OFFICE OF THE PRINCIPAL
GOVERNMENT MEDICAL COLLEGE, ANANTNANG, J&K
(CAMP OFFICE: MMAB District Hospital Anantnag)
Phone No: 01932-227624 e-mail gmcanantnag2018@ gmail.com

e- Tender Notice No: 02. GMCA of 2021
Dated: 08.01.2021

On behalf of Lieutenant Governor, Union Territory of J&K, online tenders (through www.jktenders.gov.in), under two bid system are invited from eligible bidders for supply of **Instruments/equipments for Up-gradation of Blood Bank of** Govt. Medical College, Anantnag **to Blood Component & Separation Unit (BCSU) under NHM.** The schedule of requirements is given in Annexure "A" to the tender document and schedule of events given hereunder:-

S. No	Particulars	Date and time	
1.	Date & Time of floating of bid	09.01.2021	04: 30 PM
2.	Date & time of online bid submission.(Any query to clear can be done through e-mail Id on gmcanantnag2018@gmail.com from 10.01.2021 to 12.01.2021	**Start Date & Time**	**End Date & Time**
		13.01.2021 10: 30 AM	31.01.2021 4:30PM
3	Date & time of online Technical bid opening	02.02.2021	2:00 PM
4.	Earnest Money Deposit	Rs. 50,000/= (Rupees Fifty Thousands Only/)	
5.	Cost of tender document	Rs. 500/= (Rupees five hundred only)	

The bid document with all information relating to the bidding process including Schedule of Requirement and terms and Conditions are available on the website: www.gmcanantnag.net and www.jktenders.gov.in.

The competent authority reserves the right to accept or reject the tenders received without assigning any reason thereof.

The items which shall be available with JKMSCL shall not be procured through this tender.

Principal/Dean
Govt. Medical College, Anantnag

NO:- GMCA/Plg/62/4182-85 Dated: 08.01.2021.

Copy to the:-

1. Financial Commissioner, Health & Medical Education Department , J&K, Jammu.
2. Joint Director, Information Department, Kashmir, Srinagar with the request to publish the NIT in two leading dailies of the UT.
3. Professor & Head, Department of Pathology, GMC, Anantnag.
4. Chief Accounts Officer, GMC, Anantnag.

e-tender for Instruments/equipments for Upgradation of Blood Bank to Blood Component & Separation Unit (BCSU) under NHM, ---detailed instructions to the tenderers:

1. Scope of contract

The bids are invited for supply of items detailed in schedule of requirement in Annexure A needed for Department of Pathology, Government Medical College and Associated Hospitals, Anantnag **for Up-gradation of Blood Bank to Blood Component & Separation Unit (BCSU) under NHM** . However, only those items will be purchased through this tender which are not available with JKSMCL.

2. Eligibility criteria

Bidder shall be either a manufacturer/ importer or an authorized representative/stockiest/distributor of the manufacturer , with an average turnover of 50.00 lacs each for last three financial years. Only those authorized representatives/ stockiest/distributor shall be permitted to participate in the e-bid who have a letter of authorization from original manufacturer/ importer.

In case of manufacture, it shall have a valid drug manufacturing/ drug license by the state / central licensing authority. The proof of turnover is to be furnished in format T1 certified by the charted accountant and supported by audited annual statement.

3. Bid document cost and EMD

The cost of tender document shall be furnished in the shape of Demand Draft in favour of Principal, Govt. Medical College, Anantnag and Earnest Money Deposit in the shape of CDR/FDR/BG pledged to the Principal, Govt. Medical College, Anantnag, J&K.

The bidder has to upload scanned copy of the demand draft online along with technical bid**. However , original instrument of bid documents cost and EMD in a sealed envelope clearly super scribed as bid for Instruments/equipments for Upgradation of Blood Bank to Blood Component & Separation Unit (BCSU) under NHM with bid reference no and the name of the bidder must reach the tender inviting Authority by post / courier on or before the opening of technical bid , failing which the bid shall be rejected .**

Firms which are registered as MSME units shall be considered for exception of EMD as well as cost of tender document.

EMD will be returned interest – free to the unsuccessful tenderers after finalization of the contract. No interest will be paid on the EMD under any circumstances. In the case of successful bidder, EMD will be discharged upon the

bidder signing the contract and furnishing the performance security deposit or shall be allowed to be adjusted towards performance security Deposit.

4. Forfeiture of bid security

The bid security will be forfeited in the following cases:-

a) If the bidder withdraws his bid after closure time of submission of tender.
b) In case of a successful bidder, if the bidder fails to sign the contract and/or to furnish performance security on or before the due date.
c) When bidder violates any terms and conditions of the tender documents.

