically designed by our highly skilled and experience technocrats. The instrument is provided with the monocular fixed straight tube of length 160mm. The device is provided with the triple revolving nosepiece with positive click stops and accurate centering. The mechanical stage of size 135 x 120mm is also provided with the machine. The stage has low co-axial drive controls that ensure the movement of the stage in X-Y direction and cross movement 50 x 75mm along with the fully graduated vernier scale. The device is equipped with the 20watt/ 220 volt of halogen lamp which is provided for the  | 1 | 42500  | 42500  |  |



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|     | natural cooling of the illuminator. The instrument is supplied complete with the 4X - 10X - 40XSL magnification achromatic objective lenses and H10X and H15X eyepieces. The diameter of the screen is 150mm which can be rotated over 360 degrees on microscope tube. All the specifications of this model is provided as per the PRM-11A but has only two objectives 10X and 45X whereas the screen size of the instrument is 100mm which is provided with the mechanical stage.   |   |       |       |
| 8.  | Micro photographic Camera (Ajanta) - Canon Sony Pentax Nikon Olympus Samsung and other Digital Camera with 1/4" Screw Hole The rail has a geared drive system which greatly enhances accuracy and speed of adjustment of the rail. Speed of adjustment of the rail greatly with two precise double scales, and allows precise distance modification Compatible with most Film and Digital SLR Cameras  | 1 | 32500 | 32500 |
| 9.  | Hot Air Oven (Ajanta) - Standard double wall fabrication. Inner chamber made of richly anodized aluminium or highly polished stainless steel sheet. Exterior fabricated out of thick mild steel sheet duly finished in stove enamel off-white paint or paste mat finish colour combinations. The gap between the walls is filled with special grade glass-wool for heat insulation. Nichrome wire heating elements -provided on three sides attain quick and uniform heating in range of 50oC to 250oC + 1oC controlled by capillary type thermostat. size 12"x12"x12"   | 1 | 22500 | 22500 |
| 10. | Vacuum Oven (Ajanta) - "Tempo" make Vacuum Oven is made of Inside S.S. 316 mirror finish and Outer S.S. 304 with dull smooth buff finish. 4" high grade glass wool insulation for Rectangular Model & 3" high grade glass wool insulation for Circular Model to minimized heat loss. Shelf system stainless steel trays improve heat conduction to samples. Toughened glass window in door to allow viewing of samples inside the chamber  | 1 | 32500 | 32500 |
| 11. | Digital PH Meter(Ajanta) - Digital pH Meter Technical Specifications (Table Model are Touch Button Calibrations) Model 501 Deluxe pH Meter 502 Digital pH Meter 503 Portable Model Display 3 1/2 digit LED Range pH 0 to 14.00 mV 0 to + 1999 Resolution pH 0.01 mV 1 - Accuracy pH +0.01 mV +1 - Temperature Auto 0 to 100d - - Compensation Manual 0 to 100d Scope Correction 80 to 120% Power 230V + 10% 1 x 9V Battery Dimensions 76 x 275 x 175 Accessories: • Combination pH Electrode, Buffer Tablets 4pH & 7pH, Operation Manual, Electrode Stand, Dustcover.  | 2 | 29500 | 59000 |
| 12. | Digital Conductivity Meter(Ajanta) - Technical Specification Model Table Model (ST-213) Portable Model (ST-214) Display 3 1/2 Digit LED 3 1/2 Digit LCD Range 0-200 $\mu$ S 0-2,0-20,0-200 & 0-1000mS 0-1999 $\mu$ S 0-19.99 mS Temperature Compensation Manual 0-50oC - Cell Constant Adjustment Adjustable Adjustable Conductivity Cell Platinum DIP Type Platinum DIP Type Resolution 0.1 $\mu$ S 0.1 $\mu$ S Accuracy +1% FS +1 Digit +1% FS +1 Digit Power 230v + 10% ac, 50 Hz 1 x 9V Battery Dimensions 250mmX185mmX85mm 165 x 85 x 28 mm Weight 2 kg. (Approx.) 0.8 kg. (Approx.) Accessories Conductivity Cell, Operation Manual, . | 2 | 16350 | 32700 |
| 13. | Digital T.D.S. Meter(Ajanta) - Digital table Model TDS Meter, 3oe Digit LED display with facility for Digital Cell constant adjustment along with TDS C000ell. 5 ranges, 0-1000 ppt Mhos/cm. Cell Constant Adjustment is adjustable. Conductivity Cell is Platinum DIP, Measuring Frequency is 1000HZ, Supplied complete with cord & plug to work on Single Phase 220 / 230 volts A.C. supply.   | 2 | 16700 | 33400 |



