

Amendment No 1

Sub: Technical Amendment for Bid No: GEM/2022/B/1857103, GEM/2022/B/1857059, GEM/2022/B/1856997, GEM/2022/B/1856753, GEM/2022/B/1856702, GEM/2022/B/1856648, GEM/2022/B/1849988, GEM/2022/B/1849964, GEM/2022/B/1849933, GEM/2022/B/1849906, GEM/2022/B/1849881, GEM/2022/B/1849800, GEM/2022/B/1849748, GEM/2022/B/1849729, GEM/2022/B/1849698, GEM/2022/B/1849663, GEM/2022/B/1849634, GEM/2022/B/1849604, GEM/2022/B/1849551, GEM/2022/B/1849517, GEM/2022/B/1849493, GEM/2022/B/1849468, GEM/2022/B/1849275, GEM/2022/B/1848857 Dated: 17.01.2022

The following changes are being incorporated in the aforesaid GeM Bid No.

Technical Specification Amendment

| TECHNICAL AMENDMENT | | |
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| GeM Bid No: GEM/2022/B/1857103 dated 17.01.2022 | | |
| Item No. 01 - Blood Collection Monitor | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 18 | Suitable Automatic Voltage regulator/stabilizer meeting ISI specifications should be supplied. Broad specifications are : Automatic Type Input 150-280V , Output 220 V +/- 7 % , 50 Hz . Single phase , AC with automatic 2-4 sec Cut Off and 6-9 minutes restart delay.. Quick start arrangements for bypassing the start delay. Suitable MCB on input voltmeter and indicators on Front Panel. Input Power Cable with 15 A Plug and six way output terminal strip for two outlets | Deleted |
| Para 18 | Transport case with built-in charger | Transport case |
| Para 18 | Auto Set cable | Deleted |
| GeM Bid No: GEM/2022/B/1857059 dated 17.01.2022 | | |
| Item No. 02 - Blood Tube Sealer | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 18 | Should have hand grip on top side of the equipment for easy lifting of equipment | Should be easy to handle with the grip to hold the sealers |
| GeM Bid No: GEM/2022/B/1856753 dated 17.01.2022 | | |
| Item 04 - Donor Couch | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 7 | Should be able to accommodate Donor weight capacity of more than 200 Kg. | Should be able to accommodate Donor weight capacity of 150Kg or more. |
| Para 13 | Central locking with locking lever: Couch should be movable with wheels with locking facility | Couch should be movable with wheels with locking facility |

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| Para 16 | Trolley should be provided with each couch for keeping blood collection monitor and other consumables. | Trolley (SS 304, having atleast two shelves with adjustable height, suitable size) should be provided with each couch for keeping blood collection monitor and other consumables. |
| Para 20 | Demonstration of performance of equipment is compulsory in nearby area failing to which will be disqualification | Bidder have to arrange demonstration of the quoted model (if required) |
| GeM Bid No:GEM/2022/B/1856648 dated 17.01.2022 | | |
| Item 06 - Refrigerated Blood Bag Centrifuge | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para II.f | twelve 350ml and/or 450ml single, double, triple, quadruple/quintuple blood bags with SAGM bag and empty satellite bags with In Line filter system | twelve to sixteen 350ml and/or 450ml single, double, triple, quadruple/quintuple blood bags with SAGM bag and empty satellite bags with In Line filter system |
| Para III.a | Minimum speed 5,000 rpm and above. | Speed 4,000 rpm and above. |
| Para III.b | RCF (Relative Centrifugal force) for blood bags: 6000g-65000g | RCF (Relative Centrifugal force) for blood bags: 5000g-6000g |
| Para IV i | 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. | The equipment shall be suitable for operation from 0 to 35°C at 80% relative humidity. Electronic circuitry shall be tropicalised for this ambient condition. |
| Para IV j | Noise level within 60 decibels | Noise level within 65 decibels |
| GeM Bid No: GEM/2022/B/1849988 dated 17.01.2022 | | |
| Item 07 - Electronic Double Pan Component Balance | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 15 | Demonstration of performance of equipment is compulsory in nearby area failing to which will be disqualification | Bidder have to arrange demonstration of the quoted model (if required) |
| GeM Bid No: GEM/2022/B/1849964 dated 17.01.2022 | | |
| Item 8 - Blood Bank Refrigerator | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 2.13 | Epoxy coated outside finish and GS interior | Epoxy coated outside finish and GS or SS interior |
| GeM Bid No: GEM/2022/B/1849933 dated 17.01.2022 | | |
| Item 09 - (- 40) DEEP FREEZER | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 2 | CAPACITY: 500-600 Litres | CAPACITY: atleast 600 Litres |
| Para 7 | Construction should be of thin vacuum insulation panel. Insulation should be high density polyurethane or equivalent gasket double seal silicon | Construction should be of thin vacuum insulation panel / high density polyurethane along with equivalent gasket of double seal silicon |
| Para 9 | Freezer should have 4 or more Compartment with two or more adjustable height stainless steel shelves. Separate inner door for each compartment | Freezer should have 4 or more Compartment with two or more adjustable height stainless steel shelves. Separate inner door for each compartment. Added Para : Should be provided with appropriate |

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| | | SS racks for storage of FFP. |
| Para 16 | Freezer must have three or more compartments with inner doors for easy handling of samples | Deleted. |
| Para 19 | External or internal voltage stabilizer should be provided so that Compressor should be capable to run any voltage between 190 – 270V. Manufacturing site for the freezer must have ISO 9001 standard quality test requirements and IEC 61010 electrical safety | External or internal voltage stabilizer should be provided so that Compressor should be capable to run any voltage between 190 – 270V. Manufacturing site for the freezer must have ISO 9001 standard quality test requirements and IEC 60601-1 electrical safety |
| GeM Bid No: GEM/2022/B/1849906 dated 17.01.2022 | | |
| Item 10 - (- 80) DEEP FREEZER | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 2 | CAPACITY: 600 Litres | CAPACITY: 600 Litres or more |
| Para 7 | Construction should be of thin vacuum insulation panel. Insulation should be high density polyurethane or equivalent gasket double seal silicon | Construction should be of thin vacuum insulation panel / high density polyurethane along with equivalent gasket of double seal silicon |
| Para 9 | Freezer should have 4 or more Compartment with two or more adjustable height stainless steel shelves. Separate inner door for each compartment | Freezer should have 4 or more Compartment with two or more adjustable height stainless steel shelves. Separate inner door for each compartment. Added Para : Should be provided with appropriate SS racks for storage of FFP. |
| Para 16 | Freezer must have three or more compartments with inner doors for easy handling of samples | Deleted. |
| Para 21 | The units shall be capable of being stored continuously in ambient temperature of 0 - 50C and relative humidity of 15-90%. | External or internal voltage stabilizer should be provided so that Compressor should be capable to run any voltage between 190 – 270V. Manufacturing site for the freezer must have ISO 9001 standard quality test requirements and IEC 60601-1 electrical safety |
| GeM Bid No: GEM/2022/B/1849800 dated 17.01.2022 | | |
| Item 12 - Vertical Reagent Refrigerator | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| | NA | Added Para : Should provide datalogger or circular chart recorder |
| Para 17 | Demonstration of performance of equipment is compulsory in nearby area failing to which will be disqualification. | Bidder have to arrange demonstration of the quoted model (if required) |
| GeM Bid No: GEM/2022/B/1849698 dated 17.01.2022 | | |
| Item 15 - Laminar Air-Flow Bench (Bio- Safety Cabinet) | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 5 | Demonstration of performance of equipment is compulsory in nearby area failing which the firm will not be considered for technical evaluation. | Bidder have to arrange demonstration of the quoted model (if required) |
| GeM Bid No: GEM/2022/B/1849663 dated 17.01.2022 | | |
| Item 16 - Tabletop Centrifuge with swinging bucket rotor | | |

| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
|--|---|--|
| Para 9 | Rotor for 20 x (5-15 ml tubes) with appropriate tube adapters | Swing out rotor with 24 X (5-15ml tubes) with appropriate tube adapters should achieve RPM 4500 or more & RCF 3300 g or more |
| GeM Bid No: GEM/2022/B/1849634 dated 17.01.2022 | | |
| Item 17 -Elisa Reader and Washer | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para A-2 | Wavelength range 400-800 nm | Wavelength range 400-750 nm |
| GeM Bid No: GEM/2022/B/1849604 dated 17.01.2022 | | |
| Item 18 - Centrifuge & Incubator for column agglutination technique by glass bead/Gel cassettes for Immuno hematology | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 8 | The lid of the centrifuge should be transparent and should have auto-locking during spinning | The lid of the centrifuge should have auto-locking during spinning |
| GeM Bid No: GEM/2022/B/1849493 dated 17.01.2022 | | |
| Item 21 -Refrigerated Blood Component Transport Box | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 4 | Capacity to hold 25-30 blood bags of 450ml | Capacity to hold atleast 40 blood bags of 450ml |
| | NA | Added Para: Transport Box should have wheels with braking / locking system |
| GeM Bid No: GEM/2022/B/1849468 dated 17.01.2022 | | |
| Item 22 - Apheresis Machine | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 3 | Built in automated protocols for majority (4 of 6) of the below procedures, which all should be US-FDA or European CE approved. An undertaking by the manufacturer mandatory regarding the product model being most recent globally | Built in automated protocols for majority (4 of 6) of the below procedures. |
| Para 22 | European CE with 4 digit notified body no. or US-FDA or BIS approval and necessary approval from the licensing authority in India for the apheresis kit | The offered model should be European CE with 4 digit notified body no. or US-FDA or BIS approved. The apheresis kit should have necessary approval from the licensing authority in India. |
| GeM Bid No: GEM/2022/B/1848857 dated 17.01.2022 | | |
| Item 24 - Micro plate Tabletop Centrifuge with Swing out Rotor | | |
| Tender Page & Para | TENDER SPECIFICATION | AMENDED AS |
| Para 23 | Demonstration of performance of equipment is compulsory in nearby area failing to which will be disqualification. | Bidder have to arrange demonstration of the quoted model (if required) |

