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Subject: Seeking Quotations for supplying / installation of Instruments, glass ware and chemicals for Plant Heath Clinic Laboratory funded by RKVY

Interested vendor are requested to submit sealed quotations for supplying the following Instruments, glass ware and chemicals. Details of the Instruments, glass ware and chemicals are given below –

A.

Sl. No.	Particular	Specification
1.	Digital pH Meter with pH electrode & temp. probe	One point mV calibration, One point ATC temperature probe calibration, Automatic or manual temperature compensation and Ready icon to indicate measurement stability Accuracy (Temperature) $\pm 0.3^{\circ}\text{C}$; Range (mV) $\pm 1999\text{mV}$; Accuracy (pH) ± 0.01 ; Range (pH) 0 to 14 Plastic made electrode
2.	Autoclave medium (Vertical) with mechanical pressure controller, temp. indicator-cum-controller, low-water cut-out, Inner chamber size: 18" (dia) * 24" (depth) (load 4 KW)	These are double walled units with inner chamber made by Stainless Steel sheet and outer chamber made of M.S. sheet Ring, lid, nuts made of steel coat gun metal Fitted with neoprene rubber gasket All autoclaves are fitted with standard accessories such as pressure gauge, steam release cock, safety valve and heating element made by immersion rod Supplied complete with stainless steel basket, cord and plug top Operated by 220/230 volt, AC mains
3.	Microwave oven	20 L Solo Microwave Oven (20PM-MEC1, White)
4.	Refrigerator with stabilizer	165 L Direct Cool Single Door Refrigerator (Burgundy Red)
5.	PCR (PROFLEX)	PCR System must have a triple Block Format of 0.2ml independent control PCR System must be used by 3 different users at 3 different / same time to perform 3 different experiments. System should have an interchangeable & flexible block configuration which accepts four types of thermal blocks for optimization and throughput – 1x96 / 2x96 / 2x384 for future updates of the machine PCR Instrument should be Wi-Fi enabled and remote connected. Blocks needed to provide a gradient / better than gradient approach for PCR optimization. With six separate Peltier Blocks, one can precisely set and control the temperature in each block. Run up to 6 separate temperatures in the same plate with user defined time to determine the optimal annealing temperature Minimum Block ramp rate is 6 degree C/sec Minimum Sample Rate is 4.50 degree C/sec. Temperature Accuracy is ± 0.25 degree C(35-99C) Temperature Range is 0C to 100C. Temperature Uniformity is $< 0.5\text{C}$ (20sec after reaching 95C) PCR Volume Range is 10-80ul. Instrument Memory-USB on Board. Display Interface is 8.4" color TFT LCD Warranty : Minimum 02 Year Minimum 50 Installation in Eastern India Must Have Kolkata Based Service Centre (Engineer email Id & contact no

Sl. No.	Particular	Specification
		should be provided)
6.	Centrifuge5418R(refrigerated)230v/50-60Hz,incl.rotor.FA-45-18-11	<ul style="list-style-type: none"> • 18 position centrifuge for 1.5/2.0 ml tubes • Maximum rotational speed: 14,000 • Maximum rcf: 16,873*g • Temperature: 0°C to + 40°C • Acceleration time: 11s • Braking time: 12s • Noise level: <55 dB (A) • Power supply: 230V/50-60 Hz • Power consumption: max. 320 W • Dimension (W*D*H): 300*460*250 mm • Weight without rotor: 22kg • Standard rotor 18*1.5/20 ml with aerosol-tight QuickLock lid • Fast temp for rapid precooling of the centrifuge • Patented compressor technology reduces vibrations and protects your sample • Separate short-spin button- for fast and short spins • Low access height
7.	Laminar Flow Bench (Horizontal)	<p>Internal chamber (2ftX2ftX2ft) with ULFA filter Pro-filter Motor blower assembly Work table Tube lights Ultra violet tube Side glass Polycarbonate front door Minihelic gauge Electronic switch 5/15 Amps plug point Movable wheels Leveling lugs</p>
8.	Computer 1	4 GB RAM (Zion), 1 TB hard disc (Seagate), Intel i3 processor, Gigabyte mother board, LG DVD drive, AOC 19 inch Screen, Logitech mouse and key board combo, I-ball casing with SMPS, Wndows 10, UPS: Microteck, USB I-ball speaker, HP lazerjet printer cum scanner (M1136)
9.	Double Distillation unit (glass) with auto-cut system, output 2L/hr	<p>Model: ES-2000 DDQ XL-BG) Silica heater Teflon screw thread cock Efficient condenser Screw thread connectors Powder coated stand Output distilled water quality: 2.0 lit/hr Conductivity: 0.8 µS/cm Distillate quality: pyrogen free Electrical power: 220/240 v, 50/60 Hz single phase, 2×1500 watts. Silica heater Cooling water require: 2-4 lit/min Minimum pressure: 3 p.s.i Dimensions: 2(250×180×450)mm (w×d×l)</p>
10.	Specification of stereozoom trinocular microscope with dedicated ccd camera attachment with on line measurement software	<p>TRINOCULAR ZOOMSTEREO MICROSCOPE</p> <p>Trinocular Observation Head 450, IPD : 52mm to 76mm, Eyepieces : 10x F.O.V.22mm. Zoom Range and Ratio : 0.8x to 5.0x ratio 1:6.3 W.D. 115mm Built in Incident and Transmitted LED illuminator with intensity control.</p> <p>5 MEGA PIXEL CCD MICROSCOPIC CAMERA WITH DIGICAM ONLINE MEASUREMENT SOFTWARE</p>