Dean/competent authority reserves the right to accept or reject any or all tenders at any time without assigning any reason thereof what so ever and his decision shall be final on this account

5. Period of validity of bid.

a) The bid must remain valid for minimum of 180 days from the date of opening of technical bid . A bid valid for a shorter period shall be rejected by the tender inviting authority as non responsive.
b) The bidder cannot withdraw his bid within bid validity period and also after execution of rate contract agreement or issuance of supply order for any of the agreed items.

6. Duration of contract

Once the rate of contract is finalized the rate contract shall be valid for a period of one year from the date of approval of rate contract. However in case of emergency, the same can be extended for three months with the approval of Purchase Committee, GMC Anantnag.

7. Submission of bids

The bids are to be submitted online in two parts in the e –tender portal (www.jktenders.gov.in). Each process in the e- procurement is time stamped and the system can detect time of login of each user including the bidder.

a) Part 1-

The technical bid shall be submitted on the tendering portal with all the required documents as mentioned in tender document. The list of scanned documents to be up loaded online in PDF format are mentioned blow:-

i)	Format T1	Details of bidder
ii)	Format T2	Declaration form

iii) Format T3 — Annual turnover statement by Charter accountant.

iv) Format T4 — Details of items quoted

Note:- Tenderer who does not upload the (format T4) shall be rejected.

v) Certificate of registration from the appropriate Government authority (licence) / authorization letter from original manufacturer along with registration of the manufacturer.

vi) Scanned copy of demand draft for cost of tender document and EMD.

vii) Copy of pan card.

viii) Proof of GST registration.

ix) GST Clearance Certificate upto 31.03.2020.

x) Signed copy of tender document.

b) **Part 2** –

Price bid format (BoQ) is not enclosed in the bid document. It has to be downloaded from the e – procurement portal (jktenders.gov.in price). The price bid format (excel sheet available in e-Tender portal) is specific to a bid and is not interchangeable. The price bid format file (BoQ itemwise –FormBased) shall be downloaded from the e-Tender portal and the bidders shall fill up only following fields in the sheet BoQ1:

Column 3 — **Make of the Instruments/Equipments to be given against each item for which rates are to be quoted by the bidder**.

Column 13 — **Rates in Rs./paisa per unit including all taxes and charges to be quoted by the bidder**.

Quantities shown in the Price Bid are only indicative. The actual quantity shall be worked out later on as per requirement.

8. Signing of the BID

The bidder shall digitally sign on all statements, document, certificates uploaded on his own responsibility for the correctness / authenticity. If any of the information furnished by the bidder is found to be false/fabricated/bogus, the EMD /bid security shall stand forfeited and his /her name shall be recommended for blocking of portal registration and the bidder is liable to the blacklisted.

9. Price BID Opening

The opening of the price bid shall be done online by the tender inviting authority or his authorized representative. Only the price BIDs of the firms qualified in the detailed scrutiny and evaluation of the technical bid and samples verification, if any, conducted by the technical committee/Tender inviting Authority shall be opened in the second round.

10. Award of contract

The contract will be awarded to the lowest evaluated responsive bidder among the bidders whose samples/make will be approved by the Technical Evaluation Committee.

In case of L1 rates being quoted by more than one bidder the quantity to be supplied shall be equally divided amongst them. In case of single units, decision of the Principal shall be final.

In case L1 bidder fails to execute the contract/ supply the items, L2, L3 in the order may be asked to supply the items if they match the L1 rates.

11. Signing of Contract

Promptly after notification of award, within ten days from the date of the letter of intent, the successful bidder shall execute the contract (as per agreement **Annexure C**) on Rs.100/- stamp paper purchased in the name of the successful bidder, duly signed and dated, shall reach the Tender Inviting Authority by registered / speed post or in person.

12. Performance security

On acceptance of the tender, within the period specified by the Competent Authority, the Service provider shall deposit as security of a sum equal to 3% of the supply order as security deposit. The competent authority shall be entitled to forfeit the Security Deposit or any part thereof in case of any lapse in performance or to recover any loss or damage to the property or to the Purchaser due to the act of service provider or his staff without prejudice to any other remedies provided in the contract or available under law. The security shall be in the form of Demand Drafts in favour of "**Principal,Govt. Medical College, Anantnag**" payable to at Anantnag.

On due performance and completion of the contract in all respects, the Security Deposit will be returned to the contractor without any interest on presentation of an absolute No Demand Certificate in the prescribed form and upon return in good condition of all the property and articles belonging to the purchaser, which may have been issued to the contractor.

13. Payments

No advances payments towards cost of items will be made to the bidder. Payment shall be made after receipt of quality test report from government approved test laboratories and found as of "STANDARD QUALATIES " and bills shall be cleared after receipt of funds from the Govt.

