

**BHASKARACHARYA COLLEGE OF APPLIED SCIENCES
(UNIVERSITY OF DELHI)
Sector – 2, Phase – 1, Dwarka, New Delhi – 110075**

Ref. No. : Purchase/BCAS/BMS/2013-14/NR/01/

Dated : 3rd February, 2014

Last Date for receiving 14th February, 2014

Sealed quotations (valid upto 31st March, 2014) are invited for the purchase of the following items. Interested parties/suppliers/authorized dealers are requested to submit Quotations (Technical and financial bids separately sealed and further sealed in a single cover) as per the following Technical Specifications of the below mentioned item/s.

1. Refrigerated Centrifuge (Next page)

Instructions to the suppliers:

If you are interested to supply the same, send your Quotations along with details in a sealed cover to the undersigned. Two kinds of bids must be submitted in the Quotation, **one technical bid** consisting of all technical details along with relevant terms and conditions, and **one financial bid** containing price for the item mentioned in the technical bid. Both the bids should be sealed by the supplier in separate envelope duly super scribed as **“Quotation for Refrigerated Centrifuge(Department of Biomedical Science)”** and **Our Ref. No. & the Last Date** for receiving the quotation on top of the sealed cover and then both these sealed covers should be further enclosed in a **Main cover (C)** which should also be sealed and super scribed in the same manner as above.

P.S. : We are hereby enclosing stickers to be put on the main covers.

The supplier shall bear all the costs associated with the preparation and submission of its quotation including samples, literatures, etc.

The supplier should provide the following information / documents with their **Quotation**:

1. Product Catalog of the item.
2. Quantity and other Technical Specification
3. The Firm should be registered with the Sales Tax Authority and should clearly mention valid TIN number, as per the Govt. Policy.
4. Warranty period
5. Details of support and service centres.
6. Applicable taxes and charges for onsite installation.

Incomplete Quotations or the ones submitted after due date would be summarily rejected. Any alteration/overwriting should also be avoided. The College reserves the right to cancel any or all Quotations without assigning any reason thereof. Moreover, College will not be responsible for any postal delay.

The decision for the placement of Order is at the sole discretion of the Principal of the College.

TECHNICAL SPECIFICATIONS**Refrigerated Centrifuge****Number of Item = ONE**

Refrigerated centrifuge must comply with the following specifications:

Performance:

- Must have wide temperature range of -11°C- + 40°C, which is modifiable during the run operation
- Centrifuge must have a “fast cool” function where cooling process can be shortened
- Must have a standby cooling and heating mode up to 8 hours which enables cooling or heating even when not in operation.
- Must have automatic temperature start up at a specific time to automatically pre-prepare temperature before centrifugation
- Must be able to maintain at 4°C at max. speed
- Max speed of 17,500rpm, max rcf of 30,130g adjustable from 100rpm upwards in an increment of 10rpm up to 3000rpm and in an increment of 100rpm thereafter.
- Acceleration time to maximum speed must be less than 14s for all rotors at max load and a deceleration time of less than 15s with the standard 30 x 1.5/2ml rotor, but has option to accelerate and decelerate gently for sensitive samples using SOFT function
- Timer for run can be set up to 99minutes continuous
- Must have “At set rpm” function which enables timer countdown to be started only when selected speed is achieved

General features:

- Must have digital display of time, speed and temperature
- Programmable time and speed using jog dials
- Must be able to store 50 routine procedures with 5 programmable buttons for frequently used programs in the first level
- Able to switch display between rcf and rpm speed setting
- Separate short spin key and Low noise levels less than 63db at max speed
- Brushless maintenance free drive
- Automatic motorised locking when lid almost closed

Safety features:

- Must follow safety standards set by IEC 1010-2-020
- Rotor should be made of anodised aluminium to ensure chemical resistance
- Chamber must be of stainless steel material
- Rotor must be autoclavable at 121°C for 20min to completely eliminate any contaminating material
- Aerosol tightness should be certified by external body such as the Centre for Applied Microbiology and Research, Porton Down, UK
- Automatic imbalance detection
- Automatic rotor recognition
- 2-point lid screwing for maximum security even at high speed centrifugation

Rotor Required

- Fixed angle rotor accommodating 24x 1.5/2ml tubes for high speed centrifugation with minimum 17500 rpm and 30,000g force.
- Fixed angle rotor accommodating 6x 15/50ml Falcon® with minimum 7000 rpm and 7500 g force.