



Accounts Bms for

P.G. DEPARTMENT OF ZOOLOGY

Govt. Auto.College,Angul 759143

(List of Items)

P-1/8

o. Name of the Products with Specifications: -	Price /Unit(Including GST and other taxes with installation and delivery charges)
<p>1 Compound Monocular Microscope: All metal rugged Stand with individual Coarse & Fine Focus drive with focus stop, Maintenance Free ECOLED illumination including Battery backup with regulating intensity control for 220V/50Hz, movable Achromatic Condenser 0.90 NA with aperture irisdiaphragm, 115 X 125 mm double plate Mechanical Stage with coaxial XY Drive knobs, Quadruple revolving nosepiece, Achromatic objectives 4x, 10x,40x (spring), 100x (spring, Oil imm.), 360° rotatable 45°inclined Monocular head with Widefield Eyepiece10x/18 lockable, dust cover complete set.</p>	
<p>2 Dissecting Microscope: Heavy type Round Base Smooth Rack & Pinion Focusing, Brass Knobs & Brass eye Piece Achromatic 10 x & 20x.</p>	
<p>3 Micro controller-based pH Meter with Temperature probe & combined pH Electrode type CL 51B. Features: ❖ Microcontroller based with Automatic and Manual Temperature Compensation ❖ Programmable Calibration upto 3 Points for pH ❖ Measures directly pH, EMF and Temperature one at a time. ❖ Accurate and highly stable. ❖ Elegantly Styled, Table Top, Small Laboratory version. ❖ User friendly with only two operation keys. pH Range: 0 to 14pH, Readability: 0.01, Accuracy: ±0.01, Repeatability: ±0.01. EMV in mV: Range: ±1999, Readability: 1, Accuracy: ±1%. Temperature: 0-100°C, Resolution: 0.1°C, Accuracy: ±0.5°C Display: 3½ digit 7 segment LED of12.7mm height withPolarity Indication</p>	
<p>4 Burette: Capacity-50ml. Borosilicate Glass. With stand.</p>	
<p>5 DIGITAL BALANCE: German Technology. TECHNICAL DATA Weighing capacity [Max] 200 g Readability [d] 0,01 g Linearity ± 0,02 g Reproducibility 0,01 g Stabilization time 2,5 s Adjustment options Adjusting with external weight Recommended adjusting weight 200 g (M1) Ambient temperature 5 °C – 35 °C Dimensions weighing surface (Ø) 105 mm Material housing plastic Dimension housing (W×D×H) 170×244×39 mm Material weighing plate plastic Net weight approx. 0,50 kg Construction type of the scale Single-range balance Batteries: Included.</p>	
<p>5 Senior Rotary Microtome: Feed Adjustment: 1-50 Microns Total feed excursion: 28mm. Complete with 3 object holders, 1 knife 120mm. oil can, raxine cover in cardboard box.</p>	

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No.	Name of the Products with Specifications: -	Price /Unit(Including GST and other taxes with installation and delivery charges)
7	Digital water bath machine:No. of holes 6 Lid concentric rings 75mm dia. Temperature ambient +5 to 100 Deg C. Temp. Controller: Microprocessor based PID Controller. Display: LED display. Inner MOC: SS 304, Construction: Inner chamber made of S.S.304 and outer chamber made of Powder coated GI sheet, Insulation: glass wool, Power supply: 220 Volts 50Hz.	
8	Sphygmomanometer Digital.	
9	Haemoglobinometer: Complete Set.	
10	Haemocytometer: Complete Set.	