Note: Following Technical Compliance Sheet Should be uploaded on Gem Portal along with technical offer for respective items.

| GEM Bid No | | GEM/2022/B/1857103 dated 17.01.2022 | | | | | |
|--|--|--|--------------------------------------|--|----------------|--|--|
| Name of the item : | | Blood Collection Monitor | | | | | |
| Name of the Bidder : | | M/s | | | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | | | |
| Country of Origin of quoted item : | | | | | | | |
| Model Quoted: | | | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES - Give Comments | Remarks | | |
| 1 | Should have facility to preset total volume of blood to be collected and accordingly monitor and display amount collected. It should have facility to clamp to stop the collection of blood as soon as preset volume is collected and not allow over collection. | | | | | | |
| 2 | Battery backup should be > 8 hours with continuous work load(rechargeable battery) | | | | | | |
| 3 | Battery charger should be inbuilt | | | | | | |
| 4 | Should be portable (Suitable for outdoor blood donation camps). Weight should be less than 5 kg | | | | | | |
| 5 | Should have standby / park mode | | | | | | |
| 6 | Should be able to operate at 10-50°C | | | | | | |
| 7 | There should be digital display of preset volume, rate of collection and total time taken at the end of collection . | | | | | | |
| 8 | Oscillation: 12 ± 2 rpm | | | | | | |
| 9 | Should mix the blood with anti – coagulant solution during collection and ensure that only correct amount of blood is collected | | | | | | |
| 10 | There Should be Visual display and audible alarm: | | | | | | |
| (i) | when flow rate goes below 20 ml /min or high flow rate above 180 ml / min | | | | | | |
| (ii) | at the end of collection | | | | | | |
| (iii) | when battery low | | | | | | |
| (iv) | during pause function | | | | | | |
| (v) | any abnormal condition | | | | | | |
| 11 | Manufacturer should be ISO 13485 certified. | | | | | | |
| 12 | Every Bio-mixer should be provided with carry box with handle | | | | | | |
| 13 | Original literature should be submitted | | | | | | |
| 14 | Calibration certificate shall be provided at the time of installation in respect of all the | | | | | | |

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| | parameters that require calibration. | | | | | | |
| 15 | User"s list should be provided with satisfactory report for the last three years from three Licensed Blood Banks with contact details. | | | | | | |
| 16 | Original literature of equipment should be submitted. | | | | | | |
| 17 | Electrical: The equipment should be able to run on the existing electrical provision. | | | | | | |
| 18 | Deleted | | | | | | |
| | Accessories :- | | | | | | |
| | - Floor stand | | | | | | |
| | - Transport case | | | | | | |
| | - Standard weights set for Calibration | | | | | | |
| | - Deleted | | | | | | |
| | BOQ | QTY | UOM | | | | |
| 1 | System as specified | 1 | Nos | | | | |

| GEM Bid No | | GEM/2022/B/1857059 dated 17.01.2022 | | | | | |
|--|---|--|--------------------------------------|--|----------------|--|--|
| Name of the item : | | Blood Tube Sealer | | | | | |
| Name of the Bidder : | | M/s | | | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | | | |
| Country of Origin of quoted item : | | | | | | | |
| Model Quoted: | | | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES - Give Comments | Remarks | | |
| 1 | Should be heavy duty radio frequency sealer. | | | | | | |
| 2 | Should be capable of doing 500+ sealing in 8 hrs and should be capable of functioning for minimum 12 hrs nonstop. | | | | | | |
| 3 | Should be a compact single unit | | | | | | |
| 4 | Should have high frequency sealing with low RF emission | | | | | | |
| 5 | There should be automatic detection of the tube by pressing of a lever which activates sensor. | | | | | | |
| 6 | Should be able to detect wet tube, leakage and sealing defects. There should be and alarm in case seal is not safe and completed. | | | | | | |
| 7 | There should be uniform sealing irrespective of power supply variations. | | | | | | |
| 8 | Tube thickness of up to 6 mm of diameter and wall thickness up to 0.75 mm can be sensed and sealed automatically. | | | | | | |
| 9 | Should be able to making wide Seal of 2mm thickness. | | | | | | |
| 10 | Indication of seal in progress should be there. | | | | | | |
| 11 | Sealing time should be less than 2 sec. | | | | | | |
| 12 | Separable rupture line to separate tube after | | | | | | |

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| | sealing. | | | | | | |
| 13 | Should ensure safety against electrical shock hazards, fire hazards, and mechanical hazards. | | | | | | |
| 14 | There should be no hemolysis of blood in the tube segments | | | | | | |
| 15 | No warm-up time should be required | | | | | | |
| 16 | Should be able to withstand voltage fluctuation | | | | | | |
| 17 | It should be easy to clean. | | | | | | |
| 18 | Should be easy to handle with the grip to hold the sealers | | | | | | |
| 19 | Splashguard to protect user from any kind of blood splash during operation. | | | | | | |
| 20 | Manufacturer should be ISO 13485 certified. | | | | | | |
| 21 | Weight of equipment should not exceed 7 Kg. | | | | | | |
| 22 | Original literature of equipment should be submitted. | | | | | | |
| 23 | Firm will have to supply the suitable stabilizer with the equipment if it is essential for the performance of the equipment. | | | | | | |
| 24 | User's list should be provided with satisfactory report for the last three years from three Licensed Blood Banks with contact details. | | | | | | |
| 25 | Electrical: The equipment should be able to run on the existing electrical provision | | | | | | |
| 26 | Calibration certificate shall be provided at the time of installation in respect of all the parameters that require calibration. | | | | | | |
| 27 | The units shall be capable of being stored continuously in ambient temperature of 0 - 50C and relative humidity of 15-90%. | | | | | | |
| 28 | The units shall be capable of being operating continuously in ambient temperature of 10 - 40C and relative humidity of 15-90%. | | | | | | |
| | BOQ | QTY | UOM | | | | |
| 1 | System as specified | 1 | Nos | | | | |

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| GEM Bid No | | GEM/2022/B/1856997 dated 17.01.2022 | | | |
| Name of the item : | | Dielectric Tube Sealer, Handheld | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| I | Purpose of Equipment: | | | | |
| 1 | Handheld Blood Bag Tube Sealer is a compact handheld equipment to seal the Blood Bag pilot PVC tubing by transient radio frequency | | | | |

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| | heating and sealing, with no haemolysis | | | | |
| II | Quality Standard: | | | | |
| 1 | Manufacturer should be ISO 13485 certified. | | | | |
| III | Operational requirements: | | | | |
| 1 | Should gently seal tubing with no hemolysis, using radiofrequency heating | | | | |
| 2 | Should be capable of making wide seal of at least 2 mm width. | | | | |
| 3 | Should be rechargeable battery operated compact (less than 3 Kg) hand held type, not bench top type. | | | | |
| 4 | Sealing time should not be >2 sec | | | | |
| 5 | Electrodes should be well protected by a cover to prevent blood splutter. | | | | |
| 6 | Should have indicator lamp for sealing process | | | | |
| 7 | No warm up time should be required | | | | |
| 8 | Should have tear-seal feature to make segments that can be easily separated by hand | | | | |
| 9 | No. of seals per charge should be more than 1000 continuous seals from a fully charged battery. | | | | |
| 10 | Charger should be compatible with Input voltage: 240V 50 Hz Single phase Ac | | | | |
| IV | Additional requirements | | | | |
| 1 | All equipment should specify qualifications for design, installation, operation and performance. | | | | |
| 2 | Validation and calibration reports should have traceability to applicable national and international standards. | | | | |
| 3 | Complete with comprehensive set of spare parts and a suitable capacity voltage stabilizer and surge protector with the charging set. | | | | |
| 4 | Necessary catalogues, technical write up in English, should be attached with the offer both in hard and electronic copies. | | | | |
| 5 | Demonstration and continued comprehensive training for lab staff and support services till familiarity with the system. | | | | |
| 6 | Should provide electronic and hard copies of User Manual (English), Service manual (English) and Complete construction details with respect to material specification, thickness, finish etc. | | | | |
| 7 | Should provide a set of equipments for calibration and routine Preventive Maintenance as per manufacturer documentation in service/technical manual | | | | |

| GEM Bid No | | GEM/2022/B/1856753 dated 17.01.2022 | | | |
|--|---|--|--------------------------------------|--|----------------|
| Name of the item : | | Blood Donor Couch | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES - Give Comments | Remarks |
| 1 | Based on haemodynamic principles to allow blood volumes to redistribute with cushioned surface for donor comfort. | | | | |
| 2 | Armrest suitable for phlebotomy and better blood flow. | | | | |
| 3 | Automatic adjustment of arm- rest to adjust length more than 50 cm and width of 15 cm to set the arm position to the donor"s comfort with adjustment of height mandatory for the equipment. | | | | |
| 4 | Material should be waterproof with rounded borders and easy to clean. | | | | |
| 5 | The length of the couch should be 200 cm to 215 cm to accommodate all type of donors. | | | | |
| 6 | Specially designed for comfort of donor and phlebotomist | | | | |
| 7 | Should be able to accommodate Donor weight capacity of 150Kg or more. | | | | |
| 8 | Electronic remote adjustment for height and comfortable sitting position. | | | | |
| 9 | Provision to shift the donor"s position from "head high – foot low" to "foot high- head low" or any position in between for optimal blood collection. | | | | |
| 10 | Only one button to reach shock position: Head low in case donor reaction. | | | | |
| 11 | 2/3 motors with separate control through remote for positioning of couch. | | | | |
| 12 | Electric motor should have microprocessor controlled limit switch and safety circuit. | | | | |
| 13 | Couch should be movable with wheels with locking facility | | | | |
| 14 | Seat height adjustable to enable to lower it as low as 50 – 75 cm from the floor level for donor to sit easily. | | | | |
| 15 | Provision of I.V. stand with provision keeping standard Bio mixer on both sides. | | | | |
| 16 | Trolley (SS 304, having atleast two shelves with adjustable height, suitable size) should be provided with each | | | | |

