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No. F-8(85) RMSC/EPM/M-1/R. C. 16-17/NIB-184/2016/ 4969

Date: 23/11/16

CLARIFICATION/CORRIGENDUM/ADDENDUM

Subject: - Amended Technical Specifications of Bid document of Item Refrigerated Centrifuge for Blood Components 6-8 Bags, under NIB No. F-8(85) RMSC/EPM/M-1/R. C. 16-17/NIB-184/2016/4464 Date: 24.10.16

In reference to subject cited above and NIB-184, the representations received from the various firms and issues raised by the Bidders, are examined by the competent Authorities and technical committee. The following Clarification/Corrigendum/Addendum is issued for inclusion in Bid document. Amended Technical Specification of items as below:-

1. Amended Technical Specifications of Items Refrigerated Centrifuge for Blood Components 6-8 Bags as below:-

Amended Technical Specifications of item Refrigerated blood component centrifuge (8 Bags)

1. Purpose:

a) 8 bags floor standing refrigerated centrifuge for separation of complete components solution from whole blood.

2. Design and operation:

a) Stable, sturdy all-steel design with stainless steel rotor chamber, should be easy to clean corrosion resistant paintings.

b) Provision of both drain and condensed water collection container.

c) Microprocessor controlled.

d) Programmable memory with temper proof program saving facility, with parallel saving atleast 9 or more programs.

e) CFC free refrigerant.

f) Various formats of Swing-out rotors with metal buckets and with wind shields that should be able to accommodate at least the following:

• Eight 350 ml and 450 ml double, triple, quadruple, quintuple blood bags with SAGM bag and empty satellite bags with in Line filter system.

• Removable plastic adapters to hold single/ double/ triple/ quadruple blood bags with partition in every bucket and with provision to hold balancing weight at the sides of the adapter so that it will not come in contact with blood bags. Balancing weight should be supplied with equipment. Insert with inbuilt hook adapter to spin Buffy coat or small volume of blood and balancing weights for inserts. Automatic lid lock while processing (working mode)

3. Speed and force:

a) Maximum speed at least 4,000 rpm to 4500 rpm

b) Maximum RCF (Relative Centrifugal force) for blood bags: 5000g-6000g.

c) Acceleration and deceleration profiles should be independently adjustable with at least nine brake levels and option for free coasting.

d) Speed variation: microprocessor controlled rotor speed to within 10 rpm of set value.

4. Temperature control

a) Range at least: -8°C to +40°C.

b) Adjustable in 1°C intervals

c) Microprocessor controlled rotor temperature within 1°C of set temperature regardless of centrifuge speed.

5. Programmable centrifugation time: 0min-99min with minimum resolution of 1 minute.

6. Digital display (real time and set target) of temperature, speed and time with minimum no. of 3 digit resolution.

7. Should incorporate alarms for imbalance detection, lid interlock, over temperature, rotor over speed.

8. Motor imbalance detection: automatic shutdown of centrifuge if rotor load is out of balance with appropriate indicator.

9. Power requirement: 220/240 volts, 50 Hz. Single phase AC supply.

10. The equipment shall be suitable for operation from 0 to 40°C at 90% relative humidity. Electronic



- circuitry shall be tropicalised for this ambient condition.
11. Noise level Less then 60 decibels.
 12. The equipment should come with customized castor for changing location.
 13. Protection of data: in event of power interruption or complete failure, data should remain stored indefinitely.
 14. Should have a provision for external connectivity.
 15. It shall have a security lock to prevent unintentional switch off and also unauthorized opening of the equipment.
 16. A suitable stabilizer to be supplied with equipment.
 17. Copper wound single phase automatic line voltage correct or conforming to IS: 9815(PLI)/94 with latest amendments or equivalent international standards fitted with a voltmeter and switch to indicate output/ input voltage.
 18. Input voltage: 140-280 V,50 Hz, output voltage: 220 V \pm 10%.
 19. Input output voltmeter and ampere meter. Protection for high low voltage cut off, overload and short circuit protection.
 20. Equipment should be supplied with 2 meter cord at input and fitted with plugs of appropriate rating.
 21. Certifications:
 - Manufacturing should be compliant with ISO 13485 (Valid documentation should be submitted in technical bid).
 - Should be European CE class II A or US FDA certified (Valid documentation should be submitted in technical bid).
 - Electrical safety: Equipments meets electrical safety specifications as per international norms from a international certifying agency
 22. **Additional requirements:**
 - a) Double pan balance, Balancing weights and plates, plastic inserts and spacers and hooks adaptor for adjusting to different types and sizes of bag/tubing/filter designs, and firm should supply one LAPTOP (System should have i3 processor with latest operating system, HDD 1TB, 4 GB RAM, 17" Screen) with laser printer with Split AC 1.5 ton of repute make Free of cost with equipment. (Guarantee card with bills have to be submit with items to claim guarantee of these items).
 23. **Guarantee:** Three years on equipment from the date of installation.
 24. **CMC:** CMC will be given @ 5 % (of net rate - inclusive of Excise Duty & exclusive of VAT / CST etc.) plus service tax (as applicable) and yearly escalation of 5 % on last year's CMC price. The CMC may be awarded for five years (on yearly basis) after completion of Guarantee period of three years.
 25. The company should submit technical compliance sheet as per technical specifications mentioning the make & model of quoted item along with catalogue in the Technical bid.
 26. Installation will be done by supplier free of cost.
 27. The service engineer should be based in Rajasthan.
 28. Four Preventive Maintenance services annually during Guarantee and CMC period are essential.
 29. Live Demonstration of equipment to verify technical specifications is must for final technical approval

It is also clarified that information of award of contract shall be communicated to all participating bidders on the website www.rmssc.nic.in and sppp.raj.nic.in. Please note that individual bidder will not be intimated."

Note:- Please note that all above amendments/corrigendum in technical specifications/bid conditions is the integral part of (Section-V, Schedule of Supply, and Point no. 3) and the bid document. This corrigendum/ addendum should be signed and annexed with bid document. All other terms & conditions remains the same.

This bears the approval of M.D., RMSCL, Jaipur.

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Executive Director (EPM)
RMSCL, Jaipur