Quotation Notice

Competitive quotations are invited from reputed manufacturers/authorized distributors for the supply of **one number of each** of the item listed below.

<table>
<thead>
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<th>No</th>
<th>Item</th>
<th>Specification</th>
<th>Remarks</th>
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</table>
| 1  | Fluorescence Microscope | (a) 10 µs to 20 ms exposure time per frame  
(b) Ten of three light excitation module generating measuring and actinic light (tunable light spectra)  
(c) Multiple fluorophore imaging  
(d) 70% peak quantum yield with about 4 electrons readout noise  
(e) Automated software based system operation  
(f) Spectrally resolved or ultrafast (µs) spot measurements of fluorescence and absorbance kinetics. | stead state fluorescence  
multicolor fluorescence  
fast fluorescence induction with 1µs resolution  
microscope body option:  
Axioimager M2 and Axioscope A1 |
| 2  | Photo Multiplier Tube (PMT) and accessories | Spectral Response: 185 nm-900 nm  
Luminous Sensitivity (Cathode) : 350 nm (min)  
Luminous Sensitivity (Anode) : 1000 Nm (min)  
Rise time: 1.4 ns  
Ripple noise peak to peak (max): 0.5 mv  
Dark current: 10 nA | High sensitivity in UV to near IR range |
| 3  | Helium-Neon Lasers | (a) **Laser wavelength: Green**  
Laser Power: 2 milliWatts  
Operating Voltage: 120-240 V  
Beam area:0.83 mm²  
Beam Divergence: 0.8400 millirad | Wavelength Range: 543 nm  
polarized output,  
internal Power supply |
|    |      | (b) **Laser Wavelength: Red**  
Laser Power: 2 milliWatts  
Operating Voltage: 120-240 V  
Beam area:0.8100 mm²  
Beam Divergence: 1 millirad | Wavelength Range: 633 nm  
polarized output,  
internal Power supply |
| 4  | Digital Storage - Oscilloscope | Maximum Bandwidth : 500 MHz  
Real time Sampling rate:5GSa/S  
Dual sampling modes  
Three input impedance selections  
4 channel requirement. 25K Points memory | Large 8 inch SVGA TFT LCD screen with advanced digital signal processing technology.  
visual Persistence  
Oscilloscope (VPO) |
| 5 | **LED Light Source** | (a) Blue 447 nm,  
(b) Red 617 nm,  
(c) Cool white,  
(d) Warm white and  
(e) Tri color lamps | One each.  
Panel size (20 cmx20cm) |
|---|:---|---|---|
| 6 | **Bench top (Mini) Freeze Dry Systems (Lyophilizer)** | (a) **2.5 liter capacity cascade type freeze dry systems.** HCFC/CFC free type, LCD display (for both temperature and pressure), Alarm alert during power interruption, servicing needs and other events.  
(b) **Standard drying chamber** with stainless steel body and clear acrylic cover.  
(c) **Fast freeze flasks (vials)** Made from borosilicate glass with silicone rubber tops. Wide mouth design with caps (vial type) 2 ml, 5 ml, 10 ml capacity.  
(d) **Rotary vane vacuum pump** Connect tube and accessories. | Condenser volume 2.5liters  
Condenser performance : 1.2 kg/24 hrs  
Maximum condenser ice capacity 1.5 kg  
**Maximum sample capacity 1.5 liters**  
Condenser temp: minus 80°C±5°C  
(b) **Standard drying chamber** with stainless steel body and clear acrylic cover.  
With 12 or 16 ports and no shelves capable of accommodating glassware of any size.  
(c) **Fast freeze flasks (vials)** Made from borosilicate glass with silicone rubber tops. Wide mouth design with caps (vial type) 2 ml, 5 ml, 10 ml capacity.  
(d) **Rotary vane vacuum pump** Connect tube and accessories. | Motor: TEFC  
Duty cycle: Continuous  
Maximum Temperature : 40°C  
Power: 115/230 VAC, 50/60 Hz  
Oil Capacity : 0.7 Liters |

Kindly quote the lowest price for the above items. Rate quoted should be inclusive of taxes, transportation charges and other charges if any. **Sealed quotations** should reach by post to the undersigned on or before 22-01-2015 by 5:00 pm. **Dr.Yamuna.A, Principal Investigator (SERB Project), Post Bag No.32, Department of Optoelectronics, University of Kerala, Kariavattom Campus, Thiruvananthapuram, Kerala, India.**