Indian Red Cross Society
National Headquarters
Blood Centre

NOTICE INVITING QUOTATION

Quotation for purchase of Blood Bank Equipment's

Subject: Notice inviting the sealed quotation for procurement of various equipment along with consumables and regents / kits.

Sealed quotations are invited from interested firms for the procurement of the following Blood Bank Equipment's at the site of IRCS NHQ Blood Centre.

The firms are requested to quate their rates as per attached specifications.
Detail of the equipment is as under: -

Sl. No.	Name of Equipment & Make Co.	Quantity
1	Apheresis Machine (Blood Cell Separator	1
2	AHG (Coombs)Gel Card along with Free placement of compatible semi-automated system i:e. Micro typing Centrifuge, Micro typing Incubator, Micro typing Reader having LIS interface capability	Approximately 20000 to 25000 test card per year and consumables along with AHG card control
3	Double Distillation Water Unit	2
4	Die electric Blood Bag Tube Sealer	3
5	Tabletop Centrifuge Machine	3

Quotation should be marked "**Quotation of name of equipment or Regent/ kits**" on the envelope. Quotations shall be received only under sealed covers.

The sealed quotation in the name of Dr. Vanshree Singh, Joint Secretary, Indian Red Cross Society, National Headquarters (NHQ), Blood Centre, 1-Red Cross Road, New Delhi-110001.

The Competent Authority has the right to reject or accept any or all quotations without assigning any reason whatsoever. All disputes are subject to Delhi Jurisdiction only.

Please Send

(a) Two sealed envelopes:
(i) For Technical bid as per provided specification
(ii) Price bid

The Technical Committee approved by the competent authority shall evaluate & decide technical bids which are found acceptable after examining the demonstration of the equipment. and AHG gel card along with consumables/kits/reagents and control etc.

Please send the sealed quotation with rate along with warranty period of equipment.
The last date of receipt of quotation is 10th February 2025

Specification of equipment's are attached for references

Indian Red cross Society (NHQ) Blood Centre

TECHNICAL SPECIFICATIONS FOR BLOOD CELL SEPEATOR (APHERESIS MACHINE)

1. Continuous / Intermittent Flow Cell Separator.
2. Single /Dual Needle Operation. (optional Accessory required for single Needle)
3. Built in automated protocols for majority (4 of 6) of the below procedures, which all should be US-FDA or European CE or BIS Approved. An undertaking by the manufacturer mandatory regarding the product model being most recent globally.

    - Leuk reduced Plasma collection
    - Therapeutic Plasma Exchange
    - Single or Double RBC Collection and/ or RBC Exchange
    - Peripheral Blood Stem Cell Collections
    - Leukoreduced Platelet Collection or Plateletpheresis
    - Yield Estimator with optical sensor at PRP line for online monitoring of component collection against the desired yield with LCD monitor for the monitoring of desired parameters.

4. Automatic Pump Loading & Priming of disposable sets.
5. Automated self-test to ensure maximum Donor Safety.
6. Built in Leukoreduction ($< 5x10^6$) for Platelet & Plasm using elutriation (Eg. LRS Chamber) or in line Leukoreduction filter
7. Automatic Leukoreduction validation of platelets and Plasma at the end of procedure.
8. Adjustable product Concentration.
9. Separate Anticoagulation pump with custom programming adjustability.
10. Configurable Maximum volume.depletion levels either by weight or percentage of Total Blood Volume
11. Extracorporeal Volume 150-320ml with saline priming of kit if higher Extracorporeal volume.
12. Inlet & return flow rate up to 100ml/minute.
13. Bulit in access & Return Pressure Senser.
14. Built in air detectors to prevent air embolism.
15. Built in ACD Detector
16. Built in contamination monitor for monitoring & preventing RBC contaminations in platelet collection and plasma exchange.
17. Audio Visual Alarms
18. Periodic Instrument Calibration
19. Additional Accessories

    a) 30 Disposable plateletpheresis kits should be provided with the system
    b) Suitable online UPS for min 1 hr backup with maintenance free batteries mandatory. Cost to be included in the cost of the equipment.
    c) All consumables required for installation & standardization should be supplied.

20. European CE with 4 digit notified body no or US-FDA approval and necessary approval from the licensing authority in India for the apheresis kit.
21. Onsite training should be provided by the technical expert to the users as per requirement.
22. The unit shall be capable being stored and operable continuously in ambient temperature of 0-50^{0}C and relative humidity of 15-90%
23. The unit shall have Increased mobility in challenging conditions with water resistant cover
24. The price for 100 kits will be taken for price comparison and the price will be frozen for 5years.
25. Warranty for 5 years and provide rates of next 5 years CMC
26. Equipment should be newly manufactured and not refurbished. Certificate from principle should be provided.
27. Payment after fulfilling installation qualification, operational qualification &performance qualifications.

