



Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu & Accredited by NAAC with 'A++' Grade (3rd Cycle-3.64 CGPA)

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Rate quotation (including all taxes) in sealed envelope are invited from authorized contractors/ Suppliers/ Concerns/ Agencies only who have Credential, Trade License, Pan card & GST registration and requisite credentials within **05.01.2024** at 5.00 p.m. for following equipment.

LIST OF APPROVED EQUIPMENT:

S.No	Department	Name of Equipment	Total Unit
1	Microbiology	Binocular Microscope “Magnus” Make Model: Ch20-1 Led Standard Microscope Set Complete with Binocular Head, Led Light, Anti-Fungal Coated Achromatic Objectives Inea 4x,10x,40x (Spring) & 100x (Oil, Spring), Paired Wide Filed Eyepieces Icwhk10x (F.N.18). Features: Anti-Fungus Treatment Optics for Tropical Durability, Achromatic Objectives, Abbe Condenser with High Performance Asphric Lenses For Bright & Uniform Illumination Throughout The Field Of View, Window In Arm For Convenient Carrying & Ergonomic Design For User Convenience, Smps Power Supply For Flicer Free Illumination Etc.	13
2		Serological Water Bath “Sigma” Make 4 Rack Size:35x25x17.5 Cm Temperature Range From Ambeint To 100 Deg.C. Thermostatic Control With An Accuracy Of +/-0.1 Deg.C. Double Walled Inside S.Steel And Out Side Mild Steel Sheet Painted In Epoxy powder coating Bath Consists Two Pilot Lamp, Temperature Controller Knobs. To Work On 220volts.	3
3		Tlc Plate Viewer	2
4		Lcd Screen Microscope “Micron” Make	2
5		Mini Autoclave “New” Make	3

	<p>Model : Nsw-229 Capacity : 24 Liter Size : 300 X 300 Mm</p> <p>This Sterilizer Is Made of Aluminum for Quick Transfer Of Heat, Which Generates Steam Under Pressure. As Soon as It Reaches the Right Temperature the Sterilizer Are Subjected To Saturated Steam Environment For Preset Specified Time. It Has Double Protection for Safety Sterilizer Pressure Cooker Type Complete Made of Aluminum Bowl. Electrically Operated.</p>	
6	<p>Automatic Water Distrillation Units Double Make : “Borosil” Model : Ddu400 With Auto Cut Off Capacity Distilled “ 4.0 lph Water Output Minimum Cooling Water Requirement (ltr/Min):2 Heater : Quartz Boiler : Boro 3.3 Boro Condenser : Boro 3.3 Biological Activity : Pyrogen Free Conductivity S/Cm* : <1x10-6 Power Consumption (Kw) : 7kw Voltage (V) : 230v Dimensions : 650x630x520 (L X B X H) In Mm</p>	1
7	Tcl Sprayer	2
8	<p>Thin Layer Chromotography “Acme” Make College Grade comprises of The Following Applicator: Made of aluminum Alloy Drawing board : Acrylic Drawing Rack, Developing Chamber : Soda Glass (25x25x12 Cm) With Cover Aluminium Carrier, Spotting Jig: Acrylic,Silica Gel, Micro-Pipette; 0.1 ml, Chromotography Sryaer, Glass Plates: 20 X 22.5cm, Polished Plate – 8 Nos, Rectangular Glass Plates:23 X 12 Cm – 2 Nos</p>	1
9	<p>Tissue Culture Rack “P-Lab’ Make Size: 72 X 48 X 18’ Made Up Of 18 Gauge C.R.Sheet, 5 Shelves, 4 Compartments. 30 X 30mm ‘L’ Angles with Bush Each Compartment with</p>	1

	Fluorescent Lamps Fixing In Each Compartment Electrical Chokes Fixing Separate Arrangement With Mains And Timer, Control Panel Board, Complete Rack With Powder Coating Over Painting	
10	<p>Lux Meter “Lutron” Make Model : Lx – 101a *3 Ranges : 2,000 Lux, 20,000 Lux, 50,000 Lux. * Spectrum Meet C.I.E. Photopic Spectrum. * Sensor With 2 Filters, Professional Quality. * Separate Probe, size : 131 X 70 X 25 Mm.</p>	2
11	<p>Digital Photo Fluorometer “Labtronics” Make Mode : Lt-330</p> <p>Measures Florophors Like Vitamins, Quinine, Steroids and Metal Supplied With 2 Primary And Secondary Filters Mounted On Holders. Results Are Displayed On 3 Digit 7 Segment Led Sensitivity In 4 Ranges.</p>	1
12	<p>Hand Held UV Lamp Torch “Bioworld” Make Wavelength Range : 254 Nm And 365 Nm UV Filter Size : 50 X 150 Mm Material construction : Gi Power Coated</p>	1
13	<p>Electrophoresis Horizontal with Power Pack 03-01 Mini Sub System : Small Model “Genei” Make (106470gb)</p> <p>Gel Size : 10 X 7 Cm (For 8 Samples) Principal : Acrylic Inner Tank Dimension : 190 X 80 X 55 Mm No.Of .Tarys : 100 X 70 Mm 1 No 80 X 70 Mm 2 Nos No.of.Combs : 8 Well X 4 Nos,3well Preparative Comb 1 No. No.Of Gel Casting Tray : 1 Universal Connecting Cord : 1 Set (1 Black And 1 Red) No.Of.Platinum Electrodes : 1 Anode And 1 Cathode</p>	5

