



**EMPLOYEES STATE INSURANCE CORPORATION  
MEDICAL COLLEGE & HOSPITAL, KALABURAGI**

[Ministry of Labour & Employment Govt. of India]

SEDAM ROAD, KALABURAGI- 585106

Ph. No. 08472- 265546/ 47/ 48 Fax No. 08472- 265545

No. 532/GLBMC/U/26/12/E-Tender/MSO/2017-18 Vol. III

Date: 07.11 .2017

**NOTICE: Invitation of Re-E-Tender for procurement of Equipment's for Department of Anatomy  
Blood Bank and Radiology.**

**TENDER NO. 01/17-18**

**Annexure -A**

Sl. No.	Details	Dates and Time
1.	Period for submission of Re E-tender form	07.11.2017 to 21.11.2017 upto 02:00 P.M
2.	Last date & time of submission of Re E-tender	21.11.2017 upto 02:00 P.M.
3.	Date & Time of opening Re E-tender	21.11.2017 at 3:00 P.M.
4.	Bid Security/Earnest Money to be sent through post/delivered in hand/dropped in tender box	Mentioned against each equipment
5.	Total Approximate Tender of Value	Rs. 69,25,000/-

**Payment Related Instructions for Bidders**  
**(Important Instructions for Bidders)**

All bidders/contractors are required to procure Class-IIIB Digital Signature Certificate (DSC) with Both DSC Components i.e. Signing & Encryption to participate in the E-Tenders.

Bidder should get registered at <https://esictenders.eproc.in>.

Bidders can contact our Helpdesk at <https://esictenders.eproc.in/html/Support.asp>

Bidder needs to submit Bid Processing Fee charges of Rs. 2495/- (non-refundable) in the form of Demand Draft from any scheduled bank, in favour of M/s. C1 India Pvt. Ltd. payable at New Delhi (or in any other form as acceptable by C1 India Pvt. Ltd.) for participating in the Tender.

Along with the Demand Draft, Bidder needs to send a covering Letter mentioning about the Payment Details, Company Name, Address, User Id and Payment towards ESIC Bid Processing Fees (Mention the Tender ID and Tender Title).

The payment should reach at the below mentioned address, at least one day before the due date and time of Bid Submission:

Kind Attn: Mr. Mohit Chauhan

C1 India Pvt. Ltd.

301, Gulf Petro Chem Building, 1st Floor,

Udyog Vihar, Phase – 2,

Gurgaon, Haryana - 122015

**Note: Bid Processing Fee will be Approved only after the receipt of payment.**



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**RE-E-TENDER NO 01/17-18**

Re-E-Tenders under Two Bid system through 'e' procurement solution are invited by Dean ESIC Medical College & Hospital, Kalaburagi for the supply of following items required for ESIC Medical College & Hospital, Kalaburagi.

S.No.	Name of the equipment	Qty	Department	E.M.D. in Rs.	Date of Opening
1	Portable cadaver storage tank	05	Anatomy	Rs.10000/-	21.11.2017
2	Embalming Workstations	01	Anatomy	Rs.8000/-	21.11.2017
3	6 PDA XN 350	01	Blood bank	Rs.13,000/-	21.11.2017
4	Blood bank Refrigerator	02	Blood bank	Rs.8,000/-	21.11.2017
5	Donor Couch	03	Blood bank	Rs.9,000/-	21.11.2017
6	Plasma Expressor-Electronic	01	Blood bank	Rs.2,000/-	21.11.2017
7	Cross Match GEL Technology	01	Blood bank	Rs.6,500/-	21.11.2017
8	Auto Claves	01	Blood bank	Rs.2,000/-	21.11.2017
9	800mA Image Intensifier Fluoroscopy	01	Radiology	Rs.36,000/-	21.11.2017

Re-Tender documents are available on line from 07.11.2017 (<https://esictenders.eproc.in> and [www.esicmcglb.org](http://www.esicmcglb.org)). Bidders have to deposit the Earnest Money Deposit as detailed above through DD/ Bankers Cheques drawn in favour of "ESIC Fund A/C No. 1" payable at Kalaburagi.

The interested tenderers should upload duly filled tender form and their bids along with scanned copies of all the relevant certificates, documents, etc. in support of their technical & price bids all duly signed on our website: <https://esictenders.eproc.in> and [www.esicmcglb.org](http://www.esicmcglb.org) latest by 21.10.2017 up to 02:00 PM.

