

BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH

A NCTE and NAAC accredited (B⁺⁺) College

5/3, MAHATMA GANDHI ROAD, HOWRAH – 711 101.


Ref. No

**Sealed quotations are invited for equipments and consumables
within 7th of January 2025 [Under DBT Star College Program]**

DEPARTMENT OF CHEMISTRY

Non-recurring/Equipments

Sl. No.	Item name	Specification	Quantity
1.	High-capacity Cooling centrifuge	Compact bench top high-capacity cooling centrifuge with 16x15 ml swing out head with glass tube graduated and survo control voltage stabilizer. CM-8 plus (Remi)	1
2.	Digital weighing balance	Weighing balance digital model No. ME 203 capacity 200 gram readability 0.001 gm (Melter)	1
3.	Voltage stabilizer	Servo control voltage stabilizer for above mentioned equipment	1
4.	Electrical thermostatic water bath	Electrical thermostatic water bath six holes, Double wall, inner made of S.S., outer M. S. powder coated	1
5.	Turbidity meter	Digital Nephelo-Turbidity meter (Systronics)	1
6.	Filtration system with pump	Filtration system "Millipore" type with pump + vacuum trap + heavy wall pressure tube + 300 ml glass funnel + filter support base with sintered glass filter 47 mm + filtering flask 100 ml + Aluminium clamp for 47 mm (Borosil)	1
7.	Distillation water setup	Double distillation unit 1.5 ltr/hr (Borosil)	1
8.	Ageing oven	Hot air oven digital control inner made of S.S. and outer M.S. powder coated. Size – 18" x 18" x 18"	1
9.	TDS meter	Digital TDS meter (0 – 2000 ppm)	1
10.	Magnetic hot plate	Magnetic stirrer with hot plate 2 MLH	1


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Department of Mathematics

Non-recurring

Sl.No.	Item Name	Specification	Quantity
1	Desktop Computer	AMD 6-Core/12-thread Processor with Graphics, Windows 11 Home, 1TB M.2 PCIE NVMe SSD, Ms Office 2021	12

Recurring

Sl.	Item Name	Specification	Quantity
1	Office 365	Office 365	3
2	MATLAB	Academic Perpetual License	1
2	USB Flash Drives OTG	SDDDC3-128G-I35AG, Mobile Dual Drive, 400 Mbs or higher, 128 GB OTG Drive, Type A to Type C	3
3	External Hard Disk	5TB, with Password Portable Storage, USB 3.0 Cable, Type C	1
4	LCD Writing Tablet	12-inch e-writing pad for interactive teaching	4
5	Scientific Calculators	Casio fx-991EX or equivalent	3
6	Printer Cartridges	Hp 1020+	4
7	Printer Toner	Hp 1020+	2
8	Premium Notebooks	A4 size, 200 pages, ruled	60
9	Mathematical Models (3D)	Polyhedra sets, conic sections, calculus models for demonstration	2 sets
10	Graph Plotting Tools	Reusable laminated grid sheets (50 pieces), plastic rulers, and dry-erase or magnetic graphing boards	2 sets
11	Geometry Tools	Large Scale metal compasses, Protractors, rulers	2 sets
12	Printer Paper	A4 size, 90 GSM	10 reams
13	Printer Paper	A4 size, 120 GSM	10 reams
14	Books and Journals	As and when required	-