		Lid : 1 No	
14		10-01 Power Supplies : Fixed Voltage “Genei” Make (106854gb) Output Dc Voltage : 50,100,150,200,250v Output Current : Maximum 100ma Display : One,4mm Socket Body : Ms With Powder Coated Body Size : 165 X 95 80 Mm Weight : 800 Gms Input Voltage : 230v,50hz A.C	1
15		Electrophoresis Vertical With Power Pack 05-01 Vertical Mini Gel System : Mini Model “Genei” Make (106680gb) Gel Size : 8 X 7 Cm (For 7 Samples) Principal Material : Acrylic Upper Buffer Tank Dimension : 70 X 60 X 40 Mm Lower Buffer Tank Dimension : 130 X 60 X 50 Mm No.of Combs : 0.5,1.5 Mm – 1 Each Tefflon Spacers : 0.5,1,1.5 Mm – 2 Each Connecting Cord : 1 Set (1black And 1 Red) No.of Platimum Electrodes : 1 Anode And 1 Cathode Lid : 1 No Leveling Screws : 3 Nos Glass Plate : Notched And Rectangular 2 Sets Gasket : Fixed Clamps And Screws : 1 Set Gel Casting Unit : Optional,Sap,No.	5
16		Soxhlet Determination “Labqust-Borosil” Make Model : Sox012 Position : 1 Extractor Capacity (ml) : 250 Flask Capacity ml) : 100	3

	<p>Temperature accuracy : +/-15 Deg.C Plate temperature : Upto To 320° C Safe Temperature setting : Yes Liquid temperature : 95 Deg.C For normal Water At 560 M Above Mean Sea Level Display timer : 1-999 Min Dimension : (W X D X H) Mm : 200 X 300 X 800 Weight (Kgs) : 7 Power (W) : 400</p>	
17	Power pack	10
18	Variable Volume Micro Pipette “Thermo Scientific” Finn Make Model : F2 Fully Autoclavable 2-20ul	1
19	Variable Volume Micro Pipette “Thermo Scientific” Finn Make Model : F2 Fully Autoclavable 0.2-2ul Variable Volume Micro Pipette “Thermo Scientific” Finn Make Model : F2 Fully Autoclavable 100-1000 ul	1 1
20	Micro Pipette Stand	3
21	<p>Electronic Top Loading Balance “Shimadzu” Japan Make Model : Bl-220h Capacity : 220gm Accuracy : 0.001 Gm Repeatability : <math>\leq 0.001\text{ Gm}</math> (Std.Deviation) Linearity : +/-0.002 Gm Response Time (Approx) 1.0-1.2 Sec Ambient Temperature : 5-40 Deg C/41-104 F Temperature Coefficient of Sensityn (10-35 00): 1/-3ppm/Deg C Pan Size : 100 X 100 (Mm) Dimension (Approx): 170 (W) X240(D) X 75(H) Mm Weight (Appox). : 2.2 Kg Power Requirements : Ac Adapter;90v-264v+/-10%,50/60hz</p>	2
22	Electronic Top Loading Balance “Shimadzu” Make Model : Elb-300	1