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| | couch for keeping blood collection monitor and other consumables. | | | | | | |
| 17 | Good quality Couch covers (two sets) to be provided along with the couches including handles. | | | | | | |
| 18 | Original literature of equipment should be submitted. | | | | | | |
| 19 | User"s list should be attached with satisfactory report for the last three years from three users with contact details. | | | | | | |
| 20 | Bidder have to arrange demonstration of the quoted model (if required) | | | | | | |
| 21 | Electrical: The equipment should be able to run on the existing electrical provision. | | | | | | |
| 22 | Manufacturer should be ISO 13485 certified. | | | | | | |
| 23 | Should be supply with suitable stabilizer with BIS/CE mark. | | | | | | |
| | Accessories:- | | | | | | |
| 24 | Dust cover -1 | | | | | | |
| 25 | Power cable-1 | | | | | | |
| 26 | Additional arm rest (pair)-01 pair. | | | | | | |
| 27 | Remote control-1 No | | | | | | |
| | BOQ | QTY | UOM | | | | |
| 1 | System as specified | 1 | Nos | | | | |

| GEM Bid No | | GEM/2022/B/1856702 dated 17.01.2022 | | | |
|--|---|--|--------------------------------------|---|----------------|
| Name of the item : | | Portable and folding Blood Donor Couch | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| 1 | Mobile Foldable designed to fold into a compact | | | | |
| 2 | Dimensions: 24-30"W X 62-75"L X 18-25"H | | | | |
| 3 | Weight should not be more than 20 Kg. | | | | |
| 4 | Should be easily to clean and maintain | | | | |
| 5 | Should be in durable tubular metallic material rust resistant. | | | | |
| 6 | Should be able to bear the larger donors weight up to 150 Kg. | | | | |
| 7 | Should have padded armrest for extra comfort to the donor, adjustable for proper arm placement. | | | | |
| 8 | Standard Electronic blood collection scale with each couch (Optional) | | | | |
| 9 | Couch should easily be reclined into a | | | | |

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| | secured shock position | | | | |
| 10 | Pockets to be provided at the back of each couch for keeping accessories | | | | |
| 11 | Should be provided with washable linen covers(1 pair) with each couch | | | | |
| 12 | Should be sturdy and should be able to withstand transportation rigors | | | | |
| 13 | Should be provided with transportation trolley to hold minimum 2 couches | | | | |
| 14 | Cost of transportation trolley to be included in the main costing. | | | | |
| 15 | Original literature of equipment should be submitted. | | | | |
| 16 | Users list should be attached with satisfactory report for the last years from three users with contact details | | | | |
| 17 | Minimum of 3 installation in tertiary care institution. | | | | |

| GEM Bid No | | GEM/2022/B/1856648 dated 17.01.2022 | | | |
|--|--|--|--------------------------------------|---|----------------|
| Name of the item : | | Refrigerated Blood Bag Centrifuge | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| I | Purpose: Large volume floor standing refrigerated centrifuge for separation of components from whole blood. | | | | |
| II | Design and operation: | | | | |
| a | Stable, sturdy all-steel design with stainless steel rotor chamber, should be easy to clean corrosion resistant. | | | | |
| b | Microprocessor controlled | | | | |
| c | Programmable memory with temper proof program saving facility, with parallel saving of at least 30 programs | | | | |
| d | CFC free refrigerant. | | | | |
| e | Various formats of Swing-out rotors with metal buckets and with or without wind shields that should be able to accommodate at least the following: | | | | |
| f | twelve to sixteen 350ml and/or 450ml single, double, triple, quadruple/quintuple blood bags with SAGM bag and empty satellite bags with In Line filter system | | | | |

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| g | Removable plastic adapters to hold single/ double/ triple/ quadruple blood bags with partition in every bucket. | | | | |
| h | Insert with hook adapter to spin buffy coat or small volume of blood and balancing weights for inserts. | | | | |
| i | Automatic lid lock. | | | | |
| III | Speed and force: | | | | |
| a | Speed 4,000 rpm and above | | | | |
| b | 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. | | | | |
| IV | Temperature control | | | | |
| a | Range at least: -20°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. | | | | |
| d | Programmable centrifugation time: 0min-99hr with minimum resolution of 1 minute. | | | | |
| e | Digital display (real time and set target) of temperature, speed and time with minimum no. of 3 digit resolution. | | | | |
| f | Should incorporate alarms for imbalance detection, lid interlock, over temperature, rotor over speed. | | | | |
| g | Motor imbalance detection: automatic shutdown of centrifuge if rotor load is out of balance with appropriate indicator. | | | | |
| h | Power requirement:200-400V,50Hz, single phase | | | | |
| i | The equipment shall be suitable for operation from 0 to 35°C at 80% relative humidity . Electronic circuitry shall be tropicalised for this ambient condition. | | | | |
| j | Noise level within 65 decibels | | | | |
| k | The equipment should come with customized castor for changing location. | | | | |
| l | Protection of data: in event of power interruption or complete failure, data should remain stored indefinitely. | | | | |
| m | Should have a provision for external connectivity. | | | | |
| n | It shall have a security lock to prevent unintentional switch off and also unauthorized opening of the equipment. | | | | |
| p | Automatic line voltage corrector/ voltage stabilizer: | | | | |

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| q | A line voltage corrector of appropriate rating (10 KVA or as per the requirement of equipment) should form part of standard configuration. | | | | |
| r | Copper wound single phase automatic line voltage corrector conforming to IS: 9815(PLI)/94 with latest amendments or equivalent international standards fitted with a voltmeter and switch to indicate output/ input voltage. | | | | |
| s | Input voltage: 140-280 V,50 Hz, output voltage: 220 V \pm 10%. | | | | |
| t | Input output voltmeter and amperemeter. Protection for high low voltage cut off, overload and short circuit protection. | | | | |
| u | Equipment should be supplied with 2 meter cord at input and fitted with plugs of appropriate rating. | | | | |
| v | Make of the line voltage corrector shall be indicated. | | | | |
| V | Certifications: | | | | |
| a | Manufacturer should be ISO 13485 certified. | | | | |
| b | Electrical safety: Equipment meets electrical safety specifications such as that of IEC (Class I) | | | | |
| VI | Additional requirements: | | | | |
| a | All equipment should specify qualifications for design, installation, operation and performance. | | | | |
| b | Validation and calibration reports should have traceability to applicable national and international standards | | | | |
| c | Extra set of plastic buckets to be provided with the equipment. Costing of the buckets inclusive in the main cost. | | | | |
| d | Complete with comprehensive set of spare parts and accessories including: Double pan balance, Balancing weights and plates, plastic inserts and spacers and hooks for adjusting to different types and sizes of bag/tubing/filter designs, and a suitable capacity voltage stabilizer should be supplied free of cost with the system. | | | | |
| e | Warranty for 5 years and CMC/AMC for 5 years with spare parts availability. | | | | |
| f | The make, rating, model, description, specifications, price quantity of each item should be furnished separately. | | | | |
| g | Necessary catalogues, technical write up in English, should be attached with the offer both in hard and electronic copies. | | | | |
| h | Performance, efficiency, other factors as | | | | |

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| | applicable should be furnished. | | | | |
| i | Demonstration and continued comprehensive training for lab staff and support services till familiarity with the system. | | | | |
| j | Should provide electronic and hard copies of User Manual (English), Service manual (English) and Complete construction details with respect to material specification, thickness, finish etc. | | | | |
| k | Should provide a set of equipments for calibration (eg tachometer) and routine Preventive Maintenance as per manufacturer documentation in service/technical manual. | | | | |
| l | Should provide Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out. | | | | |

| GEM Bid No | | GEM/2022/B/1849988 dated 17.01.2022 | | | |
|--|--|--|--------------------------------------|---|----------------|
| Name of the item : | | Electronic Double Pan Component Balance | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| 1 | Should be two pan balance | | | | |
| 2 | Should have digital LCD/LED display of weight and other parameters for individual buckets. | | | | |
| 3 | Accuracy ± 1 to 2 grams | | | | |
| 4 | Should have two independent weight sensors, which display individual weight of each bucket with accuracy | | | | |
| 5 | It should have individual display monitor to display the weight of each bucket with blood bags | | | | |
| 6 | Visual or audio alarm should get on as soon as the two plates get balanced | | | | |
| 7 | Weight Measurement: Should be able to measure weight of upto 3000grms | | | | |
| 8 | Should be appropriate to weigh and balance blood holding baskets of standard size | | | | |
| 9 | Weight of balance should not be more than 5 Kg. | | | | |
| 10 | Original literature of equipment should be submitted. | | | | |
| 11 | User"s list should be provided with | | | | |

