



NO. CU/CPEPA/NR/CA/2018-19/005 Date: 16/08/2018.

NOTICE INVITING Quotation

Quotations for the following item(s) are invited from authorized parties (preferably sole distributors) for supplying the under noted item for The Centre with Potential Excellence in a Particular Area (CPEPA) under the Tender committee represented by Prof. DebasishBandyopadhyay, Professor, Dept. of Physiology, C.U., Subject Expert, Prof. PrithaMukhopadhyay, Co-ordinator, CPEPA Scheme, Dept. of Psychology, C.U. and Dr.SwarupPoria, Associate Professor, Dept. of Applied Mathematics, C.U., Subject Expert.

Suppliers are hereby requested to submit quotations for the item including the current Trade License, GST Certificate, PAN, and Copy of Registration Certificate with Statutory Authorities and other credentials within 10 days from the publication of this notice in a sealed envelope addressed to the undersigned. The authority reserves the right to accept/reject any quotation without showing any reason thereof.

Item Description	Quantity
Compact versatile refrigerated micro centrifuge	1

Specifications:

Centrifuge should have Large, full color touch screen graphical user interface (GUI) which is intuitive, easy to use, and can be read from a long distance

Specifications:

- Forces to 1,019,000 x g at speeds to 150,000 rpm (2,500 revolutions per second)
- Sound Level: Quiet-less than 47dBA
- Set temperature: 0 to 40°C in 1°C increments
- Heat output not to exceed 2,400 BTU/hr (0.7 kW/hr)

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- Moisture purging vacuum system permits continuous removal of moisture to prolong vacuum pump oil life
- Speed control of ± 50 rpm and temperature control of $\pm 2^{\circ}\text{C}$
- Imbalance tolerance of up to 10% in opposing tubes.
- Ten acceleration and eleven deceleration profiles independent of rotor weight
- Thermoelectric heating/cooling; no refrigerants/compressors
- Automatic rotor lock-down requiring no manual locking procedures
- Auto restart after power failure
- User defined programs : Unlimited
- Must be able to offer remote control and monitoring (via Ethernet connection) to run the system from outside the lab or standard biosafety hood.
- Must be able to export run data in .csv format to Microsoft Excel or other spreadsheet formats through the standard USB port to a flash drive.
- Must have an air-cooled direct drive system that requires no brushes, gears or high-speed bushings. This provides efficient operation and long-life of the instrument. Air cooling eliminates chlorofluorocarbons and compressors which results in less instrument down time and less output of heat and noise.
- Must be able to safely insert and remove rotors without manual locking mechanisms. Automatic rotor locking allows secure, fail-safe rotor fastening for the greatest reliability and speed.
- Must have a small physical footprint, 73.9 cm (29.1 in) W x 61.7 cm (24.3 in) D x 39.4 cm (15.5 in) H and require only 7.6 cm (3 in) for airspace ventilation around the unit.
- Remote control of instrument from multiple sources including computer, or by cell phone, iPod touch, iPad..
- HEPA filter option should be available.



- Adapters/kits to adapt small samples in larger rotors without sacrificing the maximum force of the rotor, to shorten separation time up to 50 percent.
- **Simulation Software to be included in the main offer** : Windows based Software should provide unprecedented centrifugation capabilities. It should assist us in developing the most efficient centrifugation methods, selecting the rotor and labware for a given application, then simulating the results before performing separations of proteins and sub-cellular particles. Password protection for up to three levels of users allows us to grant the right level of access to the right people. With this degree of centrifugation knowledge, we get more efficient use, faster turnarounds and peace-of-mind security.
- **Below ROTOR to be included in the main offer:**
 1. **Fixed-Angle Rotor, Titanium** :
Max. RPM : 150,000rpm, Max. RCF : 1,000,000 x g or more , k Factor – 11 or less,
Number of Tubes : 8 x 2.0mL, Rotor Capacity: 16mL

Tubes to be included:
2mL sealable tubes to be included along with the system – 100 numbers.
1mL tubes should run at 150,000 RPM.
 2. **Fixed Angle Rotor, Titanium** :
Max. RPM : 80,000rpm, Max. RCF : 440,000 x g or more , k Factor – 29 or less,
Number of Tubes : 8 x 8mL, Rotor Capacity: 64mL

Tubes to be included:
50 numbers of suitable 8mL tubes to be included
 3. **Swing Out Rotor** , :
Max. RPM : 50,000rpm, Max. RCF : 268,000 x g or more , k Factor – 71
Number of Tubes : 4 x 5.0mL, Rotor Capacity: 20mL

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Tubes to be included:

50 numbers of suitable 5mL thin wall P.A tubes to be included

All other necessary accessories to run the equipment functional.

Must have service centre in Kolkata and prompt service back up

Suitable servo stabilizer to be provided.

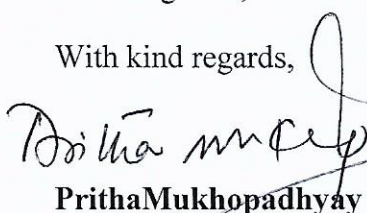
Terms and Conditions:

1. Bid should also contain a "Compliance Certificate" or "Datasheet" duly signed by the manufacturer or bidder.
2. Installation, and commissioning of the components purchased is to be done by supplier(s) at our premises. Charges on account of installation and commissioning, if any, should be quoted separately. Otherwise it will be treated that all the charges for the same is included in quoted price
3. Tender Specific Authorization from respective OEM for participation for this Tender or Sole proper.
4. Bidder or OEM must not be blacklisted at CU or any Government Organization in Country
5. Banking details or Photocopy of Cancel Cheque of the vendor/bidder to be enclosed with quotation.
6. Please note that CU reserves the right to select the Vendor for placing Work Order and lowest quotation does not guarantee selection of Vendor
7. The OEM should have their Sales & Support office in India.

Your kind co-operation is solicited in this regard,

Thanking You,

With kind regards,



Pritha Mukhopadhyay

Professor, Department of Psychology

Coordinator of CPEPA

University of Calcutta.

Co-ordinator
CPEPA
University of Calcutta

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Item Description	Quantity
Probe Sonicator	1

General Specification of Probe Sonicator:

SYSTEM VOLUME CAPACITY: 150 µl to 150 ml.

POWER SUPPLY :Net power output: 130 Watts. Frequency: 20 kHz

Dimensions: (H x W x D) 4½" x 9¾" x 12½" (115 x 250 x 320 mm)

Weight: 6.5 lbs. (3 kg)

Can be run continuously or in a **pulsing mode**

CONVERTER : Piezoelectric lead zirconatetitanate crystals (PZT)

pulsing button. Compatible with this instrument

Diameter: 1¼" (32 mm)

Length: 5¾" (146 mm)

Cable length CV 18: 5' (1.5 m)

Cable length CV 188: 6' (1.8 m)

STANDARD PROBE : Tip diameter: ⅛" (3 mm). Processing capability: 250 µl to 10 ml.*

Length: 5⅞" (138 mm). Titanium alloy Ti-6Al-4V. Autoclavable.

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All necessary accessories to run the equipment functional.

Suitable servo stabilizer to be provided.

Must have service centre in Kolkata and prompt service back up

Warranty for minimum One year.

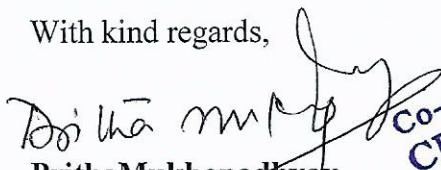
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With kind regards,


Pritha Mukhopadhyay
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