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11	<p>HOT AIR OVEN: <u>TECHNICAL SPECIFICATIONS:</u></p> <ul style="list-style-type: none"> • Chamber Volume: 50 Ltrs (Approx.) • Controller: Microprocessor PID controller (with timing function). • Material of construction: Polished stainless-steel chamber with Uniform distribution of air temperature Convection. • Comes with Double layer glass door, larger viewing window. • Temperature range: RT+10°C-300°C • Temperature accuracy: ±1°C • Display resolution: 1°C • Removable Shelves (Nos) : 2-3 Nos. SS removable shelves • Power supply: 220 V, Single phase AC supply with 50Hz frequency, • Air Circulation: Motorized Blower for forced air circulation to maintain uniform temperature and stability. • Temperature controller : Microprocessor based PID Programmable with Auto Tuning, delayed start/stop and calibration feature • Insulation: High grade Glass wool insulation • Type of Display: LED • Power supply: 220 V, 50 Hz Single Phase • Door will be insulated & fitted with heavy hinges & comes with locking facility. 	
2	<p>Vertical Gel Electrophoresis Apparatus with Power supply.</p> <ul style="list-style-type: none"> • The bottom of the gel-casting frame is supported by very flat glass to prevent the glass plate from sliding • The press-lock mechanism works better. The contrasting design clearly reflects the making process of separated gel. The press-to-lock design avoids the gel leakage caused by aging or poor function of traditional spring-pressure. • The cam gel-making frame ensures accurate aligning. • Including 2 independent gel-cast frame and casting 1-4 gels simultaneously. • Easy to read the gauged glass plate and clearly marked comb. • Platinum electrode: φ0.25mm. • Precast gels:-precast gels, Hand cast gels Cast using spacer plates <p>Gel thickness 1.0mm, 0.75mm, 1.5mm, Glass plates Short glass plate: 100×73mm; Spacer glass plate: 100×83mm, Gel size: 83×73mm, Combs: 1.0mm: 10 and 15 wells 0.75mm: 10 and 15 wells, 1.5mm: 10 and 15 wells.</p> <p><u>BRPS2003 Digital Power Supply</u> Output range: 10–300 V, fully adjustable in 1 V steps, 1-200 mA, fully adjustable in 1 mA steps Type of output: Constant voltage or constant current Output terminals: 2 pair recessed banana jacks in parallel Timer: 1 min–999 min , fully adjustable Start /Stop Function: Yes, Display: 3-digit LED Operating conditions: 0–40°C, 0–90% humidity in the absence of condensation Safety features: No-load detection, sudden load change detection, overload/short-circuit detection, Input protection: Fuse on both hot and neutral. Input power (actual): 220 VAC/50hz</p>	


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No.	Name of the Products with Specifications: -	Price /Unit(Including GST and other taxes with installation and delivery charges)
13	<p>Egg incubator: Capacity-100.</p> <p>Technical Specifications:</p> <p>The exterior fabricated out of thick mild steel duly finished with powder coating. Interior made of highly polished stainless steel.</p> <p>The gap between the walls is fitted with special grade glass wool.</p> <p>High quality Kanthal heating wire elements provided for heating.</p> <p>Force air circulation fans are provided for circulation to maintain equal temperature throughout the chamber. Temperature from 30° C to 70° C ± 1° C controlled by digital temperature thermostat.</p> <p>The unit is provided with automatic tilting device, so to tilt the tray holding the eggs. Tray is made of thick aluminium sheet. Equipment suitable to be working on 220V AC 50Hz single phase.</p> <ul style="list-style-type: none"> • Microprocessor Digital PID Temperature indicator cum controller with temperature accuracy ± 0.5° c. • Fitted with automatic tilting device with geared dc motor to tilt the tray holding eggs. • Fitted with microprocessor based digital 7 days cyclic timer. • Fitted with humidity arrangement in the chamber 	