EMD and Undertaking (Annexure-II) shall also be submitted physically (Physical hard copy) along with Demand Draft/ Banker's Cheque of Earnest Money Deposit (E.M.D.) as stated above in favour of ESIC Fund Account No.1. The envelope containing EMD and Undertaking (Annexure-II) should be dropped in the Tender Box kept in Medical College, Kalabuaragi before closing date and time. The technical bids will be opened online on 21.11.2017 at 3.00 PM.

Hard Copy of EMD and Undertaking (Annexure-II) received after last date 21.11.2017 at 03:00 pm will not be considered. Proof of postage/courier won't be considered as a claim for timely submission of tender. All the bids received will be opened on the same day at 03.00 pm. Bidders or their authorized representative (with authority letter & ID Proof) may attend if they wish to be. In case 21.11.2016 is declared to be a holiday, those bids will be opened on next working day at the same time & venue. Bids without Earnest Money deposit will not be accepted.

RE E-Tender documents is also available for viewing on the tenders link of the websites of ESIC i.e. [www.esic.nic.in](http://www.esic.nic.in), <https://esictenders.eproc.in> & [www.esicmcglb.org](http://www.esicmcglb.org).

Any corrigendum to this letter will be notified through the aforesaid website only

**DEAN**



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**Check list of compulsory scanned copy of documents to be uploaded (Check List)**

**Annexure-I**

<b>Sl. No.</b>	<b>Document</b>	<b>Yes/No</b>
1	EMD must be submitted in tender box before closing date and time (As per Sl.No.1 of Terms & Conditions)	
2	Technical details of the quoted items with reference to tender specifications	
3	Catalogue/literature containing make & model of the Equipment offered	
4	Certificate stating Warranty/Guarantee period of equipment quoted is minimum 2 years.	
5	Five years CMC charges as given in Sl.No.13 of T&C along with rates of spares, if any in the price bid.	
6	Undertaking indicating that they have not supplied the said equipment to any individual, Govt. or private institution at the rate lower than the quoted rate	
7	Manufacturer's Authorization Certificate (As per Annexure III) in case bid is submitted by agents	
8	A certificate about Satisfactory performance report of the equipment & quality of after sales service duly authenticated from existing users of the equipment (As per Annexure-IV)	
9	A signed undertaking on non judicial stamp paper of 100/- ( One hundred only) along with tender (As per Annexure II) to be submitted along with EMD (also Hard	

	copy in the tender box).	
10	For the equipments where consumables/reusables etc. are required, a list indicating cost of consumables/spares be given in the price bid.	
11	Copy of Notarized TIN.	
12	Compliance certificate to CE/FDA/BIS etc. attached as per requirement in tender specifications	
13	Service Centre address.	
14	Authority letter from the competent authority with respect to name, designation and specimen signature of the representative signing the tender document/authority letter.	

Hard Copy of following documents to be submitted in the tender Box placed in the Medical College before date and time of opening the tender.

Sl.No.	Document	Yes/No
1.	EMD	
2.	Undertaking as per Annexure-II	

Note : 1. It should be ensured that all documents uploaded after scanning are legible, failing which the tender will be rejected.

2. Numbering of all pages uploaded should be done.



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**Re-e-Tender Notice No:01 /17-18**

Subject : Invitation of Re-E-Tender for procurement of Equipments for department of Anatomy, Blood Bank and Radiology.

**Annexure – “B”**

**Technical Bid**

1		Name of firm and type of firm		
2	a	Full Postal Address		
	b	Cell Phone No.		
	c	Telephone No.		
	d	Fax No.		
	e	Email-id		
3		Name and address of your bankers stating the name in which the account stands.	Name of the Bank Name of Branch A/C No. & Type IFSC Code No. MICR Number	_____ _____ _____ _____
4		Are you in the list of approved contractors of any other organization/ institution, if any give details.		
5		Any other information which you consider necessary to furnish		

**(B) Price Bid: (It should comprise of following)**

1. The information given in technical bid should be reproduced with prices indicated. Any deviation in this regard will render the bid liable for rejection. The prices should be all inclusive lump sum prices as per description given in Sr. No.2 below. The price of CMC for five years after expiry of warranty/guarantee period should be given in the price bid only.

The tender will not be considered without the offer of CMC. Rates of CMC will be considered for ranking purpose. In case of CMC, the rates should be quoted inclusive of spares. Only technical bid shall be opened first

& shall be referred for the technical evaluation. The price bid of only those bidders whose technical bid is found acceptable by the Technical Evaluation Committee will be opened by the purchase committee for further action.

