



# YOGI VEMANA UNIVERSITY

## Department of Zoology

Vemanapuram, Kadapa, A.P. - 516 005

Dr. N. Venkata Rami Reddy,

Mob. 9866094531, [nvramireddy@gmail.com](mailto:nvramireddy@gmail.com)

Assistant Professor & Principal Investigator, SERB Project

No. NVRR/YVU/SERB/equipment/Call for Quotations/2018

Date: 11-10-2018

### Quotations invited

Sir,

**Sub:** Department of Zoology, Yogi Vemana University, Kadapa – Supply, Installation of “Thermal cycler, Microplate Absorbance spectrophotometer, Hyperoxia (O<sub>2</sub> Controller) In vivo Cabinet, Hyperoxia (O<sub>2</sub> Controller) In vitro Cabinet for cell culture” - DST-SERB-Project – Call for Quotations – Request – Regarding.

**Ref.:** 1. Project sanction order from SERB bearing No. EMR/2017/000973 dated 11-09-2018

2. Proceedings of the Vice-Chancellor bearing No. YVU/DEVP/Dr.NVRR/SERB Project/1<sup>st</sup> installment/Permission/2018-19. Dated 11-10-2018

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You are requested to send your lowest price quotation in duplicate towards the supply and installation of “Thermal cycler, Microplate Absorbance spectrophotometer, Hyperoxia (O<sub>2</sub> Controller) In vivo Cabinet, Hyperoxia (O<sub>2</sub> Controller) In vitro Cabinet for cell culture” accessories” with the specifications listed below with terms and conditions in the name of “**The Registrar, Yogi Vemana University, Vemanapuram, Kadapa-516 005, A.P., India**” so as to reach on or before **10-11-2018** through postal/courier/by-hand. The university is not responsible for the postal delays.

S.NO	Equipment Name/Model	Technical specifications	
1	<b>SimpliAmp™ Thermal Cycler, Part Number : A24811</b>	Block format	96-well, 0.2 mL VeriFlex™ Blocks
PCR volume range		10-100 ul	
Reaction speed		Enabled to run Fast chemistry, Controllable ramp rate	
Program features		Program overwrite protection, auto restart	
VeriFlex Blocks range		10 °C (5 °C Zone to zone with 3 VeriFlex zones	
Temperature accuracy		+/- 0.25 °C (35-99.9 °C)	
Max block range rate		4 °C /Sec	
Temperature range	0-100 °C		

		Max sample ramp rate	3 °C /sec
		Temperature uniformity	<0.5 °C (30 sec after reaching 95 °C)
		Temperature calibration	Calibrated to standard traceable to the national institute of standards and technology
		Dimensions	21x24x46 cm
		Weight	8.3 kg
		Instrument memory	USB and onboard memory
		Display interface	8 inch color TFT LCD
		Power	100-240 V, 50-60 Hz
		Data connectivity	Ethernet or Wi-fi
2	<b>Thermo Scientific Multiskan FC (IVD model)</b> Part # <b>51119010</b>	Wavelength range	340 – 850 nm
		Half-bandwidth of filters	3 – 9 nm
		Read-out range	0 – 6 Abs
		Linearity (405 nm)	0 – 3 Abs, + 2%, 96-well plate, fast mode 0 – 4 Abs, + 2%, 96-well plate, normal mode 0 – 2.5 Abs, + 2%, 384-well plate, fast mode 0 – 3 Abs, + 2%, 384-well plate, normal mode
		Resolution	0.001 Abs
		Accuracy (405 nm)	+ 1% (0.3 – 3 Abs), + 2% (3 – 4 Abs)
		Precision (405 nm)	CV ≤ 0.2% (0.3 – 3 Abs), CV ≤ 1.0% (3- 4 Abs)
		Measurement speed	6 s, 96-well plate, fast mode, 12 s, 96-well plate, normal mode
		Optional incubator	Temp. range from ambient + 4° C up to 50° C
		Shaking	Linear shaking with three modes: slow, medium and fast
		Robotic compatibility	Yes
		Display	High contrast color display (480 x 272 dots)
		User interface	Internal software or PC control with SkanIt Software
		Internal memory (standalone)	At least up to 99 assay protocols and 100 test results, 96-well plate
		External printer type Communication	HP PCL5, USB for computer connection , USB memory stick position for data export USB for external printer
		Mains input, Power consumption, Overall dimensions, Weight	100 – 240 V (50/60 Hz) Max. 100 Va, standby 8 Va ca. 210 mm (H) x 90 mm (W) x 400, (D)8.5 kg
		PC requirements for SkanIt Software Minimum system requirements	IBMR PC compatible computer with Pentium 4, AMD Athlon XP or faster processor.1 GB RAM, 5 GB free hard disk space, USB, CD-ROM drive, mouse or equivalent, X VGA monitor with 1024 x 768 resolution
		Operating system	Windows XP Professional with service pack 2 or Windows VistaR 32 or 64 bit Business edition
3	Coy Laboratory Product USA make "Oxygen Control for	<b>Code #</b> 8430230	<b>Size</b> : 30"W x 20"D x 20"H, (762 x 508 x 508mm) HSN Code 84192090 <b>Features:</b> O2 controller and sensor Tubing and Fittings for connection to Gas Source(s), Front Loading Door

	In-for Live Animal Studies, in vivo cabinet" <b>Model 30</b>		Pressure relief valve, Two sensor ports for O2 and CO2, Circulation fan, Gas inlet, Pullout sliding shelves
<b>4</b>	Coy Laboratory Product USA make "Oxygen Control Cabinet for Cell Culture Studies In-Vitro Cabinet, Model 2, 2 Shelf.	<b>Code #</b> 8420202	Size: : 11.5" H x 16" W x 15" D, 292 x 406 x 381 mm, HSN Code 84192090 <b>Features:</b> O2 controller and sensor Pressure relief valve Two sensor ports Circulation fan Gas inlet Pull-out sliding shelves Humidification tray

The sealed quotation should invariably be super scribed as “**‘Equipment name’ against enquiry No: NVRR/ZOOL/YVU/SERB/2018/Equipment, Dt. 11-10-2018**”. You are also requested to send full details like catalog, etc. (if any). Quotations include, terms and conditions, unit price, taxes/duties, warranty period, validity of quotation, payment mode, transport charges, etc.

Thanking you,

Yours faithfully,

**[VENKATA RAMI REDDY NARALA]**  
Principal Investigator, SERB Project  
Department of Zoology