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Ref. No

Department of Microbiology

Non recurring

Instrument	specification	Quantity
1. Autoclave	size 14"x12" low water cut adjustable pressure 10- 20 psi with silicon gasket water chamber indicator. DOUBLE HEATER	2DD
2. UV transilluminator	ECX-F20.M, 6X8W-312nm Tube, Power-90W	1
3. Refrigerator	1. double door 240 l	1
4. Weighing balance	210x340x325 mm MG-MICROGRAM	1
5. Cold centrifuge	Refrigerated centrifuge high speed, C24 Plus-LOW VOLUME HIGH SPEED TABLE TOP COOLING CENTRIFUGE MAX 20000 RPM/37570 RCF, LED display without rotor heads and accessories (Recommended voltage stabilizer VS-03). COMPULSORY optional rotor head for above R-244M complete with polypropylene tubes (capacity 12x15 ml) R-248M polypropylene tubes (capacity 24x1.5 ml) DISPLAY LED, Dimension (775x575x475), lowest temp -8°C.	1
6. Binocular microscope	Objective lens (Achromat) (4X, 10X, 40X,100X), Eyepiece: 10x (FN 20mm) paired eyepiece with eyeguards, illuminator LED. Viewing body: binocular	2
7. Orbital shaker	500 ml x 30 piece with digital RPM and timer (220-240V) with clamp, speed- 50-300 RPM.	1
8. Electrotransfer apparatus western blot	Western blot teaching kit (5 expts) Power supply: output DC voltage: 300V, Variable, output current: 100mA, Variable 4 mm socket	1
9. Laminar air flow	Air flow velocity 80-99 spm, Hepafilter 0.3µm, Internal dimension: 1200x600x600 mm (LXDxH), No of UV tube-1, work table- stainless steel, power supply- 220-230V AC, 15/16 hz POWER SUPPLY, MOTOR AND BLOWER 1-2	1


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Department of Physics

Non-recurring Equipments

Sl. No.	Item Name	Specification	Quantity
1	REGULATED POWER SUPPLY	MAKE- APLAB MODEL NO-LQ6324T. laboratory bench unit. Fully protected against overload and short circuit. Three independent outputs electrically isolated from each other. 5V/5A with over voltage crowbar protection for digital ICs. Electrically floating outputs up to 500V DC w.r.t. ground. Compact modular construction. Precise regulation, low ripple and noise for both constant voltage and constant current operation. Quality components and conservating ratings for high reliability and long life.	3
2	LUX METER		2
3	DSO	MODL NO- GDS-1202B, MAKE- GW INSTECH bit : 1mV~10V/div AC, DC, GND ±3% Normal & Invert 300Vrms, CAT I (300Vrms CAT II with GTP-070B- 4/100B-4, 200B-4 10:1 probe) 1mV/div : ±1.25V ; 2mV/div ~ 100mV/div : ±2.5V ; 200mV/div ~ 10V/div : ±125V TRIGGER Source Trigger Mode Trigger Type CH1, CH2, CH3*, CH4*, Line, EXT** ; *four channel models only. ; **two channel models only Auto (supports Roll Mode for 100 ms/div and slower), Normal, Single Sequence Edge, Pulse Width, Video, Pulse Runt, Rise & Fall, Timeout, Alternate, Event-Delay(1~65535 events), Time-Delay(Duration, 4nS~10S) Sensitivity 1div Holdoff range 4ns to 10s Coupling AC, DC, LF rej., Hf rej., Noise rej. EXTERNAL TRIGGER Range Sensitivity Input Impedance ±2.5V DC ~ 100MHz Approx. 100mV ; 100MHz ~ 200MHz Approx. 150mV 1MΩ ±3%~16pF HORIZONTAL Time base Range ROLL	3