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| | satisfactory report for the last three years from three Licensed Blood Banks with details. | | | | |
| 12 | Manufacturer should be ISO 13485 certified. | | | | |
| 13 | Firm will have to supply suitable UPS with 30 min back up along with the equipment free of cost | | | | |
| 14 | Firm should also provide the relevant calibration certificate for the equipment from any NABL accredited Lab. | | | | |
| 15 | Bidder have to arrange demonstration of the quoted model (if required) | | | | |
| 16 | Electrical: The equipment should be able to run on the existing electrical provision | | | | |

| GEM Bid No | | GEM/2022/B/1849964 dated 17.01.2022 | | | |
|--|---|--|--------------------------------------|--|----------------|
| Name of the item : | | Blood Bank Refrigerator | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES - Give Comments | Remarks |
| 1 | Description of Function | | | | |
| 1.1 | For storing blood & blood products. It should be microprocessor based. | | | | |
| 2 | Technical Specifications | | | | |
| 2.1 | Blood Bank Refrigerator should have capacity to hold 300-350 blood bags of 450ml capacity | | | | |
| 2.2 | Temperature range from 2 deg C to 6 deg C with accuracy of less than equal to 0.5 deg C. | | | | |
| 2.3 | Holdover time : full load of blood bags at 4 deg C should take more than 1.5 hrs to rise above 6 deg C if power off and it should be supported by providing performance curves | | | | |
| 2.4 | Cooling down time: A full load of blood bags at 25 deg C should not take more than 12 hrs for all the bags to reach below 6 deg C and it should be supported by providing performance curves. | | | | |
| 2.5 | It should have galvanized sheet steel construction, powder coated and adjustable feet. | | | | |
| 2.6 | No welded joint to be exposed for rusting. | | | | |
| 2.7 | Insulation of high-grade pressure – foam material greater than 80mm thick CFC free. | | | | |
| 2.8 | Lockable door with front glass and tight | | | | |

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| | sealing (Magnetic closing) surround to prevent cold loss. Should have at least 4 rollout type drawers with stainless steel make. Door opening angle limited to 110 degrees with door opening audio and visual alarms. | | | | | | |
| 2.9 | Automatic defrosting and condensed melt water evaporation. | | | | | | |
| 2.10 | Re-circulating air-cooling system. | | | | | | |
| 2.11 | Hermetically enclosed, low noise, vibration proof/ low vibration compressor. | | | | | | |
| 2.12 | Visual and audio signal alarm system for over temperature, under temperature ,power failure, door opening | | | | | | |
| 2.13 | Epoxy coated outside finish and GS or SS interior | | | | | | |
| 2.14 | Low noise, automatic defrosting, CFC free & HCFC free. | | | | | | |
| 2.15 | Digital temperature display should be provided. Should provide datalogger or circular chart recorder. | | | | | | |
| 2.16 | Calibration certificate shall be provided at the time of installation in respect of all the parameters that require calibration. | | | | | | |
| 2.17 | Power input to be 220-240VAC, 50Hz. | | | | | | |
| 2.18 | Manufacturer should be ISO 13485 certified. | | | | | | |
| 2.19 | The units shall be capable of being stored continuously in ambient temperature of 0 - 35 deg C and relative humidity of 15-90%. | | | | | | |
| 2.20 | The units shall be capable of being operating continuously in ambient temperature of 10 - 40C and relative humidity of 15-90%. | | | | | | |
| 2.21 | Accessories | | | | | | |
| | Datalogger - 1 no or Circular chart recorder 1000 nos Suitable voltage regulator/stabilizer meeting ISI specification - 1 no | | | | | | |
| | BOQ | QTY | UOM | | | | |
| 1 | System as specified | 1 | Nos | | | | |

| GEM Bid No | | | | GEM/2022/B/1849933 dated 17.01.2022 | | | |
|--|---|--|--|--|--------------------------------------|--|----------------|
| Name of the item : | | | | (-40) Degree Deep Freezer | | | |
| Name of the Bidder : | | | | M/s | | | |
| Name of the Manufacturer of quoted item : | | | | M/s | | | |
| Country of Origin of quoted item : | | | | | | | |
| Model Quoted: | | | | | | | |
| SN | Technical Specification | | | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES - Give Comments | Remarks |
| 1 | TYPE : Upright | | | | | | |
| 2 | CAPACITY: atleast 600 Litres | | | | | | |
| 3 | OPERATING TEMPERTURE: -40 deg C | | | | | | |
| 4 | ELECTRIC SUPPLY: 220V/50Hz, 10 Amps. Single phase | | | | | | |
| 5 | Fully programmable microprocessor based temperature controller with membrane keypad and eye level control panel. | | | | | | |
| 6 | Hermetically enclosed, low noise, vibration proof/low vibration compressor. | | | | | | |
| 7 | Construction should be of thin vacuum insulation panel / high density polyurethane along with equivalent gasket of double seal silicon | | | | | | |
| 8 | System should have Stainless steel interior and tough, powder coated exterior finish. | | | | | | |
| 9 | Freezer should have 4 or more Compartment with two or more adjustable height stainless steel shelves. Separate inner door for each compartment. Added Para : Should be provided with appropriate SS racks for storage of FFP. | | | | | | |
| 10 | Holdover time : full load of plasma bags at -36 deg C should take at least 1 hrs to rise above -20 deg C if power off and it should be supported by providing performance curves | | | | | | |
| 11 | Cooling down time: A full load of plasma bags at 25 deg C should not take more than 5 hrs for all the bags to reach below -5 deg C and it should be supported by providing performance curves | | | | | | |

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| 12 | The door and front panel air filter should be there. | | | | | | |
| 13 | Heavy duty lockable castors and lockable outer doors. | | | | | | |
| 14 | Freezer must have interface data logging port or circular thermograph and it must also have on board diagnostic software. | | | | | | |
| 15 | Freezer must have interface data logging port and it must also have on board diagnostic software. | | | | | | |
| 16 | Deleted. | | | | | | |
| 17 | Audible and visible alarms for temperature, power failure, system failure, battery low etc. and it also have remote alarm port for connection to an auto dialer. | | | | | | |
| 18 | Freezer must use CFC-FREE , HCFC-FREE refrigerants , and refrigeration system must be energy efficient and hermetically sealed cascade refrigeration system. | | | | | | |
| 19 | External or internal voltage stabilizer should be provided so that Compressor should be capable to run any voltage between 190 – 270V. Manufacturing site for the freezer must have ISO 9001 standard quality test requirements and IEC 60601-1 electrical safety. | | | | | | |
| 20 | Manufacturer should be ISO 13485 certified. | | | | | | |
| 21 | The units shall be capable of being stored continuously in ambient temperature of 0 - 50C and relative humidity of 15-90%. | | | | | | |
| 22 | Accessories | | | | | | |
| 22.1 | Datalogger - 1 no OR Circular Thermograph 1000 nos Suitable voltage regulator/stabilizer meeting ISI specification - 1 no | | | | | | |
| 23 | Calibration certificate shall be provided at the time of installation in respect of all the parameters that require calibration. | | | | | | |
| | BOQ | QTY | UOM | | | | |
| 1 | System as specified | 1 | Nos | | | | |

| GEM Bid No | | | | GEM/2022/B/1849906 dated 17.01.2022 | | | |
|--|--|--|--|--|--------------------------------------|--|----------------|
| Name of the item : | | | | (-80) Degree Deep Freezer | | | |
| Name of the Bidder : | | | | M/s | | | |
| Name of the Manufacturer of quoted item : | | | | M/s | | | |
| Country of Origin of quoted item : | | | | | | | |
| Model Quoted: | | | | | | | |
| SN | Technical Specification | | | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES - Give Comments | Remarks |
| 1 | TYPE : Upright | | | | | | |
| 2 | CAPACITY: 600 Litres or more | | | | | | |
| 3 | OPERATING TEMPERTURE: -75 to -85 deg C with accuracy of 0.5 deg C. | | | | | | |
| 4 | ELECTRIC SUPPLY: 220V/50Hz, 10 Amps. Single phase | | | | | | |
| 5 | Fully programmable microprocessor based temperature controller with membrane keypad and eye level control panel. | | | | | | |
| 6 | Hermetically enclosed, low noise, vibration proof/low vibration compressor. | | | | | | |
| 7 | Construction should be of thin vacuum insulation panel / high density polyurethane along with equivalent gasket of double seal silicon | | | | | | |
| 8 | System should have Stainless steel interior and tough, powder coated exterior finish. | | | | | | |
| 9 | Freezer should have 4 or more Compartment with two or more adjustable height stainless steel shelves. Separate inner door for each compartment. Added Para : Should be provided with appropriate SS racks for storage of FFP | | | | | | |
| 10 | Holdover time : full load of plasma bags at -76 deg C should take at least 1 hrs to rise above -60 deg C if power off and it should be supported by providing performance curves | | | | | | |
| 11 | Cooling down time: A full load of plasma bags at 25 deg C should not take more than 5 hrs for all the bags to reach below -70deg C and it should be supported by providing performance curves | | | | | | |
| 12 | The door and front panel air filter should be there. | | | | | | |
| 13 | Heavy duty lockable castors and lockable outer doors. | | | | | | |
| 14 | Freezer must have battery back up for | | | | | | |