Prepared by	Checked by	Approved by
Satish Dubey	Dr. V. Vatsa	Dr. Vanshree Singh
Technical Officer	Medical Officer	Joint Secretary

INDIAN RED CROSS SOCIETY BLOOD CENTER

SPECIFICATIONS FOR GEL CENTRIFUGE, INCUBATOR SYSTEM AND POLYSPECIFIC AHG GEL CARD READER

SPECIFICTION OF CENTREIFUGE FOR SEMI AUTOMATED MICROCOLUMN AGGLUTINATION AHG GEL CARD SYSTEM

1. System should perform tests based on micro column agglutination Technology.
2. Centrifuge should be microprocessor controlled.
3. Should have rotor head for at least 10-12 card /cassettes of micro columns
4. Speed of centrifuge should be 700-1600 rpm
5. Should have digital display speed, time and function.
6. Automatic stop facility with opening of door lock after end of process.
7. The system must be ISO/US-FDA/ European CE certified
8. Should work on 220-240v/50-60 Hz
9. System should have the panel PC with easy-to-use interface

SPECIFICTION OF INCUBATOR FOR SEMI AUTOMATED MICROCOLUMN AGGLUTINATION AHG GEL CARD SYSTEM

1. Should be microprocessor controlled
2. Incubation temperature should be 37+_1C with programmable incubation time of 10-15 minutes
3. Capacity of incubator should be of accommodating at least 20-24 card/cassette at one time
4. Should have digital display of time and temperature
5. Incubator should be ISO/US-FDA/ European CE certified.
6. Should work on 220-240v/50-60 Hz
7. Audio visual indication for end of process, any error or power failure

SPECIFICTION OF AHG GEL CARD READER FOR SEMI AUTOMATED MICROCOLUMN AHG GEL CARD AGGLUTINATION SYSTEM

1. Company Shall provide Semi Automated card reader for reading interpretation and documentation Purpose.
2. Company shall provide reader having facility to capture high resolution images of each side of the reaction
3. Provided reader shall be compatible with their Gel card
4. Reader shall have interface facility to link with our Laboratory information system (LIS)

AHG Gel Card & General Specifications: -

1. Micro typing cards/cassettes should be column agglutination Gel method which is based on hemagglutination and gel filtration
2. This AHG, Anti IgG, C3d Gel card is intended for the detection of antibodies and complement protein on human red blood cells using the Direct and Indirect Antiglobulin Tests.

3. Suitable UPSC should be provided with the system.
4. AMC/CMC/Warranty of Centrifuge, Incubator and Reader shall be effective till the validity of contract period.
5. During the contract period if any advance semi-automated system is introduced by the company that shall be installed in IRCS.BC. free of cost.
6. The company should provide free of cost computer + printer along with the system.
7. The Company Shall provide Control for AHG Gel card time to time free of cost.

8. Supplier should Quote rate of consumable separately that to be frozen till the validity of contract period.
9. Any consumable Not mentioned but required for the running the machine to be supplied free of cost till the validity of contract period.
10. Vender must agree to provide documents relevant to the IQ, OQ and PQ of equipment.

Prepared by	Checked by	Approved by
Satish Dubey Technical Officer	Dr. V. Vatsa Medical Officer	Dr. Vanshree Singh Joint Secretary

INDIAN RED CROSS SOCIETY (NHQ BLOOD CENTRE)

Technical specifications of Double Distillation Water Unit

Description of functions	:	Required for distilled water production for lab
Operational Requirements	:	1. Double Distillation plant with/without wall mounted approximately 4 to 5 liters p/h output. 2. Instant distilled water flow should be there 3. Easy to operate, durable, safe for routine use.
Technical specification	:	1. Quartz distiller, Inbuild /demountable boiler. 2. Double Distillation unit with outflow 4 to 5 liters per hrs. 3. Conductivity of Double Distilled water should be between 0.1 to 0.5 micro-siemens 4. Quality of distillate – pyrogen free, PH 6.9 – 7.0 high Purity, low conductivity 5. distilled water should be heavy metals, salts, pyrogen and iron free 6. Equipment should be thermal shock proof 7. Gas vent should be there to remove volatile Impurities leaving the condensate free from gaseous impurities 8 Automatic low water cut off 9. Tubing should be made of good quality rubber (heat resistant) 10. Wiring of the equipment should be enclosed in case. 11. Unit should be automatically operated including reservoir overflow indicator and switch on / off 12. Entire unit should be housed in a rust-free cabinet 13. Individual heater replacement should be easy, if damaged 14. Cleaning and draining units should be easy.
System Configuration, Accessories, Spares and Consumable	:	System as specified a. Boilers, condenser and heaters should be of Quartz b. Working temperature - 10°C to 100°C c. Temperature Accuracy +/- 0.1 °C
Power Supply	:	Power input to be 220-240 VAC, 50 Hz fitted with Indian plug. Voltage corrector/stabilizer of appropriate rating meeting ISI specification input 160-260 volt and output 220-240 volt and 50 htz.
Standard safety and Training	:	Should be FDA/CE/UL BIS approved product. Company should have ISO Certification, should bear and ISI mark