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| 14. | Water and soil analysis kit(Ajanta) - We are engaged in a field of supplying excellent quality of Digital Water & Soil Analysis Kit to our valued clients across the world. We are manufacturing this product by using very recently updated technology and supreme quality raw material. This is a portable instrument system for analyzing the features of soil and water compositions. The key feature of this kit is its durable nature, compact design, and precise functionality. We are supplying this product at a very marketable rate. Details : Technical Specification PH Range 0 to 14pH - - Temp. Comp. 0oC (Manual) - - Resolution 0.01pH - - Accuracy +0.01 pH - - Conductivity Range 1 5 - Cell Constant 0.4 - 1.5 Adj - - Resolution 0.1 Micro mhos - - Accuracy + 0.5% FS - - Temperature Range 0o - 100oC - - Resolution 0.1oC - - Accuracy +0.1oC + digit - T.D.S. Range 1 5 - Cell Constant 0.4 - 1.5 Adj - - Resolution 0.1ppm - - Accuracy -3% FSD - - D.O. Range 0-20 ppm - N.A. Temp. Comp. 0.1 ppm - N.A. Resolution +0.3 ppm - N.A. Accuracy 5o to 50o (Manual) - N.A. Turbidity Range 0-1000 NTU/JTU - N.A. Resolution 1 NTU/JTU - N.A. Accessories 1) pH Electrode 2) Standard Solution 7.0 pH & 4.0 pH 3) ORP Electrode (On Demand) 4) Temperature Probe 5) Conductivity/TDS/Cell 6) DO Probe test tube 7) Instruction Manual | 1 | 33500 | 33500  |
| 15. | Water Bath (Ajanta) - We are one of the widely acclaimed exporters, manufacturers and suppliers of Thermostatic Water Bath. The offered thermostatic water bath is specially designed for the testing of materials, on specified environmental conditions.   | 2 | 12500 | 25000  |
| 16. | Serological water bath(Ajanta) - Serological water bath, product description, serological water bath(thermostatic water bath), temperature range 5°c above from ambient temperature to 80° c. Thermostatic control with accuracy of ± 0.5° c to 1°c. Double walled, inside stainless steel and outside mild steel painted in epoxy powder coating. Bath consists of two pilot lamps. Temperature control knob and on off switch. To work on 220 230 volts a.c. Supplied with or without stirring arrangement, without racks and thermometer. Lid of water bath is made of stainless steel sheet, size inside chamber (stainless steel) l x w x h 300 x 175 x 175 mm , capacity (approx.):12 litre.   | 2 | 12500 | 25000  |
|     | Digital Electronic Balance (Ajanta) - 500g 0.1 accuracy Digital Balance Pocket Weighing Jewellery Electronic LCD Scale Gram Description: * This electronic pocket scale is perfect for any small item that you can think of. * It has a "tare" feature, which can set the weight to "zero" after putting a pan on the scale, so you can weight your valuable thing on the pan. * The flip-open cover protects the stainless steel weighing platform when the scale is not in use. * The bright LCD display makes it very easy to read in the dark. The pocket scale that you are bidding for comes in Black color. * Operation Manual is included. * Powder can be weighed accurately, but can not be put on the scale directly! Specifications: * Measurement: 500Gx0.1 * Tare Range: Tare full Capacity * Auto off: 30 seconds off * Units : g/oz/ct/ozt/dwt/gn/dl * Power: 1.5V x 2AAA battery(not including) * Scale Size: 120 x 64 x 20mm * Pan Size:50*55mm * Colour: Silver * Netweight:102g * Package Size:128*70*23mm * Weight Included Package:116g  | 3 | 26750 | 80250  |
|     | Digital D.O. Meter (Ajanta) - Digital Dissolved Oxygen Meter- 3 digit LED display with Gold/Silver D.O. probe. (Table Model).  | 3 | 16500 | 49500  |
|     | Flame Photometer (Ajanta) - Microprocessor Flame Photometer - 1385 comes with flame failure detection and auto gas cut off facility. In case of power failure, the gas cuts off automatically. In  | 2 | 62500 | 125000 |

|     |  |   |       |       |
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|     | case the flame goes off accidentally during work, the flame failure alarm sounds after few seconds, In models 5-Point calibration facility and non-linearity correction is provided through an automatic curve fitting software. Facility has been provided for re-standardization with a single standard, thereby, eliminating the need of the multiple standards once a calibration has been performed. Auto Gas Cut off, Auto Flame Failure Detection, Direct Results in ppm and meq, Useful for Medical & Soil Testing.  |   |       |       |
| 20  | Laboratory Centrifuge (Ajanta) - It has a compact stirring device utilizing a rotating magnetic field (created by a permanent magnet) which induces variable speed stirring action. Stirring is accomplished by means of small Teflon rotor, which when placed in the liquid to be stirred is capable of rotation by magnetic field applied from below the container. Continuous Heavy duty A/C stirrer with 1/4 HP Brushless, High Torque Variable Speed Motor with Hollow Shaft & propeller of SS 316, chuck, having facility of presetting & indication of speed. These Stirrers are specially designed brushless AC variable speed stirrers driven by frequency inverter to ensure reproducible speed with any load.   | 3 | 9500  | 28500 |
| 21. | Water Deionizer (Ajanta) - Deionised water system is a complete, all-in-one deionization package. Included with the unit are a pre-sediment and carbon filter, (2) 14" x 47" DI tanks come with purity lights and one final sediment filter. This system incorporates all the benefits and simplicity of deionization (DI) without the added cost, complexity, and water waste of reverse osmosis (RO).  | 1 | 42500 | 42500 |
| 22. | Vortex Shaker (Ajanta) - Vortex shaker test tube shaker fitted with neoprene rubber cup mounted eccentrically on the shaft With high speed control arrangement provided  | 1 | 18500 | 18500 |
| 23. | Rotary Shaker (Ajanta) - It has a compact stirring device utilizing a rotating magnetic field (created by a PERMANENT MAGNET) which induces variable speed stirring action. Stirring is accomplished by means of small Teflon rotor, which when placed in the liquid to be stirred is capable of rotation by magnetic field applied from below the container. Continuous Heavy duty A/C stirrer with 1/4 HP Brushless, High Torque Variable Speed Motor with Hollow Shaft & propeller of SS 316, chuck, having facility of presetting & indication of speed. These Stirrers are specially designed brushless AC variable speed stirrers driven by frequency inverter to ensure reproducible speed with any load.   | 1 | 32500 | 32500 |
| 24. | Magnetic Stirrer (Ajanta) - Magnetic stirrer with hot plate, product description, we are one of the leading manufacturer and exporter of magnetic stirrer. the entire array of these products is manufactured using optimum quality material and latest techniques. Clients can avail the offered range from us at the most reasonable prices. Description: highly polished ss top plate for optimum heat transfer, pmc motor for higher torque even at low speeds, accurate step less speed<br><br>control maintains speed stability, bushing according to din 12878 for connecting a contact thermometer, technical data: , heating temperature range, ambient -350o, speed range, 50 - 1500 rpm, heating plate material, polished stainless steel, motor rating, 9 4w, heat output, 450 w, stirrer bar length max. Output, 80 mm, dimensions of hot plate body, 180 x 180, weight of the body, 2.9 kgs. | 2 | 8500  | 17000 |