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		<p>Pre-trigger Post-trigger Timebase Accuracy Real Time Sample Rate Record Length Acquisition Mode Peak Detection Average 5ns/div ~ 100s/div (1-2-5 increments) 100ms/div ~ 100s/div 10 div maximum 2,000,000 div maximum ±50 ppm over any ≥1 ms time interval 1GSa/s max. Max. 10Mpts Normal, Average, Peak Detect, Single 2nS (typical) selectable from 2 to 256 X-Y MODE X-Axis Input Y-Axis Input Phase Shift Channel 1; Channel 3*(four channel models only) Channel 2; Channel 4*(four channel models only) ±3° at 100kHz CURSORS AND MEASUREMENT Cursors Automatic Measurement Cursors Measurement Auto Counter Amplitude, Time, Gating available; Unit : Seconds(s), Hz(1/s), Phase(degree), Ration(%) 36 sets: Pk-Pk, Max, Min, Amplitude, High, Low, Mean, Cycle Mean, RMS, Cycle RMS, Area, Cycle Area, ROVShoot, FOVShoot, RPRESHoot, FPRESHoot, Frequency, Period, RiseTime, FallTime, +Width, -Width, Duty Cycle, +Pulses, -Pulses, +Edges, -Edges, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase Voltage difference between cursors (ΔV) Time ; difference between cursors (ΔT) 6 digits, range from 2Hz minimum to the rated bandwidth CONTROL PANEL FUNCTION Autoset Single-button, automatic setup of all channels for vertical, horizontal and trigger systems, with undo Autoset Save Setup 20set Save Waveform 24set DISPLAY TFT LCD Type Display Resolution Interpolation Waveform Display Waveform Update Rate Display Graticule Display Mode 7" TFT WVGA color display 800 horizontal × 480 vertical pixels (WVGA) Sin(x)/x Dots, vectors, variable persistence (16ms~4s), infinite persistence 50,000 waveforms per second, maximum 8 x 10 divisions YT, XY INTERFACE USB Port Ethernet Port(LAN) Go-NoGo BNC Kensington Style Lock USB 2.0 High-speed host port x1, USB High-speed 2.0 device port x1 RJ-45 connector, 10/100Mbps with HP Auto-MDIX (Only for 4 channel models.) 5V Max/10mA TTL open collector output Rear-panel security slot connects to standard kensington-style lock +, -, ×, ÷, FFT, FFTrms, User Defined Expression ; FFT: 1Mpts; FFT: Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBV RMS ; FFT Window Display : Rectangular, Hamming, Handing, or Blackman-Harris</p>	
4	SIGNAL GENERATOR	<p>MODEL NO- SFG-1013 MAKE- GW INSTECH. DDS Technology and FPGA Design Frequency Range : 0. 1Hz ~ 3MHz High Frequency Accuracy : 20ppm High Frequency Stability : 20ppm Max. Frequency Resolution : 100 mHz</p>	3


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		Low Distortion Sine Wave : -55dBc, Voltage Display (Only SFG-1013) 0. 1Hz~200 kHz	
5	FUNCTION GENERATOR	AFG-4225E MAKE- GW INSTECH <ul style="list-style-type: none">• Provide Single-channel or Dual-channel Output Single Channel : AFG-4125E/4125AE(25MHz) Dual Channel : AFG-4225E/4235/4260/4280/4210H/4225H(25/35/60/80/100/250MHz)• Built-in Sine, Square, Triangle, Ramp, Pulse, Noise, Harmonic Wave, Arbitrary Wave• Min. Resolution : 1µHz• Sampling Rate : AFG-4225H : 1.25GSa/s; AFG-4235/4260/4280/4210H : 500MSa/s; AFG-4125E/4125AE/4225E : 125MSa/s• Amplitude Resolution : AFG-4125E/4125AE/4225E : 14bits; AFG-4235/4260/4280/4210H/4225H : 16bits• Memory Length : AFG-4225E/4235/4260/4280/4210H/4225H : 10M/per channel; AFG-4125E/4125AE : 16k/per Channel• Modulation : AM,DSB-AM,FM,PM,PWM,ASK,PSK,BPSK,QPSK,FSK,FSK,4FSK,OSK,SL• Built-in Sweep, Burst, Counter Function• AFG-4125AE Built-in Power Amplifier Function• Communication Interface : AFG-4235/4260/4280/4210H/4225H Provide USB, LAN In AFG-4125E/4125AE/4225E Provide USB Interface• 8" TFT LCD Display, 800 x 480 Resolution• Multi-Touch Display : AFG-4235/4260/4280/4210H/4225H	3
6	SPECTO PHOTOMETER	<ul style="list-style-type: none">• Scanning Visible Spectrophotometer• Compact, Modular & Ergonomically designed• Stable Single Beam Optics• Fully Automatic, user friendly and menu driven.• Automatic Wavelength Calibration, Selection of Wavelength and Positioning of the sample holder.• Automatic 6 position cuvette holder for 10 mm path length cuvettes.• Measurement Modes : Photometric, Spectrum, Time Scan, Concentration• Automatic calibration• Lamp selection enables conserving the life of the lamps• Microprocessor based with Printer Interface• Data in the form of graph and table can be printed directly on to a printer.• Can work as a stand-alone instrument or as a PC-controlled instrument through via USB	1 PCS
7	MAG. STIRRER	SPINOT™ Magnetic Stirrer Hot Plate MAKE- TARSON MODEL -6020	2