Consumable		All consumable required for installation and standardization of equipment should be supplied free of cost with equipment.
Safety	:	Safety features with alarms should include sensor: for Gate Valve, Flow switch, temperature control switch and reservoir level sensor
Shock	:	requirement. Ensure safety against electrical hazards. elector magnetic interferences etc.
W ranty	:	Comprehensive onsite warranty inclusive of all spares and labour for five years and five years CMC after warranty.
Performance certificates	:	For earlier/recent executed purchase order of reputed government / private hospital shall be furnished along with the offer

Prepared by	Checked by	Approved by
Satish Dubey Technical Officer	Dr. V. Vatsa Medical Officer	Dr. Vahshree Singh Joint Secretary

Technical specifications for Bench Top Di Electric Tube Sealer (single seal).

Name of Items	Specifications	Units Quantity
Bench Top Di Electric Tube Sealer (single seal)	• Should be compact single unit, heavy duty radio frequency sealer capable of performing at least 500+ sealing in 8 hrs. and should be capable of functioning for minimum 12 hrs. nonstop. • Should have high frequency sealing with low RF emission. • There should be automatic detection of the tube. Tube thickness of up to 6 mm of diameter and wall thickness up to 0.75 mm should be sensed and sealed automatically. • Should be able to detect wet tube, leakage and sealing defects. There should be an alarm in case seal is not safe and completed. Splashguard to protect user from any kind of blood splash during operation should be provided. • Should be able to withstand voltage fluctuation and there should be uniform sealing irrespective of power supply variations. • Indication of seal in progress should be there. • Sealing time should be less than 2 sec. • Separable rupture line to separate tube ends after sealing. • Should ensure safety against electrical shock hazards, fire hazards, and mechanical hazards. • There should be no haemolysis of blood in the tube segments. • No warm-up time should be required. • It should be easy to clean. • Should have hand grip on top side of the equipment for easy lifting of the equipment. • CE/FDA ISO certification specific for the product should be submitted. • Weight of equipment should not exceed 6Kg • Original literature of equipment should be submitted. • User's list should be provided with satisfactory report for the last three years from three Licensed Blood Banks with contact details. • Whenever there is breakdown, the firm will carry out the repair within 48 hours of receipt of such information (either by telephone or by any other means) • Warranty: 5 years warranty without any exclusion from the date of installation for equipment. The cost of warranty and CMC will be included in total cost of the equipment for financial comparison • Electrical: The equipment should be able to run on the existing electrical provision • The demonstration of performance of the equipment is carried out in IRCS (NBQ) Blood centre. Failing which the firm will not be considered for technical evaluation.	3

Satish Dubey 13/6/24
Technical Officer

Dr. Vanshree Singh
Director, Blood Centre

Dr. VANSHREE

Indian Red Cross Society
Blood Centre, New Delhi

Technical Specifications of Tabletop Centrifuge

Name of Items	Specifications	Units Quantity
Tabletop Centrifuge.	• Should have maintenance free brushes motor. • Should be provided with a swing out rotor head. • The capacity of rotor head should be 18-24 tubes of 10-15 ml capacity. • Should have a microprocessor based digital speed and time indicator • Digital count-down time of 1 S-99 minutes • LED OR LCD panel for alphanumeric display of speed and time • Provision of recall of last set parameters for repetitive analysis • Provision of auto shut down • Detection of imbalance and centrifugation stop along with display error • Should have smooth and soft start. • Should have dynamic break for quick de-acceleration. • Should have a safety door lock with open lid detection system to safely secure the lid during centrifugation. • The lock should have an emergency lid lock release. • The inner centrifuge chamber should be made of rust proof stainless steel for ease of cleaning and maintenance. • Capable of stable speed output even in condition where voltage supply is unstable. • Should have a maximum speed of 4000-6000 rpm/min. with swingout rotors. • Should have motor overload protection. • Should have speed relative Deviation < + 2.5.	3

- Original literature of equipment should be submitted.
- User's list should be provided with satisfactory report for the last three years from three Licensed Blood Banks with contact details.
- Whenever there is breakdown, the firm will carry out the repair within 48 hours of receipt of such information (either by telephone or by any other means)
- Warranty: 5 years warranty without any exclusion from the date of installation for equipment. The cost of warranty and CMC will be included in total cost of the equipment for financial comparison
- Electrical: The equipment should be able to run on the existing electrical provision.
- CE/FDA/ISO certification specific for the product should be submitted.
- The demonstration of performance of the equipment is carried out in IRCS (NHQ) Blood centre. Failing which the firm will not be considered for technical evaluation.

Satish Dubey 12/6/24
Technical Officer

Dr. Vanshree Singh
Director, Blood Centre

Dr. VANSHREE SINGH
Director, Blood Centre
Indian Red Cross Society (NHQ)
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