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|-----|--|----|--------|--------|
| 25. | Smart Board (Ceramic) - Interactive whiteboard Device converts whiteboard with projector to smart board, you can interactive with the image using stylus. Suitable for Classroom and office. For presentation and Interactive Trainings- Ingress .   | 1  | 165000 | 165000 |
| 26. | LCD Projector (Hitachi) - From the classroom to the conference room, Hitachi's CP-X3042WN LCD projector combines superior image clarity, high quality value, and long-life reliability. Bright, vivid colours with razor-sharp text and bold graphics will truly enhance any lesson or meeting and make it more memorable. For greater installation convenience, the CP-X3042WN has a cloning function which enables you to copy configuration settings from one projector to others of the same model via USB memory. The CP-X3042WN also includes our iOS application Projector Quick Connection App which offers simple control options including sending photo and document files and web site contents to the projector. Plus, Hitachi's Intelligent Eco Mode with Image Care combines optimal picture performance with maximum energy savings for a lower total cost of ownership. For added peace of mind, Hitachi's CP-X3042WN is also backed by a generous warranty and our world-class service and support programs. | 1  | 65000  | 65000  |
| 27. | Mixture Grander (Singer)   | 1  | 8500   | 8500   |
| 28. | Microwave Oven (IFB)   | 1  | 35000  | 35000  |
| 29. | Student Microscope (Olympus)- Metal Construction Movable Condenser Eyepiece: 10x, 15x Objective: 10x, 45x Total Magnification: 100x to 600x Separate Coarse Fine Focusing Knobs Plano concave mirror on gimble mount for illumination Fixed abbe type condenser with iris diaphragm 2 Prepared Slides, 50 Plane Slides Gives Clear Images Easy To Operate Ideal for School & Kids.   | 6  | 18500  | 111000 |
| 30. | Haemometer   | 12 | 1850   | 22200  |
| 31. | Hsemocytometer   | 12 | 1850   | 22200  |
| 32. | Slide Projector (Ajanta)- Versatile design; rigid construction halogen lamp 24v-150w; noiseless cooling system; slide carrier for 2 slides; rigid construction; height adjustable; manual focusing; dimension : 9000 x 6000 MM   | 1  | 42500  | 42500  |
| 33. | Bacteriological Incubator (Ajanta)   | 1  | 65000  | 65000  |
| 34. | Muffle Furnace- Muffle furnace 9 inch x 4 inch x 4 inch, product description, high temperature furnace 900°c (industrial), the furnace is insulated with ceramic fibre blanket of high density for better insulation. The furnace can run continuously at 900° c, trouble free. The furnace is quick heating type, light in weight, table mounting type, compact, elegant in design. Outer painted in epoxy powder coating. The hinged type swing door insulated with ceramic fibre to avoid heat losses from the door. The furnace is fitted with to avoid over heating for long life and trouble free working. The panel is fitted at the top of the furnace, muffle furnace 9 inch x 4 inch x 4 inch.   | 1  | 22500  | 22500  |
| 35. | Rocking Microtome (Ajanta)- It is designed for sectioning comparatively soft, wax-embedded tissues with a thickness range of 2mm to 24mm, in steps of 2mm. Calibrated in 2 micron divisions, the section cutting thickness can be set easily and   | 1  | 24500  | 24500  |

|                      |   |   |                |       |
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|                      | quickly by a single control. It is recommended for elementary biology & pathology students. The rocking microtome is an extremely reliable instrument comprising of three moving parts. The lead screw mechanism incorporates quality precision engineering and the cutting stroke is controlled by a single control lever which minimizes the operator skill required. |   |                |       |
| 36.                  | Laptop 6th Generation (Lenovo)- 4 GB RAM, 1 TB HDD, I5 Processors, 15.6" Screen   | 1 | 55000          | 55000 |
| <b>Grand Total =</b> |   |   | <b>2110750</b> |       |

Amount (In words Rs.): - Twenty One Lakh Ten Thousand Seven Hundred Fifty Only.