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| | display - up and set point security through password protection for preventing unauthorized tampering. | | | | | | |
| 15 | Freezer must have interface data logging port or circular thermograph and it must also have on board diagnostic software. | | | | | | |
| 16 | Deleted. | | | | | | |
| 17 | Audible and visible alarms for temperature, power failure, system failure, battery low etc. and it also have remote alarm port for connection to an auto dialer. | | | | | | |
| 18 | Freezer must use CFC-FREE , HCFC-FREE refrigerants , and refrigeration system must be energy efficient and hermetically sealed cascade refrigeration system. | | | | | | |
| 19 | External or internal voltage stabilizer should be provided so that Compressor should be capable to run any voltage between 190 – 270V. Manufacturing site for the freezer must have ISO 9001 standard quality test requirements and IEC 60601-1 electrical safety. | | | | | | |
| 20 | Manufacturer should be ISO 13485 certified. | | | | | | |
| 21 | The units shall be capable of being stored continuously in ambient temperature of 0 - 50C and relative humidity of 15-90%. | | | | | | |
| 22 | The units shall be capable of being operating continuously in ambient temperature of 10 - 40C and relative humidity of 15-90%. | | | | | | |
| 23 | Accessories | | | | | | |
| 23.1 | Datalogger - 1 no OR Circular Thermograph 1000 nos Suitable voltage regulator/stabilizer meeting ISI specification - 1 no | | | | | | |
| 24 | Calibration certificate shall be provided at the time of installation in respect of all the parameters that require calibration. | | | | | | |
| | BOQ | QTY | UOM | | | | |
| 1 | System as specified | 1 | Nos | | | | |

| GEM Bid No | | | | GEM/2022/B/1849881 dated 17.01.2022 | | | |
|--|--|--|--|--|--------------------------------------|--|----------------|
| Name of the item : | | | | Platelet incubator with agitator | | | |
| Name of the Bidder : | | | | M/s | | | |
| Name of the Manufacturer of quoted item : | | | | M/s | | | |
| Country of Origin of quoted item : | | | | | | | |
| Model Quoted: | | | | | | | |
| SN | Technical Specification | | | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES - Give Comments | Remarks |
| 1 | Platelet incubator should have the provision to store 96-platelet bags agitator. | | | | | | |
| 2 | Should have transparent outer door for clear visibility | | | | | | |
| 3 | Should have micro processor controlled LCD display with 0.1 dec C gradation and temperature graph display | | | | | | |
| 4 | Should have automated high/low alarm with alarm testing. | | | | | | |
| 5 | Should have independent temperature controller. | | | | | | |
| 6 | Should have 7 days inkless chart recorder with battery back up to one hour for continuous operation during power failure , should be supplied with USB port. | | | | | | |
| 7 | The firm will have to supply 300 temperature recorder chart papers and 10 ink pens (if the temperature recorder is not inkless) along with the equipment free of cost. | | | | | | |
| 8 | Should be able to maintain a temperature of 22°C with ±1degree variation with accuracy of 0.5deg C preferably 0.i deg C. | | | | | | |
| 9 | Should have digital temperature indicator cum controller | | | | | | |
| 10 | Should have forced air circulation for uniformity of temperature all over the incubator. | | | | | | |
| 11 | Inner chamber should be made of stain less steel and outer cabinet made of MS sheet powder coated. | | | | | | |
| | Platelet Agitator | | | | | | |
| 12 | Should be able to store minimum 96 random bags or aphaeresis bags of different sizes with gentle side-to-side agitation at 3.6 to 4cm, motion of 60-70 strokes per minute. | | | | | | |
| 13 | Graphical display of agitation speed of the agitator | | | | | | |
| | Shelves: | | | | | | |
| 14 | Should be made of good quality, | | | | | | |

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| 15 | Coated with bacteria resistant material, | | | | | | |
| 16 | Perforated so that air circulation on both side of bags | | | | | | |
| 17 | Should be made of 'non slip' material | | | | | | |
| 18 | Removable shelves. | | | | | | |
| 19 | Should have noiseless heavy-duty ball bearing gear motor, which should continuously operate for 24 hours. | | | | | | |
| 20 | Should have built in motion alarm for unplanned ceased agitation, sensor failure, agitator off. | | | | | | |
| 21 | Manufacturer should be ISO 13485 certified. | | | | | | |
| 22 | Firm will have to supply the stabilizer if required along with the equipment free of cost | | | | | | |
| 23 | Original literature of equipment should be submitted. | | | | | | |
| 24 | User's list should be attached with satisfactory report for the last three years from three licensed blood banks with contact details. | | | | | | |
| 25 | Electrical: The equipment should be able to run on the existing electrical provision | | | | | | |
| 26 | Suitable UPS with maintenance free batteries with min 1 hr back up | | | | | | |
| | BOQ | QTY | UOM | | | | |
| 1 | System as specified | 1 | Nos | | | | |
| 2 | UPS | 1 | Nos | | | | |

| GEM Bid No | | GEM/2022/B/1849800 dated 17.01.2022 | | | |
|--|--|--|--------------------------------------|---|----------------|
| Name of the item : | | Vertical Reagent Refrigerator | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| 1 | Storage Capacity: Should be at least 600 Liters capacity | | | | |
| 2 | Set temperature 4°C with temperature range 2°C to 6°C and adjustable with setting accuracy of ±0.5°C | | | | |
| 3 | Refrigeration: Non- CFC cooled refrigeration | | | | |
| 4 | Should have good insulation to maintain required temperature | | | | |
| 5 | Should have good metallic door with removable shelves inside for easy cleaning. | | | | |
| 6 | Microprocessor based temperature | | | | |

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| | controller with integrated audiovisual temperature and power alarm function with digital monitoring display. | | | | |
| 7 | Safety features: Audio alarm for all the following parameters should be there: temperature fluctuation & power failure, set point alarm, low alarm point, Door opening audio and visual display alarm. | | | | |
| 8 | Safety thermostat to avoid negative temperatures. | | | | |
| 9 | Should have battery back up for temperature display and power alarm. | | | | |
| 10 | Interval temperature hold over time in case of power failure should be at least 1.5 hours. | | | | |
| 11 | Should have castor wheels with locking facility | | | | |
| 12 | Original literature of equipment should be submitted. | | | | |
| 13 | Manufacturer should be ISO 13485 certified. | | | | |
| 14 | Firm should supply the relevant calibration certificate for the equipment from NABL accredited Lab. | | | | |
| 15 | User's list should be provided with satisfactory report for the last years from three Licensed Blood Banks with contact details. | | | | |
| 16 | Firm will have to supply the stabilizer if required along with the equipment free of cost. | | | | |
| 17 | Bidder have to arrange demonstration of the quoted model (if required) | | | | |
| 18 | Electrical: The equipment should be able to run on the existing electrical provision | | | | |
| 19 | Added Para : Should provide datalogger or circular chart recorder | | | | |

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|--|---|--|--------------------------------------|---|----------------|
| GEM Bid No | | GEM/2022/B/1849748 dated 17.01.2022 | | | |
| Name of the item : | | Blood Bank Cryo-Bath | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| I | Purpose: | | | | |
| 1 | The Cryo Bath is designed for rapid and uniform thawing of fresh frozen plasma bags at 4 °C +/- 0.2 °C such | | | | |

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| | that the cryoprecipitate remains solid, and a cryosupernatant liquid is formed that can be transferred out of the bag in order to manufacture cryoprecipitate units. | | | | |
| II | Operational Requirements: | | | | |
| 1 | Floor standing system, mounted on lockable castors. | | | | |
| 2 | Should be having capacity of 12-18 bags per run for one cycle. | | | | |
| 3 | Should be able to thaw ten to twelve plasma units (FFP ~200-300 ml) at a time. | | | | |
| 4 | Should have Stainless Steel Tank of 22G, and an insulated lid covered with 20G Stainless Steel. | | | | |
| 5 | Should be fitted with compartments that have removable rack/tray system for securely holding the plasma bags and ensuring that entry ports are not contaminated with water. | | | | |
| 6 | Should be a microprocessor controlled water bath based system operating at a temperature at 4 °C +/- 0.2 °C or alternative can also be safely set at 37 °C +/- 0.2 °C. | | | | |
| 7 | Digital, electronic system with provision for programmable temperature adjustment setting with LED display with temperature resolution of 0.1 °C | | | | |
| 8 | Should not take more than 2 hours at full loads to thaw the plasma into cryosupernatant. | | | | |
| 9 | Should have a deep thawing chamber with a stirrer for water circulation & gentle rocking for uniform heating by high capacity pump. | | | | |
| 10 | Should have a system to drain the chamber without lifting or tilting, and should be fitted with a shut off valve. | | | | |
| 11 | The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90% without getting rusted. | | | | |
| 12 | Compatible with Input voltage: 240V 50 Hz Single phase AC | | | | |
| 13 | Should have an integrated voltage stabilizer or external servo stabilizer of appropriate ratings meeting ISI Specifications (Input 160-260 V and output 220-240 V and 50 Hz). | | | | |
| 14 | Resettable overcurrent breaker shall be | | | | |