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Department of Zoology

Non-recurring/Equipments

Sl. No.	Item Name	Specification	Quantity
1	Soil pH Tester Moisture Meter	Dr.meter S30 Soil Moisture Meter / PRAV Soil Tester / CALANDIS® 2 in 1 Long Deep Soil pH Moisture Meter Tester Probe inches	03
2.	Olympus 10 x 50 DPS I 10x Magnificaton Binocular	Olympus 10 x 50 DPS I 10x	02
3.	GPS Navigator	Garmin eTrex 32x Rugged Handheld	02
4.	Range finder	Nikon Forestry Pro II	01
5.	Multi parameter water quality probe	AMWM Series Multiparameter Water Quality Meter Usage/Application -pH /ORP / Conductivity / TDS / Salinity / Resistivity / Temperature; Ph Value16.000 pH ; Voltage220 V; Brand :Aczet ModelAMWM 901mV Range1999.9 mV	01
6.	Binocular Research Microscope with LED illumination	Magnus MX-21i Bino LED	02
7.	Stereozoom Microscope	MagStereo FM24 Microscopes with 20x/40x Magnification Halogen Light	03
8.	Electrophoresis Power Supply Unit	Tarsons Electrophoresis Power Supply Unit, Model Name/Number: 7090	01
9.	ELISA Plate reader	Automated Microplate ELISA Reader : Erba Make Open System ; 96 well plates Wells Type: U, V and Flat bottom wells Operating Modes Absorbance Quantitative Qualitative Semi-Quantitative Kinetic Mode ; Measurement Modes Continuous / Step; Shaking Modes Three Linear Speeds - Low, Medium and Fast, Time duration can be set; Wavelength Selection Monochromatic, Bi-Chromatic, Multi-Chromatic* (Maximum 4) ; Calculation Modes Non-linear Standard Cut-off Index Formula Column Subtraction Linear Regression Point to Point Cubic Spline Linear – Log ; Photometer Measuring system : 8-Channel optical system Lamp Source : Tungsten Halogen with Lamp saver function Wave length Range : 400 to 800 nm Standard Filters : 405 nm, 450 nm, 492 nm, 630 nm (10 nm Band Pass) (Optional two filters 578 nm, 700 nm) Dynamic Range : 0.0 ~4.0 OD Photometric accuracy : < 1% at 2.5 OD at 450 nm Repeatability : < 0.5% at 2.5 OD Photometric resolution : 0.001 OD ; Built-in Thermal Printer High resolution, 384 dots per line, thermal type with full graphics facility, and option for connecting External Parallel Printer ; Computer interfacing Software Windows Based Software Eli-LIMS with data management (Optional) PC link identification	01


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		software enables reading of Microbiology kits ; Operating Temperature 20 to 40 C ; Storage Temperature 10 to 50 C ; Humidity Max. 80% RH, non- condensing ; Power Supply 18V / 5A using external auto ranging SMPS adapter 115/ 230VAC ±10%, 50/ 60Hz.; Dimension 502 X 369 X 216mm ; Weight 7Kg	
10.	Micropipette Tarson	i) 031030 fixed 10 microlitre ii) 031070 fixed 100 microlitre iii) 031130 fixed 1000 microlitre iv) 030000 ACCUPIPETTE - Variable Volume v) 030010 ACCUPIPETTE - Variable Volume vi) 030030 ACCUPIPETTE - Variable Volume vii) 030050 ACCUPIPETTE - Variable Volume	Each 2
11.	BOD Incubator Weiber <i>Drosophila</i> Test Chamber	Brand: RESEARCHERS'PAL Operated on 220V/50 ; BOD incubators are double walled convection heated units. Inner chamber made of thick or heavy gauge stainless Steel Sheet SS 304 grade; Indirect heating system comprising of air heater made of high grade kanthal A 1 wires of suitable wattage. An energy efficient cooling unit ; PID control technology that ensures fast ramp time comprehensive diagnostic LED's Forced convection design for faster temperature response rate ,improved uniformity and reduced fluctuation. Auto draining features Temperature accuracy: ± 0.5°C, Temperature uniformity : 1 @ 37 deg C Temperature :5 deg. To 70 °C. Temp sensor: PT 100 Temp controller : PID Display : LED Shelves standard:2 2 point door seal and eccentric hinge ensures maximum gasket comprehension for stable chamber temperature Air circulation fan for temperature properly working in inner chamber. Size: 6 cft Frequency:50 Hz System should be ISO 9001:2015 ,NSF,GMP and CE certified.	02
12.	Horizontal electrophoresis cell system	BIO-RAD Wide Mini-Sub Cell GT Horizontal Electrophoresis System, 15 x 10 cm tray, with gel caster, Model Name/Number: 1704469	01
13.	REMI Refrigerated Micro-Centrifuge	REMI Refrigerated Micro- Centrifuge Maximum Permissible Speed (RPM):14026 Relative Centrifugal Force (RCF), Max:20,000 x g to 22,000 x g Temperature Range - 10 degree C to +40 degree C Refrigeration System Must be CFC free. Display for Speed, RCF, Temperature And Time	01


