



**P.G. DEPARTMENT OF ZOOLOGY**  
**MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY**  
**SRIRAM CHANDRA VIHAR, TAKATPUR, BARIPADA,**  
**MAYURBHANJ-757003, ODISHA**

No. CM/BRNS-RP/01/2023

Date: 04.01.2023

## **TENDER NOTICE**

Sealed tenders are invited from reputed registered authorized supplier/distributor having valid GSTIN for supply of equipment costing Rs 14.00 lakhs to be purchased under BRNS Research Project. Details and specification of the equipment is available in the University website nou.nic.in. The tenders must reach the office of the undersigned on or before 5.00 pm of 27.01.2023. The same will be opened on 31.01.2023 at 3.00 pm in the Office of the Head of the Department, Zoology, Maharaja Sriram Chandra Bhanja Deo University. Interested parties/suppliers may be present at the time of the opening of the quotation. The authority reserves the right to reject any or all quotations without assigning any reason thereof.

### **1) UV VIS Spectrophotometer: Quantity-1**

Microprocessor based UV-VIS Spectrophotometer for operation on 220V / 50Hz.

- Stand-alone operation as well as complete control through PC with PC software supplied as standard
- Double beam optics with Czerny-Turner monochromator
- Wide wavelength range of 1,100 nm to 190 nm
- Variable Spectral Bandwidth 0.5, 1, 2, 4, 5 nm
- Wavelength setting in 0.05 nm
- Wavelength accuracy of  $\pm 0.1$ nm for D<sub>2</sub> spectral line
- Wavelength repeatability of  $\pm 0.1$ nm
- Variable wavelength scanning speed:  $\geq 3,000$  nm/min
- Slew rate : 4800 nm/min
- Ultra low stray light of <0.05% at 220nm NaI, 360nm NaNO<sub>2</sub>
- Wide Photometric range of -3.0 to +3.0 Abs and 0 to 300 %T
- High Photometric Accuracy of  $\pm 0.002$  Abs (0~0.5 Abs)
- High Photometric Repeatability of Less than  $\pm 0.001$  Abs (0~0.5 Abs)
- Baseline stability:  $\leq 0.0004$  Abs/30 min (500 nm, one hour after light source turned ON)
- Baseline flatness:  $\pm 0.001$  Abs (1100 ~ 190 nm, one hour after light source turned ON)
- Ultra low Photometric noise of < 0.0008 Abs (500 nm)
- Dual source – high intensity Halogen lamp and Deuterium lamp with built-in light source auto position adjustment
- High sensitivity Silicon Photodiode detector

- 3 or more USB ports for high speed PC and printer connectivity
- All operational modes as standard – Photometric; Spectrum; Quantitation; Kinetics, Time Scan, Bio-method in stand alone and PC mode.
- Large sample compartment compatible with wide range of accessories.
- Must supply one pair of 10mm path length Quartz Cuvettes of 3.5 ml volume as a standard supply
- 12 months warranty from the date of installation
- Power back-up and stabilizer.

## **2) Cold Centrifuge- Quantity-1**

- Micro controller based High speed refrigerated research centrifuge
- Table top model
- 4.3” LCD display with touch screen
- PLC controlled
- Programmable up to 99 programmes
- Automatic rotor identification
- In built pre cooling programme
- Hydraulic hinges for door
- Facility to Set rpm or RCF
- Maintenance free Brush less induction motor
- Variable frequency drive
- 10 acceleration and 10 deceleration programs along with additional 5 set programs as per user requirements.( Total 25 programs )
- Self diagnostic system with error messages
- Frequency controlled, vacuum encased, direct induction drive
- Temperature Range (°C) -20.0 – 40.0
- Max. Speed (rpm)- 20000, Max RCF (g)- 27800, Max. Volume (ml)- 4 x 100 ml
- Automatic rotor identification with self locking rotor.
- Temperature Control should be  $\pm 1$
- Timer (minutes) 1-99
- Noise level (dB)  $\leq 50$  dB
- Power Usage (W) 1000
- Input voltage (VAC) 230 , 50 / 60 Hz
- ISO 9001, ISO 13485, IEC,ROHS and CE
- Dimensions (mm) 620 x 480 x 340
- 3 years warranty from the date of installation

## **3) Dry block incubator- Quantity-1**

- Temperature Range, (+/-)- Ambient 5°C to 130°C
- Timer Range, (or continuous)-0-9999 min
- Heating Up Time, (Minute)- 20
- Temperature Accuracy, (+/-) (°C)-0.1
- Power Supply-200/240 V

- Voltage-m200/240 V
- Relative Humidity Tolerance, (</-)-20% - 80%; non-condensing
- Temperature Uniformity at 37°C,) (+/-) (°C)-1
- Protection class according to DIN EN 60529 IP 21, EN 61326-1
- Tube Types- PCR tubes, PCR strips, cuvettes, Conical Bottom Centrifuge Tubes, Standard Test Tubes, Different reaction vials
- Block Capacity-2
- Set up Block Material-Aluminium alloy
- Block Type-Full, Half, Quarter

#### **4) Minor field equipment**

##### **Camera- Quantity-1**

- Digital SLR camera with CMOS-type sensor
- Max Shutter Speed: 1/4000 sec
- Resolution 24 mp or higher
- 4K video recording
- ISO range -100-25600
- Built in Wifi
- EF-M18-55 lens



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