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| | fitted for protection | | | | |
| III | Quality standards: | | | | |
| 1 | Manufacturer should be ISO 13485 certified. | | | | |
| 2 | Equipment must meet electrical safety specifications of IEC 61010-1 | | | | |
| IV | Additional requirements: | | | | |
| 1 | All equipment should specify qualifications for design, installation, operation and performance | | | | |
| 2 | Validation and calibration reports should have traceability to applicable national and international standards. | | | | |
| 3 | Complete with comprehensive set of spare parts, and a suitable capacity voltage stabilizer and Suitable UPS with maintenance free batteries for minimum one-hour back-up for each equipment should be supplied with the system. | | | | |
| 4 | The make, rating, model, description, specifications, price quantity of each item should be furnished separately. | | | | |
| 5 | Necessary catalogues, technical write up in English, should be attached with the offer both in hard and electronic copies. | | | | |
| 6 | Performance, efficiency, other factors as applicable should be furnished. | | | | |
| 7 | Demonstration and continued comprehensive training for lab staff and support services till familiarity with the system. | | | | |
| 8 | Should provide electronic and hard copies of User Manual (English), Service manual (English) and Complete construction details with respect to material specification, thickness, finish etc. | | | | |
| 9 | Should provide a set of equipments for providing calibration (eg thermometer) and routine Preventive Maintenance as per manufacturer documentation in service/technical manual. | | | | |
| 10 | Should provide Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out. | | | | |
| 11 | Installation & validation is responsibility of the supplier. | | | | |

| GEM Bid No | | | | GEM/2022/B/1849729 dated 17.01.2022 | | | |
|--|--|--|--|--|--------------------------------------|--|----------------|
| Name of the item : | | | | Sterile connecting Device (Tube Welder) | | | |
| Name of the Bidder : | | | | M/s | | | |
| Name of the Manufacturer of quoted item : | | | | M/s | | | |
| Country of Origin of quoted item : | | | | | | | |
| Model Quoted: | | | | | | | |
| SN | Technical Specification | | | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES - Give Comments | Remarks |
| 1 | Should accommodate and weld all types of blood bags tubing in use in our country | | | | | | |
| 2 | The welding should be seamless | | | | | | |
| 3 | Should be capable of joining wet-wet/wet-dry/dry-dry tubes. External diameter 3.9-4.5mm and internal diameter 2.9-3.1mm. Process time 20-30 seconds. Should be able to generate a temperature of 320 deg C to prevent contamination. | | | | | | |
| 4 | Welding should not affect the quality of the tube in terms of its physical and chemical properties and it should not cause hemolysis. | | | | | | |
| 5 | It should have LED indicators to display the actual status of the ongoing procedural steps and audio- visual alarm system for any functional irregularities. | | | | | | |
| 6 | Requirement for tube length to be welding/docking should be as small as possible | | | | | | |
| 7 | The welding accessories should be available with the local agent throughout year. | | | | | | |
| 8 | The price for 1000 wafers/Docks will be taken for price comparison and the price will be frozen for 5 years. Proprietary article certificate for the consumables mandatory including period of validity or list of third party authorized suppliers of consumables for the equipments. | | | | | | |
| 9 | Minimum consumables (100 wafers/docks) to be provided at the time of installation free of cost | | | | | | |
| 10 | Certifications: Manufacturer should be ISO 13485 certified. | | | | | | |
| 11 | Firm will have to supply compatible UPS with minimum half hr backup along with the equipment free of cost. | | | | | | |
| 12 | Original literature of equipment and consumables should be submitted. | | | | | | |

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| 13 | Electrical: The equipment should be able to run on the existing electrical provision | | | | | |
| | BOQ | QTY | UOM | | | |
| 1 | System as specified | 1 | Nos | | | |
| 2 | UPS | 1 | Nos | | | |

| GEM Bid No | | GEM/2022/B/1849698 dated 17.01.2022 | | | |
|--|--|--|--------------------------------------|---|----------------|
| Name of the item : | | Laminar Air-Flow Bench (Bio- Safety Cabinet) | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| 1 | Floor model, horizontal flow, well lighted, work space, low vibration and noise. Easy to maneuver due to caster wheel provision. Overall dimension of workspace should be approximately 1200mm x 600mm x 600mm | | | | |
| 2 | Construction: | | | | |
| a | Cabinet: Stainless steel sheet of 20 SWG lining | | | | |
| b | Front panels: Removable transparent scratch resistance sheet of approximately 6 mm thickness | | | | |
| c | Side Panels: Fixed transparent scratch resistant sheet of approximately 6 mm thickness. | | | | |
| d | Fluorescent tubelight with diffuser acrylic 120 decalux on work surface. | | | | |
| 3 | Firm will have to supply the stabilizer with the equipment if required. | | | | |
| 4 | User's list should be provided with satisfactory report for the last three years from three Licensed Blood Banks with contact details. | | | | |
| 5 | Bidder have to arrange demonstration of the quoted model (if required) | | | | |
| 6 | Up time & penalty for delays in repair & maintenance: The firm will ensure uptime of 345 days in a year during warranty period & CMC period for both equipment and stabilizer (if supplied) | | | | |
| 4 | 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) | | | | |

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| 5 | If there is delay beyond 48 hours then the firm will be penalized at the rate of 1% of the cost of product per day. | | | | |
| 6 | This financial penalty can be waived off on recommendation of the user dept. if the reasons of delay are genuine the same are recorded & endorsed by the concerned dept. | | | | |
| 7 | If the down time is exceeded in a year from 20 days then the warranty shall stand extended by double the no. of days machine was out of order | | | | |
| 8 | Information regarding merger/acquisition/takeover or any change in the production should be submitted at the time of tender by the principal firm. In such case it should be specified who will provide the after sale service, CMC, supply of spare parts etc. failing which the firm shall not be considered for technical evaluation. | | | | |
| 9 | Electrical: 230 volts 50 Hz, Single Phase | | | | |
| 10 | Manufacturer should be ISO 13485 certified. | | | | |

| GEM Bid No | | GEM/2022/B/1849663 dated 17.01.2022 | | | | | |
|--|---|---|--|--|--------------------------------------|--|----------------|
| Name of the item : | | Tabletop Centrifuge with swinging bucket rotor | | | | | |
| Name of the Bidder : | | M/s | | | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | | | |
| Country of Origin of quoted item : | | | | | | | |
| Model Quoted: | | | | | | | |
| SN | Technical Specification | | | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES - Give Comments | Remarks |
| 1 | Speed Max : 100-6000 rpm, RCF: 5030xg | | | | | | |
| 2 | Automatic rotor identification. | | | | | | |
| 3 | Heavy duty brushless induction motor for low vibration and noise < 65 dB | | | | | | |
| 4 | Presetting of speed and time and 0-99 minutes digital timer | | | | | | |
| 5 | Safety lid interlock | | | | | | |
| 6 | Digital speed indication | | | | | | |
| 7 | Digital indicator cum controller | | | | | | |
| 8 | Dynamic break and imbalance detector with cutoff | | | | | | |
| 9 | Swing out rotor with 24 X (5-15ml tubes) with appropriate tube adapters should achieve RPM 4500 or more & RCF 3300 | | | | | | |

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| | g or more | | | | | |
| 10 | Rust proof stainless steel inner chamber | | | | | |
| 11 | To work on 220 volts AC, 50 cycles | | | | | |
| 12 | To be supplied with suitable servo controlled stabilizer | | | | | |
| 13 | Manufacturer should be ISO 13485 certified. | | | | | |
| | BOQ | QTY | UOM | | | |
| 1 | System as specified | 1 | Nos | | | |

| GEM Bid No | | GEM/2022/B/1849634 dated 17.01.2022 | | | |
|--|--|--|--------------------------------------|--|----------------|
| Name of the item : | | Elisa Reader & Washer | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES - Give Comments | Remarks |
| 1 | Filters with 10nm bandwidths | | | | |
| 2 | Wavelength range 400-750 nm | | | | |
| 3 | Measuring range 0-4 Abs. | | | | |
| 4 | Measurement time-up to 30 Seconds (For 96 well micro plate). | | | | |
| 5 | Resolution- 0.001 Abs. | | | | |
| 6 | Light Source- tungsten- Halogen/ Deuterium lamp. | | | | |
| 7 | Accuracy - +/-0.010 | | | | |
| 8 | Measurement time upto 30 Sec. (for 96 well microplate) Read methods End point, kinetic, spectral scanning and well scanning and well area scanning | | | | |
| 9 | Power supply -230 V AC +/- 10, 50Hz. | | | | |
| 10 | Self Check- System should perform self check before every measurement. | | | | |
| 11 | Sampling-96 well micro plate and 8/12 well micro strips. | | | | |
| 12 | Micro plate shaking facility with programmable shake. | | | | |
| 13 | Plate carrier to accommodate PVC and Polystyrene (flat, U and V bottom 96 well microplate). | | | | |
| 14 | Should have 8-12 measuring channel and 1 reference channel | | | | |
| 15 | Should work on 3 speed: low, Med, High with programmable time period of 0-99 s | | | | |
| B | Data station: | | | | |
| 1 | i5 3rd generation processor with licensed | | | | |

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| | windows operating system, 1TB hard disk, 8GB RAM, DVD RW, 17" LCD colour monitor and Colour laser printer. | | | | |
| 2 | Software- facility for reading complete plate or even a single well. | | | | |
| 3 | Multiple blanking options. | | | | |
| 4 | Data Presentation in 4 Modes (absorbance, transmission, blank subtracted absorbance limit +/-report). | | | | |
| 5 | Quantitative analysis using linear and quadratic curve pointing calibration | | | | |
| 6 | Multi-pointing Calibration. | | | | |
| 7 | Software of qualitative kits. | | | | |
| 8 | Checking of Controls. | | | | |
| 9 | Calculation of cut- offs. | | | | |
| 10 | Final report in +/- format. | | | | |
| 11 | Storage facility for easy recall or processing of sample and data. | | | | |
| C | Automated washer: | | | | |
| 1 | Plate type (96 well). | | | | |
| 2 | Wash bottle capacity 2-4 liters. | | | | |
| 3 | Additional wash bottle capacity 2 liters. | | | | |
| 4 | Residual aspiration Volume < 2 ul for U/V shaped wells and <3ul for flat bottom wells | | | | |
| 5 | Result of the washing procedure should be intensified by wash cycle limited to the bottom area (bottom wash) | | | | |
| 6 | Hard Ware specifications: | | | | |
| a | Manifold 8 or 12 Channels. | | | | |
| b | Vaccum power – 1 integrated vacuum power. | | | | |
| c | Waste bottle 2 L. | | | | |
| d | User interface Flat with 5 diaphragm keys /or touch screen facility | | | | |
| e | 2-4 x 20-26 characters LCD screen /Touch screen | | | | |
| D | Software specification: | | | | |
| 1 | Up to 75 wash programmable protocols. | | | | |
| 2 | Wash program cards 4-10 cycles and wash volumes of 50-1000 micro L | | | | |
| 3 | Wash mode – strip and plate mode. | | | | |
| 4 | Accepts flat or curved bottom. | | | | |
| 5 | Programmable Vertical and horizontal speeds and vertical and horizontal position of aspirating needle in relation with wells. | | | | |
| E | Microplate Shaker: | | | | |
| 1 | Speed: 50 -250rpm. | | | | |
| 2 | Time: up to 15 minutes. | | | | |
| 3 | Capacity- upto 6 microplates. | | | | |
| F | Should be BIS / USFDA / CE-IVD approved product. | | | | |
| G | Mandatory calibration twice a year and servicing 4 times in a year for the duration of | | | | |