		Capacity : 300gm Accuracy : 0.01gm (10mg)	
23		Digital Photo Calorimeter “Labtronic” Make Mode:Lt-12 8 Filters Mains Operated with Optical Density 2 ½ Digit Led Display Range 400 To 700 Mm 1ml Solution Measurement	1
24	Food Science and Nutrition	Digital Colony Meter Model: 362 Digital display: 4 digit,9999 maximum count Dish size: 110mm Magnification:1.7fold surface magnification	5
25		Digital Salt Meter Model: 671E Display: 3 ½ digit bright red led display Range: 0 to 2.000 ppt, 0 to 20.00 ppt, 0 to 50.0 ppt Range selection: automatic Accuracy: ±0.5 % FS ± 1 digit Measuring cell: platinum DIP Type resolution: 0.1 ppt	3
26		Digital Lactometer	5
27		Digital Density Using the Pycnometer Reference chamber volumes - Approx. 20 cm ³ , 40 cm ³ and 60 cm ³ Sample chamber volumes - Approx. 4 cm ³ , 20 cm ³ , 40 cm ³ , 60 cm ³ , 112 cm ³ and 150 cm ³ Control - Integrated micro processor Display - 4-line 40 characters LCD-display with back light Accuracy - 0.01 %F.S + 0.02%R	2
28		Socs Plus Model – SCS 2: SOCS PLUS automatic two place solvent extraction system	1
29		Kjedahl Apparatus (It includes Automatic Macro block Digestion system and automatic	1

	<p>distillation Unit) <u>Automatic Macro block Digestion system</u> Model – KES 06 L:KEL PLUS microprocessor based automatic six place macro block digestion system (suitable for plants, soils, water, food and feed, fertilizers and pesticides samples)</p> <p><u>automatic distillation Unit</u> model DISTYL EM: automatic microprocessor-based distillation system</p>	
30	<p>Fume Scrubber</p> <p>(Three stage acid neutralizer scrubber) Model: KSCO 10 Zero exposure of the user to harmful sulfur dioxide fumes Maximum safety with a self- contained design <u>High-capacity pump for larger capacity digesters</u></p>	1
31	<p>Cooking Oil Tester</p> <p>Lumity Cooking Oil Tester Range: TPM:0-50%; temperature :0 - 200° C (32 - 392°F) Accuracy: TPM:± 2%; temperature: ±1°C / ±2°F</p>	2
32	<p>Digital Calorimeter</p> <p>High std. glass filter: 312-8,313-5 Range :400 to 700nm Display: 2 ½ digit LED Minimum volume :1ml Output: OD: 0 to 1.99 Resolution: OD: 0.01 Accuracy: 0.5 % FS ± 1 digit Power :6.8 V,300Ma Dimension: 195 X 235 X 105nm</p>	5
33	<p>Moisture analyzer</p> <p>Model: a)ATS 60</p>	1

	Capacity: 60gm, readability: 0.001g/0.01% b) ATS 120 capacity: 120gm, readability: 0.001 gm/0.01% temperature range: 50 to 160°C sample time: 1 to 99 min content of display: % moisture, time, temperature, weight heating source: halogen lamp.	
34	Laminar airflow chamber Direction of flow: horizontal Velocity: 90 feet/ min +/-20 Media: ultra clean glass fiber paper – imported Retention: 0.3 micron Efficiency: 99.97%	1
35	Pulverizer Inner made of stainless steel “Modic” make Power: 3HP Capacity:50kg/hr Phase: single	1
36	Fibro plus Model: FES2: FIBRA PLUS two place automatic fiber estimation system	1
37	TDS meter TDS bench model Model:TDSvision alpha 05 Display: 3 ½ digit LED Range: 0 to 200ppm, 0 to 2000ppt, 0 to 20.00 ppt, 0 to 200.0 ppt, 0 to 1000ppt Accuracy: + 1% FS +1 digit Power: 230V+10% AC, 50HZ	2
38	Salinity Refractometer “ERMA” 0-100%	5

39		Portable digital Refractometer Model: PAL -1 Measurement range: BRIX 0.0-53.0 % Resolution: BRIX 0.1% Measurement accuracy: BRIX + / -0.2% Temperature: 10 to 60°C Power supply: 2XAAA	3
40		Portable Digital Hemoclobin Meter	5
41		Tray dryer (Minimum capacity) 8 trays	1
42	Biochemistry	Moisture analyser Make: Wensler Model:PGB1MB Nutritional analysis of millets, Determination of Moisture content of foods, Adulterants in food, Calcium in ragi, Iron in drumsticks	1
43		Muffle furnace “TECHNICO” make Maximum temperature up to 1000 deg.C inner chamber size: 100x100x225mm Ash content analysis, Determination of Moisture content of foods, Adulterants in food, Calcium in ragi, Iron in drumsticks	1
44			
45		Willey mill 65x25mmxHp Phytochemical studies project work, Isolation and characterization of photochemical from plants	1
46		Ball mill RICO MAKE RMBT2 Ball Mill 1kg.with SS jar Cat no: B44	1