### Department Of Zoology

| Sl. No. | Name of Items   | Qty. | Rate  | Total Amount | Justification  |
|---------|---|------|-------|--------------|--|
| 1.      | Binocular Research Microscope (Olympus) - Model No. AEI-111<br>Objective: 4x, 10x, 40x(S), 100x(Soil) Wide Field Plane-Scope<br>Biological Microscope: 45mm DIN Achromatic<br>Objective: 4x, 10x, 40x(S), 100x(Soil) Wide Field Plane-Scope<br>Eyepiece: WF10X, WF16X; Total magnification: 40x-1600x Direct/<br>107x-2680x From Dia2-30mm Iris Diaphragm And Dia32 Filter;<br>Abbe Condenser: N.A. 1.25; Coaxial Coarse And Fine Focusing<br>Adjustable Mechanism: 25mm, Precision: 0.002mm; Illumination<br>Halogen Lamp 220V/ 6V20W.   | 2    | 65000 | 130000       | It is imperative for College to have the latest and high quality science lab supplies these days. Effective teaching and learning of science involves seeing, handling, and manipulating real objects and materials. The knowledge that students attain in classrooms would be ineffectual unless they actually observe the process and understand the relationship between action and reaction. Science lab equipment |
| 2.      | Monocular Research Microscope (Olympus) - MONOCULAR<br>Head inclined at 45° and rotatable in 360° lockable at any angle.<br>Inter pupillary distance adjustments provided. Eyepiece anti-fungal KEOWA Wide Field WF 10x/FOV 18mm (PAIRED) A.R. coated eyepiece with high eye point and foldable eye guards.<br>Nosepiece- Quadruple ball bearing nosepiece with POSITIVE click stop & rubber grip. Objectives- KEOWA Semi Plan Achromatic objectives 4x/NA 0.10, 10x/NA 0.25, 40x/NA 0.65(SL) and 100x/NA 1.25(SL) Oil imm, anti fungal treated.<br>Stage- Double Plated Rectangular stage( Ball Bearing Type) of size 120x140mm having low positioned co-axial controls. Both X & Y axis having graduated scale & verniers reading to 0.1mm.<br>Focusing- Co-axial fine & coarse focusing control with ball bearing guide ways based on four stage gear reduction system, free from any back lash & large knobs provide a soft & sophisticated touch to the microscope. Tension- Control Ring Enable you to adjust tension on coarse focusing knobs.<br>Condenser- Focusable Abbe two lens type condenser NA 1.25 fitted with iris diaphragm and swing out filter holder with blue filter moving up and down through rack and pinion mechanism.<br>Illumination- Built-in Base illumination with 3W LED/6V-20W halogen lamp & intensity controlled power supply. | 2    | 55000 | 110000       |  |
| 3.      | Tissue Culture Microscope (Olympus) - Model No. AEI-105 -<br>Tissue Culture Rack Are Very Useful For Various Types Of Tissue Culture Plants And Other Tissue Culture Work In Tissue Culture Room. Our Company Offers Tissue Culture Rack, Which Is Used For Tissue Culture Plants And Tissue Culture Work In Tissue Culture Room. We Have Gained Recognition As One Of The Trusted Tissue Culture Growth Rack Manufacturers.<br>Specifications: Made By : Tissue Rack Are Made Of Tubular Mild Steel Pipes Duly Painted For Longer Life Or Made Of Aluminium.<br><br>Racks Specification : Each Rack Of Size 48"x18" (Depth) Is Covered With Thick Glass Or Sun Mica Paste Dour Board. Distance Between Each Rack Is 15". Lighting: Four Fluorescent Tubes Are Glare Free Lights Are Built In Upper Portion In Worktable. UV Germicidal Light: Are Fitted Inside The Rack. Chocks: All Fluorescent Tubes Chocks And Ultra Violet Germicidal Tube Chocks Are Fitted Out Side Of Rack. Timer: 0-24 Hours Digital Timers Are Provided Of Tissue Culture Rack. Control Panels: All Control Panels Are Fitted Tops Of Tissue Culture Racks. On/Off Switch Of Fluorescent Tubes And UV  | 1    | 95000 | 95000        |  |



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|----|--|---|--------|--------|--|
|    | Tubes. All Control Panels Are Fitted Separately In Each Rack With Indicator Light. Easy Mobility : The Whole Rack Is Provided With Four Nos. Castor Wheels At The Bottom For Easy Mobility To Any Place.   |   |        |        | allows students to interact directly with the data gathered. So please provide these Lab equipments to the college so that students get up to date knowledge |
| 4. | B.O.D. Incubator- Inner chamber : S.S. 304, Exterior cabinet : Mild steel powder coated, No of S.S. Shelves : 02 Nos Temp range : 5°C - 60°C, Controller : Microprocessor based Auto-Tune PID Digital Temp & Rh Controller Temp accuracy : $\pm 0.5^\circ\text{C}$ , Volume capacity : 120 litres, Mobility on castor wheels, U-shaped Tubular Heaters Main unit, refrigeration system, Digital Temperature PID controller, Instruction Manual, IQ-OQ-PQ Documents on request Full size acrylic sheet inner door, Electrical wiring as per CE Compliances  | 1 | 115000 | 115000 |  |
| 5. | Laminar Air Flow (Ajanta)- Our Esteemed Clients Can Avail From Us An Exclusive Range Of Laminar Air Flow. We Offer Our Product Range In Various Sizes, Thickness And Designs In Order To Meet Various Requirements Of Our Precious Clients. Laminar Air Flow Is Precisely Fabricated By Our Skilled Professionals With Perfection Using Premium Quality Raw Material And Sophisticated Technology. We Offer Laminar Air Flow To Our Valued Clients At Industry Leading Prices. Features: Strong & RIGID CONSTRUCTION Corrosion RESISTANT Low-MAINTENANCE   | 1 | 105000 | 105000 |  |
| 6. | UV Spectrophotometer (Ajanta) - MONOCULAR head inclined at 45o and rotatable in 360o lockable at any angle. Inter pupillary distance adjustments provided. Eyepiece anti-fungal KEOWA Wide Field WF 10x/FOV 18mm (PAIRED) A.R. coated eyepiece with high eye point and foldable eye guards. Nosepiece- Quadruple ball bearing nosepiece with POSITIVE click stop & rubber grip. Objectives- KEOWA Semi Plan Achromatic objectives 4x/NA 0.10, 10x/NA 0.25, 40x/NA 0.65(SL) and 100x/NA 1.25(SL) Oil imm, anti fungal treated. Stage- Double Plated Rectangular stage( Ball Bearing Type) of size 120x140mm having low positioned co-axial controls. Both X & Y axis having graduated scale & verniers reading to 0.1mm. Focusing- Co-axial fine & coarse focusing control with ball bearing guide ways based on four stage gear reduction system, free from any back lash & large knobs provide a soft & sophisticated touch to the microscope. Tension- Control Ring Enable you to adjust tension on coarse focusing knobs. Condenser- Focusable Abbe two lens type condenser NA 1.25 fitted with iris diaphragm and swing out filter holder with blue filter moving up and down through rack and pinion mechanism. Illumination- Built-in Base illumination with 3W LED/6V-20W halogen lamp & intensity controlled power supply. | 1 | 185000 | 185000 |  |
| 7. | Projection Microscope (Ajanta) - The projection microscopes are ergonomically designed by our highly skilled and experience technocrats. The instrument is provided with the monocular fixed straight tube of length 160mm. The device is provided with the triple revolving nosepiece with positive click stops and accurate centering. The mechanical stage of size 135 x 120mm is also provided with the machine. The stage has low co-axial drive controls that ensure the movement of the stage in X-Y direction and cross movement 50 x 75mm along with the fully graduated vernier scale. The device is equipped with the 20watt/ 220 volt of halogen lamp which is provided for the natural cooling of the illuminator. The instrument is supplied complete with the 4X - 10X -40XSL magnification achromatic objective lenses and H10X and H15X eyepieces. The diameter of the screen is 150mm which can be rotated over 360 degrees on   | 1 | 42500  | 42500  |  |