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| warranty. | | | | |
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| GEM Bid No | | GEM/2022/B/1849604 dated 17.01.2022 | | | |
|--|--|--|--------------------------------------|---|----------------|
| Name of the item : | | Centrifuge & Incubator for column agglutination technique by glass bead/Gel cassettes for Immuno hematology | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| 1 | Detailed specification of the gel card centrifuge is as follows | | | | |
| 2 | Purpose of Equipment: | | | | |
| 3 | Immuno-hematologic Gel-microcolumn-Card-centrifuge to perform manual centrifugation step for Blood Grouping, Cross Matching, antibody screening or identification or phenotyping by coombs and enzyme phase by gel microcolumn technique to detect both IgG & IgM antibodies, and also potentially usable for C3d, Partial/weak D, Single Rare antigens. | | | | |
| 4 | Must be designed specifically for blood bank use. Commercial or modified commercial centrifuges for other purpose are not acceptable. | | | | |
| | Quality Standard: | | | | |
| 5 | Manufacturer should be ISO 13485 certified. | | | | |
| | Capacity, Construction and Functioning | | | | |
| 6 | Centrifuge head should have minimum 6-12 slots to accommodate corresponding manufacturer's immuno-hematologic Gel/glass bead microcolumn cards | | | | |
| 7 | Aerodynamic compact construction with vibration free performance; Noise level should be less than 60dB. | | | | |
| | Lid: | | | | |
| 8 | The lid of the centrifuge should have auto-locking during spinning | | | | |
| | Electrical characteristics: | | | | |
| 9 | Must be compatible with Input voltage: 220/240V 50/60 Hz AC | | | | |
| 10 | Suitable UPS with one hour back up should be supplied with the system | | | | |
| 11 | Microprocessor controlled programming with LCD screen displaying RPM or RCF, time and other functions should be displayed real | | | | |

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| | time. | | | | |
| | Additional requirements | | | | |
| 12 | All equipment should specify qualifications for design, installation, operation and performance. | | | | |
| 13 | Validation and calibration reports should have traceability to applicable national and international standards. | | | | |
| 14 | Complete with comprehensive set of spare parts, and a suitable capacity voltage stabilizer and Suitable UPS with maintenance free batteries for minimum one-hour back-up for each equipment should be supplied with the system. | | | | |
| 15 | Demonstration and continued comprehensive training for lab staff and support services till familiarity with the system. | | | | |
| 16 | Should provide electronic and hard copies of User Manual (English), Service manual (English) and Complete construction details with respect to material specification, thickness, finish etc. | | | | |
| 17 | Should provide Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out | | | | |
| 18 | Cards should have a V shaped bottom | | | | |
| | The following variety of cards should be available: | | | | |
| 19 | AHG- impregnated | | | | |
| 20 | Complete range of reagents with catalogue, Proprietary article certificate for the consumables mandatory including period of validity or list of third party authorized suppliers of consumables for the equipment. Catalogue should include reagents for all the tests mentioned above. | | | | |
| 21 | List of 3 satisfactory end user details from licensed blood bank mandatory. | | | | |
| 22 | Neutral cards | | | | |
| 23 | Specific Antibody cards for phenotyping | | | | |
| 24 | Manufacturer should be ISO 13485 certified. | | | | |
| 25 | Specification for cross matching gel cassettes/Glass beads cards | | | | |
| 26 | Should be based on column agglutination technique. | | | | |
| 27 | Cassettes / cards should have pre filled reagents for performing cross matching | | | | |
| 28 | Firm should also supply other reagents and chemicals to be used in performing | | | | |

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| 29 | Cross matching and other tests | | | | |
| 30 | Same firm should also supply the suitable centrifuge and incubator to perform the test | | | | |
| 31 | Incubator for Gel Cassettes | | | | |
| 32 | Should maintain temperature at 37°C | | | | |
| 33 | Specifically designed for incubating cassettes / cards | | | | |
| 34 | Should have capacity to incubate 20 or more cassettes | | | | |
| 35 | Digital display of temperature | | | | |
| 36 | Electrical : 220 volts, 50 Hz | | | | |
| 37 | Installation & validation is responsibility of the supplier | | | | |
| 38 | Annual calibration with quarterly servicing for the period of warranty. | | | | |

| GEM Bid No | | GEM/2022/B/1849551 dated 17.01.2022 | | | |
|--|---|--|--------------------------------------|---|----------------|
| Name of the item : | | Electronic Analytical Balance | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| 1 | Electronic balance with transparent case. | | | | |
| 2 | Digital display of weight and other parameters should be there. | | | | |
| 3 | Readability 1 mg | | | | |
| 4 | Capacity 1 mg – 2000g | | | | |
| 5 | Accuracy ± 1 mg | | | | |
| 6 | Stabilization time less than 10 Sec | | | | |
| 7 | Should have facility for automatic calibration. | | | | |
| 8 | Original literature should be attached | | | | |
| 9 | User"s list should be attached with satisfactory report for the last three years from three users with contact details. | | | | |
| 10 | Firm should supply the relevant calibration certificate for the equipment from NABL accredited Lab. | | | | |
| 11 | Firm will have to supply the stabilizer if required along with the equipment free of cost | | | | |
| 12 | Original literature of equipment should be submitted. | | | | |
| 13 | Firm should also provide the relevant temperature calibration certificate for the equipment from any NABL accredited Lab. | | | | |
| 14 | User"s list should be attached with | | | | |

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| | satisfactory report for the last three years from three users with contact details. | | | | |
| 15 | Electrical: The equipment should be able to run on the existing electrical provision. | | | | |
| 16 | Manufacturer should be ISO 13485 certified. | | | | |

| GEM Bid No | | GEM/2022/B/1849517 dated 17.01.2022 | | | |
|--|---|--|--------------------------------------|---|----------------|
| Name of the item : | | Blood cell Counter 3 Part | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| 1 | Should be a fully automated hematology analyzer providing 20 parameters including HB, RBC, WBC, PCV, MCV, MCH, MCHC, Platelet count, RDW-SD, RDW-CV, lymphocyte, neutrophils, Mixed population, lympho %, neutrophils %, Mixed %, MPV, PDW, P-LCR (Optional), PCT | | | | |
| 2 | Linearity range: WBC - 1.0 - 99.9x 10 ³ /ml RBC - 0.3 - 7.00x10 ⁶ /μl | | | | |
| 3 | WBC clog detection/warning should be available | | | | |
| 4 | Should have monitoring & flagging function | | | | |
| 5 | The system should be capable of processing samples at a speed of 60- 70 samples/hour. | | | | |
| 6 | The system should be Sample rotor valve (SRV) or Sample Liquid valve (SLV) based or equivalent technology for precise sampling | | | | |
| 7 | The system should have large LCD display to have a review of all the results along with the three histograms of WBC, RBC and PLT on the screen. | | | | |
| 8 | The system should have datastorage of atleast 1000 with histograms with a facility to transfer the data to an external storage device | | | | |
| 9 | The system should have autoprobe wiper to clean the sample probe automatically after sample aspiration. | | | | |
| 10 | The system should use non-cyanide | | | | |

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| | based reagent for Hb estimation. | | | | | | |
| 11 | The system should have inbuilt printer to print the results with or without histogram and option for external printer | | | | | | |
| 12 | The system should use the proven and approved "volumetric Metering and Coulter technology" system of cell counting, for WBC"s, RBC"s & PLT"s for high precision of the results and stability of the calibration. | | | | | | |
| 13 | The system should have automatic floating thresholds for the correct separation of RBC"s and PLT"s during overlap in cases of Microcytosis / large platelet. | | | | | | |
| 14 | System should not require any daily maintenance except daily shutdown. | | | | | | |
| 15 | The system should automatically give an alarm to the operator for doing the maintenance. | | | | | | |
| 16 | The system should use high intensity LED for Hb estimation and not the lamp. | | | | | | |
| 17 | All reagents required should be available locally from the Company or its authorized distributor. Cost of consumables shall be considered in financial comparison. Two vials each of 3 level quality controls (ie total 6 vials) should be provided for initial training and validation of instrument. Proprietary article certificate for the consumables mandatory including period of validity or list of third party authorized suppliers of consumables for the equipments. | | | | | | |
| 18 | One roller mixer should be provided with the machine | | | | | | |
| 19 | Should have barcode reader | | | | | | |
| 20 | Firm will have to supply the UPS with 30 min back up along with the equipment free of cost. UPS & UPS batteries should be covered under both warranty & CMC | | | | | | |
| 21 | Should be compatible with HIS/LIS | | | | | | |
| 22 | The price for the reagents should be quoted for 5 years and it will be freezed and should be quoted separately | | | | | | |
| 23 | Annual calibration with quarterly servicing for the period of warranty. | | | | | | |
| 24 | Servicing within 48 hours of breakdown with local service engineer. | | | | | | |
| 25 | Should be BIS or European CE with 4 digit notified body no. or US-FDA | | | | | | |