Sl. No.	Particular	Specification
		Image Sensor : 5.24 MP CCD, Image Sensor : 2/3" (7.60mmH, 6.20mmV, Diagonal 7.959mm) Effective Pixels : 2592 X 1944, Pixel Size : 4.65µm x 4.65 µm. Dual Mode : Mono/Color. Still and Video Capture. On line measurement calibration, Background correction, Measurement in microns, inches, millimeters, Length measurements, Ellipse, Rectangle, Irregular shape measurements, Perimeter, Radius, Circumference measurements, Angle measurements. Magnifier (zoom) function. Scale Bar facility.
11.	Deep fridge (-20 ⁰ C / -40 ⁰ C) with stabilizer	Gross Capacity : 300 L Net Capacity : 292 L Temperature : -18°C No. of baskets : 1 No. of lids : 1 Power Supply : 230V - 1 ph - 50 Hz Refrigerant : R-134a Dimensions WxDxH (mm) : 1000 x 663 x 770 Net Weight : 59 PUF Thickness : 60 Wheels / Legs : Heavy Duty Castors Brand: Blue Star
12.	Camera	Nikon D3200 24.2MP Digital SLR Camera (Black) with dual lens kit (18-55) with all necessary + 8GB Card + Camera Bag, macro lens convertor, AF-S DX Micro NIKKOR 40mm f/2.8G Lens
13.	Air conditioner with stabilizer (1.5 ton)	1.5 Ton 5 Star Split AC - White (185JY, Aluminium Condenser) Voltas/LG
14.	UPS (2KVA)	<ul style="list-style-type: none"> • APC SRC2000XLI-CC (2 KVA) Online UPS With Battery • Pure Sine Wave Output, Powerchute Business Edition, Internal Batteries, Two Years Onsite Warranty. • 2KVA/1400W • Output Power Capacity : 1400 Watts/2000 VA • Nominal Output Voltage : 230V • Nominal Input Voltage: 230V • Battery Type : Maintenance-free sealed Lead-Acid battery (Exide) with suspended electrolyte : leakproof • Included Battery Modules : 1 • Typical Recharge Time : 3 hrs • Control Panel : LED status display with load and battery bar-graphs and On Line : On Battery : Replace Battery : Overload and Bypass Indicators. • Audible Alarm : Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm
15.	High Precision Electronic Balance with inbuilt battery back-up	0.1 mg, Capacity 220 gm Repeatability (sd) 0.1 mg second, Wensar Readability 0.1 mg Linearity (+/-)0.2 mg, Response time: 2
16.	Gel electrophoresis (Submarine V)	Single piece acrylic molded tank, high temperature/ corrosion proof & assures no leaking points Gel Size (W x L)mm : 130 X 130, 78 X 100, 48 x 75 Sample Volume : 13, 26, 10, 15, 5, 3 Testing 96 samples at a time, the same wells as the plate with 96 wells of PCR Use 8-adjustable-volume digital micropipettes to swiftly load samples Trays are UV transparent (with fluorescent ruler), special gel caster, with the level as regulatory function Large buffer tank for good cooling & helps to maintain pH during electrophoresis The transparent top lid that effectively prevents the liquid in the tank from spilling & prevents contact with electrodes Automatically cuts off electric field when the lid is opened H815184

Sl. No.	Particular	Specification
17.	GX-600 power supply power supply	Constant vol5tage, current, LED display -600v,1-500mA,max.300w,2 output pack
18.	Gel Doc System WITH Suitable Laptop	<ul style="list-style-type: none"> • The system should have Small footprint to conserve benchtop space. • It should allow the use of safe blue-light transillumination without the risks of UV light transillumination. • The Camera Hood should have 1.3Mp, 16-bit, CMOS, sensor chip coupled to a specially designed lens and mounted above an interchangeable filter tray. • Provision for Sensors to permit illumination only when the Imager Camera Hood is properly positioned over the Light Base unit. • It should be Compatible with a wide range of fluorescent and visible dyes (e.g. Qdot®, SYBR Safe®, ethidium bromide). • Compatible with different gel formats including precastgels and pour-it-yourself gels (agarose, or polyacrylamide). • It should perform Real-time sample imaging allowing detailed sample viewing. • It should come with white light screen for protein analysis. • It should eliminate the need for film or processing chemicals. • Electrical Requirements: 100–240 V, 50/60Hz, 0.6A • Temperature: Ambient ± 5oC to 40° C • Viewing surface dimensions should be : 42 mm × 83 mm • It should do direct camera to PC image transfer. • Gel capture and data analysis software should be provided. • Warranty : Minimum 03 Year • Minimum 30 Installation in Eastern India • Must Have Kolkata Based Service Centre (Engineer email Id & contact no should be provided)
19.	Liquid nitrogen tank	(1.5L) (IOCL: BA 1.5)
20.	Fluorometer	<p>The Fluorometer should do DNA, RNA, and protein quantification with a small benchtop footprint and 5.7" touchscreen intuitive user interface.</p> <ol style="list-style-type: none"> 2. Instrument should use as little as 1 µL of sample 3. Instrument should have a sensitivity range for dsDNA of 0.5 ng/mL (10% CV) 4. Instrument should have Dynamic range† (dsDNA) of 0.5 ng/mL to 5 µg/mL 5. Instrument should be able to accurately measure both DNA and RNA in the same sample 6. It should be able to accurately quantify DNA in samples with concentrations as low as 10 pg/µL 7. It should be able to cover a sample concentration range of 10 pg/µL to 1 µg/µL DNA 8. It should have reagent calculator that quickly generates working solution calculations 9. It should be able to measure intact vs degraded RNA in 4 seconds' sample read time 10. Instrument should be able to provide on board RNA IQ – Integrity and Quality values 11. It should be able accurately and selectively quantifies DNA, RNA or protein in <3 seconds per sample 12. It should be able to accurately measure viable RNA with new RNA IQ kit in <5 seconds per sample 13. It should come with Ready to use 1x format which enables fast mix and read for double stranded DNA for NGS, PCR and genotyping applications 14. Rapid time to result : ~5 minutes sample preparation and ~4 seconds per sample read

Sl. No.	Particular	Specification
		<p>time</p> <p>15. It should be able to store up to 1,000 sample results with 4GB space and should be upgradable to have Wifi in future</p> <p>16. Instrument should not require external computer for data analysis</p> <p>17. Cost per sample for RNA IQ analysis should be less than 2\$ USD * (Depending on kit size)</p> <p>18. It should come up with Blue and Red LED as light sources with excitation and emission filters as below Excitation: Blue 430–495 nm, Red 600–645 nm Emission: Green 510–580 nm, Red 665–720 nm</p> <p>19. It should have a warm up time of <35 second</p>
21.	Digital Moisture Analyzer	<ul style="list-style-type: none"> • Sample capacity 50g or more • Weight resolution 0.001g or better • Measurement method: Halogen lamp heating system with SRA filter and SHS weighing technology. • Moisture content display 0.01% • Moisture content Accuracy 0.02% • Drying temperature 50 to 200 degree (1 degree increment) • Heating Technology: Halogen lamp. • Display : Large VFD • Memory of Measurement 20 sets or more with 100 Data memory function. • GLP/GMP/ISO compliance. • Interface: RS232C with Communication software and graphical figure, total information, statistical information available(WIN CT). • Sample PAN size: 85mm to 90 mm dia. • Power supply : 220V to 240V • With standard accessories like Sample Pan, Tweezers, Glass fiber Sheet, communication cable & Instruction Manual.

