

**ICMR-National Institute of Cholera & Enteric Diseases
P-33, C.I.T. Road, Scheme –XM, Beliaghata
Kolkata – 700 010**

AMENDMENT

Date : 10.11.2017

**Last date of submission of Bid: 20.11.2017 (upto 1:30 PM).
Last date of opening of Bid: 20.11.2017 (3:00 PM).**

D-2/Equipment 2017-18 (32)
NAME : ULTRACENTRIFUGE
QUANTITY : 1 (ONE)

Amended Specifications

1. Floor standing
2. Fully microprocessor controlled
3. Maximum Speed (rpm): 100,000 or more
4. Speed Control accuracy: ± 10 (max) rpm of set speed (above 1,000 rpm)
5. Set Temperature: $+2^{\circ}$ C to $+40^{\circ}$ C
6. Temperature Control: $\pm 0.5^{\circ}$ C
7. Ambient Operating Range: 10° C to 35° C
8. Accel/Decel Profiles: 10/11
9. Timer: up to 99 hrs or more; HOLD
10. Suitable vacuum system for high-speed operation
11. User-Defined Programs: Yes
12. Rotor Tracking: Yes
13. Built in imbalance protection: Yes
14. Built-in LCD touch-screen display: Yes
15. Step-by-step zonal/CF operation screens: Yes
16. Drive Cooling: Air-cooled
17. Refrigeration System: Thermoelectric module; no CFC, HCFC, ODC etc.
18. Sound Level: <55 dBA
19. Power Requirement: 200-240VAC, 30 A, 50 Hz
20. Warranty: 5 year comprehensive
21. Servo Stabilizer: 5 KVA minimum

22. Titanium rotors (i) fixed angle 6 to 8 slots × ~30 ml for 50,000 to 80,000 rpm;
(ii) fixed angle rotor 8 to 10 slots × ~4 ml for ~ 80,000 rpm;
(iii) swing out rotor of 4 to 6 slots × ~4 ml for 50,000 to 60,000 rpm
23. Optional rotor to be quoted: fixed angle for 1.5 ml conical tubes for virus work
24. All accessory items including tubes for each rotor should be quoted as optional items
25. Documents of International Certification to be provided
26. The vendor is expected to have full-fledged service set-up in Kolkata.
27. List of installations of the quoted model within last three years should be provided.
28. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
29. Compliance certificates should be included.

**** Other terms & conditions and specifications will remain unchanged.**

**Administrative Officer
for Director**