14 Jurisdiction of Courts

All disputes arising out of this bid will be subject to the jurisdiction of courts of law at Anantnag only.

Format T1

(TO BE TYPED ON A LETTER HEAD OF THE TENDERER) TENDER FORM FOR supply of Instruments/equipments for Up-gradation of Blood Bank of Govt. Medical College, Anantnag **to Blood Component & Separation Unit (BCSU) under NHM,**

1. Name, address of firm/Agency/company: …….
2. Telephone No: ……..
3. Registration No: ……
4. Name, Designation, Address of the signing person:
   :……

   :……

   :……
5. PAN No. issued by Income Tax Deptt: ……
6. GST Number: ……
7. Tan No…….
8. MSME Registration: (if any)
   .....
9. Any Other Registration Required……
8. Details of BID Security/ Earnest Money deposit: ……..

I. Amount: …….
II. Date of issue: ……
III. Name of issuing authority: ……
IV. Any other information: ……

Declaration by the bidder

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself / ourselves to abide by them.

(Signature & Seal of the Tenderer)

(To be submitted in *Part – I Technical Bid*)

(Format T2)

DECLARATION FORM

(Affidavit before Executive Magistrate / Notary Public)

I / We …… …….having My / our office at…….do declare that I / We have carefully read all the terms & conditions of bid of Govt. Medical College, Anantnag for the supply of …….. (Name of the item). Our quoted price if approved will remain valid for a period of one year from the date of approval. I will abide with all the terms & conditions set forth in the Bid document Reference no. ……. Along with the subsequent amendment, if any.

I/We do hereby declare I/We have not been de-recognized / black listed by any State Govt. / Union Territory / Govt. of India / Govt. Organization / Govt. Health Institutions for supply of Not of Standard quality item/ Non-supply.

I/We agree that the Tender Inviting Authority can forfeit the Earnest Money Deposit and or Performance Security Deposit and blacklist me/us for a period of 3 years if, any information furnished by us proved to be false at the time of inspection /verification and not complying with the Bid terms & conditions.

I / We do hereby declare that I / we will supply the _____ as per the terms, conditions & specifications of the bid document and hereby further declare that I/We will supply the Drugs /Supplies as per specifications/make shown in the BOQ.

The rates quoted in the bid are valid for 180 days.

Signature of the bidder :
Seal Date :
Name & Address of the Firm:

(To be submitted in *Part – I Technical Bid*)

(Format T3)

ANNUAL TURN OVER STATEMENT

(In the letterhead of the Chartered Accountant)

The Annual Turnover for the last three financial years of M/S_____ who is a manufacturer/importer/distributer/stockiest of Drugs are given below and certified that the statement is true and correct.

Sl. No.	. Financial Year	Turnover in Crores (Rs) both in figures & words
1.	2017 – 2018	
2.	2018 – 2019	
3.	2019-20	

Date:

Signature of Auditor/
Place: Chartered Accountant
(Name in Capital)
Seal
Membership No.

N.B:
This turnover statement should also be supported by copies of audited annual statement of the last three financial years / Annual Report and the turnover figures mentioned above should be highlighted there.

(To be submitted in *Part – I Technical Bid*)

(Format T4).
Details of items quoted
(use additional sheets if space provided is not sufficient)

S. No	Item name	Whether the item is as per the Specifications given in the schedule of requirements (YES/NO)	Make

Note:- Tenderer who does not upload the above details shall be rejected.

Signature of the tenderer

Annexure C

AGREEMENT

THIS AGREEMENT made the…….... day of ……....., 2021 between…..... (Name and Address of *Purchaser*) represented by the Medical Superintendent, MMABM Associated Hospital, GMC, Anantnag (hereinafter "the *Purchaser*") of one part and …..... ……. (Name and Address of Supplier) (hereinafter "the Supplier") represented by …… (Name of the Authorized Signatory and Designation), Aged …….. years, residing at …… (Full Residential Address of the Signatory) of the other part:

WHEREAS the *Purchaser* has invited bids for the supply of ……..(brief description of goods and services vide bid no…….. dated ……..).

The supplier has submitted technical and price bids as contained in the bid document. The *Purchaser* has finalized the bid in favour of the Supplier on a Rate Contract basis for the supply of the said goods and services for Schedule attached hereto at the prices noted against each item on the terms and conditions set forth in the agreement.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the bid document referred to.
2. The following documents shall be deemed to form and be read and constructed as part of this Agreement, viz.:

(a) All the documents submitted by the bidder as part of technical bid and price bid;
(b) The Schedule of Requirements;
(c) The Technical Specifications and other quality parameters;
(d) The clarifications and amendments issued / received as part of the bid document
(e) The General Conditions of Contract;
(f) The *Purchaser*'s Letter of Intent.