B.

SI NO	Description	QTY	Brand
1	Microtips-1ml, 200µL, 100µL, 20µL, 10 µL	1pkt(500pc)	Tarson
2	Microtip box (1ml, 200µL, 100µL, 20µL, 10 µL)	4pc	Tarson
3	Eppendrof tube (micro centrifuge 1.5ml,2ml)	1pkt (500pc)	TARSON
4	Eppendorf Tube rack	2	TARSON
5	PCR tubes (500 µL)	1pkt	Tarson
6	PCR tubes rack	2	Tarson
7	Measuring cylinder (Borosilicate glass) 250ml,100ml,50ml,10ml	2pc each	Tarson
8	Conical (Borosilicate glass) 100ml,250ml,500ml	5pc each	Borosil/Riviera
9	Beaker (Borosilicate glass) 25ml, 50ml.100ml, 250ml, 500ml	5pc each	Borosil/Riviera
10	Gloves	1pkt	
11	Mortar pastle	5pc	Tarson
12	Reagent bottle(Borosilicate glass) 1000ml,500ml,250ml,100ml,50ml,25ml,	5pc each	Tarson
13	Reagent bottle (Borosilicate glass) (amber) ,500ml,250ml	3pc each	Tarson
14	Centrifuge tube (0.5, 1.5, 2 mL)	1pkt	TARSON

15	Wash bottle 500ml	5pc	Tarson
16	Micro Pipette -0.5-10µl, 10-100µl, 100-1000µl Digital variable volume pipette (autoclavable) Range: 0.5 to 10 µl (increment 0.1 µl) Range: 2 to 10 µl (increment 0.1 µl) Range: 10 to 100 µl (increment 0.1 µl) Range: 20 to 200 µl (increment 0.1 µl) Range: 100 to 1000 µl (increment 0.1 µl)ent 0.1 µl)	1 set each	Tarson
17	Fulcon tube	4 PKT	Tarson
18	Floater (Material : PP) (16 places of 1.5 ml)	5 pcs	Tarson
	Carboy with Stopcock made with Medical Grade LDPE		

C.

Sl. No.	Particular	Specification	Brand
1.	Digestion tube (Quartz)	250 ml	Brosil/Riviera
2.	Test tube with rim (borosilicate)	25ml, 50ml	Brosil/Riviera
3.	Connical (borosilicate; high temperature glass)	100ml, 250ml	Brosil/Riviera
4.	Beaker (borosilicate; high temperature glass)	1lt, 500ml, 250ml, 100ml, 50ml	Brosil/Riviera
5.	Funnel	25ml	Brosil/Riviera
6.	Burrete	10ml, 25ml, 50ml	Brosil/Riviera
7.	Screw cap bottle (borosilicate)	2l, 1lt, 250ml, 100ml, 50ml	Brosil/Riviera
8.	Screw cap bottle (amber) (borosilicate)	1lt, 250ml, 100ml, 50ml	Brosil/Riviera
9.	Volumetric (borosilicate)	1lt, 500ml, 100ml, 50ml, 25ml	Brosil/Riviera
10.	Screw cap test tube (borosilicate)	25ml	Brosil/Riviera
11.	Petri plate (borosilicate)	90cm dia	Brosil/Riviera
12.	Measuring cylinder	5lt, 1lt, 250ml, 100ml, 25ml, 10ml	Brosil/Riviera
13.	Watch glass	90cm dia	Brosil/Riviera
14.	Slides		Brosil/Riviera
15.	spreader		Brosil/Riviera
16.	Connical with out let (borosilicate; high temperature glass)	500ml, 250ml	Brosil/Riviera
17.	Connical with mouth joint (borosilicate; high temperature glass)	250ml	Brosil/Riviera
18.	Round bottom flask (borosilicate; high temperature glass)	500ml, 250ml, 100ml	Brosil/Riviera
19.	Condenser	500ml, 250ml, 100ml	Brosil/Riviera
20.	Long glass pipe with cork (3ft)	250ml, 100ml, 25ml	Brosil/Riviera
21.	Dessicator	200mm	Brosil/Riviera
22.	Dessicator with stopcock	300mm, 200mm	Brosil/Riviera
23.	Extraction apparatus Soxhlet	250ml	Brosil/Riviera
24.	Respiration flask (borosilicate)	250ml	Brosil/Riviera
25.	Bulb Pipette	50ml, 25ml	Brosil/Riviera
26.	Graduated Pipette	50ml, 25ml, 10ml	Brosil/Riviera

27.	Glass Filter Flask for Filter Holder 47mm (riviera)	1000ml	Brosil/Riviera
28.	Buchner Funnel 643020		Brosil/Riviera

D.