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		Parameters:Yes Type of DisplayLCD display Facility For Short Run Operation Yes Imbalance System And Selectable Acoustic Alarms Yes Running Modes Available Soft/fast Accelerate, Decelerate And Break Off Mode Yes Operation Of Equipment: By simple knob(s),By keypad operations Lid Aerosol tight Polysulfone or equiv. Lid CertificationCE(European) Adopter For PCR Tube Sizes0.2 ml and 0.5 ml Time Selection1 to 99 min or continuous																			
14.	Vertical Electrophoresis system	Model Name/ Number TV200 / Bio Rad Mini-Protean Tetra Vertical Electrophoresis Cell	01																		
15.	Vertical Mini Trans-blot Electrophoretic Transfer Cell, For Gel Electrophoresis	Bio-Rad Vertical Mini Trans-Blot Module, Model Name/Number: 1703935	01																		
16.	Trikinetics Dam2 Drosophila activity Monitor	<p>TriKinetics Inc</p> <table border="1"> <tr> <td>DAM2</td> <td>1</td> <td>Drosophila Activity Monitor 32 channels for 5mm dia tube includes CAB2 monitor cable HTS: 9027508060</td> </tr> <tr> <td>PSIU9</td> <td></td> <td>Power Supply Interface Unit includes PS9-1 Power Supply, Line cord, USB cable, CAB10 cable with coupler HTS: 8504406001</td> </tr> <tr> <td>PGT25x125</td> <td></td> <td>Pyrex Glass Tube, 25mm dia, 125mm length (set of 36) HTS: 7006002000</td> </tr> <tr> <td>PPT5x65-100</td> <td></td> <td>Polycarbonate Plastic Tube, 5mm dia, 65mm length (set of 100) HTS: 3917290050</td> </tr> <tr> <td>CAP5B-100</td> <td></td> <td>Vinyl Tube Cap, fits 5mm tube (set of 100) HTS: 3923500000</td> </tr> <tr> <td>CAP25-BLK</td> <td></td> <td>Vinyl Tube Cap, fits 25mm tube, cap length 12mm (set of 100) HTS: 3923500000</td> </tr> </table>	DAM2	1	Drosophila Activity Monitor 32 channels for 5mm dia tube includes CAB2 monitor cable HTS: 9027508060	PSIU9		Power Supply Interface Unit includes PS9-1 Power Supply, Line cord, USB cable, CAB10 cable with coupler HTS: 8504406001	PGT25x125		Pyrex Glass Tube, 25mm dia, 125mm length (set of 36) HTS: 7006002000	PPT5x65-100		Polycarbonate Plastic Tube, 5mm dia, 65mm length (set of 100) HTS: 3917290050	CAP5B-100		Vinyl Tube Cap, fits 5mm tube (set of 100) HTS: 3923500000	CAP25-BLK		Vinyl Tube Cap, fits 25mm tube, cap length 12mm (set of 100) HTS: 3923500000	01
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