3. In consideration of the payments to be made by the *Purchaser* to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the *Purchaser* to supply, install and commission the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The *Purchaser* hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the

provisions of the Contract at the times and in the manner prescribed by the Contract.

5. The supplier will not demand for release of EMD which shall be retained for due & faithful performance of the provisions of this agreement. Such is liable to be forfeited by the Purchaser in the event of the supplier failing duly & faithfully to perform any one or more or any part of any one of the said provisions.

Validity of Rate Contract: The rate contract shall be valid for a period of one year from the date of approval of rate contract.
Delivery Schedule: within 15 days.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the said …..... (For the *Purchaser*)
in the presence of ….....

Signed, Sealed and Delivered by the
said ….....(For the Supplier) (Signature, Name, Designation and
Address with Office seal) in the presence of ….....
1) (Signature, Name and Address of witness)
2) (Signature, Name and Address of witness).

Annexure "A"

Schedule of requirements

S. No.	Name of the Item	Specification	Quantity
01.	**Plasma Expresser (Manual)**	❖ Should be suitable to express blood components (plasma, platelets) from collection container. ❖ Mode of operation: Manual ❖ Front panel should be spring loaded to uniform pressure on container causing transfer of fluid. ❖ Compression plate should be made of transparent acrylic durable. ❖ Metal used for the equipment should be non-corrosive and can be cleaned with antiseptics. ❖ Base portion and vertical surface should be made to have better strength and lasting performance. ❖ Certifications: Product Certification: a. CE Class II A or US FDA certified ❖ Quality Certification: ISO Certified ❖ Electrical Safety: Equipment meets electrical safety specifications such as that of IEC (Class I)	04
02.	**Sterile Connecting Device**	❖ Should accommodate and weld all types of blood bag tubing in use in our country. ❖ The welding should be seamless. ❖ Should be Capable of joining wet-wet/et-dry/Dry-Dry tubes. ❖ Welding should not affect the quality of the tube in terms of its physical and chemical properties and it should not cause hemolysis. ❖ It should have LED indicators to display the actual status of ongoing procedural steps and audio-visual alarm system for any functional irregularities. ❖ The welding accessories should be available with the local agent throughout year.	01

		❖ The consumable wafer cost per 100 pieces to be taken into account during price evaluation. ❖ Compatible UPS with half an hour backup. ❖ Power supply 220V, 50 Hz AC. ❖ Certifications: 1. Product certification: CE Class II A or US FDA certified 2. Quality Certification: ISO certified 3. Electrical Safety: Equipment meets electrical safety specifications such as that of IEC (Class I)	
03.	**Deep Freezers -40°C**	❖ . (a) Range up to -40 C (b) Internal minimum Capacity 400 liters net. (c) Vertical Cabinet (upright) (d) Thermal capacity should be indicated i terms of tonnage at Ambient temperature 33 C ❖ Construction: Solid cabinet casing with phosphate cold rolled sheet steel to prevent corrosion) Acrylic vanishing of high quality and lockable castor. It should have 5 or 6 shelves of stainless steel of 22 G_ Outside sheet shall be of mild steel 3.00 mm (min_ Thickness) and inner side of stainless of stainless steel of 22 G. Outside sheet shall be of mild steel 1.00 mm (min. Thickness and inner side of stainless steel of 0.8 mm (Min, Thick) ❖ Control System Micro-processor-based temperature controller with digital to display LED-LCD with seven days graphic inkless to recorder with rechargeable battery backup including charger maintenance free and insensitive to vibration. Details of battery No. V, Ab etc. And details of battery charger shall be indicated ❖ Refrigeration System Heavy duty refrigeration system, maintenance free below- 0 C connections with hermetically sealed refrigeration compressors	01