Sl. No.	Particular	Specification	Brand
	Micro pipette (Branded) Fully autoclavable without disassembly; 4 digit display for more accurate volume setting and easier volume identification , Ultralight, chemically resistant piston; 3 years warranty		Eppendorf
1.	Micro pipette Research Pack of 3 pipette	(0.5-10 μ L/10-100 μ L/100-1000 μ L)	Eppendorf
2.	Research plus, single-channel, variable Micro pipette	0.1-2.5 μ L	Eppendorf
3.	single-channel, variable Micro pipette	500-5000 μ L	Eppendorf
4.	single-channel, fixed Micro pipette	1000 μ L	Eppendorf
	High-quality Micro tips (Branded); Soft, flexible tip cone; packed in re-sealable bags		
5.	Low-Retention Reloads, PCR clean micro tips	2-200 μ L;50-1000 μ L	Eppendorf
6.	Standard microtips	100-5000 μ L,	Eppendorf
7.	Low-Retention Standard blue microtips	50-1000 μ L,	Eppendorf
8.	Low-Retention Standard yellow microtips	2-200 μ L	Eppendorf
9.	Low-Retention Standard colorless microtips	0.1-10 μ L	Eppendorf
10.	Low-Retention Standard colorless microtips	0.5-20 μ L	Eppendorf
11.	10 trays of 96 tips, packed in stack	50-1000 μ L	Eppendorf
12.	10 trays of 96 tips, packed in stack	2-200 μ L	Eppendorf
13.	Dispenser with PFA seal of the slide piston; high chemical (strong acid) resistance; telescopic aspirating tube for variable adjustment to bottle height; fully autoclavable without disassembly	2-10ml; 10-50ml	Eppendorf
14.	MICROPIPETTES, Variable Volume, Single Channel, no recalibration after autoclaving	50-200 μ L; 200-1000 μ L; 1000-10000 μ l	Eppendorf
15.	MICROPIPETTES, Fixed Volume, Single Channel, no recalibration after autoclaving	1000 μ l	Eppendorf
16.	Carboy With Stopcock made with Medical Grade LDPE	10lt	Tarson
17.	Utility Carrier (Material : PP Autoclavable)	380x240x115	Tarson
18.	Narrow Mouth Wash Bottle (Material : PP Autoclavable)	500ml	Tarson
19.	Dropping Bottle (Material : LDPE)	60ml	Tarson
20.	Measuring Beaker with Handle (Material : PP confirming to US FDA 21 CFR Autoclavable)	1000ml	Tarson
21.	Test Tube Basket with Cover (Material : PP Autoclavable)	230x230x230	Tarson
22.	Draining Tray (Material : PP Autoclavable)	400x300x100	Tarson
23.	Retort Stand (Material : PP / SS Rod)	22x15 central	Tarson
24.	Burette Clamp double (Material : PP)		Tarson
25.	Funnel (Material : PP confirming to US FDA 21 CFR Autoclavable)	55mm dia	Tarson
26.	Buchner Funnel (Material : PP confirming to US FDA 21 CFR Autoclavable)	110 mm Dia	Tarson
27.	Membrane Filter Holder (Material : PSF confirming to US FDA 21CFR Autoclavable)	250 ml	Tarson
28.	Pipettor Stand (Material : PMMA)		Tarson
29.	Micro Tip Box (Material : PP confirming to US FDA 21 CFR Autoclavable)	96 places of 2-200 μ L, 200-1000 μ L	Tarson
30.	Genius Bottle Top Dispenser (autoclavable)	1-10ml, 5-50ml	Tarson
31.	Micro Centrifuge Tube (Material : PP Material confirming to US FDA 21 CFR Autoclavable)	0.5ml, 1.5ml, 2ml, 5ml	Tarson
32.	Tube Conical Bottom (Material : Medical grade PP/HDPE confirming to USP Class VI Autoclavable)	5ml, 50ml	Tarson
33.	Screw Cap Centrifuge Tube Round Bottom (Material : PP Autoclavable)	10 and 50ml	Tarson

Sl. No.	Particular	Specification	Brand
34.	Polygrid Micro Tube Stand (Material : RPP)	128 places of 1.5ml	Tarson
35.	Float Rack (Material : PP)	16 places of 1.5 ml	Tarson
36.	Conical Centrifuge Tube Rack (Material : RPP) Easily assembled racks held together securely. Wells for 15 mL tubes measure 17 mm dia;	Wells for 50 ml tubes measure 28 mm dia	Tarson
37.	POLYGRID Test Tube Stand (Material : RPP)	40 places 20mm dia and 20 places 25mm dia	Tarson
38.	Test Tube Stand (Material : PC)	20 places 20mm dia	Tarson
39.	Desiccator Vacuum (Material : PP / PC)	300mm dia	Tarson
40.	-20°C Mini Cooler with Gel Filled Cover (Material : PC / Non toxic gel)	32 of 1.5ml	Tarson
41.	Slant Rack (Material : PC)	40 places of 20mm dia	Tarson
42.	Parafilm	Size (W x L) : 4" X 125"	Tarson
43.	Parafilm Dispenser	Dispenser holds one of 4" rolls	Tarson
44.	Petri Seal	Size 0.5"x108"	Tarson
45.	SAFESKIN Nitrile Gloves 9.5 cm (Material : Nitrile)	Small and medium size	Tarson
46.	Hand Protector Grip	made of silicone rubber	Tarson
47.	Petridish with triple vent Radiation Sterile (Material : PS confirming to US FDA 21 CFR); Vented dishes WITH elevated lid;	Set of 10 sterile plates in packet; dia x h) mm - 90 x 14	Tarson
48.	Polygon Magnetic Stirrer Bar (Material : PTFE / ALNICO V MAGNET)	6x10mm; 8x14mm	Tarson
49.	L Shaped Spreader Sterile (Material : PS)	L Shaped spreader pouch of 5 nos	Tarson
50.	Pasteur Pipette (Material : LDPE confirming to US FDA 21 CFR)	Capacity 3ml	Tarson
51.	N95 Particulate Respirator	N95 Particulate Respirator	Tarson
52.	Autoclavable Bags (Material : PP Autoclavable)	Size : 12" x 24"	Tarson
53.	Magnetic Retriever (Material : PTFE / ALNICO V MAGNET)	Length 30cm	Tarson
54.	Safety Face Shield		Tarson
55.	Plant Tissue Culture Container (Material : PC/PP Autoclavable)	lxbxh cm = 7.5x7.5x10	Tarson
56.	Amber Storage Vial (base selfstanding)	Vol 2ml	Tarson
57.	Reversible Rack with Cover (Material : PP)	96 places of 0.5 or 1.5ml	Tarson
58.	Mini Submarine Electrophoresis Unit	Casting Tray cm – 15x10	Tarson
59.	Gel Caster for Submarine Electrophoresis Unit	Accommodate 7 x 10 cm Gel casting tray	Tarson
60.	Light duty Spilifyter Lab Soakers; Chemical and skid resistant backing absorbs spills and cushion delicate glassware	20"x400" roll	Tarson
61.	Whatman filter paper 1 & 42	Sheet in Box	
62.	Blotting paper		
63.	Cellulase Membrane filter		
64.	Mortar pastle		
65.	pH paper	pH 3.5-6.0; 5.0-7.5; 6.5-9.0	Tarson
66.	0.45 µm cellulose acetate filter		
67.	Tissue paper		
68.	Microscope glass slide, ground edges	76mmx26mmx0.95mm	Tarson

Sl. No.	Particular	Specification	Brand
69.	SS spirit lamp		
70.	Plate master for speed plating		

E.