		Nanoparticles synthesis - project work, Preparation and characterization of nanoparticles	
47		Hot Water Bath Make: SIGMA 4 Rack Size:35x25x17.5 CM Microtomy:Fixation, block making, section cutting, double staining of animal tissues like liver, esophagus, stomach, pancreas, intestine, kidney, ovary, testes.	3
48		Autoclave Make:KEMI Model: kAUCA2 Capacity:35 lit Study and plot the growth curve of E.coli by turbidimetric and standard plate count methods.Demonstration of AMES test	2
49		Magnetic hot plate stirrer Make: Remi Cat no: 2MLH Capacity: 2L Digital Speed Indicator Hsn 84798200 Nanoparticles synthesis - project work	3
50		Weighing balance in mgs Standard preparations	1
51		Vortex mixer Model :CM101Plus Make: Remi Cyclometer with brushless motor and Suitable for interchangeable Biochemical estimations	1
52		Incubator with shaker Make: Rivotek Size:325 x 325	1

	<p>Exterior Material: MS Powder coated Interior material: SS 304</p> <p>Study the effect of chemical (HNO₂) and physical (UV) mutagens on bacterial cells</p>	
53	<p>Refrigerator with freezer</p> <p>To maintain chemical solutions and bacterial cultures</p>	1
54	<p>Binocular microscope MFG BY OLYMPUS Model MLX-B PLUS</p> <p>Cytochemical staining of Biomolecule. Study and plot the growth curve of E. coli by turbidimetric and standard plate count methods. To perform culture transfer techniques: Solid to solid (streaking), liquid to solid (spreading), liquid to liquid, solid to liquid and determine CFU/ml, Demonstration of Bacterial Conjugation, transformation and transduction, Study of polyploidy in onion root tip by colchicine treatment. Antimicrobial activity of medicinal plants.</p>	2
55	<p>SDS PAGE units Mini Submaine Gel Electrophoresis System Make EPS Biosolutions Model EPSMINI SUB 10 x 7</p> <p>2D protein gel electrophoresis. To study the effect of inhibitors on protein synthesis. Characterization of proteins.</p>	3
56	<p>Heating mantle Make Sh Capacity 250 ml Watts 1050 W</p> <p>Extraction of phytochemicals project work</p>	4
57	<p>Digital hot air oven (Memmert type) Make Genuine</p>	2

	Plant tissue culture	
58	Digital pH meter Make: Laboholic Model NO LH 10 pH Range; 0 to 14 pH Resolution: 0.01 pH	2
	Buffer preparation	
59	Digital photocolormeter Make: Laboholic Model: LH-112	4
	Biochemical estimations	
60	General purpose centrifuge Make; Remi Model R-8C	5
	Serum preparation	
61	BP apparatus Make HIMEDIA Model RIMA-96LA949	3
	Extension activities, Human physiology practicals	
62	Urine analyser OPTIMA MAKE TECHNICAL SPECIFICATION	1
	Extension activities , Diabetic studies	
63	Turbidimeter Make LABTRONICS Model LT-33	1
	Environmental chemistry project work	
64	Contac Automatic Spirometer Respiratory Machine Make RMS	2
	Extension activities	

65		Double distilled water Unit Model ES-2000DDQ with Auto Cut off	1
		Reagent preparation for practicals	
66		Soxhlet Extraction Apparatus Borosilicate Glass Make Sh	5
		Soxhlet extraction has been used widely for extracting valuable bioactive compounds from various natural sources	
67		Semi auto analyzer	1
68	Biotechnology	Colorimeter DIGITAL PHOTO CALORIMETER "LABTRONICS" MAKE MODEL :LT-12 8 FILTERS MAINS OPERATED WITH OPTICAL DENSITY 2 ½ DIGIT LED DISPLAY RANGE 400 TO 700 MM 1ML SOLUTION MEASUREMENT	9
69		pH-Meter DIGITAL PH METER "EUTECH" MAKE MODEL: PH 700 PH RANGE: -2.00 TO 16.00 PH RESOLUTION : 0.01 PH ACCURACY : +/-0.01 PH CAL.POINTS: UP TO 5 BUFFER SETS : USA (1.68 , 4.01, 7.00 ,10.01, 12.45), NIST (1.68, 4.01, 6.86, 9.18, 12.45) ORP RANGE: +/-2000 MV REL.MV RANGE : +/-200 MV RESOLUTION : 0.1 MV (+/-199.99 MV)1 MV (BEYOND) ACCURACY : +/-0.2 MV (+/-199.9 MV) /+/- 2MV (BEYOND) TEMPERATURE RANGE (METER) : 0.0 TO 100.0 C/	2

