



DEPARTMENT OF CHEMICAL TECHNOLOGY
UNIVERSITY COLLEGES OF SCIENCE & TECHNOLOGY
UNIVERSITY OF CALCUTTA, 92, A. P. C. ROAD, KOLKATA 700 009

Tender Notice

Ref. No. UGC/SAP/ChemTech/Equipment/01/2018-2019

Date: 18-12-2018

Sealed quotation is invited from the authorized vendors within 4th January'2018 for supplying the following laboratory equipment under specification, to be purchased under UGC DRS1 Scheme No. F.5-9/2016/DRS-I(SAP-II), dated April 19, 2016.

Item
Compact bench top centrifuge

Qty
1

Specifications:

- DC Brushless motor with high start torque and frequency inversion for smooth running, maintenance-free.
- Microprocessor control; LED display, Memory flashing function, conversion of RPM/RCF.
- External cold-rolled steel with powder coating steel, stainless steel centrifugal chamber.
- Procedures of adjustable speed from grad 0 to 9 and 40 kinds of self-defining models.
- Functions: Electronic lock lid, imbalance detection, over-speed protection, inching function, short-spin function.
- Technical Parameters

| | |
|----------------------|------------------|
| Max. Speed | 16600 rpm |
| Speed Accuracy | ±30 rpm |
| Max. RCF | 19200×g |
| Max. Capacity | 4×100 ml |
| Timing | 0~99 h59 min59 s |
| Noise | ≤65 dB |
| Power supply | AC220 V, 50Hz, |
| Power consumption | 0.5 KW |
| External size(W*D*H) | 400x350x340 mm |
| Packing size(W*D*H) | 550x500x540 mm |

- Accessories

| No. | Rotor | Speed | RCF | Capacity | Tube (mm) |
|------|-------------|----------|---------|----------|-----------|
| No.1 | Angle Rotor | 12000rpm | 14800×g | 6×50 ml | Φ29×105 |

- **CE CERTIFIED**
- Instrument Warranty: 2 Years
- Post warranty AMC: 3 Years

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(Prof. Achintya Saha)
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Tender Notice

Ref. No. UGC/SAP/ChemTech/Equipment/02/2018-2019

Date: 18-12-2018

Sealed quotation is invited from the authorized vendors within 4th January 2018 for supplying the following laboratory equipment under specification, to be purchased under UGC DRS1 Scheme No. F.5-9/2016/DRS-I(SAP-II), dated April 19, 2016.

| Item | Qty |
|---|------------|
| Deep freezer (-80°C) | 1 |
| <ul style="list-style-type: none">➤ Capacity: Not less than 100 L➤ Should be capable to hold ≥ 6000 nos of 2 ml vials➤ Should have space saving foot print (WxD): 90 x 60cm➤ Insulation: Combination of polyurethane foam and vacuum insulation panel.➤ Should have two compartments.➤ Temp Range: Programmable from -56°C to -86°C in 1°C increments.➤ Pull down time should be < 4 hrs approx.➤ Should maintain -86°C even at 32°C room temperature➤ Micro Processor control of temperature and alarms with non-volatile memory➤ Automatic reset to prevent microprocessor controller from failure caused by power spikes.➤ Should have hermetically-sealed two stage cascade system (Compressor $2 \times \frac{3}{4}$ HP)➤ Two pass through port 20 mm dia➤ Should be stackable upto two high.➤ 4-digit password to prevent unauthorized use,➤ Should have autodialer option in the event of alarm condition➤ Should have battery backup to activate alarms and display temperature during power outage.➤ Should have audible and visible alarms for temperature, filter clean, power out, low Battery, system fail, fault analysis,➤ Should have diagnostic software for fault condition.➤ Inner door should have silicone seal to prevent temperature loss and Outer door should have safe silicone triple point seal➤ Should have heated air vent with manual plunger to prevent vacuum formation,➤ Should have auto restart function after power failure,➤ Freezer must use CFC-FREE, HCFC-FREE nonflammable refrigerants, and refrigeration system must be energy efficient and hermetically sealed two stage cascade refrigeration system. Compressor should be capable to run any voltage between 190 – 270 V. Freezer must have ISO 9001 standard quality test requirements and IEC 61010 Electrical safety CE & UL certified.➤ Power consumption should be < 9 kWh/day➤ Should be quoted with racks and box of 2” height➤ Freezer should have electric supply of 230v/50 Hz, 10 amps. Single phase Freezer should be supplied with 3 KVA voltage stabilizer.➤ Instrument Warranty: 2 Years➤ Post warranty AMC: 3 Years | |

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Tender Notice

Ref. No. UGC/SAP/ChemTech/Equipment/03/2018-2019

Date: 18-12-2018

Sealed quotation is invited from the authorized vendors within 4th January'2018 for supplying the following laboratory equipment under specification, to be purchased under UGC DRS1 Scheme No. F.5-9/2016/DRS-I(SAP-II), dated April 19, 2016.

| Item | Qty |
|-----------------------------|------------|
| Low Temperature Bath | 1 |

Specifications:

- Microprocessor control, provides precise and stable temperature.
- Advanced recycle pump system ensure the steady and constant humidity. Automatic protection for overheating and over current.
- Power-off protection, automatically delay for three minutes.
- Environmental protection refrigerant, saving energy and reducing consumption.
- Using large screen display, convenient and intuitive to monitor the working conditions.
- **Standard Type:**
 - Temp. Range (°C) : +70° to -20°
 - Temp. Resolution (°C) : ±0.5
 - Capacity (L) : 5
 - Circulating pump flow (L/min) : 15
 - Consumption (W): 200
 - Pump Lift (m) : 4
 - Power Supply : AC220V±10%, 50/60 Hz
- **CE CERTIFIED**
- Instrument Warranty: 2 Years
- Post warranty AMC: 3 Years

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