Sl. No.	Particular	Specification	Brand
1.	Agarose (Low Melting & Normal MB grade) small pack	50 g and 500 g	HIMEDIA/SIGMA/INVITROGEN
2.	Tris Base (small pack)	500 g	HIMEDIA/SIGMA/INVITROGEN
3.	EDTA Disodium Salt Dihydrate(small pack)	100g	HIMEDIA/SIGMA/INVITROGEN
4.	SDS(small pack)	100 g	HIMEDIA/SIGMA/INVITROGEN
5.	Triton X-100(small pack)	500 ml	HIMEDIA/SIGMA/INVITROGEN
6.	Ethidium Bromide(small pack)	10ml	HIMEDIA/SIGMA/INVITROGEN
7.	Poly Ethylene Glycol(small pack)	500ml	HIMEDIA/SIGMA/INVITROGEN
8.	Acrylamide & e(small pack)	1kg	HIMEDIA/SIGMA/INVITROGEN
9.	Bis acrylamide	250gm	HIMEDIA/SIGMA/INVITROGEN
10.	Sodium Acetate(small pack)	250gm	HIMEDIA/SIGMA/INVITROGEN
11.	Sucrose(small pack)	500g	HIMEDIA/SIGMA/INVITROGEN
12.	DMSO(small pack)	100ml	HIMEDIA/SIGMA/INVITROGEN
13.	Glycerol(small pack)	500ml	HIMEDIA/SIGMA/INVITROGEN
14.	Betamercapto ethanol(small pack)	100ml	HIMEDIA/SIGMA/INVITROGEN
15.	Coomasie Brilliant Blue Dye(small pack)	5g	HIMEDIA/SIGMA/INVITROGEN
16.	Propanol(small pack)	500ml	HIMEDIA/SIGMA/INVITROGEN
17.	DNA tracking dye(small pack)	6 x 1ml	HIMEDIA/SIGMA/INVITROGEN
18.	Silver Nitrate(small pack)	25g	HIMEDIA/SIGMA/INVITROGEN
19.	Calcium chloride, Magnesium chloride(small pack)	500g	HIMEDIA/SIGMA/INVITROGEN
20.	TEMED(small pack)	100ml	HIMEDIA/SIGMA/INVITROGEN
21.	APS(small pack)	25g	HIMEDIA/SIGMA/INVITROGEN
22.	DNA Diluents(small pack)	500ml	HIMEDIA/SIGMA/INVITROGEN
23.	Pvp(small pack)	100g	HIMEDIA/SIGMA/INVITROGEN
24.	DNase Free water(small pack)	500ml	HIMEDIA/SIGMA/INVITROGEN
25.	PBS Buffer(small pack)	500ml	HIMEDIA/SIGMA/INVITROGEN
26.	RNase A(small pack)	10mg	HIMEDIA/SIGMA/INVITROGEN
27.	Proteinase K(small pack)	1ml	HIMEDIA/SIGMA/INVITROGEN
28.	PCI Solution(small pack)	1	HIMEDIA/SIGMA/INVITROGEN
29.	Ethanol(small pack)	500ml	HIMEDIA/SIGMA/INVITROGEN
30.	dNTPs(small pack)	1ml	HIMEDIA/SIGMA/INVITROGEN
31.	Taq Polymerase(small pack)	500u	HIMEDIA/SIGMA/INVITROGEN
32.	PMSF(small pack)	1g	HIMEDIA/SIGMA/INVITROGEN
33.	Glacial acetic acid(small pack)	500ml	HIMEDIA/SIGMA/INVITROGEN
34.	Glycine(small pack)	500g	HIMEDIA/SIGMA/INVITROGEN
35.	Test tube (20mm dia)	100	HIMEDIA/SIGMA/INVITROGEN
36.	Glass petri dices (90mm)	200	Borosil
37.	Sucre cap tube	100	
38.	Cupling jar glass	10	
39.	Formaldehyde	10 L	
40.	Inoculation loop	5 nos	
41.	Test Tube Rack	For 100 tubes	Tarson
42.	Alcohol	2 l	
43.	Lacto phenol	500 ml	HIMEDIA/SIGMA/INVITROGEN
44.	Dextrose	500 g	HIMEDIA/SIGMA/INVITROGEN
45.	Agar	500 g	HIMEDIA/SIGMA/INVITROGEN
46.	Insect rearing cage	5 nos.	
47.	Insect Preservation and display board	5 nos	
48.	Fungi DNA Isolation Kit	50	Sigma