		<p>32.0 TO 212.0 F RESOLUTION : 0.1 C / 0.1 FACCCURACY : +/-0.3 C / \pm0.5 F (0 TO 70 C) COMPENSATION: ATC / MTC (0 TO 100 C) (PH ONLY) CALIBRATION : OFFSET IN 0.1 INCREMENTS;OFFSET RANGE: +/-5.0 C / +/-9.0 F POWER REQUIREMENTS 9 V DC ADAPTER, 1.3 A (100/240 VAC, SMPS)</p>	
70		<p>Micropipette- 100-1000, 10-100 Microliter</p> <p>C3-SINGLE CHANNEL VARIABLE VOLUME MICRO PIPETTE (BOROSIL R) 0.2-2UL</p>	3+3
71		<p>Weighing Balance</p> <p>ELECTRONIC ANALYTICAL BALANCE “SHIMADZU” JAPAN MAKE MODEL : ATY-224 R WITH WIND DRAFT SHIELD EXTERNAL CALIBRATION CAPACITY : 220CM ACCURACY : 0.1 MG REPEATABILITY (STANDARD DEVIATION):<=0.1 MG LINEARITY : +/-0.2 MG RESPONSE TIME : APPROX.3.0 SECONDS OPERATING AMBIENT TEMPERATURE : 5-40° C 20-85% TEMPERATURE COEFFICIENT SENSITIVITY (PPM/C) : +/-PPM/° C (NO CONDENSATION) PAN SIZE (MM) APPROX: F91 MAIN BODY DIMENSIONS (MM) APPROX : 213(W)X356(D)X338(H) WEIGHT (KG) APPROX:6.0 POWER REQUIREMENT : 12V,1A</p>	1
72		<p>Autoclave</p> <p>FULLY AUTOMATIC AUTOCLAVE “P-LAB” MAKE FULLY MAKE OF STAINLESS STEEL</p>	1

		<p>VERTICAL SIZE: 40 X 60 CM 90 LIT CAPACITY WORKING PARAMETERS CHAMBER WORKING PRESSURE 1.2 KG / CM2. CHAMBER WORKING TEMPERATURE 121 DEG.C MATERIAL SPECIFICATION</p> <ol style="list-style-type: none"> 1) SHALL BE FITTED WITH :- <ol style="list-style-type: none"> 1.1) SAFETY VALVE 1.2) STEAM RELEASE COCK 1.3) AIR VALVE 1.4) PRESSURE GAUGE 1.5) LOW WATER LEVEL SWITCH TO PROTECT THE HEATER FROM LOW WATER LEVEL 1.6) COLOR DIGITAL TEMP.INDICATOR CUM CONTROLLER WITH ADJUSTABLE TIMER, PERIOD OVER WITH BUZZER, PLUG & CORD ETC. 1.7) 6 KW LOAD WATER IMMERSION TYPE HEATERS MADE OF HIGH GRADE MATERIALS. 1.8) AUTO EXHAUST FACILITY & VALIDATION PORT. 1.9) SILICONE AIRTIGHT PRESSURE PROOF GASKET. 1.10) THE DOOR TIGHTENED BY KNOB TYPE. 1.11) DOUBLE WALL FULL GMP CONSTRUCTION. 1.12) S.S 304 QUALITY STAND. <p>HIGHLIGHTS *DIGITAL SCREEN DISPLAY. *UNIVERSAL ANALOG INPUTS. *TEMPERATURE TRANSMISSION *SETTABLE LOG/STERILIZATION TIME INTERVAL *AUTOMATIC PHASES HANDLED CHAMBER STEAM</p>	
73		<p>Centrifuge Angle Head with PP Tube</p> <p>24X1.5ML ANGLE HEAD WITH PP. TUBE</p>	1
74		<p>AGE Apparatus</p>	3

		<p>05-01 VERTICAL MINI GEL SYSTEM : MINI MODEL</p> <p>"GENEI" MAKE (106680GB) GEL SIZE : 8 X 7 CM (FOR 7 SAMPLES) PRINCIPAL MATERIAL : ACRYLIC UPPER BUFFER TANK DIMENSION : 70 X 60 X40 MM LOWER BUFFER TANK DIMENSION : 130 X 60 X 50 MM NO.OF COMBS : 0.5,1,1.5 MM - 1 EACH TEFFLON SPACERS : 0.5,1,1.5 MM - 2 EACH CONNECTING CORD : 1 SET (1 BLACK AND 1 RED) NO.OF.PLATINUM ELECTRODES : 1 ANODE AND 1 CATHODE LID : 1 NO LEVELING SCREWS : 3 NOS GLASS PLATE : NOTCHED AND RECTANGULAR 2 SETS GASKET : FIXED CLAMPS AND SCREWS : 1 SET GEL CASTING UNIT : OPTIONAL,SAP NO [3:55 pm, 29/12/2023] Narssingam: 10-01 POWER SUPPLIES : FIXED VOLTAGE "GENEI" MAKE (106854GB) OUTPUT DC VOLTAGE : 50,100,150,200,250V OUTPUT CURRENT : MAXIMUM 100MA DISPLAY : ONE,4MM SOCKET BODY : MS WITH POWDER CAOTED BODY SIZE : 165 X 95 80 MM WEIGHT : 800 GMS INPUT VOLTAGE : 230V,50HZ A.C</p>	
75		<p>PAGE Apparatus</p> <p>05-03 VERTICAL MIDI GEL SYSTEM: REGULAR MODEL</p>	2