**Any other item supplied along with equipment (e.g. Computer, Printer, UPS etc.) as per specifications should be covered under CMC.**

2. Rates should be quoted as lump sum price FOR destination in Rs. (**only**) inclusive of the cost of the equipment, freight, insurance, packaging, forwarding, excise duty etc.as well as charges for installation & commissioning with all the men & material required for the same. No other charges in addition will be payable on any account over & above the lump sum price quoted. Price variation clause will not be acceptable.

The rates quoted in ambiguous terms such as “freight on actual basis” or “packaging/forwarding extra” will render the bid for rejection irrespective of its gradation in r/o lump sum prices quoted. Bidders in their own interest shall ascertain the eligibility of whatsoever concession & exemption eligibility applicable to the Hospital & shall advise the purchaser & quote accordingly. CST/VAT (GST) may be claimed as per rules.

Tender should be typed in words as well as in figures free from erasing & errors in typing. The bidder must attest any erasing/error, otherwise the rates in reference of that particular item shall not be considered. The covering letter should indicate the list of enclosures.



## **TERMS & CONDITIONS**

1. **EMD** must be deposited by the bidder only through Demand Draft/Banker's Cheque in favour of 'ESIC fund A/c No.1' alongwith technical bid which shall be refunded to bidders without any interest after finalization of the tender.
2. **Security Deposit** equivalent to 10% of the total cost of the equipment must be deposited by the successful bidder through Demand Draft/Banker's Cheque in favour of 'ESIC fund A/c No.1' or Fixed Deposit/Bank Guarantee only in favour of 'Dean, ESIC Medical College & Hospital, Sedam Road, Kalaburagi.585106. (In case of Bank Guarantee (BG), a forwarding letter from the Branch Manager should be attached.) **The same shall be released after fulfillment of all the contractual obligations including submission of CMC proposal and security deposit of CMC (10% of CMC Charges quoted).** No interest shall be payable thereof. It is sole responsibility of the manufacturer/ authorized agent to submit CMC proposal one month before expiry of warranty.
3. A working **demonstration** has to be provided in Gulbarga only to the Technical Evaluation Committee within 01(one) week from the date of written communication from this office & **only one** chance for demonstration will be given.
4. Only Manufacturer/Authorized Distributor/Stockiest of the firm whose item is being quoted will be considered.
5. Only appropriate model as per specifications should be quoted. Alternate offer(s), if any, must accompany with the additional requisite EMD, failing which only first offer will be considered for evaluation.
6. Name, designation & specimen signature of the person/ representative authorized by the competent authority of the firm to deal with the tender must be enclosed along with the tender.
7. Tenderer must provide address, along with the Telephone No., fax No. , E-mail ID & Mobile No.with tender for all correspondence. The firm should also provide the complete address along with telephone No. & fax No. of the Service Centre from where after sales service would be provided.
8. **The tender will be valid for a period of one year from the date of opening of the tender.**
9. The equipment must be guaranteed/warranted for a minimum period of 2 years from the date of satisfactory installation.
10. **Delivery period** will be **30 (THIRTY) days** from the date of supply order. The date of delivery will be the date of delivery at consignee site.

- 11.** If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods, the supplier shall inform the consignee in writing about the same & its likely duration and make a request to the consignee for extension of the delivery schedule accordingly with no increase in price at any account.

The consignee, at its discretion, may agree to extend the delivery schedule with or without late delivery charges as specified in Para 12.

In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk & no claim for payment for such supply and/or any other expense related to such supply shall lie against the consignee.

- 12. If the supplier fails to deliver the goods within the time frame, the consignee shall, without prejudice, deduct from the contract price, a sum equivalent to 0.5% per week of delay or part thereof, subject to a maximum of 10% of the contract price. Once the maximum is reached, the EMD may be forfeited.**

- 13.** a) The tenderer must enclose an undertaking by the manufacturer of the equipment for servicing the equipment & supply of spare parts whenever required at least for 5 years, or as mentioned in the specifications, after completion of warranty.

b) The firm must ensure to keep the equipment in working order throughout the year.

c) In event of equipment, covered under CMC, going out of order, the fault shall have to be attended within 24 hours of lodging the complaint. In case the equipment is not restored in functional order within a week, a penalty of 0.5% of total cost of CMC of the equipment per day for the period of equipment remaining out of order will be levied during CMC.

d) If the equipment needs calibration, the firm shall be responsible for calibration as a part of CMC.

e) During the warranty period, in the event of equipment remaining out of order beyond a period of 24 hours of lodging the complaint, a penalty to extent of 0.25% of purchase value of the equipment shall be levied for each day of the equipment remaining non functional beyond permissible limit.