Sl. No.	Particular	Specification	Brand
		preparation	
49.	Bacteria DNA Isolation Kit	50 preparation	Sigma
50.	Actinomycetes DNA isolation kit	50 preparation	Sigma
51.	Whitefly DNA isolation kit	50 preparation	Sigma
52.	Helicoverpa DNA isolation kit	50 preparation	Sigma
53.	GenElute™ Bacterial Genomic DNA Kit	70 preparation	Sigma
54.	Hoyers media	500 g	HIMEDIA/SIGMA/INVITROGEN
55.	Jensen's agar	500 g	HIMEDIA/SIGMA/INVITROGEN
56.	Yeast mannitol agar	500 g	HIMEDIA/SIGMA/INVITROGEN
57.	Pikovskaya's media	500 g	HIMEDIA/SIGMA/INVITROGEN
58.	Potato Dextrose Agar	500 g	HIMEDIA/SIGMA/INVITROGEN
59.	Nutrient Agar	500 g	HIMEDIA/SIGMA/INVITROGEN
60.	Waksman agar	500 g	HIMEDIA/SIGMA/INVITROGEN
61.	SC (Actinomycetes) agar	500 g	HIMEDIA/SIGMA/INVITROGEN
62.	Alexandrew media	500 g	HIMEDIA/SIGMA/INVITROGEN
63.	Chus 10 media	500 g	HIMEDIA/SIGMA/INVITROGEN
64.	1-aminocyclopropane-1-carboxylate	100G	Sigma
65.	2,4,6 Trichlorophenol	500G	Himedia
66.	2,4-dinitrophenyl-hydrazine	100G	Sigma
67.	2-Ketobutyric acid sodium salt hydrate	5G	Sigma
68.	3,5 Dinitro salicylic acid	100G	Himedia MB Grade
69.	3-methyl-2-benzothiazolinone hydrazone hydrochloride	10G	Sigma
70.	Activated charcoal	500G	Himedia AR Grade
71.	Adenosine 5' diphosphate disodium salt	100mg	Sigma
72.	ADP	250mg	Sigma
73.	Amido black,	25G	Himedia MB Grade
74.	Ammonia solution	500mL	Merck
75.	ammonium chloride	500G	Himedia AR Grade
76.	Ammonium ferrous sulphate	500G	Himedia AR Grade
77.	Ammonium floride	250G	Himedia AR Grade
78.	Ammonium metavanadate	500G	Himedia AR Grade
79.	Ammonium molybdate tetrahydrate	500G	Himedia MB Grade
80.	ammonium oxalate	500G	Himedia AR Grade
81.	Ammonium sulphate	500G	Himedia MB Grade
82.	ammonium acetate	500G	Himedia AR Grade
83.	anhydrous calcium chloride	500G	Himedia PTC Grade
84.	Anthrone	100G	Himedia AR Grade
85.	Antimony potassium tartarate (SbO)C ₄ H ₄ O ₆ .1/2H ₂ O)	500G	Himedia AR Grade
86.	Ascorbic acid	100G	Himedia AR Grade
87.	Barium chloride	500G	Himedia AR Grade
88.	Borax	500G	Himedia MB Grade
89.	Boric acid	500G	Himedia AR Grade
90.	Bromo cresol green indicator	125ml	Himedia AR Grade
91.	Bromo thymol blue indicator	125ml	Himedia AR Grade
92.	Bromophenol blue	25G	Himedia AR Grade
93.	Calcium acetate	500G	Himedia AR Grade

Sl. No.	Particular	Specification	Brand
94.	Calcium carbonate	500G	Himedia AR Grade
95.	Calcium chloride (anhydrous)	500G	Himedia AR Grade
96.	calcium chloride hydrated	500G	Himedia MB Grade
97.	Calcium hydroxide	500G	Himedia AR Grade
98.	calcium phosphate dibasic	500G	Himedia AR Grade
99.	calcium phosphate tribasic	500G	Himedia PTC Grade
100.	Calcium sulphate dihydrate	500G	Himedia AR Grade
101.	Calcon indicator	25G	Himedia
102.	Carboxymethyl cellulose	100G	Himedia MB Grade
103.	Citric acid anhydrous	500G	Himedia MB Grade
104.	citric acid monohydrate	500G	Himedia AR Grade
105.	Congo red,	10G	Himedia AR Grade
106.	Copper sulphate pentahydrate	500G	Himedia MBR Grade
107.	Crystal violet	25G	Himedia ATC Grade
108.	Cupric sulphate	500G	Himedia AR Grade
109.	Devarda alloy	250G	Himedia AR Grade
110.	Di potassium hydrogen phosphate	500G	Himedia AR Grade
111.	Di sodium hydrogen phosphate	500G	Himedia ATC Grade
112.	Di sodium hydrogen phosphate dihydrate	500G	Himedia AR Grade
113.	diethylenetriaminepentaacetic acid	500G	Himedia AR Grade
114.	Dimethyl sulfoxide	500mL	Himedia MBR Grade
115.	Disodium arsenate	250G	Himedia AR Grade
116.	di-Sodium tetraborate decahydrate	500G	Himedia AR Grade
117.	Dithiothritol	5G	Himedia ATC Grade
118.	DL-Maleic acid	500G	Himedia MB Grade
119.	DL-Tartaric acid	500G	Himedia
120.	DNA Diluents	1L	Himedia AR Grade
121.	Ethidium Bromide	5G	Himedia MB Grade
122.	Ethyl acetate	500mL	Himedia AR Grade
123.	Ethylenediaminetetraacetic acid	500G	Himedia AR Grade
124.	Ethylenediaminetetraacetic disodium dihydrate salt	100G	Himedia AR Grade & Molecular grade
125.	Ferric chloride anhydrous	500G	Himedia AR Grade
126.	Ferric hydroxide		Himedia AR Grade
127.	Ferric sulphate hydrate	500G	Himedia AR Grade
128.	Ferric sulphate hydrate	500G	Himedia AR Grade
129.	Ferroine indicator	100mL	Sigma
130.	Ferrous sulphate	500G	Himedia AR Grade
131.	fluorescein	100G	Sigma
132.	fluorescein diacetate	5G	Sigma
133.	Folin & ciocalteus phenol reagent	100mL	Himedia LR Grade
134.	Formaldehyde	500mL	Himedia MB Grade
135.	Glycerol	2.5mL	Himedia MB Grade
136.	Glycine	500G	Himedia MB Grade
137.	Gum acacia	500G	Himedia AR Grade
138.	Triclogel instant hand disinfectant gel	100ml	Himedia
139.	Hydrindantin	5G	Sigma
140.	Hydrogen peroxide	500mL	Himedia PTC Grade