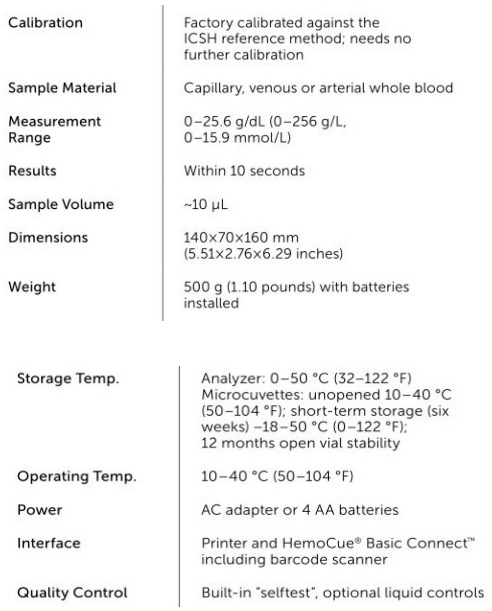
		and reliable refrigerator to minimize noise and vibration, air cooled with security lock to prevent unintentional switch off shall he supplied. It should have short cooling time of 4 to 5 hours at maximum ambient temperature of 33 C. the equipment should be of continuous duty and frost free. Access port for CO2 bad< up for refrigeration system in case of machine failure. ❖ Alarm: It should also hive audio visual Electronic Alarm system independent of power supply. ❖ Insulator: About 17.5 cm high density polyurethane or equivalent Gaskets — Double seal silicon_ ❖ Electric Requirements: To be operational on 220 to 240 V at 40 Hz. ❖ A line voltage corrector of appropriate rating should form part of standard configuration. Line Voltage Corrector; Copper wound single phase automatic line voltage corrector conforming to 15:9815 (Pt_ 1)/94 with amendments or equivalent international standards fitted with a voltmeter and switch to indicate output/input voltage as under: 1. Capacity /rating: As per the requirement of the equipment 2. Input_ voltage 160 to 260 volts 50 cycles. , 3. Output voltage 220 volts to 240 volts_ 4. the equipment should be supplied with 2-meter chord at input and fitted with lugs of appropriate rating (15 Amp) 5. Make of the line voltage corrector shall be indicated_ Additional Specification: (a) Completer with comprehensive set oi spare parts including a space compressor, refrigerant gas cylinder etc. And a suitable capacity voltage stabilizer. The	

		make, rating, model, description, specifications, price, quantity of each item shall be furnished separately. The spare shall not be quoted in the price of main equipment. (B) Necessary catalogues technical write up shall be attached with the offer. (c) Performance, efficiency, other factors such as distortion etc. As applicable be also furnished, (d) Complete construction, details in respect of material specification, thickries finish etc. are to be furnished. ❖ Notes for the: Tenderers: (a) The proprieties, specification details, thickness of the insulation construction of the cabinet, door etc. Shall be furnished. (b) Complete details e.g. make model rating; description of important equipment/apparatus shall be furnished. Only CE/USPDA & NACO approved makes item shall be used in case of indigenous stores (c) Training of the staff of the consignee for functioning/ operation, preventive maintenance shall be arranged by the successful tenders at his cost at the consignee's end during the trail run. (d) The deviations with technical details/explanations shall be brought out at a separate sheet (e) Thermal capacity shall be determined at the following conditions. (i) Evaporating temperature - 23.3 plus Minus 0.5 C (ii) Condensing temperature — 55 plus minus 1 C. (iii) At maximum ambient temperature of 33 C. (iv) Compressor Suction gas temperature - 32 plus minus 1 C. ❖ The equipment will have security	

		lock to prevent unauthorized opening. Note: Configuration should have all standard accessories and any Option may be separately indicated. Each item of standard accessory included as a part of configuration should be indicated.	
04.	**Automated Coagulometer**	❖ Coagulometer measures the blood clotting parameters ❖ Should be microcomputer controlled ❖ Semi-automatic with at least 4 channels optics ❖ Based on Optical principle with LED ❖ Should have integrated / external incubation block with pre – warming positions. ❖ Suitable for PT, a-PTT, fibrinogen, thrombin time, factors: II, V, VII, VIII, IX, X, XI, XII, Fletcher, AT-III, Protein C, Protein S, Heparin, STAT ❖ Results can be represented in seconds, %activity, ratio, INR g/l and mg/l ❖ Should be able to store specific test parameters in the system ❖ Should have LCD display ❖ Complete system with printer or facility for printer connectivity is required. ❖ Should generate the standard curve for factor assays ❖ Power input to be 220-240 VAC, 50 HZ fitted with Indian plug. ❖ Suitable UPS with maintenance free batteries for minimum 30 minutes back-up should be supplied with the system. ❖ Open system for reagent and low reagent consumption ❖ The unit shall be capable of being stored continuously in ambient temperature of 0- 50 deg C and relatively humidity of 15-90 %. ❖ The unit shall be capable of operating continuously in ambient temperature of 10-40 deg C and relatively humidity of 15-90 %.	01

