

**DEPARTMENT OF BIOCHEMISTRY, NEW SOUTH CAMPUS-BLOCK II,  
SECTOR-25, PANJAB UNIVERSITY, CHANDIGARH**

Ref. No. \_\_\_\_\_

Dated: \_\_\_\_\_

Please quote your rates in duplicate for the following article/articles mentioned in the attached list. The quality, make, packing and other particulars of each item should be clearly stated.

While submitting the quotation please note the following points:-

1. **Quotation should be submitted in two parts:-**
  - (a) **Technical bid consisting of all technical details along with commercial terms and conditions; The technical bid should be on the prescribed format in ANNEXURE I and the supplier should fill in all the specifications visa vis to required specifications under “supplied specifications” head.**
  - (b) **Financial bid indicating item-wise price for the items mentioned in the technical bid.**
2. **Quotation should be accompanied with 2% EMD of estimated cost of the Equipment. in favor of Dr.Dipanjan Dutta,(P.I), Department of Biochemistry, Panjab University, Chandigarh. Quotation without EMD will not be considered.**
3. It should be clearly stated whether the rates are **inclusive of sales tax** etc.
4. The rate of insurance, if any should be specified.
5. Please certify if you are the manufacturer/ authorized selling agent/ distributor for the following item(s).
6. The rate should be strictly F.O.R. destination.
7. The quotation under sealed envelope should be sent to, **Dr.Dipanjan Dutta (P.I) Department of Biochemistry, BMS Block-II, New South Campus, Sector-25, P.U; Chandigarh** by name under Registered cover/ Speed post/Courier/By hand.
8. All cutting and over-writings must be initialed.
9. The last date for the receipt of quotation in this Department is **16.03.2018.**
10. The envelopes containing the quotation should be the words **“Quotation for Refrigerated Lab Centrifuge (table top/bench model)” due on 16.03.2018.**

(Dr.Dipanjan Dutta)  
Principal Investigator

**Specifications: Attached at Annexure-I**

## Annexure-I

	Required specifications		Supplied specifications
<b>A.</b>	<b>Compulsory guide lines:</b>		
1.	Type of Centrifuge	<b><u>Refrigerated ( table top / bench model</u></b>	YES/NO
2.	Directive/Standard	Construction in accordance with European directives. CE certificate of equivalent quality certificates to be attached along with the quotation.	YES/NO
3.	Power supply	220-240V/50 Hz, single phase	
<b>B.</b>	<b>External make and basic built</b>		
1	Size	W ~730X D ~640 X H ~330 mm/ 60-80 Kg	
2	Inner working chamber	The inner working chamber should be of stainless steel with user friendly height for easy sample loading	
<b>C</b>	<b>Motor:</b>		
		It should have brushless motor, maintenance free (and no carbon deposit) with noise level no more than 55 dB	
<b>D</b>	<b>Rotor, bucket and adaptor</b>		
		The machine should be supplied with <b><u>Multi option Swing out Rotor to accommodate buckets for capacity upto 150 ml or more and each bucket should be capable to accommodate adaptors for 15 ml , 50 ml falcon tubes</u></b>	
<b>E.</b>	<b>Temperature range</b>		
		It should be capable of running at temperature range from 0°C to ambient temp with pre cool function before actual running.	

<b>F.</b>	<b>Display and control</b>		
		Microprocessor based controller and should have facility of automatic rotor detection, multi parameter color LCD display with speed in both RCF and PRM format and display of other essential data and facility to store 8 or more program with protection.	
<b>G.</b>	<b>Speed</b>		
		The machine should be capable of running at a Maximum speed of 14000 RPM/ equivalent RCF or more for angle head and 4000 RPM/ equivalent RCF or more for swing out rotors along with safety speed limiter function	
<b>H.</b>	<b>Miscellaneous</b>		
		Additional features such as timer with continuous mode, short spin, Digital adjustment of acceleration and deceleration profiles , imbalance detection with automatic shut down to avoid accident, automatic lid locking on motor run, safety opening of the lid in case of absence of electric power. Also supply of suitable voltage stabilizer.	
<b>I.</b>	<b>Warranty and AMC</b>		
		Warranty minimum 3 Years, plus minimum 2 years AMC.	