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Sl. No.	Name of the Products with Specifications: -	Price /Unit(Including GST and other taxes with installation and delivery charges)																										
14	<p>UV VISIBLE SPECTROPHOTOMETER: Technical Parameters: 7" TFT Touch Colour Graphical Display. Measurement Modes: Photometric, Spectrum, Time Scan, Concentration Automatic calibration and programmable wavelength for lamp change over. Can work as a stand-alone instrument or as a PC-controlled instrument through via USB</p> <p>SPECTRAL</p> <table border="0"> <tr> <td>Range</td> <td>190 to 1100 nm</td> </tr> <tr> <td>Bandwidth</td> <td>1 or 1.8 nm</td> </tr> <tr> <td>Readability</td> <td>0.1 nm</td> </tr> <tr> <td>Accuracy</td> <td>± 0.3 nm</td> </tr> <tr> <td>Repeatability</td> <td>± 0.2 nm</td> </tr> </table> <p>PHOTOMETRIC</p> <table border="0"> <tr> <td>System</td> <td>Double beam optics</td> </tr> <tr> <td>Range</td> <td>± 3.5 Abs</td> </tr> <tr> <td>Accuracy:</td> <td>± 0.005 Abs at 1.0 Abs ± 0.010 Abs at 1.5 Abs</td> </tr> <tr> <td>Repeatability</td> <td>± 0.002 Abs at 1.0 Abs</td> </tr> <tr> <td>Stability (Baseline)</td> <td>0.003 Abs/hr. after 2-hour warm-up</td> </tr> <tr> <td>Stray Light</td> <td><0.05% T at 220 nm with NaI 10g/L</td> </tr> <tr> <td>Readability</td> <td>%T 0.01</td> </tr> <tr> <td>Abs</td> <td>0.0001</td> </tr> </table> <p>LIGHT SOURCE: Pre aligned Deuterium Lamp (D₂) & Tungsten (W) Halogen Lamp DETECTOR: Silicon Photo Diode or PMT MONOCHROMATOR: Concave holographic grating with 1200 lines/mm STORAGE; 128GB, PORTS: 3 – USB Ports, TCP/IP. Ethernet, WIFI. SAMPLE ATTACHMENT: Standard: Fixed 10mm path length Holders for Reference and Sample. Optional: Printer to print the data sheet.</p>	Range	190 to 1100 nm	Bandwidth	1 or 1.8 nm	Readability	0.1 nm	Accuracy	± 0.3 nm	Repeatability	± 0.2 nm	System	Double beam optics	Range	± 3.5 Abs	Accuracy:	± 0.005 Abs at 1.0 Abs ± 0.010 Abs at 1.5 Abs	Repeatability	± 0.002 Abs at 1.0 Abs	Stability (Baseline)	0.003 Abs/hr. after 2-hour warm-up	Stray Light	<0.05% T at 220 nm with NaI 10g/L	Readability	%T 0.01	Abs	0.0001	
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15	<p>Laboratory Centrifuge Medium-High Speed-Maximum speed 10000 Rpm. With one Rotor Head 8 x 15ml or 4 x 50ml (Angle Head). Square M S body duly powder coated. Double walled light weight ABS Plastic Injection Moulding lid. Fitted with microprocessor based 2 lines 16 characters LCD Panel for countdown timer 1-59 min-digital rpm-RCF meter and programmable speed controller from 2000-10000 rpm. On interval of 100 rpm.</p>																											
16	<p>Monocular Microscope: All metal rugged Stand with individual Coarse & Fine Focus drive with focus stop, Maintenance Free ECO LED illumination including Battery backup with regulating intensity control for 220V/50Hz, Achromatic Condenser 0.65 NA with aperture iris diaphragm, 110 X 120 mm stage with clips, quadruple revolving nosepiece, Achromatic objectives 4x, 10x, 40x (spring), 360° rotatable 45° inclined Monocular head with Widefield Eyepiece 10x/18 lockable, dust cover complete set.</p>																											


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Sl. No.	Name of the Products with Specifications: -	Price /Unit(Including GST and other taxes with installation and delivery charges)
17	<p>DOUBLE DISTILLATION UNIT: Distillation Unit, Double Stage, with Quartz Boiler. Quartz Condenser & Built-in Quartz Heater, Vertical Panel Mounted. With Auto Cut-off System with Audio Alarm for Double Distillation Unit.</p> <p>Features & Specifications:</p> <ul style="list-style-type: none"> ❖ Double Stage ❖ Output: 1.5Ltr./Hr. ❖ Electrical Requirement: 230-240 VAC, singlephase, ❖ Biological Activity: Pyrogen Free ❖ pH: 6.0-7.0 ❖ Conductivity: 0.8-1.2 ❖ Distillate Temperature: 75°±5°c ❖ Vertical Panel Mounted ❖ Water softener for Boiler feed. 	