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| | certified product. | | | | | | |
| | BOQ | QTY | UOM | | | | |
| 1 | System as specified | 1 | Nos | | | | |
| 2 | UPS | 1 | Nos | | | | |

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| GEM Bid No | | GEM/2022/B/1849493 dated 17.01.2022 | | | |
| Name of the item : | | Refrigerated Blood Component Transport Box | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| 1 | Mobile refrigerated transportation box should be able to transport packet red cells, whole blood, platelets, plasma at the required specific temperatures. | | | | |
| 2 | Should be robust, light weight, portable mobile refrigerated transport box made up of rotationally moulded polyurethane. | | | | |
| 3 | Temperature range adjustable from -20 deg C to +22 deg C | | | | |
| 4 | Capacity to hold atleast 40 blood bags of 450ml | | | | |
| 5 | Should work on AC & DC power with the provision of attachment to vehicle battery. | | | | |
| 6 | Should have digital temperature display of the internal temperature with functional alarm systems to indicate variations in the set temperature. | | | | |
| 7 | Should be CFC free refrigerant. | | | | |
| 8 | Manufacturer should be ISO 13485 certified. | | | | |
| 9 | Added Para: Transport Box should have wheels with braking / locking system | | | | |

| GEM Bid No | | GEM/2022/B/1849468 dated 17.01.2022 | | | | |
|--|---|--|--------------------------------------|---|----------------|--|
| Name of the item : | | Apheresis Machine | | | | |
| Name of the Bidder : | | M/s | | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | | |
| Country of Origin of quoted item : | | | | | | |
| Model Quoted: | | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks | |
| 1 | Continuous Flow Blood 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. | | | | | |
| a | Leukoreduced Plasma Collection | | | | | |
| b | Therapeutic Plasma Exchange. | | | | | |
| c | Single or doubleRBC collection and/or RBC Exchange | | | | | |
| d | Peripheral Blood Stem Cell Collections. | | | | | |
| e | Granulocyte Collection. | | | | | |
| f | Leukoreduced platelet collection or plateleapheresis | | | | | |
| g | Yeild estimator with optical sensor at PRP line for online monitoring of component collection against the desired yeild with LCD monitor for the monitoring of desired parameters. | | | | | |
| 4 | Automatic Pump Loading & Priming of disposables sets. | | | | | |
| 5 | Automated Self test to ensure maximum Donor Safety. | | | | | |
| 6 | Built in Leukoreduction (<5 x 10 ⁶) for Platelets & Plasma using elutriation (eg LRS chamber) or other patented technology which is NOT based on 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 | Safety check to prevent Platelets count dropping below safety level for Donor safety. | | | | | |
| 11 | Configurable maximum volume depletion levels either by weight or percentage of Total Blood Volume. | | | | | |
| 12 | Extracorporeal volume 150-250ml | | | | | |
| 13 | Inlet & return flow rate upto 100ml/minute | | | | | |
| 14 | Built in Access & Return Pressure sensor. | | | | | |
| 15 | Built in air detectors to prevent air embolism. | | | | | |

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| 16 | Built in ACD Detector. | | | | | | |
| 17 | Built in contamination monitor for monitoring & preventing RBC contaminations in platelet collection and plasma exchange. | | | | | | |
| 18 | Audio visual alarms. | | | | | | |
| 19 | Periodic Instrument Calibration certificate for the various parameters and QC of the products should be provided/maintained by the vendor | | | | | | |
| 20 | Additional accessories : | | | | | | |
| a | 30 disposable platelet pheresis 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 & standardisation should be supplied | | | | | | |
| 21 | The offered model should be European CE with 4 digit notified body no. or US-FDA or BIS approved. The apheresis kit should have necessary approval from the licensing authority in India. | | | | | | |
| 22 | Onsite training should be provided by the technical expert to the users as per requirement | | | | | | |
| 23 | The units shall be capable of being stored continuously in ambient temperature of 0 - 50C and relative humidity of 15-90%. | | | | | | |
| 24 | The units shall be capable of being operating continuously in ambient temperature of 10 - 40C and relative humidity of 15-90%. | | | | | | |
| 25 | The price for 100 kits will be taken for price comparison and the price will be frozen for 5 years. | | | | | | |
| | BOQ | Q T Y | UOM | | | | |
| 1 | System as specified | 1 | Nos | | | | |
| 2 | Disposable platelet pheresis kits | 30 | Nos | | | | |
| 3 | UPS | 1 | Nos | | | | |
| 4 | Price for 100 kits | | | | | | |

| GEM Bid No | | GEM/2022/B/1849275 dated 17.01.2022 | | | |
|--|---|--|--------------------------------------|---|----------------|
| Name of the item : | | Autoclave (Vertical) | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| 1 | Capacity 80-100L | | | | |
| 2 | Sterilization temperature 105-135 deg C. | | | | |
| 3 | Pressure gauge 1 to 1.5 kg/sq.cm. Safety valve releasing pressure 200kPa. | | | | |
| 4 | Automatic adjustable working pressure system. | | | | |
| 5 | Double walled. | | | | |
| 6 | Inside boiler made of stainless steel & outside mild steel finished in cream enamel. | | | | |
| 7 | Radial locking system lid. | | | | |
| 8 | The panel is provided with on/off switch, pressure gauge, steam release valve & indicators to show the working of mains & pressure control system. | | | | |
| 9 | Electrically operated on 220V A/C with stainless steel basket. | | | | |
| 10 | Digital Temperature controller with inbuilt timer that will cut off the heaters automatically after lapse of pre set time at the pre set temperature. | | | | |
| 11 | Microprocessor based PID controller. | | | | |
| 12 | Height: 600mm. | | | | |
| 13 | Diameter inside: 450mm(24"x18") | | | | |
| 14 | Manufacturer should be ISO 13485 certified. | | | | |

| GEM Bid No | | GEM/2022/B/1848857 dated 17.01.2022 | | | |
|--|---|--|--------------------------------------|---|----------------|
| Name of the item : | | Micro plate Tabletop Centrifuge with Swing out Rotor | | | |
| Name of the Bidder : | | M/s | | | |
| Name of the Manufacturer of quoted item : | | M/s | | | |
| Country of Origin of quoted item : | | | | | |
| Model Quoted: | | | | | |
| SN | Technical Specification | Compliance to the Tender Specification- Give Comments | Data Sheet Para & Page No | Deviation if any(Y/N), if YES -Give Comments | Remarks |
| 1 | Speed: 300-3000 rpm with increment of 10 rpm | | | | |
| 2 | Max RCF: 2000 x g or more | | | | |
| 3 | Automatic Rotor Recognition and imbalance detection. | | | | |
| 4 | Manufacturer should provide compatible set of microplates with specifications of the same. | | | | |
| 5 | Timer: 0 to 60 mins. continuous operation | | | | |
| 6 | Drive system: Brush less induction drive | | | | |
| 7 | Noise level at max speed should be less than 60db | | | | |
| 8 | System should have safety features like lid lock and interlock | | | | |
| 9 | System should have microprocessor controlled pre-selection and display of speed and time. | | | | |
| 10 | Manufacturer should be ISO 13485 certified. | | | | |
| 11 | The centrifuge should be provided with the following accessories | | | | |
| | Swing out rotor: | | | | |
| 12 | Speed: 300-4000 rpm or more | | | | |
| 13 | RCF: 2000x g or more | | | | |
| 14 | Capacity: Should be able to centrifuge 2 Microplate of 96 wells | | | | |
| 15 | Rotor head should be available with the firm for immediate replacement | | | | |
| 16 | Price of the spares should be quoted | | | | |
| 17 | Firm will have to supply the stabilizer with the equipment if required. | | | | |
| 18 | Firm will have to supply suitable table for keeping the centrifuge, made of powder coated stainless steel of good stability | | | | |
| 19 | Firm will have to supply the stabilizer if required along with the equipment free of cost | | | | |
| 20 | Original literature of equipment should be submitted. | | | | |
| 21 | Firm should also provide the relevant temperature calibration certificate for the | | | | |

| | | | | | |
|----|---|--|--|--|--|
| | equipment from any NABL accredited Lab. | | | | |
| 22 | User"s list should be attached with satisfactory report for the last three years from three users with contact details. | | | | |
| 23 | Bidder have to arrange demonstration of the quoted model (if required) | | | | |
| 24 | Up time & penalty for delays in repair & maintenance: the firm will ensure uptime of 345 days in a year during warranty period & CMC period of both, equipment as well as stabilizer (if supplied). | | | | |
| 25 | 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) | | | | |
| 26 | If there is delay beyond 48 hours then the firm will be penalized at the rate of 1% of the cost of product per day. | | | | |
| 27 | This financial penalty can be waived off on recommendation of the user dept. if the reasons of delay are genuine the same are recorded & endorsed by the concerned dept. | | | | |
| 28 | If the down time is exceeded in a year from 20 days then the warranty shall stand extended by double the number of days machine was out of order. | | | | |
| 29 | Information regarding merger/acquisition/takeover or any change in the production should be submitted at the time of tender by the principal firm. In such case it should be specified who will provide the after sale service, CMC, supply of spare parts etc. failing which the firm shall not be considered for technical evaluation. | | | | |
| 30 | Warranty: 5 years warranty without any exclusion from the date of installation for equipment and stabilizer (if supplied) + 5 years comprehensive maintenance contract without any exclusion for both equipment and stabilizer (if supplied). The cost of warranty and CMC will be included in total cost of the equipment for financial comparison | | | | |
| 31 | Electrical: The equipment should be able to run on the existing electrical provision | | | | |
| 32 | Annual calibration with quaterly servicing for the period of warranty. | | | | |

All other contents of the Tender enquiry including terms & conditions remain unaltered.

Note:

I. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids