



UNIVERSITY OF DELHI SOUTH CAMPUS

Department of Microbiology

University of Delhi South Campus

New Delhi-110021

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No: Micro-SDC/YPK-2020-01

Date: 31.07.2020

Tender for “Refrigerated centrifuge with Swing buckets for Microplate/Elisa Plates and Fixed angle rotors” purchase through e-procurement portal

The quotations are invited under two-bid system for “**Refrigerated centrifuge with Swing bucket for Microplate/Elisa Plates and Fixed angle rotors (Total 3 rotors with accessories)” with FOR destination** (Department of Microbiology, University of Delhi South Campus) **price** (Indian Rupees only) for supplying and installation of the item as described below latest by 31st August 2020 by 12:00 PM. **Quantity: Refrigerated Centrifuge (One) + Three different types of rotors as per tender specifications mentioned below**

Sr. No	Name of the Equipment	Specification	Quantity
1	Refrigerated Centrifuge	<ul style="list-style-type: none">Centrifuge with the capability to handle swing-out and fixed-angle rotors (also adapter tube capacity for 0.5 ml, 15 ml, 50 ml tubes, PCR/Micro titer plate and swing buckets)Minimum Volume handling capacity of machine should be 2.5 Litres or more,Minimum speed for fixed angle rotors 14,000 rpm or moreMinimum RCF ~20,500 xg force,LCD Display with Lid lock safety for start, stop and lid openDisplay With RPM, RCF, Time and temperature on a single screenKeypad operation of machineMaintenance free brushless/induction motor driveStainless steel centrifuge bowlMicrocontroller/ processor controller for speedRapid acceleration and deceleration with a minimum of 30 run storage memory.Selection freedom of RPM or RCF during programming.Short and continuous run facility and minimum Timer	1

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31/7/2020
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		<p>setting 1 min to 99 min</p> <ul style="list-style-type: none"> • System timer count only when set RPM or RCF is achieved • Machine should have choice of acceleration and deceleration steps • Metallic rotors/Aluminium rotors and rotor lids, both should be fully autoclavable at 121°C • Motorized soft-touch lid closure and automatic smooth lid opening, Spin completion warning with beep • Noise level during maximum speed operation should be below 70 dBA • Swing out rotors minimum RPM 3600 and RCF of ~2,200 xg force or more. • All Rotors & Swing buckets must have aerosol tight metallic lids and autoclavable@121 °C. • Automatic detection of rotor type and imbalance recognition with cutoff safety feature (With warning sign, stoppage of machine and beep) for operational safety • CFC free refrigeration (Temperature range -5 °C to 40 °C) • Machine should not drift from set point of 4 °C at maximum operational speed • Machine should have rapid cooling and stand-by cooling options • Automatic shut of the compressor when not in use for a long time to increase compressor and machine life • The machine should have emergency lid release switch or knob (in case of power failure or accident) • Alarm system in case of malfunction • Window in Lid for external speed control • Very important Note: In case of up-gradation with a different rotor to run the machine at 2.5 Litres volume or more, Kindly mention compatible rotor with catalog no with the quoted machine rotor can be a swing rotor or fixed angle rotor to handle the desired volume <p>Accessories: Total 3 Metallic and aerosol tight rotors with mentioned adoptors</p> <p>Swing out rotor to accommodate minimum 8 Microtiter/ELISA/Culture plates 96 well Minimum RPM 3,700 rpm and 2,200 x g. Aerosol tight metallic lids and</p>	
2.	<p>Accessories: Total 3 rotors</p> <p>Swing out rotor for ELISA/PCR/Culture plates</p>		1

3.	Fixed Angle rotor (either 6 x 50 ml tubes or 8x50ml tubes)	autoclavable@121 °C. (Quantity 01) Atleast 6 place Rotor for 6 x 50 ml tubes or 8 place Rotor for 8 x 50 ml tubes. Minimum 12,000 RPM and above 20,000xg RCF (Compliance for both parameters required). Aerosol tight metallic lids and autoclavable@121 °C. (Quantity 01)	1
4.	Adapter for 15 ml conical tubes	6 adapters for 15 ml conical tubes in 50 ml rotor. (Quantity 06)	6
5.	Fixed Angle rotor (Either 24x1.5/2.0 ml or 30 x 1.5/2.0 ml tubes)	Fixed-angled Rotor 24 or 30 x 1.5/2.0 ml tubes with minimum 14,000 rpm & RCF 20,500 x g (Compliance for both parameters). Aerosol tight metallic lids and autoclavable@121°C. (Quantity 01)	1
6.	Adapter for 0.2ml and 0.5ml Microtubes	24 or 30 adapters each for 0.2ml and 0.5ml Microtubes/PCR tubes. (Quantity 24 or 30 each)	24/30 (each)