		❖ User/Technical/Maintenance manuals to be supplied in English. ❖ Certificate of calibration and inspection. ❖ List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service/technical manual. ❖ Reagents for validation, training up to installation to be provided free of cost by manufacturer. ❖ Certifications: ❖ Product certification: CE Class II A or US FDA certified ❖ Quality Certification: ISO certified ❖ Electrical Safety: Equipment meets electrical safety specifications such as that of IEC (Class I)	
05.	**Elisa Reader with Washer**	**Specifications for Microplate (ELISA) Reader** ❖ Should have minimum wavelength range of 400–750 nm and photometric range of 0.0–3.5 OD ❖ Should have linearity of ≤1.0% from 0.0–2.0 OD; ≤2.0% from 0.0–3.0 OD; accuracy of ≤1.0% or 0.010 from 0.000–3.000 OD at 490 nm; precision of 1.0% or 0.005 OD from 0.0–2.0 OD; 1.5% from 2.0–3.0 OD and resolution of 0.001 OD ❖ Should have minimum 8 filter wheel capacity with 415, 450, 490, 595, 655, and 750 nm included filters ❖ Should have minimum 3 speed plate shaking with adjustable duration of 0–999 sec ❖ Read time should not be more than 6 sec at single wavelength or 10 sec at dual wavelengths ❖ Should have onboard graphical thermal printer and USB2 interface with PC or Mac data stations for data output ❖ Should be able to store data for over sixty assay protocols ❖ System should come with a comprehensive software	01

		package allowing colorimetric and turbidimetric analyses, as well as report analysis for raw data, absorbance, limit, matrix, normalization, and curve fit ❖ Software should have the functionality of flexible template creation for any microplate format up to 1,536 wells ❖ Software should be either license free or license for minimum 5 systems should be provided **Specifications for Microplate washer** ❖ Automatic washer compatible with strips and 96-well microplates that have flat-, U-, or V-bottom wells. ❖ Programmable needle positions (horizontal or vertical) to an accuracy of 0.1 mm for bottom washing, crosswise aspiration, and overflow washing. ❖ Dispensing speed control ❖ A plate shaking option to help minimize bubbles and adherence of liquid to well sides. ❖ Wash bottle sensor to detect high waste liquid levels ❖ Up to 75 programmable washing sequences ❖ Easily removable 8- or 12-way manifolds ❖ Easily accessible manifold interior for maintenance ❖ Removable and autoclavable plate carrier ❖ An aerosol protection cover ❖ Integrated vacuum and dispensing pumps to ensure accurate and quiet washing and to eliminate the need for external pumps. ❖ Residual well volume should be < 6 µl ❖ Wash bottle volume should be 2000 ml ❖ Soak time in strip mode 0-9.9 sec and in plate mode 0-59 minutes. ❖ Should come with 8-way manifold and 12-way manifold should be quoted in optional.	

		❖ On-board software should be capable of storing up to 110 wash protocols. ❖ Operating temperature 15-40 °C. ❖ Dimensions (WxDxH) not more than 35x43x20 cm ❖ Both instruments should be of from same manufacturer.	
06.	**General Refrigerator**	200 Ltrs	01
07.	**Hemocue**		01
08.	**Weight equipment for General Check-up**	❖ Capacities: D1130 - 300 lb x 1 lb, D1130K - 130 kg x 500 g ❖ Overall Dimensions: 2 x 16.75 x 2.5 in / 305 x 425 x 64 mm ❖ Platform Dimensions: 11.25 x 11.75 in / 286 x 298 mm ❖ Dial: 7 in / 178 mm ❖ Shipping Weight: 9 lb / 4 kg	02
09.	**Laminar Air Flow Bench**	**Technical Specifications for Laminar Air flow chamber no.1** **Operational Requirements** ❖ The basic equipment shall consist of a HEPA filter, pre filter, suitable ❖ blower assembly, necessary lighting, indicators and controls for the ❖ cabinet. ❖ Type of Flow: Vertical – Re-circulatory ❖ HEPA FILTER: Face dimensions:	01

		4ft (L) X 2ft (W) X 6 ft The HEPA filter ❖ should have rated efficiency of 99.97% (or better) at 0.3 microns to ❖ provide product protection of Class 100 or exceeding Class 100 ❖ requirements of Federal Standards 209E or equivalent ISO within the ❖ work. ❖ Pre filter with Synthetic, non-woven polyester fibers having casing of ❖ enamel painted CRCA frame with Retention of 10 - 15 Micron and 90 % ❖ Efficiency. Washable with an arrestance of 90% or better ❖ Dimensions : 32”(w) x30” (D)x33”(H) ❖ Specifications ❖ - With Airborne particulate controller and UV microprocessor controller ❖ - Should qualify ISO 5 vertical laminar flow air standards ❖ - Must have 360-degree visibility ❖ - Integral polypropylene base for easy cleaning with thermoplastic ❖ construction ❖ - Built-in fluorescent light and Slip hatch access port ❖ - HEPA filter monitor automatically indicates when filter change is required ❖ - Sturdy cart for mobility ❖ - Metal-free polypropylene construction available ❖ - Ultra Low Particulate Air filter ❖ - IV bar, HEPA filter monitoring with audible/visible filter change alarms ❖ - Variable speed blower control and Lab event timer ❖ - One-touch feature control ❖ - Switches and indicators: Individual switches and indicator lamps for blower ❖ motor, florescent lamp and UV lamp. ❖ - Low noise level ❖ - Should be suitable for Media	