- 14.** Along with rates of CMC, a list of commonly used spares with prices as on date must also be enclosed in the price bid.

- 15. A Certificate about satisfactory performance & quality of after sales service of the equipment duly authenticated by the HOD/MS of the institution must be furnished as per annexure IV. Installation report/user list will not be considered as Performance Certificate.**

16. Tenderer has to submit a signed undertaking on a non judicial stamp paper of ₹ 100/-(One hundred only) along with the technical bid as per enclosed annexure II.
17. Tenderer has to submit Authorization Certificate along with the technical bid, on manufacturer's letter head as per annexure-III, in case bid is submitted by authorized agents.
18. Payment shall be released through RTGS after satisfactory installation of the equipment.
19. Equipment manufacturer must also provide technical documents explaining the prerequisites, data exchange format & detailed user & technical manuals explaining how to integrate & transfer data with third party hospital management application.
20. Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid, but both cannot bid simultaneously for the same item in the same tender. **One manufacturer cannot authorize more than one agent for the same model for the same tender otherwise tender of both agents will be rejected.**
21. If an agent submits bid on behalf of the Principal/ OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item.
22. The documents should be submitted as per annexure given in the tender, the bid may be rejected if any deviation/discrepancy is found.
23. Compliance certificate to any standard as mentioned in the specification (eg. CE/FDA/BIS etc.) must also be enclosed with the technical bid.
24. It is essential to submit legible online bid and also hard copy of EMD and Undertaking (Annexure-II). If any of these two is not submitted within scheduled date and time of opening of tender, the bid will not be considered.
25. All documents as per published tender (Annexure-I) should be uploaded.. Incomplete documents/ not legible documents will result in rejection of the tender.
26. Dean reserves the right to decrease/increase the quantity of any item or reject/accept any or all tenders without assigning any reason thereof. No correspondence will be entertained in this regard.
27. In case numbers of bids received for each equipment are less than three, it will not be considered. The bids will be returned without opening.

**Dean**

## Annexure-II

### Undertaking (To be submitted on 100 Nonjudicial stamp paper)

1. I, undersigned certifies that I have gone through the Terms & conditions mentioned in the tender document including annexure & undertake to comply with them. The rates quoted by me/us are valid & binding on me/us for acceptance for the period of one year from date of opening of tender.
2. It is certified that rate quoted are the lowest quoted for any institution/Hospital in India.
3. EMD deposited by me/us viz \_\_\_\_\_ ₹ \_\_\_\_\_ in the form of Demand Draft/Banker's Cheque in favour of "ESIC Fund Account No.1" Kalaburagi is attached herewith and shall remain in custody of the Dean, ESIC Medical College & Hospital, Kalaburagi as per S.No. 1 of Terms & Conditions.
4. (A) I/We give the rights to Dean, ESIC Medical College & Hospital, Kalaburagi-585106, to forfeit the EMD deposited by me/us if any delay occur on my/agent's part or fails to supply the article at the appointed place & time & of the desired specification.  
 (B) I/we undertake that I/we will be in position to provide Comprehensive Annual Maintenance Contract (CMC), Spare Parts, & consumables for 5 years after completion of guarantee/warranty period .I/we also undertake to keep the equipment in running order throughout the year under warranty / guarantee/ CMC and in case of equipment going out of order, the fault will be attended within 24 hours of lodging the complaint. The firm shall ensure the machine is set right within 7 days of intimation. However I/we have to arrange similar equipment as a standby at mine/ours cost & risk, in case of breakdown of machine is not set in working condition within the specified period. Failing which, a penalty of 0.25% of the total cost of the equipment per day for the period equipment remains out of order be levied on me/us.
5. There is no vigilance/CBI case or court case pending against the firm/supplier.
6. I/we do hereby undertake that the firm is in this business since the last three years.
7. On Inspection, if any article is found not as per supply order, it shall be replaced by me/us in time as asked for, to prevent any inconvenience at my /our own expenses.