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|     | microscope tube. All the specifications of this model is provided as per the PRM-11A but has only two objectives 10X and 45X whereas the screen size of the instrument is 100mm which is provided with the mechanical stage.   |   |       |       |
| 8.  | Micro photographic Camera (Ajanta) - Canon Sony Pentax Nikon Olympus Samsung and other Digital Camera with 1/4" Screw Hole The rail has a geared drive system which greatly enhances accuracy and speed of adjustment of the rail. Speed of adjustment of the rail greatly with two precise double scales, and allows precise distance modification Compatible with most Film and Digital SLR Cameras  | 1 | 32500 | 32500 |
| 9.  | Hot Air Oven (Ajanta) - Standard double wall fabrication. Inner chamber made of richly anodized aluminium or highly polished stainless steel sheet. Exterior fabricated out of thick mild steel sheet duly finished in stove enamel off-white paint or paste mat finish colour combinations. The gap between the walls is filled with-special grade glass-wool for heat insulation. Nichrome wire heating elements -provided on three sides attain quick and uniform heating in range of 50oC to 250oC + 1oC controlled by capillary type thermostat. size 12"X12"X12"   | 1 | 22500 | 22500 |
| 10. | Vacuum Oven (Ajanta) - "Tempo" make Vacuum Oven is made of Inside S.S. 316 mirror finish and Outer S.S. 304 with dull smooth buff finish. 4" high grade glass wool insulation for Rectangular Model & 3" high grade glass wool insulation for Circular Model to minimized heat loss. Shelf system stainless steel trays improve heat conduction to samples. Toughened glass window in door to allow viewing of samples inside the chamber  | 1 | 32500 | 32500 |
| 11. | Digital PH Meter(Ajanta) - Digital pH Meter Technical Specifications (Table Model are Touch Button Calibrations) Model 501 Deluxe pH Meter 502 Digital pH Meter 503 Portable Model Display 3 1/2 digit LED Range pH 0 to 14.00 mV 0 to + 1999 Resolution pH 0.01 mV 1 - Accuracy pH +0.01 mV +1 - Temperature Auto 0 to 100d - - Compensation Manual 0 to 100d Slope Correction 80 to 120% Power 230V + 10% 1 x 9V Battery Dimensions 76 x 275 x 175 Accessories: • Combination pH Electrode, Buffer Tablets 4pH & 7pH, Operation Manual, Electrode Stand, Dustcover.  | 2 | 29500 | 59000 |
| 12. | Digital Conductivity Meter(Ajanta) - Technical Specification Model Table Model (ST-213) Portable Model (ST-214) Display 3 1/2 Digit LED 3 1/2 Digit LCD Range 0-200 $\mu$ S 0-2,0-20,0-200 & 0-1000mS 0-1999 $\mu$ S 0-19.99 mS Temperature Compensation Manual 0-50oC - Cell Constant Adjustment Adjustable Adjustable Conductivity Cell Platinum DIP Type Platinum DIP Type Resolution 0.1 $\mu$ S 0.1 $\mu$ S Accuracy +1% FS +1 Digit +1% FS +1 Digit Power 230v + 10% ac, 50 Hz 1 x 9V Battery Dimensions 250mmX185mmX85mm 165 x 85 x 28 mm Weight 2 kg. (Approx.) 0.8 kg. (Approx.) Accessories Conductivity Cell, Operation Manual, . | 2 | 16350 | 32700 |
| 13. | Digital T.D.S. Meter(Ajanta) - Digital table Model TDS Meter, 3oe Digit LED display with facility for Digital Cell constant adjustment along with TDS C000ell. 5 ranges, 0-1000 ppt Mhos/cm. Cell Constant Adjustment is adjustable. Conductivity Cell is Platinum DIP, Measuring Frequency is 1000HZ, Supplied complete with cord & plug to work on Single Phase 220 / 230 volts A.C. supply.   | 2 | 16700 | 33400 |
| 14. | Water and soil analysis kit(Ajanta) - We are engaged in a field of supplying excellent quality of Digital Water & Soil Analysis Kit to our valued clients across the world. We are manufacturing this product by using very recently updated technology and supreme quality raw material. This is a portable instrument system for analyzing the features of soil and water  | 1 | 33500 | 33500 |