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Sl. No.	Name of the Products with Specifications: -	Price /Unit(Including GST and other taxes with installation and delivery charges)
18	<p>Digital Vertical Autoclave: TECHNICAL SPECIFICATIONS:</p> <ul style="list-style-type: none"> ❖ Outer body, Inner chamber, Perforated basket and the Lid (Material of Construction): Stainless steel 304Grade ❖ Locking type: Wing Nut closing arrangement ❖ Inner chamber size (Dia x Height) 250x450 mm with Capacity of 22 Ltrs (Approx.) ❖ Heating load: 1.5 KW ❖ Comes with: Automatic low water level cut of device, Pressure Gauge with proper gasketing & with withpadel lifting device ❖ Heating elements: Immersion type Heaters ❖ Temperature Controlled by: Microprocessor based Digital Temperature Controller. ❖ Unit is fitted with: Silicon Gasket to ensure tight sealing. ❖ Comes with Pedal Lifting device for easy opening of the lid. ❖ Max. Pressure: 15-20 psi +/- 3 psi ❖ Inner Chamber Temp: 121 Deg C ❖ Operating Voltage: 230 Volts 1 phase <p>Standard Accessories supplied along with unit:</p> <ul style="list-style-type: none"> ❖ S S Basket ❖ Pressure Gauge ❖ Digital Temp Controller ❖ Low Water Cut Off Switch ❖ Steam release Cock ❖ Spring loaded safety valve 	
19	<p>ELISA plate reader: Light Source: 6V, 10W tungsten halogen lamp, it can work over 5000 hours Wavelength Range: 400~750 nm Optical Filters: 4 standard filters: 405, 450, 492, 630 nm, maximum 8 filters Measurement Methods: single wavelength, dual wavelength, two points method, dynamic assay, multiple wavelengths Blank Ways: single well blank, multiple wells blank, rows and columns blank Calculation Method: absorbance, single point calibration, linear regression, quadratic curve, four parameters equation Measurement Speed: single wavelength < 3 seconds/96 wells, dual wavelength < 9 seconds/96 wells Measurement Range: 0.0000-4.5000Abs Resolution: 0.0001A Linearity: ± 0.5% or < 0.025 A Repeatability Difference: < 0.1% or ± 0.0025A Rows and Columns Difference: < 0.01 A Display: built-in XP system, 8" touch-screen, shows whole microplate results and calibration curve Save Information: more than 300 test programs, results of 50 pieces of 96 well, 100000 test results Interface: 4 USB two-way communication interface, 1 RS232, 1 VGA, 1 Keyboard connector, 1 mouse connector Environment: power supply 12V DC (100V-240V wide input voltage range); temperature: 5□-40□ External Dimension: 52.5cm(20.7 in) × 42.0cm(16.5 in) × 26.0cm(10.20 in) Net Weight: 9kg</p>	

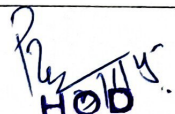

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Sl. No.	Name of the Products with Specifications: -	Price /Unit(Including GST and other taxes with installation and delivery charges)
20	<p>Micro controller-based pH Meter with Temperature probe & combined pH Electrode type CL 51B.</p> <ul style="list-style-type: none"> ❖ Microcontroller based with Automatic and Manual Temperature Compensation ❖ Programmable Calibration upto 3 Points for pH ❖ Measures directly pH, EMF and Temperature one at a time Accurate and highly stable. ❖ Elegantly Styled, Table Top, Small Laboratory version. ❖ User friendly with only two operation keys. ❖ pH Range: 0 to 14pH, Readability: 0.01, Accuracy: ± 0.01, Repeatability: ± 0.01. ❖ EMV in mV: Range: ± 1999, Readability: 1, Accuracy: $\pm 1\%$. ❖ Temperature: 0-100°C, Resolution: 0.1°C, Accuracy: $\pm 0.5^\circ\text{C}$ ❖ Display: 3½ digit 7 segment LED of 12.7mm height with Polarity Indication 	

Sl. No.	Name of the Products with Specifications: -	Price /Unit(Including GST and other taxes with installation and delivery charges)
10.	Room Thermo Regulator with power supplies: Capacity 1.5ton	
21	Graduated Pipette: Set of 0.1, 0.5, 1, 2, 5 & 10ml.	
22	Test tube: size-15 x 125mm. Borosilicate Glass.Pkt of 100.	
23	Test tube: size-25 x 150mm. Borosilicate Glass.Pkt of 100.	
24	Test tube Stand	
25	Permanent Slide: Common.	
26	Plain Slide: Set of 50.	
27	Cover Slip: Round.	
28	Museum Specimen: Common.	
29	Slide Cabinet: Capacity-1000 Slides. 3" x 1" Slides, 3 sides sunmica.	
30	Rabbit (Domestic) Bone Disarticulated.	
31	Bushnell Fusion 1-Mile ARC Binocular Laser Rangefinder with Matrix Display	


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