

ICMR – National Institute for Research in Tuberculosis

Chetpet, Chennai – 600 031

Name of Equipment : REFRIGERATED CENTRIFUGE

Name of the Department : HIV/AIDS

Quantity Required : 1 No

TECHNICAL COMPLIANCE SHEET

S. No	Specifications	Compliance Yes / No	Page No. (If Yes, mention the supporting document Page No.)	Remarks (if any)
1	Table top centrifuge for high volume (3L or more) applications			
2	Temp range from -11°C to 40 °C and ability to maintain 4°C at max speed.			
3	Machine should have capabilities of holding 10 different rotors for maximum versatility.			
4	ECO shut off that engages after 8 hours (adjustable) of nonuse to reduce energy consumption and extend compressor life.			
5	Machine should have an option to use following Rotors (Supply not required)			
	a) Fixed Angle Rotor for 20 x 5ml. RCF >20,000			
	b) Fixed Angle Rotor for 48 x 15ml. RCF >5000			
	c) Fixed Angle Rotor for 30 x 1.5/2.0ml. RCF >20,000			
	d) Fixed Angle Rotor for 6 x 15/50ml. RCF >20,000			
6	Universal Swing out rotor – High Capacity			
	a) Speed above 4300 x g			
	b) Max capacity 4 X 750 ml			
	c) Universal Bucket should hold minimum of 56 Nos (5ml tube) / 32 Nos (15ml conical tube) / 16 Nos (50ml conical tube) / 4 MTP/384 plates without changing the adapters for individual tube configuration			
	d) Should have aerosol tight Quick lock caps for future upgradation			
	e) Rotor should be made of anodized aluminum for high chemical resistance. Both rotors and adapters should be autoclavable			
	f) Rotor should be compatible with 5ml tubes, 15ml tubes, 50ml tubes and 96 microtiter deep well plates			
7	Timer : 10 s – 99 h 59 min, with continuous mode			
8	Centrifuge timer should start after the set RPM reached and noise level <55 dB(A) for universal rotor			
9	Short spin key with selectable rotational speed.			
10	RPM/RCF Conversion feature and RCF selection via radius should be available.			
11	Fast Temp pro function allows automatic precooling based on pre-programmable time and date			

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12	10 Acceleration and Braking ramps for added protection of sensitive sample material.			
13	Automatic rotor recognition to sense rotor type and to set maximum allowable speed and ensures safety.			
14	Program memory upto 99 nos with on board 5 program keys for easy access to routine programs			
15	The company should provide installation qualification, operational qualification and performance qualification with log book for maintenance of the equipment at no extra cost.			
	Additional Accessories:			
16	A suitable sturdy movable table (with tray/rack system) for keeping the centrifuge and accessories.			
17	One number of suitable and reputed brand of 5kva UPS (minimum 30 minutes power backup) with batteries, movable battery stand.			
	Warranty:			
18	The entire refrigerated centrifuge should be provided with minimum one year standard warranty , additional 3 years comprehensive and 2 years non-comprehensive warranty (including calibration of Timer, Temperature and Speed with traceability every year) from the date of installation.			
	Others:			
19	The firm should provide necessary original documentary evidence of the features of the offered model in the technical bid to facilitate proper technical evaluation.			
20	Purchase orders, contact details and user satisfactory reports of the quoted model from Nationalized or reputed laboratories all over the India must be shared with quotation.			
21	Complete installation and testing the main system and the accessories to their specifications done at the site of installation free of cost. All utility requirements for installation and running the system should be mentioned in the offer.			
22	Please indicate the year in which the model offered was introduced into the market and confirm whether the spares for the system would be available for a minimum period of 10 years and shall not be obsolete within five years of procurement.			
23	Special discount on list price for all spare parts & reagents must be given up to 10 years.			
24	Availability of local service support and response time for a service call during and after warranty specified.			

Note :

- 1) The supplier must send the above filled technical compliance sheet along with the Technical Bid
- 2) Supporting documents should be numbered and required specification must be highlighted for easy comparison.