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|     | compositions. The key feature of this kit is its durable nature, compact design, and precise functionality. We are supplying this product at a very marketable rate. Details : Technical Specification PH Range 0 to 14pH - - Temp. Comp. 0oC (Manual) - - Resolution 0.01pH - - Accuracy +0.01 pH - - Conductivity Range 1 5 - Cell Constant 0.4 - 1.5 Adj - - Resolution 0.1 Micro mhos - - Accuracy + 0.5% FS - - Temperature Range 0o - 100oC - - Resolution 0.1oC - - Accuracy +0.1oC + digit - T.D.S. Range 1 5 - Cell Constant 0.4 - 1.5 Adj - - Resolution 0.1ppm - - Accuracy -5% FSD - - D.O. Range 0-20 ppm - N.A. Temp. Comp. 0.1 ppm - N.A. Resolution +0.3 ppm - N.A. Accuracy 5o to 50o (Manual) - N.A. Turbidity Range 0-1000 NTU/JTU - N.A. Resolution 1 NTU/JTU - N.A. Accessories 1) pH Electrode 2) Standard Solution 7.0 pH & 4.0 pH 3) ORP Electrode (On Demand) 4) Temperature Probe 5) Conductivity/TDS/Cell 6) DO Probe test tube 7) Instruction Manual  |   |       |        |
| 15. | Water Bath (Ajanta) - We are one of the widely acclaimed exporters, manufacturers and suppliers of Thermostatic Water Bath. The offered thermostatic water bath is specially designed for the testing of materials, on specified environmental conditions.  | 2 | 12500 | 25000  |
| 16. | Serological water bath(Ajanta) - Serological water bath, product description, serological water bath(thermostatic water bath), temperature range 5°C above from ambient temperature to 80° c. Thermostatic control with accuracy of $\pm 0.5^\circ \text{C}$ to $1^\circ \text{C}$ . Double walled, inside stainless steel and outside mild steel painted in epoxy powder coating. Bath consists of two pilot lamps. Temperature control knob and on off switch. To work on 220 230 volts a.c. Supplied with or without stirring arrangement, without racks and thermometer. Lid of water bath is made of stainless steel sheet, size inside chamber (stainless steel) l x w x h:300 x 175 x 175 mm , capacity (approx.):12 litre.  | 2 | 12500 | 25000  |
| 17. | Digital Electronic Balance (Ajanta) - 500g 0.1 accuracy Digital Balance Pocket Weighing Jewellery Electronic LCD Scale Gram Description: * This electronic pocket scale is perfect for any small item that you can think of. * It has a "tare" feature, which can set the weight to "zero" after putting a pan on the scale, so you can weight your valuable thing on the pan. * The flip-open cover protects the stainless steel weighing platform when the scale is not in use. * The bright LCD display makes it very easy to read in the dark. The pocket scale that you are bidding for comes in Black color. * Operation Manual is included. * Powder can be weighed accurately, but can not be put on the scale directly! Specifications: * Measurement: 500Gx0.1 * Tare Range: Tare full Capacity * Auto off: 30 seconds off * Units : g/oz/ct/ozt/dwt/gn/tl * Power: 1.5V x 2AAA battery(not including) * Scale Size: 120 x 64 x 20mm * Pan Size:50*55mm * Colour: Silver * Netweight:102g * Package Size:128*70*23mm * Weight Included Package:116g | 3 | 26750 | 80250  |
| 18. | Digital D.O. Meter (Ajanta) - Digital Dissolved Oxygen Meter:- 3 ce digit LED display with Gold/Silver D.O. probe. (Table Model).   | 3 | 16500 | 49500  |
| 19. | Flame Photometer (Ajanta) - Microprocessor Flame Photometer - 1385 comes with flame failure detection and auto gas cut off facility. In case of power failure, the gas cuts off automatically. In case the flame goes off accidentally during work, the flame failure alarm sounds after few seconds, in models 5-Point calibration facility and non-linearity correction is provided through an automatic curve fitting software. Facility has been provided for re-standardization with a single standard, thereby, eliminating the need of the multiple standards once a calibration has been  | 2 | 62500 | 125000 |



|     |   |   |        |        |
|-----|---|---|--------|--------|
|     | performed. Auto Gas Cut off, Auto Flame Failure Detection, Direct Results in ppm and meq, Useful for Medical & Soil Testing.  |   |        |        |
| 20. | Laboratory Centrifuge (Ajanta) - It has a compact stirring device utilizing a rotating magnetic field (created by a permanent magnet) which induces variable speed stirring action. Stirring is accomplished by means of small Teflon rotor, which when placed in the liquid to be stirred is capable of rotation by magnetic field applied from below the container. Continuous Heavy duty A/C stirrer with 1/4 HP Brushless, High Torque Variable Speed Motor with Hollow Shaft & propeller of SS 316, chuck having facility of presetting & indication of speed. These Stirrers are specially designed brushless AC variable speed stirrers driven by frequency inverter to ensure reproducible speed with any load.   | 3 | 9500   | 28500  |
| 21. | Water Deionizer (Ajanta) - Deionised water system is a complete, all-in-one deionization package. Included with the unit are a pre-sediment and carbon filter, (2) 14" x 47" DI tanks come with purity lights and one final sediment filter. This system incorporates all the benefits and simplicity of deionization (DI) without the added cost, complexity, and water waste of reverse osmosis (RO).   | 1 | 42500  | 42500  |
| 22. | Vortex Shaker (Ajanta) - Vortex shaker test tube shaker fitted with neoprene rubber cup mounted eccentrically on the shaft With high speed control arrangement provided   | 1 | 18500  | 18500  |
| 23. | Rotary Shaker (Ajanta) - It has a compact stirring device utilizing a rotating magnetic field (created by a PERMANENT MAGNET) which induces variable speed stirring action. Stirring is accomplished by means of small Teflon rotor, which when placed in the liquid to be stirred is capable of rotation by magnetic field applied from below the container. Continuous Heavy duty A/C stirrer with 1/4 HP Brushless, High Torque Variable Speed Motor with Hollow Shaft & propeller of SS 316, chuck having facility of presetting & indication of speed. These Stirrers are specially designed brushless AC variable speed stirrers driven by frequency inverter to ensure reproducible speed with any load.   | 1 | 32500  | 32500  |
| 24. | Magnetic Stirrer (Ajanta) - Magnetic stirrer with hot plate, product description, we are one of the leading manufacturer and exporter of magnetic stirrer. the entire array of these products is manufactured using optimum quality material and latest techniques. Clients can avail the offered range from us at the most reasonable prices. Description:, highly polished ss top plate for optimum heat transfer, pmc motor for higher torque even at low speeds, accurate step less speed<br><br>control maintains speed stability, bushing according to din 12878 for connecting a contact thermometer, technical data: , heating temperature range, ambient -350o, speed range, 50 - 1500 rpm, heating plate material, polished stainless steel, motor rating, 9 4w, heat output, 450 w, stirrer bar length max. Output, 80 mm, dimensions of hot plate body, 180 x 180, weight of the body, 2.9 kgs. | 2 | 8500   | 17000  |
| 25. | Smart Board (Ceramic) - Interactive whiteboard Device converts whiteboard with projector to smart board, you can interactive with the image using stylus. Suitable for Classroom and office. For presentation and Interactive Trainings- Ingress .  | 1 | 165000 | 165000 |
| 26. | LCD Projector (Hitachi) - From the classroom to the conference room, Hitachi's CP-X3042WN LCD projector combines superior image clarity, high quality value, and long-life reliability. Bright,   | 1 | 65000  | 65000  |