		plate pouring, Non-hazardous cell culture ❖ and Sterile compounding ❖ System Configuration Accessories, spares and consumables. ❖ System as specified ❖ Spare HEPA Filters and PRE Filters- 2 SETS EACH , 2 Germicidal UV lamp ❖ Other fitting required for attaching auxiliary services are Electrical ❖ outlet socket (5 ampere rating) qty: (2 nos). 2. Valves for gas service-one ❖ each for gas and vacuum. ❖ Standards : Should be CE or FDA or BIS approved product ❖ Electrical connection : 230V, AC, 15 Amp ❖ Separate lighted power ON/OFF indicator switches for blower and ❖ lighting. ❖ Optional accessories: ❖ Height-adjustable lab chair, Ergonomic foot rest **Technical Specifications for Laminar Air flow chamber no. 2** ❖ Operational Requirements ❖ The basic equipment shall consist of a HEPA filter, pre filter, suitable blower ❖ assembly, necessary lighting, indicators and controls for the cabinet. ❖ Dimensions: 96”(w) x30”(D) x37”(H) ❖ With Airborne particulate controller and UV microprocessor controller ❖ Should qualify ISO 5 vertical laminar flow air standards ❖ HEPA filtration with all polypropylene construction ❖ Built-in fluorescent lighting with all-white surfaces ❖ Custom sturdy cart or stand, Cup sink and vacuum fittings ❖ Desirable: Polypropylene base cabinet and Ultraviolet light source with full ❖ sash	

		❖ Required Applications: ❖ Should be suitable for Media plate pouring, non-hazardous cell culture, sterile ❖ compounding and DNA/RNA extraction	
10.	**Dry Rubber Balancing Material**		01
11.	**PQS Digital Temperature Monitors**		02
12.	**Cell Counter**	**Description of Function** ❖ Automated Blood Cell Counter is used to count various types of blood cells in the blood. **Operational Requirements** ❖ Automatic blood cell counter that measures 18 parameters including 5-part differential of WBC is required complete with printer. **Technical Specifications** ❖ Parameters to be measured are -WBC, LYM%, LYM, MON%, MON, GRA%, GRA, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, PCT, PDW. ❖ Histogram WBC 5-part diff distribution, RBC distribution, PLT distribution . ❖ Measurement Principle Electrical impedance method (WBC, RBC, HCT, PLT) Cyanmet hemoglobin colorimetric method (HGB) ❖ Sample volume : Whole blood upto 150 µL. It should also be able to give all parameters with a finger prick volume of app 20 µL ❖ Throughput > 60 samples per second. ❖ Linearity Ranges WBC 0.5-80.0 * 103/µL RBC 0.20-7.50 * 106/µL HGB 2.0-25.0 g/dL HCT 10.0%-70.0% PLT 10-999 * 103/µL ❖ Reproducibility (CV) WBC RBC HGB HCT PLT	01

		LYM% MON% GRA% ❖ The sampling probe should be automatically cleaned off, so that any blood stack doesn't occur. ❖ It should take only 60-65 seconds to acquire the measurement result ❖ Various sensors should check the condition of the instrument. If any abnormality is detected, an error message be displayed so that occurrence of trouble is prevented ❖ Integrated thermal printer. ❖ On board memory for about 200-250 tests records. ❖ Monitoring and flagging functions. ❖ Automatic startup , Electronic self checks, rinsing and background count check and automatic cleaning in case of blockage in capillary/ bubble in fluid. **System Configuration Accessories, spares and consumables** ❖ System as specified- ❖ Reagents and printer paper for at least 1000 test should be provided. **Environmental factors** ❖ The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90% ❖ Thu unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70% **Power Supply** ❖ Power input to be 220-240VAC, 50Hz fitted with Indian plug ❖ Resettable overcurrent breaker shall be fitted for protection ❖ Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications.(Input 160-260 V and output 220-240 V and 50	

		Hz) ❖ Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system. **Standards, Safety and Training** ❖ Should be compliant to ISO 13485: Quality systems - Medical devices - Particular requirements for the application of ISO 9001 applicable to manufacturers and service providers that perform their own design activities. ❖ Should be compliant with IEC 61010-1:(or any international equivalent eg EN/UL 61010) covering safety requirements for electrical equipment for measurement control and laboratory use ❖ Should be FDA , CE,UL or BIS approved product ❖ Comprehensive training for lab staff and support services till familiarity with the system. **Documentation** ❖ User/Technical/Maintenance manuals to be supplied in English. ❖ Certificate of calibration and inspection. ❖ List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual. ❖ List of important spare parts and accessories with their part number and costing ❖ Log book with instruction for daily , weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out ❖ Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet.Anypoint	