Very Important Note: In case of up-gradation to larger volume handling minimum 2.5 Litres or more by machine, please mention clearly the required rotor with part no. and original catalog and weblink on manufacturer site

Important: For technical compliance, read the complete tend document very carefully before bidding.

1. Nothing is optional in this tender, so quote the final price, including all the above requirements i.e. Centrifuge, required rotors (total 3), and adopters. **FOR destination price in Indian Rupee must be quoted.** Quotations are invited under two-bid system
2. Should carry Certification of US or European standard for the quoted equipment. Documentary proof to be submitted.
3. The vendor should have at least 10 years of track record of supply of centrifuges. Documentary proof to be submitted.
4. The vendor/manufacturer should enclose user list with the address of at 10 users **of the same model** installed throughout India in various reputed Institutes/Universities/ICAR/CSIR/ICMR/other research labs in government-funded institutions. Documentry proof required , with phone no and complete address.

5. The vendor should submit an authorized distributor certificate issued by the original manufacturer for the quoted item. Manufacturer or vendor must have post sale service provider in Delhi in case of any technical or function issue with machine.
6. Vendor should also enclose the original literature/catalogue/company brochure and fill out a compliance sheet, with the relevant page number and line number of the brochure mentioned against each point of the technical specifications given above. The quoted specifications/features should be available on the company website (**Please provide the original manufacturer website showing the requested technical specification**).
7. The machine should be under “**Complete warranty**” for **12 months (1Years)** from the date of installation.

Important Information:

1. Bidder should be Manufacturer/ Authorized Partner/ Reseller of the manufacturer and a Letter of Authorization from the manufacturer for the same and specific to the tender should also be enclosed. The bidder should also be the Authorized Service Provider. (attach the required certificate)
2. All vendors are requested to attach original technical literature/ catalogue in support of the mentioned specifications & highlight the above features. The same features should be available on the company website (**Please provide the original manufacturer website showing the specification**).
3. Please note: IGST/CGST+SGST@5% would be applicable for supply to University of Delhi South Campus under Custom notification of 47/2017. DSIR Certificate/CDEC would be provided on request.
4. The quotations should be addressed to **Dr. Y. P. Khasa**, Department of Microbiology, University of Delhi South Campus, Benito Juarez Road, New Delhi-110021, and should be **uploaded on the e-procurement portal, latest by 31st August 2020 by 12:00 PM.**
5. Quotations have to be submitted in a **two-bid system**. The first part, **Technical bid**, should consist of all technical details and supporting documents with terms and conditions. **A Compliance Sheet must be filled by the vendor** against each point and giving reference of the same (page number, line number) in the supporting company brochure/document.
6. The second part, **Financial bid**, should contain item-wise pricing of items mentioned in the technical bid.
7. The bidder will have to quote all the required items together: partial quotes will not be accepted. For each item, make and model, have to be mentioned clearly. (Nothing is optional)
8. The quote should be valid for 90 days from the due date.
9. Payment will be made by wire transfer or through online system as per University rules after the installation of the instrument.

Commitment to Accept Lowest or Any Tender

- Demonstration of the equipment with all accessories (mentioned in tender document) will be required if needed on the recommendation of the purchase committee at Department of Microbiology, University of Delhi South Campus, New Delhi-110021.
- The University of Delhi shall be under no obligation to accept the lowest or any other offer received in response to this tender notice and shall be entitled to reject any or all offers. The University of Delhi will not be obliged to meet and have discussions with any vendor and or to listen to any representations.

Date: 31-07-2020

Yogender Pal 31/07/2020
Dr. Yogender Pal Khosa
Department of Microbiology