	<p>:GENE' MAKE (106725GB) GEL SIZE : 16 X 14 CM (FOR 13 SAMPLES) PRINCIPAL MATERIAL : ACRYLIC UPPER BUFFER TANK DIMENSION : 140 X 60 X 25 MM LOWER BUFFER TANK DIMENSION : 200 X 60 X 60 MM NO.OF COMBS : 13 X 50.5,1-1.5 MM EACH TEFFLON SPACERS : 0.5,1,1.5 MM 2 EACH CONNECTING CORD : 1 ST (1 BLACK AND 1 RED) NO.OF PLATINUM ELECTRODES : 1 ANODE AND 1 CATHODE LID : 1 NO LEVELING SCREWS : 3 NOS GLASS PLATE " NOTCHED AND RECTANGULAR 2 SETS GASKET : FIXED CLAMP AND SCREWS : 1 SET GEL CASTING UNIT : OPTIONAL, SAP NO</p>	
76	<p>Soxhlet Apparatus</p> <p>SOXHLET DETERMINATION "LABQUEST- BOROSIL" MAKE MODEL : SOX012</p> <p>POSITION : 1 EXTRACTOR CAPACITY (ML) : 250 FLASK CAPACITY (ML) : 100 TEMPERATURE ACCURACY : +/-1 DEG.C TEMPERATURE UNIFORMITY : +*-15 DEG.C PLATE TEMPERATURE : UPTO TO 320° C SAFE TEMPERATURE SETTING : YES LIQUID TEMPERATURE : 95 DEG.C FOR NORMAL WATER AT 560 M ABOVE MEAN SEA LEVEL DISPLAY TIMER : 1-999 MIN DIMENSION : (W X D X H) MM : 200 X 300 X 800 WEIGHT (KGS) : 7</p>	1

		POWER (W) : 400	
77		<p>Binocular Microscope “Magnus” Make Model: Ch20-1 Led Standard Microscope Set Complete with Binocular Head, Led Light, Anti-Fungal Coated Achromatic Objectives Inea 4x,10x,40x (Spring) & 100x (Oil, Spring), Paired Wide Filed Eyepieces Icwhk10x (F.N.18).</p> <p>Features: Anti-Fungus Treatment Optics for Tropical Durability, Achromatic Objectives, Abbe Condenser With High Performance Asphric Lenses For Bright & Uniform Illumination Throughout The Field Of View, Window In Arm For Convenient Carrying & Ergonomic Design For User Convenience, Smps Power Supply For Flicer Free Illumination Etc.</p>	3
78		<p>Shaker with Temperature Control</p> <p>ROTARY SHAKER “P-LAB” MAKE WITH 16X250ML S.S CLAMP FOR HOLDING CONICAL FLASK WITH DIGITAL TEMPERATURE INDICATOR CUM CONTROLLER</p> <p>*TEMPERATURE RANGE :-BELOW AMBIENT 5 DEG.C TO 60 DEG.C</p> <p>*DISPLAY RESOLUTION :-0.1 DEG.C</p> <p>*CONTROL ACCURACY :-1/-0.5 DEG.C</p> <p>*TEMPERATURE CONTROLLER :-MICROPROCESSOR BASED CONTROLLER WITH RTD SENSOR (PT-100)</p> <p>*SPEED INDICATOR AND TIMER:- MICROPROCESSOR BASED RPM CUM TIMER WITH PROXIMITY SENSOR</p> <p>(TIME CAN BE SET IN MINUTES / HOURS OR CAN BE DEACTIVATED)</p> <p>*MOTOR :-PMDC MOTOR</p> <p>*MOTOR DRVIE :- DC DRIVE WITH POTENTIOMETER*</p> <p>SHAKING SPEED :-40 TO 250 RPM * SHAKING ACCURACY:-1%</p> <p>*SHAKING DIAMETER :- 25MM</p> <p>*INSULATION :- POLYURTHANE INSULATION (PUF)*</p> <p>CABINET MATERIAL :-EXTERIOR- CRCA WITH POWER COATED*INTERIOR-DULY POLISHED 304 GRADE STAINLESS STEEL</p> <p>*DOOR – POWDER COATED CRCA WITH A TEMPERED GLAS SWINDOW AT THE CENTRE</p>	1