8. I/we hereby undertake to supply the items as per specifications and directions given in supply order within the stipulated period.

9. I/we undertake to provide guarantee/warranty as mentioned in specifications from the date of satisfactory installation & inspection. I also undertake that I will maintain the equipment during this period & replace the defected parts free of cost, if necessary.

10. I/we understand that Dean, ESIC Medical College & Hospital, Kalaburagi-585106, has the right to accept or reject any or all the tenders without assigning any reasons (s) thereof.

**Name, Signature & Address of the tenderer with rubber stamp**

**AUTHORIZATION CERTIFICATE**

**Annexure III**

To,  
Dean,  
ESI C Medical  
College&Hospital,  
Kalaburagi-585106.

Respected Sir,

Authority letter against R e - e - Tender No.  
due on item quoted

We,M/s \_\_\_\_\_ , who are established & reputed manufacturers of \_\_\_\_\_ having factory at \_\_\_\_\_ & hereby authorize M/s \_\_\_\_\_ (Name & address of agent) to bid, negotiate & conclude the contract with your institution against above tender for the above goods manufactured by us.

We hereby extend our full guarantee/warranty as per Clause at S. No. 9 of the Terms & Conditions of tender for the goods offered for supply against this invitation of bid from the above firm. We also confirm that the spares & any other miscellaneous items (As applicable) of the equipment quoted will be freely available for at least five years after expiry of Warranty/guarantee period.

Our other responsibilities include:

- 1. Information regarding the name of new agent, in case of change of agent
- 2. -----(Here specify in detail manufacturer’s responsibilities)

The services to be rendered by M/s-----are as under

- 1. -----
- 2. -----

(Here specify the services to be rendered by the agent)

-----**(Name of the firm)** is responsible for timely submission of CMC Proposal.

Yours faithfully,

**(Signature & Name of manufacturer with address & seal**

Note: This letter of authorization should be on the letter head of the manufacturing concern & should be signed by a person competent & having the authorization to issue the said certificate on behalf of the manufacturing firm. The said certificate should also bear the signature of participating bidder as a witness.

**Annexure IV****Satisfactory Performance Certificate**

Certified that M/S \_\_\_\_\_ has supplied the equipment \_\_\_\_\_ which has been functioning satisfactorily at \_\_\_\_\_ department of this Hospital/Institution since \_\_\_\_\_.

It is also certified that after sales service provided by the manufacturer M/S \_\_\_\_\_ have been satisfactory.

Note: This certificate should be on the letter head of the Hospital/Institution & should be signed by HOD/MS/CEO of the Hospital/Institution. The said certificate should also bear the signature of participating bidder as a witness.



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**No. 532/GLBMC/U/26/12/E-Tender/MSO/2017-18 Vol. III**

**Date: 07.11.2017**

**Subject :** Invitation of Re-E-Tender for procurement of Equipments for department of Anatomy, Blood Bank and Radiology.

**Annexure- "C"**

**FINANCIAL BID**

Sl. No.	Name of the Equipment	Qty.	Rate Per unit (A)	CMC (5 Year) (B)					AMC (5 year) (C)					Total of Rs. (A+B)	Total of Rs. (A+C)
				I	II	III	IV	V	I	II	III	IV	V		
1.															

Date:

Place:

Signature of Tenderer  
With address & Seal

Note:

1. Tenderer should enclose the list with unit price of spare parts which may require after expiry of warranty.
2. Tenderer should also quote the consumable price (if required for equipment).
3. GST as applicable shall be given.
4. The L1 Shall be decided by the committee either on (A+B) or (A+C) the price quoted at As mentioned above. The committee shall decide the criteria to be adopted.

Signature of Tenderer  
With address & Seal



# SPECIFICATIONS

## Item no 1.Portable cadaver storage tank

- a. Whole body prepared from stainless steel
- b. Each tank with capacity to store 2 human cadavers
- c. Dimensions:60 inches (length)X36 inches (breadth)X10 inches (height)
- d. Fitted with stainless steel lid
- e. Fitted with wheels at all 4 corners
- f. No partitions

## Item no 2.Embalming Workstations

- a. Complete stainless steel constructions for both embalming trolley and embalming machine
- b. An inbuilt rail at the lower portion of workstation to mount or remove embalming machine
- c. Complete stainless steel trolley mounted on heavy duty castors for easy movability
- d. Frame size:75inches(length)X28inches(Width)
- e. Provisions at all the 4 corners of the trolley for mounting of IV Rod