Sl. No.	Particular	Specification	Brand
141.	Hydroxil amine hydrochloride	500G	Himedia AR Grade
142.	Indole Acidic Acid	25G	sigma
143.	L-Cystein	100G	Himedia ATC Grade
144.	Leucine	100G	sigma
145.	L-Glutamic acid γ -monohydroxamate	100mg	Sigma
146.	L-Glutamine	100G	sigma
147.	Lithium Acetate	100G	Sigma
148.	Lithium hydroxide	500G	Himedia AR Grade
149.	Magnesium carbonate light	500G	Himedia
150.	Magnesium chloride (anhydrous)	500G	Himedia MB Grade
151.	Magnesium hydroxide	1KG	HimediaLR Grade
152.	Magnesium oxide heavy	500G	Himedia AR Grade
153.	Magnesium sulphate	500G	Himedia AR Grade
154.	Malachite green %	500mL	Himedia AR Grade
155.	Manganese chloride	500G	Himedia MB Grade
156.	Manganese sulphate	500G	Himedia MB Grade
157.	Methyl red	10G	Himedia AR Grade
158.	Methylene blue,	100G	Himedia MB Grade
159.	Mixed indicator		Himedia AR Grade
160.	N-(1naphyl) ethylenediamine dihydrochloride	10G	Sigma
161.	Nessler's reagent	100ml	Merck
162.	NH ₄ -oxalate monohydrate	500G	Himedia AR Grade
163.	Ninhydrin	25G, 100G	Sigma
164.	n-octyl alcohol	500mL	Himedia AR Grade
165.	N-phenylanthranilic acid indicator	100G	Himedia AR Grade
166.	Oxalic acid	500G	Himedia AR Grade
167.	pH tablet (pH4, 7, 9.2)	10 no	Himedia AR Grade
168.	Phenol crystal	500G	Himedia AR Grade
169.	Phenol red sodium salt	5G	Himedia ATC Grade
170.	Phenolphthalin indicator	100mL	Merck
171.	<i>p</i> -nitrophenol	25G	Himedia AR Grade
172.	<i>p</i> -nitrophenyl phosphate disodium salt hexahydrate	25G	Himedia MB Grade
173.	<i>p</i> -nitrophenyl- β -D-glucopyranoside	1G	Sigma
174.	Poly Ethylene Glycol MW 1000	500G	Himedia AR Grade
175.	Potassium borohydride	100G	Himedia
176.	Potassium chloride	500G	Himedia AR Grade
177.	Potassium dichromate	500G	Himedia AR Grade
178.	Potassium dihydrogen phosphate anhydrous	500G	Himedia AR Grade & Molecular grade
179.	Potassium hydroxide pelletes	100G	Himedia AR Grade
180.	Potassium iodide	250G	Himedia AR Grade
181.	Potassium nitrate	500G	Himedia MB Grade
182.	Potassium nitrate	500G	Himedia AR Grade
183.	Potassium permanganate	500G	Himedia AR Grade
184.	potassium <i>p</i> -nitrophenyl sulfate	1G	Sigma
185.	potassium sodium tartrate	500G	Himedia AR Grade
186.	Potassium sulphate	500G	Himedia AR Grade

Sl. No.	Particular	Specification	Brand
187.	salicylic acid	500G	Himedia AR Grade
188.	Salicylic acid	500G	Himedia AR Grade
189.	Silver Nitrate	25G	Himedia AR Grade
190.	Silver sulphate	25G	Himedia AR Grade
191.	Sodim phosphate monobasic anhydrous	500G	Himedia MB Grade
192.	Sodim phosphate tribasic dodecahydrate	500G	Himedia AR Grade
193.	Sodium acetate anhydrous	500G	Himedia MB Grade
194.	Sodium arsenate dibasic heptahydrate	250G	Himedia AR Grade
195.	Sodium arsenite	100G	Sigma
196.	Sodium azide	100G	Himedia MB Grade
197.	Sodium carbonate anhydrous	500G	Himedia AR Grade
198.	Sodium chloride	500G	Himedia AR Grade
199.	Sodium chlorite	500G	Himedia AR Grade
200.	Sodium dichloroisocyanurate	25G	Sigma
201.	Sodium dihydrogen phosphate monohydrate	500G	Himedia LR Grade
202.	Sodium dodecyl sulfate	100G	Himedia AR Grade
203.	Sodium hexa metaphosphate	500G	Himedia AR Grade
204.	Sodium hydrogen carbonate	500G	Himedia AR Grade
205.	Sodium hydrogen sulphite	500G	Himedia AR Grade
206.	Sodium hydroxide flakes	500G, 5Kg	Himedia AR Grade
207.	Sodium hydroxide pellets	500G	Himedia MB Grade
208.	Sodium hypochlorite 4% w/v solution	1L	Himedia AR Grade
209.	Sodium molybdate dihydrate	500G	Himedia AR Grade
210.	Sodium nitrate	500G	Himedia AR Grade
211.	Sodium nitrite	500G	Himedia AR Grade
212.	Sodium nitropruside dihydrate	500G	Himedia AR Grade
213.	Sodium phosphate dibasic dihydrate	500G	Himedia AR Grade
214.	Potassium nitrite	250G	Himedia AR Grade
215.	sodium salicylate	250G	Himedia AR Grade
216.	sodium sulpahte anhydrous	500G	Himedia AR Grade
217.	Sodium sulphide hydrated, flakes	500G	Himedia
218.	Sodium sulphite	500G	Himedia AR Grade
219.	Sodium thiosulphate anhydrous	500G	Himedia AR Grade
220.	Starch soluble	500G	Himedia AR Grade
221.	Streptomycin sulphate	5G	Himedia ATC Grade
222.	Sulphanilamide	100G	Himedia AR Grade
223.	Trichloroacetic acid	500G	Himedia AR Grade
224.	triphenyl formazan	10G	Sigma
225.	triphenyl tetrazolium chloride	10G	Sigma
226.	Tris (hydroxy methyl) amino methane buffer	500G	Sigma
227.	Tris buffer	500G	Himedia ATC Grade
228.	Triton X-100	500mL	Himedia MB Grade
229.	Trizma® base	250G	Sigma
230.	Urea	500G	Himedia MB Grade
231.	Xantham gum	500G	Himedia
232.	Zinc acetate dihydrate	500G	Himedia AR Grade
233.	Zinc chloride	500G	Himedia AR Grade