		<p>INCUBATION TRAY – DULY POLISHED 304 GRADE STAINLESS STEEL MESHED TRAY.</p> <p>*ADDITIONAL TEMPERATURE CONTROL SOURCE:- AIR CONTROLLER FAN TO MAINTAIN UNIFORM TEMPERATURE HEATER TO MAINTAIN TEMPERATURE * INTERNAL LIGHT :-PL LAMP</p> <p>*POWER SOURCE :- 230V,50HZ SINGLE PHASES</p> <p>*LOTUS CLAMPS FOR ACCOMMODATION OF CONICAL FLASK : CAPACITY OF FLASK 250ML, QUANTITY OF FLASK :25</p>	
79		<p>Water Bath</p> <p>SEROLOGICAL WATER BATH “SIGMA” MAKE 4 RACK SIZE:35X25X17.5 CM WITH DIGITAL TEMPERATURE CONTROLLER INDICATOR</p> <p>TEMPERATURE RANGE FROM AMBIENT TO 100 DEG.C. THERMOSTATIC CONTROL WITH AN ACCURACY OF +/-0.1 DEG.C. DOUBLE WALLED INSIDE S.STEEL AND OUT SIDE MILD STEEL SHEET PAINTED IN EPOXY POWDER COATING BATH CONSISTS TWO PILOT LAMP, TEMPERATURE CONTROLLER KNOBS, TO WORK ON 220VOLTS.</p>	1+1
80		<p>Magnetic Stirrer</p> <p>MAGNETIC STIRRER 1LIT CAPACITY WITH HOT PLATE & DIGITAL SPEED INDICATOR MODEL:1MLH “REMI” MAKE</p>	4
81		<p>Sonicator Water Bath</p> <p>ULTRASONIC CLEANER BATHS “LABQUEST-BOROSIL” MAKE MODEL:UCB 025</p> <p>CAPACITY : 2.5L</p> <p>WORKING TEMPERATURE RANGE AMBIENT; +5 DEG.C. TO 80 DEG. C</p> <p>FREQUENCY : 40KHZ</p> <p>TIME SETTING : 1-99 MINS</p> <p>INTERIOR DIMENSION (L,B,H) IN MM : 150 X 140 X 100</p> <p>INTERIOR DIMENSION (L,B,H)IN MM : 190 X 170 X 220</p>	1

		ULTRASONIC POWER : 50 W HEATER POWER : 100W	
82		<p>Fume Hood</p> <p>FUME HOOD "P-LAB" MAKE WORKING CHAMBER SIZE IN FEET SIZE : 4 X 2 X 5 FEET GALVANIZED IRON CONSTRUCTION WITH INTERIORS BY ENAMEL PAINT FINISH. THE FUME CUPBOARD IS OF THREE SIDES CLOSED AND FRONT SIDE PROVIDED WITH 5MM THICK CLEAR GLASS UP & DOWN SLIDING DOOR THE FUME CHAMBER WILL BE PROVIDED WITH A CENTRIFUGAL BLOWER MOUNTED ON TOP OF THE HOOD, COUPLED DIRECTLY WITH A SUITABLE MOTOR FOR SUCKING THE FUMES FROM THE HOOD AND FORCING IT TO GO OUT TO THE ATMOSPHERE THROUGH THE DUCT THE BLOWR AND CASING WILL BE MADE OF MILD STEEL WITH POLYURETHANE PAIN COATED/FRP FINISH FRONT DOOR SLIDE : 600/900MM HEIGHT FROM THE BED/WORK TABLE WORKTABLE HEIGHT: 900 MM FROM THE FLOOR LEVEL NOISE LEVEL: 65 DB "A" SCALE SUCTION VELOCITY:100 FPM POWER SUPPLY:3 PHASE, 415 V,50HZ MATERIAL OF CONSTRUCTION FOR THE MAIN FUME HOOD.</p>	1
83		<p>High speed centrifuge</p> <p>REVOLUTIONARY HIGH SPEED CENTRIFUGE "REMI" MAKE MODEL:R-24 WITHOUT ROTAR HEAD AND ACCESSORIES. SILENT FEATURES ----- - * STEPLESS SPEED REGULATOR WITH ZERO STERT INTERLOCK * DIGITAL SPEED INDICATOR. * DYNAMIC BRAKE</p>	3