## Item no3. 6 PDA XN 350

1. The instrument should be fully automated fluorescence flow cytometry based 6-part differential hematology analyzer offering automatic start-up, shutdown and sample-analysis.
2. The instrument should have random access discrete analysis modes for CBC , CBC+DIFFERENTIAL+ IG.
3. The instrument should have 24 PARAMETERS reported:  
WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV , PLT, NEUT % , LYMPH % , MONO% , EOS % , BASO % , NEUT # , LYMPH # , MONO # , EOS # , BASO # , PDW, MPV, PCT, P-LCR, IG # , IG %  
TWO HISTOGRAMS – RBC, PLT and ONE SCATTERGRAM
4. The instrument should have throughput of atleast 60 samples per hour in both the discrete analysis modes.
5. The sample aspiration volume for the complete differential blood count should not be more than 70 µl.
6. The instrument should have the following analysis modes , Manual – open & Capillary mode.
7. The instrument should have Hydrodynamic focusing / impedance method for RBC/PLT channel.
8. The instrument should have Cyanide free Sls-hb /colorimetric method for the hemoglobin measurement
9. The instrument should be equipped with Fluorescence based semiconductor laser fluorescence flow cytometry for Differential channel.
10. Instrument should be able to enumerate immature granulocytes
11. Instrument should have facility for upgradation with additional clinical parameters like reticulocytes, immature platelet fraction etc.
12. Analyser must have option to enumerate differentials for body fluid samples
13. The instrument should have COMPREHENSIVE INFORMATION PROCESSING SYSTEM with:  
User-friendly Windows XP/ 7 based software.  
100000 sample data with histogram and scattergrams storage.  
99 QC files each with 300 points for QC can be stored
14. The instrument should have minimum maintenance with Semiconductor laser has lower power consumption, higher stability, and longer life thus cutting down on maintenance cost.
15. The instrument should be EXTENSIVE QC FEATURES :  
Min one file for X bar M.  
Delta checks available for cumulative review.  
Option for online QC also available.
16. It should have high linearity of over 4 lacs for WBC's ,over 40 lacs for Platelets
17. The company supplying the instrument should have a good track record and excellent service and distributor network all over India.

**Item no 4. Blood bank Refrigerator**

- Blood bank refrigerator should have stainless steel inner and outer body with full view glass door for observation.
- Should have automatic defrosting system
- Should have Capacity : 300 ltrs
- Should have digital temperature indicator and audio visual alarm
- Should have Built in Temperature Recorder & control unit with 7 days inkless chart recording with Battery backup
- Should have External stabilizer with input and output voltage indications should be provided.
- Should have high density CFC free urethane foam insulation to protect cabinet from ambient temperature fluctuations
- Should have uniform air flow & temperature maintenance in all parts of the cabinet
- Should have forced air circulation to maintain temperature uniformity
- Should have audio and visual alarms when there is temperature deviates from the preset limit, when there is power failure, door in left open and when sensor fails, temperature high and temperature low
- Temperature: Temperature should be maintained between +2C and +6C
- Should have safety lock for the doors with double glass door
- Should be factory calibrated sensor- IC integrated Metallic cap digital sensor
- Internal lighting: Should be provided using flicker free CFL
- Should have sliding trays for the easy access ability of blood bags
- Company should be an ISO 9001 certified company
- Should enclose master calibration done at electronic regional test laboratory (south), Department of Electronic, Government of India
- Should have construction-outside CR sheet with 1.2mm thickness and internal stainless steel with 22G

**Item no 05. Donor Couch**

- It should have adjustment for head portion up and down and fixed leg portion at 45 degree angle
- It should have adjustable head rest for different donors
- It should have movable arm rests that allows the donor to mount/dismount the donor couch easily
- It should have soft upholstery and supported by FRP body
- It should have remote control facility with wire initiating movement at the touch of a button
- It should have provision for lockable castor wheels
- It should have rotatable stand for placing blood collection monitor tray, IV stand and BP operators tray and other gauge
- Company should be ISO 9001 certified and equipment should be CE mark
- Service engineer should be based at Karnataka
- It should have interface for connecting blood collection monitor