|     |  |    |       |        |
|-----|--|----|-------|--------|
|     | vivid colours with razor-sharp text and bold graphics will truly enhance any lesson or meeting and make it more memorable. For greater installation convenience, the CP-X3042WN has a cloning function which enables you to copy configuration settings from one projector to others of the same model via USB memory. The CP-X3042WN also includes our iOS application Projector Quick Connection App which offers simple control options including sending photo and document files and web site contents to the projector. Plus, Hitachi's Intelligent Eco Mode with Image Care combines optimal picture performance with maximum energy savings for a lower total cost of ownership. For added peace of mind, Hitachi's CP-X3042WN is also backed by a generous warranty and our world-class service and support programs. |    |       |        |
| 27. | Mixture Grander (Singer)   | 1  | 8500  | 8500   |
| 28. | Microwave Oven (IFB)   | 1  | 35000 | 35000  |
| 29. | Student Microscope (Olympus)- Metal Construction Movable Condenser Eyepiece: 10x, 15x Objective: 10x, 45x Total Magnification: 100x to 600x Separate Coarse Fine Focusing Knobs Plano concave mirror on gimble mount for illumination Fixed abbe type condenser with iris diaphragm 2 Prepared Slides, 50 Plane Slides Gives Clear Images Easy To Operate Ideal for School & Kids.   | 6  | 18500 | 111000 |
| 30. | Haemometer   | 12 | 1850  | 22200  |
| 31. | Haemocytometer   | 12 | 1850  | 22200  |
| 32. | Slide Projector (Ajanta)- Versatile design; rigid construction halogen lamp 24v-150w; noiseless cooling system; slide carrier for 2 slides; rigid construction; height adjustable; manual focusing; dimension : 9000 x 6000 MM   | 1  | 42500 | 42500  |
| 33. | Bacteriological Incubator (Ajanta)   | 1  | 65000 | 65000  |
| 34. | Muffle Furnace- Muffle furnace 9 inch x 4 inch x 4 inch, product description, high temperature furnace 900°C (industrial), the furnace is insulated with ceramic fibre blanket of high density for better insulation. The furnace can run continuously at 900°C, trouble free. The furnace is quick heating type, light in weight, table mounting type, compact, elegant in design. Outer painted in epoxy powder coating. The hinged type swing door insulated with ceramic fibre to avoid heat losses from the door. The furnace is fitted with to avoid over heating for long life and trouble free working. The panel is fitted at the top of the furnace, muffle furnace 9 inch x 4 inch x 4 inch.  | 1  | 22500 | 22500  |
| 35. | Rocking Microtome (Ajanta)- It is designed for sectioning comparatively soft, wax-embedded tissues with a thickness range of 2mm to 24mm, in steps of 2mm. Calibrated in 2 micron divisions, the section cutting thickness can be set easily and quickly by a single control. It is recommended for elementary biology & pathology students. The rocking microtome is an extremely reliable instrument comprising of three moving parts. The lead screw mechanism incorporates quality precision engineering and the cutting stroke is controlled by a single control lever which minimizes the operator skill required.   | 1  | 24500 | 24500  |



|               |   |   |         |       |
|---------------|---|---|---------|-------|
| 36.           | Laptop 6th Generation (Lenovo)- 4 GB RAM, 1 TB HDD, I5 Processors, 15.6" Screen | 1 | 55000   | 55000 |
| Grand Total = |   |   | 2110750 |       |

Amount (In words Rs.): - Twenty One Lakh Ten Thousand Seven Hundred Fifty Only.

