

Technical Specifications of Centrifuge

| S.N. | Technical Specification | Bidder's Proposed Specifications | Page no. in technical datasheet | Deviation (If any) |
|------------|---|----------------------------------|---------------------------------|--------------------|
| | Manufacturer | | | |
| | Brand | | | |
| | Type / Model | | | |
| | Country of Origin | | | |
| 1.0 | Description of Function | | | |
| 1.1 | Centrifuges are required in the Laboratory to separate various components of Blood and any other liquid sample for analysis | | | |
| 2.0 | Operational Requirements | | | |
| 2.1 | Centrifuge shall be aerodynamic compact construction for vibration free performance | | | |
| 3.0 | System Configuration | | | |
| 3.1 | Benchtop centrifuge with complete sets of accessories. | | | |
| 4.0 | Technical Specification | | | |
| 4.1 | Body shall be made up of strong fabricated & corrosion resistant steel | | | |
| 4.2 | It shall be equipped with the swing out or the angled rotor head. | | | |
| 4.3 | It shall be vibration free. | | | |
| 4.7 | It shall have the RPM upto 3500 or more with the speed accuracy 1 RPM | | | |
| 4.80 | Tube Capacity : 8 or more :Size 5 – 15 ml | | | |
| 5.0 | Accessories, Spares and Consumables | | | |
| 5.1 | Accessories | | | |
| 5.1.1 | • Tube holders-8 nos. | | | |
| 5.1.2 | • Spare carbon brush-2 pairs | | | |
| 5.2 | All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above). | | | |
| 6.0 | Operating Environment | | | |
| 6.1 | The product offered shall be designed to be installed and to operate normally under the conditions of the purchaser's site. The conditions include Power Supply, Climate, Temperature, Humidity, etc. | | | |
| 6.2 | It Should be operated by 220V -230V AC,50/60Hz exceed with line regulation of $\pm 10\%$ and power consumption shall not exceed 750 Watts fitted with appropriate plug and the wire must be atleast 3m long. | | | |
| 7.0 | Certifications And Standards. | | | |
| 7.1 | Must submit ISO13485:2003/AC:2007 for Medical Devices AND | | | |




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| 7.2 | CE (93/42 EEC Directives) OR USFDA approved product certificate. | | | |
| 7.3 | Must comply with IEC/TR 61010-3-020 :Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 3-020: Conformity verification report for IEC 61010-2-020:1992 Particular requirements for laboratory centrifuges" | | | |
| 8.0 | User Training | | | |
| 8.1 | The bidder must conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users. | | | |
| 9.0 | Warranty | | | |
| 9.1 | Comprehensive warranty for 1 year after acceptance. | | | |
| 10.0 | Maintenance Service during and After Warranty Period | | | |
| 10.1 | During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required. | | | |
| 10.2 | The bidder must submit the letter of commitment regarding the availability of spare parts and accessories for next 10 years at the time of bidding. | | | |
| 11.0 | Installation and Commissioning | | | |
| 11.1 | The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail. | | | |
| 12.0 | Documentation | | | |
| 12.1 | Bidder should provide user (Operating) manual in English (Hardcopy and CD). | | | |
| 12.2 | Bidder should provide Service (Technical / Maintenance) manual in English (Hardcopy and CD). | | | |
| 12.3 | List of important spare parts and accessories with their part number and costing. | | | |
| 12.4 | Bidder should be provide certificate of calibration and inspection from the manufacturer during installation. | | | |