**Item no 06. Plasma Expressor-Electronic**

- Should have highly sensitive opto electronic sensor and can activate the clamp, the instant it detects the presence of red cells or buffy coat in its path so that extracted plasma is totally free from red cell and buffy coat contamination.
- Should be uniquely design clamp mechanism
- Should have compression plate designed to exert uniform pressure on the donor bag minimizing the change of rupture of the bags
- It should ensure fast clamping at reduced power
- Should have interface with blood weighing scale
- Should be microprocessor based automatic calibration for different makes of tube and bags
- Both automatic & manual clamping modes
- Highly user friendly system with alarms and indications
- Equipment should meet the medical safety standards EN 61010-1
- Manufacturer should be an ISO 9001/9002 certified company

- Equipment should be CE marked
- Service engineers should be based in Bangalore
- 
- **Item no 07. Cross Match GEL Technology**

Sl. No	Specification
1	Gel based LISS/Coombs cards with 6 'V' bottom shaped micro tubes containing poly specific AHS (rabbit anti-IgG, monoclonal anti-C3d, clone no C139-9) for comb's cross-match, IAT, DAT.(US FDA approved).
2	Gel based forward/reverse grouping cards for patients (A-B-Dvi- - ctl – A1- B for patients) with 6 'V' shaped bottom tubes.
3	Gel based grouping cards for donor' (A-B-Dvi+ / A-B-Dvi) with 6 'V' shaped bottom tubes.
4	Diluent-2
5	Gel based ABO/Rh cards for new born blood grouping with 6 'V' shaped bottom tubes.
6	Rh- subgroup + Cw+K
7	Coombs IgG mono-specific cards with Anti-D for D weak test.
8	Gel based NaCl, enzyme test and cold agglutinins cards for cross match at 4 degree
9	Gel based Reverse grouping antibody screening cards i.e., A1-B-O/Dia Cell I-II-III.
10	Syphilis Antibody detection cards with 6 'V' shaped bottom tubes containing gel tests for specific antibodies directed against treponemal antigens.
11	PaGIA "syphilis" polymer particles, sensitized with recombinant antigens TpN15, TpN17, TpN47, red colored in ready to use suspension. Specificity and sensitivity >99% compared to TPHA method.
12	Gel based DC screening II IgG-C3d-Ctl.
13	DiaCell A1-B-O (Phenotype red cells for reverse grouping)
14	DiaCell I-II-III Asia(Mia+) (Asia specific panel for antibody screening)
15	DiaPanel I-II-III (11*4ml for antibody identification)
16	Anti-D reference reagent for quality control of coombs
17	Quality control (Q.C system) for the gel cards regents.
18	The equipment should be CE/FDA certified.
19	The company should be ISO certified

**Item no 08: Auto Claves**

- Made of triple chamber i.e. Working chamber , water chamber and outer jacket.
- Made from high-grade stainless steel with mirror finish.
- Lid should be made of heavy gun metal richly chrome plated.
- It should have 80MM Pressure guage, stop clock, safety device.
- It should have steam relese value, water inlet & outlet valves.
- Should be fitted with water level system.
- Should be mounted on heavy cast iron legs.
- Size :300 X 500MM.
- Optional Accessories :Foot –Pedal lifting system,Digital Timer

**Item no 09. 800mA Image Intensifier Fluoroscopy**

High frequency X-Ray machine suitable for radiography & fluoroscopy.

**I. X-RAY GENERATOR:**

High Frequency X-Ray Generator having frequency of 40 KHz or more should be provided.

Power output of generator should be of 80KW

KV Range should be:

a. Radiographic KV range: 40 to 125KV. b. Fluoroscopic KV range: 40 to 120KV.

mA output (Rad.): 800mA. mA output (Flr.): up to 3mA.

Exposure time (Rad.): 1ms to 3Sec.

mAs output (Rad.): 1 to 200mAs.

**CONTROL:**

A very compact, Soft Feather Touch Control Panel having following functions & indications should be provided. The panel can be supplied in Floor or Wall mount with Spill Proof design.

Following features should be available on the control panel.

- Machine ON/OFF Switch.

- Digital Display of KV & mAs.
- KV & mAs increase and decrease switches.
- Tube Focal spot selection switch.
- Ready and X-Ray on switch with Indicators
- Bucky Selection Switch.
- Self diagnostic Programme with Indicators for Earth fault error, KV error, filament error & Tube's Thermal Overload.
- Anatomical Programming Radiography (i.e. APR) should be provided in which KV and mAs are automatically selected depending upon the physique of the patient and part of the body to be XRayed.