		<p>* 0-99 MINUTES DIGITAL COUNT DOWN TIMER * IMBALANCE DETECTOR WITH CUTOFF * SAFETY LID INTERLOCK TO PREVENT COVER OPENING DURING CENTRIFUGATION.</p> <p>- TECHNICAL DATA ----- - MAX.SPEED : 17300RPM MAX.RCF : 27440GM MAX.TUBE SIZE : 100ML MAX.CAPACITY : 400ML W X D X H : 400 X 500 X 430 MM 24X1.5ML ANGLE HEAD WITH P.P TUBE 8X50ML ANGLE HEAD WITH P.P TUBE</p>	
84		<p>PCR Machine</p> <p>“HIMEDIA” MAKE MODEL CAPACITY: 96 X 0.2ML PELTIER NUMBER : 8 BLOCK MATERIAL : ALUMINIUM ALLOY TEMPERATURE RANGE: 0-100 DEG C HEATING RATE : 5 DEG C/SEC COOLING RATE : 4 DEG C/SEC CONTROL ACCURACY: +/-0.1(30-99.09 DEG C) UNIFORMITY : +/- 0.2 (30-72 DEG C, 10S) +/-0.3(90 DEG C,10S)</p> <p>CONTROL MODE : BLOCK TUBE HOT-LID TEMPERATURE : 30-110 DEG C GRADIENT RANGE – 1-30 DEG C GRADIENT TEMP.RANGE : 30 DEGC – 100 DEG C DISPLAY SCREEN : 8”,800 X 600 PIXELS,TFT,TOUCH PROGRAMS SAVING : 10000 FILES +(USB FLAH) EDIT FILE WHILE RUNNING: YES SUPPORT FOR USB MOUSE : YES SUPPORT TOUCH SCREEN : YES</p>	1

		<p>CONNECTION : USB, ETHERNET NETWORK CONTROL : YES PC CONTROL SOFTWARE : YES POWER SUPPLY : AC 85-264,47-63HZ,600W FOOTPRINT : 38(L) X 24(W) X 26(H) CM WEIGHT : 8.5KG CE CERTIFIED MACHINE : YES PRELOADED PROTOCOL : YES POWER-OFF RECOVERY : YES INCREASE/DECREASE IN TEMP,TINE: YES PAUSE FUNCTION : YES AUTO-OPEN LID : NO</p>	
85		<p>ELISA READER</p> <p>ELISA READER “ROBINIK” MAKE AUTOMATIC ELISA PLATE ANALYSER TECHNICAL SPECIFICATION: HUMAN MACHINE INTERFACE: TOUCH PANEL/KEYBOARD LINEAR MEASUREMENT RANGE: 0.000 TO 3.000 ABSORBANCE UNIT(A) PHOTOMETRIC ACCURACY :+/-2% (OR) 0.005 WHICHEVER IS HIGHTER, FROM 0-1.5A +/-3% FROM 1.5A TO 30. A DEIFT : <0.005 A/HR PHOTOMETRIC LINEARITY : 2.5A OPTICAL MEASUREMENT : 8 CHANNEL FILTERS:- TYPE OF FILTER : NARROW BAND INTERFERENCE WAVE LENGTH : 450NM, 450NM , 492NM 630NM & TWO OPTIONAL HALF BANDWIDTH : 100NM +/- 2NM SELECTION : AUTOMATIC BY STEPPER MOTOR LIGHT SOURCE : TUNGSTEN HALOGEN LAMP WARM UP TIME : 90 SECONDS (BUILD-IN) DISPLAY “ 6” GRAPHICS LCD NEGATIVE BLUE,STN CURVE PLOTTING : GRAPHICAL REPRESENTATION ON PRINTER PLATE CARRIER MOVEMENT : PRECISELY THROUGH THE STEPPER MOTOR</p>	1

		PRINTER : BUILT IN THERMAL PRINTER 52 COLUMNS MEMORY : 64 KB NON VOLATILE RAM BATTERY BACKUP SUPPORTING 125 OPEN	
86		Lux Meter	1

CONDITIONS:

1. The quoted price should be inclusive of all taxes / freight / installation etc.

Customs / Excise Duty Exempted price should also be quoted.

2. Warranty, AMC conditions, nearest servicing centers details, user refere

3. nce, necessary

supporting catalogues and demonstration should be provided.

3. The right to accept or reject tenders without assigning any reason rests entirely with the

Principal.