		,if not substantiated with authenticated catalogue/manual, will not be considered.	
13.	**Insulated PQS Blood Transport Box with ice packs (for 20 Blood Bags)**		04
14.	**Insulated PQS Blood Transport Box with ice packs (for 08 Blood Bags)**		04
15.	**PH Meter**	**Description of Function** ❖ A pH meter is an electronic instrument used to measure the pH (acidity or basicity) of a Blood Sample in blood bank. **Operational Requirements** ❖ Portable digital system is required. **Technical Specifications** ❖ pH range should be 0-14 ❖ Milli volt range should be 0-1999+/- mv ❖ Resolution 0.01 pH ❖ Repeatability +/- 0.01pH +/- 1 digit ❖ Standardization range +/- 2 pH ❖ Temp. compensation 0-100 degree C ❖ Display 4 digit LED with automatic polarity ❖ Polarizing current 10 micro ampere ❖ Dimensions 240x230x115 mm ❖ Weight approx 2 kg **System Configuration Accessories, spares and consumables** ❖ System as specified- ❖ Accessories to be supplied –part of glass and reference electrodes, electrode holder ❖ All consumables required for installation and standardization of system to be given free of cost. ❖ System should be quoted with complete accessories and probes to make it functional as per technical specifications. **Environmental factors** ❖ Shall meet IEC-60601-1-2	01

		:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility. or should comply with 89/366/EEC; EMC-directive. ❖ The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90% ❖ Thu unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%. **Power Supply** ❖ Should work on 220-240V AC as well as rechargeable batteries. Mains adaptor to be supplied **Standards, Safety and Training** ❖ Should be FDA , CE,UL or BIS approved product ❖ Protection level should be certified for IP 67 ❖ Should comply with IEC 61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements ❖ Comprehensive warranty for 2 years and 5 years AMC after warranty ❖ Manufacturer/Supplier should have ISO certification for quality standards. **Documentation** ❖ Certificate of calibration and inspection. ❖ List of Equipments available for providing calibration and routine Preventive Maintenance Support. as per manufacturer documentation in service/technical manual. ❖ List of important spare parts and accessories with their part number and costing.	
16.	**Digital Analytical Balance**	**Technical Specifications** ❖ Capacity: 0-200g ❖ Readability: 0.1 mg ❖ Repeatability: ± 0.2 mg ❖ Linearity: ± 0.2 mg	01

		❖ Pan Dimension: Dia. 80mm ❖ Stabilization Time: 3-5 sec ❖ Overall Dimensions (L×W×H): 340x215x350 mm ❖ Power Supply: AC 110-240V/ DC 9V ❖ Weight: 7.5 kg	
17.	**Sterile Connecting Device**	**Technical Specifications:** ❖ Compatible with all standard tubing of blood bags. ❖ Operational requirements- Compatible with all standard tubing of blood bags. ❖ Technical Specifications- Compatible with all standard tubing of blood bags. ❖ Should be possible to weld external diameter 3.9 to 4.5 mms. and internal diameter of 2.9 to 3.1 mms. ❖ Sensor controlled temperature welding. ❖ To be operational on 220 to 240 V at 50 Hz. **System Configuration Accessories, spares and consumables** ❖ Sterile Connecting Device- 01 ❖ Cost for Wafers may be ascertained during tendering, since it would be a proprietary item, and not possible to quantify requirement initially. **Environmental factors** ❖ The unit shall be capable of operating continuously in ambient temperature of 10 -400 C and relative humidity of 15-90% ❖ The unit shall be capable of being stored continuously in ambient temperature of 0 -500 C and relative humidity of 15-90% ❖ Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility. **Power supply** ❖ Power input to be 220-240VAC, 50Hz,/440 V 3 Phase as appropriate fitted with Indian plug ❖ Resettable overcurrent breaker shall	01

		be fitted for protection ❖ Suitable Voltage Corrector. **Standards and safety** ❖ Should be FDA or CE/ISI approaved product. ❖ Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450 ❖ Manufacturer should have ISO certification for quality standards. **Documentation** ❖ User manual in English ❖ Service manual in English ❖ List of important spare parts and accessories with their part number and costing. ❖ Certificate of calibration and inspection from factory. ❖ Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. ❖ The job description of the hospital technician and company service engineer should be clearly spelt out ❖ List of Equipments available for providing calibration and routine Preventive Maintenance Support. as per manufacturer documentation in service/ technical manual.	