### Sports & Athletics

| Sl. No. | Name of Items  | Qty. | Rate   | Total Amount | Justification   |
|---------|--|------|--------|--------------|---|
| 1.      | Multi Gym four station- It has created niche in the field of offering Fitness Multi Gym four Station to the users. This product is made by using optimum quality raw material and modern machines keeping in mind the minutes details given by the users in mind with advanced technology. Fitness Multi Gym four Station is available in a number of colors and sizes as per requirement and need of users. | 1    | 285000 | 285000       | It is very useful for promoting extracurricular activities among UG Students of the college for the overall development of their personality. |
| 2.      | Multi Gym single station   | 6    | 165000 | 990000       |   |
| 3.      | Jogger Electronic  | 6    | 65000  | 390000       |   |
| 4.      | Exercising Cycle Electronic  | 6    | 18500  | 111000       |   |
| 5.      | Abpro (Abkrunch)   | 6    | 18500  | 111000       |   |
| 6.      | Kho- Kho Post  | 6    | 6500   | 39000        |   |
| 7.      | High Jump Stand  | 3    | 6500   | 19500        |   |
| 8.      | Chest Expender   | 12   | 1250   | 15000        |   |
| 9.      | Carom Board  | 6    | 3500   | 21000        |   |
| 10.     | Carom men  | 6    | 250    | 1500         |   |
| 11.     | Chess  | 12   | 250    | 3000         |   |
| 12.     | Javelin  | 12   | 650    | 7800         |   |
| 13.     | Shot Put Ladies  | 12   | 1250   | 15000        |   |
| 14.     | Shot Put Gents   | 12   | 1500   | 18000        |   |
| 15.     | Discuss 1Kg  | 12   | 350    | 4200         |   |
| 16.     | Discuss 2Kg  | 12   | 550    | 6600         |   |
| 17.     | Weight Lifting Rod- 1.5 feet   | 24   | 1650   | 39600        |   |
| 18.     | Weight Lifting Rod - 3 feet  | 12   | 1900   | 22800        |   |
| 19.     | Weight Lifting Rod- 5 feet   | 6    | 2500   | 15000        |   |
| 20.     | Weight Lifting Plate   | 1000 | 250    | 250000       |   |
| 21.     | Ring Ball  | 12   | 150    | 1800         |   |



|     |                          |    |        |        |
|-----|--------------------------|----|--------|--------|
| 22. | Foot Ball Post           | 1  | 45000  | 45000  |
| 23. | Foot Ball                | 6  | 1250   | 7500   |
| 24. | Foot Ball Net            | 2  | 4500   | 9000   |
| 25. | Foot Ball Boot           | 12 | 2850   | 34200  |
| 26. | Volley Ball Post         | 1  | 12500  | 12500  |
| 27. | Volley Ball              | 6  | 1250   | 7500   |
| 28. | Volley Ball Net          | 1  | 1850   | 1850   |
| 29. | Badminton Post           | 1  | 9500   | 9500   |
| 30. | Badminton Racket         | 12 | 950    | 11400  |
| 31. | Shuttlecock              | 12 | 450    | 5400   |
| 32. | Badminton Net            | 1  | 350    | 350    |
| 33. | Basket Ball Post & Board | 1  | 125000 | 125000 |
| 34. | Basket Ball              | 6  | 2850   | 17100  |
| 35. | Basket Ball Net          | 1  | 350    | 350    |
| 36. | Weight Machine           | 2  | 8500   | 17000  |
| 37. | Cricket Bat              | 12 | 6500   | 78000  |
| 38. | Cricket Ball             | 30 | 250    | 7500   |
| 39. | Cricket Batting Pad      | 12 | 1850   | 22200  |
| 40. | Cricket Batting Gloves   | 12 | 1250   | 15000  |
| 41. | Wicket Keeping Pad       | 6  | 2250   | 13500  |
| 42. | Wicket Keeping Gloves    | 6  | 1500   | 9000   |
| 43. | Helmet                   | 12 | 2250   | 27000  |
| 44. | Stumps with bails        | 12 | 1650   | 19800  |
| 45. | Elbow Guard              | 12 | 650    | 7800   |
| 46. | Thai Guard               | 12 | 850    | 10200  |
| 47. | Cricket Practice Net     | 1  | 12500  | 12500  |
| 48. | Cricket Mat              | 1  | 45000  | 45000  |

|               |                                       |    |         |       |
|---------------|---------------------------------------|----|---------|-------|
| 49.           | Cricket Abdominal Guard               | 12 | 950     | 11400 |
| 50.           | Sports Dress                          | 15 | 1850    | 27750 |
| 51.           | Sports Shoe & shocks                  | 15 | 1850    | 27750 |
| 52.           | Track Suit                            | 24 | 3500    | 84000 |
| 53.           | Hockey Sticks                         | 12 | 1850    | 22200 |
| 54.           | Hockey Ball                           | 24 | 350     | 8400  |
| 55.           | Hockey Gloves                         | 12 | 1250    | 15000 |
| 56.           | Hockey Shin Guard                     | 12 | 950     | 11400 |
| 57.           | Hockey Helmet                         | 12 | 1650    | 19800 |
| 58.           | Hockey Goal Post                      | 1  | 12500   | 12500 |
| 59.           | T. T. Table                           | 2  | 35000   | 70000 |
| 60.           | T.T. Bat                              | 12 | 1650    | 19800 |
| 61.           | T.T. Ball                             | 24 | 150     | 3600  |
| 62.           | Boxing Gloves                         | 6  | 1250    | 7500  |
| 63.           | Boxing Bag                            | 6  | 4500    | 27000 |
| 64.           | Mouth Guard                           | 6  | 1250    | 7500  |
| 65.           | Thai/ Kick Boxing Ankle support guard | 12 | 2250    | 27000 |
| 66.           | Shin Guard                            | 12 | 950     | 11400 |
| 67.           | Stop Watch                            | 6  | 950     | 5700  |
| 68.           | Bulwarker                             | 12 | 4500    | 54000 |
| 69.           | LED SMART TV 43"(Panasonic)           | 1  | 85000   | 85000 |
| 70.           | Yoga Mat                              | 50 | 850     | 42500 |
| 71.           | Yoga Dress                            | 50 | 1250    | 62500 |
| Grand Total = |                                       |    | 3601650 |       |

Amount (In words Rs.): - Thirty Six Lakh Sixteen Hundred Fifty Only.