Sl. No.	Particular	Specification	Brand
234.	Zinc sulphate	500G	Himedia AR Grade
235.	α -ketobutyric acid	10G	Sigma
236.	Beta mercapto ethanol	500mL	Himedia MB Grade
237.	4-Nitrophenyl N-acetyl- β -D-glucosaminide	250mg	Sigma
238.	Soil testing kit for macronutrient	100 test	Himedia
239.	Water chloride test	300 test	Himedia
240.	Water total hardness test	300 test	Himedia
241.	Water nitrite test	300 test	Himedia
242.	Water nitrate test	100 test	Himedia
243.	Water iron test	100 test	Himedia
244.	Water ammonia test	300 test	Himedia
245.	Water carbondioxide test	300 test	Himedia
246.	D-Ribose	5G	Himedia MB grade
247.	Rose bengal, practical grade	25G	Himedia
248.	Trichloroacetic acid	500mL, 2.5L	Himedia AR Grade
249.	Acetic acid	500mL, 2.5L	Merck AR Grade
250.	Hydrofluoric acid	500mL, 2.5L	Himedia AR Grade
251.	Sulphuric acid	500mL, 2.5L	Merck AR Grade
252.	Nitric acid	500mL, 2.5L	Merck AR Grade
253.	Perchloric acid	500mL, 2.5L	Himedia AR Grade
254.	Hydrochloric acid	500mL, 2.5L	Merck AR Grade
255.	Phosphoric acid	500mL, 2.5L	Merck AR Grade
256.	Actinomyces broth	500G	Himedia
257.	Agar agar powder	500G	Himedia
258.	Agarose (Low Melting & Normal MB grade)	100G	Sigma
259.	Alexondrov agar	500G	Himedia
260.	Azospirillum Medium w/ 0.17% Agar	500G	Himedia
261.	Azotobacter agar	500G	Himedia
262.	Bacillus selective agar	500G	Himedia
263.	Beef extract powder	500G	Himedia
264.	Carboxy methyl cellulose (MOLECULAR BIOLOGY)	100G	Himedia
265.	Casein hydrolysate	500G	Himedia
266.	catalase from bovine liver	5G	Himedia
267.	Cellulose powder	500G	Himedia
268.	Cyclohexamide	1G	Himedia
269.	Czapek Dox Broth	500G	Himedia
270.	D-biotin	10G	Himedia
271.	Dextrose broth	500G	Himedia
272.	Dextrose monohydrate	500G	Himedia
273.	D-fructose	500G	Himedia
274.	D-galactose (MOLECULAR BIOLOGY)	100G	Himedia
275.	D-glocose anhydrous (MOLECULAR BIOLOGY)	500G	Himedia
276.	DL-malic acid (MOLECULAR BIOLOGY)	500G	Himedia
277.	D-Maltose bacteriological grade	500G	Himedia
278.	D-Mannitol (MOLECULAR BIOLOGY)	500G	Himedia
279.	D-Mannose (MOLECULAR BIOLOGY)	500G	Himedia
280.	D-Melibiose,	5G	Himedia

Sl. No.	Particular	Specification	Brand
281.	D-Xylose,	100G	Himedia
282.	Gelatin	500G	Himedia
283.	GenElute™ Bacterial Genomic DNA Kit		Sigma
284.	Gram staining kit		Himedia
285.	HiPurA™ Soil DNA Purification Kit	50 Preparation	Sigma
286.	Jensen broth media	500G	Himedia
287.	KB009™ HiCarbo kit		Himedia
288.	L glutamine	100G	Himedia
289.	Lactose monohydrate, bacteriological grade	500G	Himedia
290.	L-Arabinose,	25G	Himedia
291.	L-Lactic acid	5G	Himedia
292.	L-tryptophan	25G	Himedia
293.	Luria agar	500G	Himedia
294.	Luria broth	500G	Himedia
295.	L-Xylose,	5G	Himedia
296.	Lysozyme from chicken egg white	5G	Himedia
297.	MacConkey Agar	70 prep	Sigma
298.	Maltose	1G	Sigma
299.	Nutrient agar	500G	Himedia
300.	Nutrient broth	500G	Himedia
301.	p-dimethyl amino benzaldehyde (Kovac's reagent).	500G	Himedia
302.	Pectin	100G	Himedia
303.	Peptone bacteriological grade	500G	Himedia
304.	Pikovsky agar	500G	Himedia
305.	Potato dextrose agar	500G	Himedia
306.	Pseudomonas agar medium for detection of Fluorescein	100G	Himedia
307.	Raffinose pentahydrate	10mg	Sigma
308.	Rhizobium Medium	500G	Himedia
309.	sucrose Molecular biology grade	500G	Himedia
310.	Trehalose,	5G	Sigma
311.	Triton X-100 Molecular biology grade	500mL	Himedia
312.	Tryptone Soya Broth	500G	Himedia
313.	Tween 20 Molecular biology grade	500ml	Himedia
314.	Tween 80 Molecular biology grade	500ml	Himedia
315.	Yeast extract powder Type I	500G	Himedia
316.	yeast manitol agar w/1.5% agar	100G	Himedia
317.	yeast manitol agar w/congo red	500G	Himedia
318.	D-Arabinose	10G	Himedia
319.	L-Arabinose	25G	Himedia
320.	MOPS buffer, free acid	100G	Himedia
321.	2-Propanol	500mL, 2.5L	Himedia AR grade,
322.	Ethanol	500mL, 2.5L	Himedia AR & Molecular grade
323.	Methanol	500mL, 2.5L	Himedia AR & Molecular grade
324.	Toluene	500mL, 2.5L	Himedia AR & Molecular grade
325.	Benzene	500mL, 2.5L	Himedia AR grade,
326.	Acetone	500mL, 2.5L	Himedia AR grade,
327.	Butanol	500mL, 2.5L	Himedia AR grade,

Sl. No.	Particular	Specification	Brand
328.	Chloroform	500mL, 2.5L	Himedia AR & Molecular grade
329.	Anti-oxidant assay kit	200 test	Sigma

- All the glass good, plastic wares, chemicals for molecular biology work

They are requested to submit quotations mentioning make and specifications. They must quote the price of all the items with GST, inclusive of it, wherever applicable (should be clearly mentioned). The authority will have the right to reject any quotation without showing any reason. For further details please contact with the office of the under signed during office hours (9.30 am to 5.30 pm). Last date of submission is within 15 days of issue of this notification.



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(N.C. SAHU)