Anatomical Programming up to 200 programmes or more

A dual action hand switch with retractable cord should be provided for Radiation Protection of Operator. There should be provision for a cordless Exposure switch also. There should be provision of auto shut off of Control if no key is pressed for 10Min.

#### **X-RAY TUBE:**

Two Nos. Dual focus Rotating Anode X-Ray tube thermally protected. One for over couch & 2<sup>nd</sup> for under couch operation.

Anode heat storage capacity of tube should be high. It should be rapid type.

Two Pair oH.V. Cable.

Two No. of collimator, one motorized for under couch operation and one manual for over couch operation.

#### **HV TANK:**

A very compact H.V. Tank filled with high dielectric transformer oil should be provided. The H.V. Tank should contain H.V. transformer, Filament Transformers, H.V. Rectifiers & H.V. Cable receptacles.

#### **IV.a. TUBE STAND:**

Floor to Ceiling Stand with Counter Balanced Tube Head (Rotatable  $\pm 180$  Degree), 360 Degree Rotatable; mounted on Floor Ceiling Rails for convenient movements should be provided.

#### **IV.b. TABLE:**

Motorised table having motorized bucky consisting of bucky grid of size 17 1/4" x 18 7/8" ratio 8:1, 85 lines/inch. Spot Film Device (semi automatic) capable of doing all routine spot filming (4 on 1, 2 on 1, 1 on 1) for use with 8" x 10", 10" x 12", 14" x 14" cassettes.

Grid size 15" x 15", 6:1 ratio, 103 lines per inch.

Compression movement of spot film device is motorised. The fluoroscopic parameters (fluoro KV, fluoro mA and fluoro time) are digitally displayed on the SFD. Control of fluoro KV is available on SFD. Lead glass and fluoroscopic screen of 14" x 14".

#### **V. IITV SYSTEM:**

9" triple field Image Intensifier should be provided. 9" I.I mounted directly on SFD with Motorized Up/Down movement. Soft touch control panel on SFD should be provided to control fluoro KVP.

High Resolution Compact CCD Camera should be provided. Pixels of camera should be 750(H) X 500(V) or more. 2 Nos. 17" TFT/LCD Monitor along with a trolley.

#### **VI. MEMORY SYSTEM** should include the following features:

2 Monitors System for LIH, LIVE and Stored Images.

Permanent Image Storage capacity of Approx. 10,000 Images.

50 Temporary Image Storage for quick review.

CD writer to Store Images on CD. Flicker free Images on a flat Screen.

32 Bit Image Storage for Excellent Resolution.

Image Sharpening (Real-time or Stored Images).

Image Rotation. Window level/window width manipulations.

Colorized Images. Dynamic contrast control (Gray Level Stretch).

Negative Images (Gray Level Invert). Frames Averaging for smoothing of Images. (Real time) 256 frames. 32

Bit at 800 x 600 resolutions. Digital Subtraction of Images.

QUAD view (4 Images on Monitor). Cine Loop of 500 frames (Multiple Cine Loops can be stored permanently). Variably frame Rate of 2, 5, 10, 15 & 27 frames per second for cine Loop.

Image orientation: Left/ Right – Top/ Bottom.

Patient's Name, Operator Name, Hospital Name, Date & Time display on Monitor.  
Images can be stored in folders of Individual patient's Name.Quick exploration of Stored Images.  
ON Screen Help Mode.ON Screen Measurements – Length (X & Y) & Area.  
Area of Interest Marker.Contrast enhancement of Area of Interest.  
Histogram of Area of Interest.Facility for Image Printing.  
Text annotations and provision of removal of all text from the image.  
Automatic capture and storage of cine loop with cine foot switch  
Offset and gain adjustments for improved image quality. Thumb nail use of complete study  
Frame by frame review. Frame rate selection.LAN connectivity. DICOM Compatible.

**VII. POWER REQUIREMENT:** The unit should be operable on 440V AC, 50 HZ 3 Phase – Max.

- a. Allowable line Regulation  $\pm 10\%$ .

**VIII. OTHER REQUIREMENTS:**

Should have safety certificate from a competent authority CE issued by a notified body registered in the European commission / FDA (US)/ STQC CB Certificate/ STQC S Certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate/ test report shall be produced along with the technical bid.The Unit should be approved by AERB.

**Accessories**

- \* Removable foot rest
- \* Hand grips
- \* Immobilizing device
- \* Radiation flaps
- \* 2 nos light weight lead aprons

Stabilizer for the entire equipment.