

101
11/3/15

Department of Botany
School of Life Sciences
Guru Ghasidas, Vishwavidyalaya
Bilaspur- 495009, (C.G.)

Limited Tender Enquiry
(Under two bid system)

Date: 11/3/15

Subject: limited tender enquiry for the supply of Equipments/Instruments for Research project in the Department of Botany (for DBT R&D Project)

Sealed quotations are invited for the following two items **under two bid systems with the desired specifications as listed below. The sealed quotations must reach to Dr Santosh Kumar Prajapati, PI of project, Department of Botany, School of Life Sciences, Guru Ghasidas, Vishwavidyalaya, Bilaspur- 495009, (C.G.) by registered or speed post only on or before April, 3, 2015.**

Santosh Kumar Prajapati
(PI) 11/3/15

HOD (CSIT) for uploading on website pls.

Forwarded
Date
11/3/15

प्राध्यापक एवं विभागाध्यक्ष
Professor and Head
वनस्पति शास्त्र विभाग
Department of Botany
गुरु घासीदास विश्वविद्यालय, बिलासपुर (C.G.)
Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

Santosh Kumar Prajapati
11/3/15

CSIT

CSIT/240
11-3/15

1. Refrigerated Small Benchtop Centrifuge.

For both your clinical- and research-focused customers, the ventilated centrifuge should fit in to their labs and workflows, while standing out with the following specifications and product innovations:

- **Maximized capacity in a compact footprint**

- o 24 standard blood tube capacity with swinging bucket rotor
- o 8 x 50 ml conical tubes in swinging bucket rotor
- o 30 microtubes and spin columns with 30 x 2 fixed angle rotor
- o 4 microplates in swinging bucket rotor

- **Innovative Technologies**

- o The Centrifuge should have a feature to **install and remove rotor without tool in less than 5 seconds with just a push of a button** for quick and easy change of rotors for different applications
- o **Swing out rotors must operate in a safe manner without spring clips or metal components.** The **buckets and rotor sealing lids must be certified for bio-containment by a 3rd party lab of worldwide recognition like the Public Health Laboratory Service, Microbiology Services, Porton Down, UK**
- o The centrifuge **must be CE, CSA and UL certified for safety containment.**
- o The Centrifuge should be *certified and maintained in accordance to the ISO 13485 international standard.*

- o The centrifuge should confirm to **IVD directives.**

- o **Eleven versatile rotor options**

- o For clinical customers: Process a wide range of clinical tubes in both swinging bucket and fixed angle rotor configurations
- o For research customers: The flexibility to spin conical tubes and microplates in a swinging bucket rotor, as well as process microtubes in a fixed angle rotor

- **Outstanding performance**

- o **Must be supplied with 30 x 15 ml Conical tubes with more than 3,000 x g**
- o Must have provision to upgrade with Blood tube processing with more than 3,000 x g
- o **Must be supplied with Microtubes processing with more than 30,000 x g**

- **Designed for reliable and consistent results**

TECHNICAL SPECIFICATIONS

- **Max Speed** : 17,000 rpm or more
 - **Max. RCF** : 30,000 x g or more
 - **Max. Capacity** : 6 x 50 ml (F/A) & 4 x 145 ml (S/O) rotors;
 - **Temp. Range** : Set from -9 °C to +40 °C per 1 °C increment
 - **Drive** : Maintenance free, frequency controlled spindle type, direct Brushless Induction drive; Low Profile motor
 - **Control** : Microprocessor controlled ;
 - **Display** : Digital display for temp., speed , time & RCF;
 - **Programs** : 4 protocols via direct access key, with naming option and password protection available
 - **Refrigerant & insulation:** CFC free ;
 - **Run time** : 0-9 hrs 99 minutes , continuous operation ;
 - **Dimensions (h/w/d) mm:** 360 / 623 / 605 ;
 - **Weight** : 35 kg
 - Built-in service diagnostic; Suitable for 230V, AC, 50 Hz
 - **Certifications** UL listed / CE marked / IVD compliant/Certified Biocontainment
- Can be upgraded with choice of different rotors**

2. Plant-Growth Chamber

Broad temperature range ideal for applications requiring night/day simulation, precise temperature control and uniformity over a broad temperature range

- Programmable heating and lighting cycles: 7-day program with 2 light cycles per day
- Dual-lamp fluorescent lighting provides 300-foot candles for uniform illumination
- Easy-to-read LED display shows actual temperature within 0.1°C
- Push-button microprocessor controls feature temperature setpoint selection
- Forced-air circulation delivers excellent temperature stability
- RTD temperature probe and protected setpoint mode prevent accidental temperature change
- Compressor relay conserves energy
- Easy-to-clean, corrosion-resistant construction
- CFC-free, foamed polyurethane insulation prevents heat loss
- Door key lock protects samples from unauthorized access

Technical Specifications

Capacity: **504L (17.8 cu. ft.)**

Interior Dimensions (D x W x H): 26.5 x 57.0 x 20in.

Exterior Dimensions (L x W x H): 32.0 x 75 x 29.0in.

Temp. Range: -10° to +50°C / +10° to +50°C (Illuminated)

Temp. Uniformity and Sensitivity @20°C: ±1.5°C / ±2.0°C

Shelves: 6

Electrical: 230V 50 Hz (5.8A)