

SHRI. VASANTRAO NAIK GOVT. MEDICAL COLLEGE, YAVATMAL

Blood Bank Refrigerator 300 Ltr.

Specification

1) Operational Requirements

System required with weekly chart recorder and digital displays.

2) Technical Specification

2.1 Temp range-should have temperature control range from + 2degree to + 6 degree C, factory preset at 4 degree C. with setting accuracy of ± 0.5 degree C.

2.2 Capacity should accommodate at least 200 bloods bags of 450 ml.

2.3 Should be vertical cabinet.

2.4 Refrigerator system

a) The system should have high density CFC – free polyurethane foam insulation (80-90 mm) to protect cabinet from ambient temperature fluctuation.

b) The system should have positive, forced, air circulation to maintain temperature uniformity at all shelf levels, with quick recovery ± 1 degree C.

c) The system should have sensors for activating automatic defrost cycle to minimize the frost build up.

d) The system should have automatic condensate removal with no requirement for separate drainage lines.

3.5) Internal construction should be made up of high grade stainless steel (min 22 G) External construction Corrosion resistant sheet at least 1 mm thickness.

3.6 Internal Temp Control

a) system should have temperature control range from +2 degree C to + 6 degree C

b) temperature control resolution should be better than 0.5 degree C

c) Cooling down time of max of 150 min on half load.

3.7) External ambient temp should perform in ambient temp up to +43 degree C

3.8 Door system should lockable double glass doors for better safety

3.9 Safety system

a) system should have large and clear Digital displays for the set/run parameters.

b) The system should have weekly chart recorder temperature changes Alarms

3.10

- a) system should have audible/visual warnings for over temperature or under temperature and power failure, door open with visual status reports on critical function.
- b) system should have battery backup of minimum 4 hours and connections for remote alarm contacts.

3.11 Internal temperature hold over time in case of power failure should be at least one & half hours.

3.11 Temperature indicator & Strip chart recorder

3.12 should have adjustments for uneven bases. The adjustments should be easy to use like rotating a screw at the legs in the base.

3.13 Scratch resistant internal lining of the cabinet
(stainless steel or aluminum).

3.14 should have auto defrost facility

3.15 should have control fan cooling system for constant internal uniform temperature distribution.

3.16 should have double glass door.

4 System Configuration Accessories, spares and consumables

4.1 System as specified-

Quote pricing for the following essential spares : (01 each)

4.2 Compressor; Evaporator; Evaporator fan motor; Condenser fan motor ;Filter drier; Condensate heater; Service valve; Control unit; Transformer; Thermostat; Lamp; Contactor; Relay; Relay base;Door Switch; Door gasket.

4.3 Should provide temperature recording charts for one year free of cost.

SHRI. VASANTRAO NAIK GOVT. MEDICAL COLLEGE, YAVATMAL

Reagent Refrigerator 300 Ltr.

Specification

1) Operational Requirements

System required with weekly chart recorder and digital displays.

2) Technical Specification

2.1 Temp range-should have temperature control range from + 2 degree to + 10 degree C, factory preset at 4 degree C. with setting accuracy

of ± 0.5 degree C.

2.2 Net Capacity (liters) 300 Ltr.approx.

2.3 Should be vertical cabinet.

2.4 Refrigerator system

a) The system should have high density CFC – free polyurethane foam insulation (80-90 mm) to protect cabinet from ambient temperature fluctuation.

b) The system should have positive, forced, air circulation to maintain temperature uniformity at all shelf levels, with quick recovery ± 1 degree C.

c) The system should have sensors for activating automatic defrost cycle to minimize the frost build up.

d) The system should have automatic condensate removal with no requirement for separate drainage lines.

3.5) Internal construction should be made up of high grade stainless steel (min 22 G) External construction Corrosion resistant sheet at least 1 mm thickness.

3.6) Internal Temp Control

a) System should have temperature control range from +2 degree C to + 6 degree C

b) temperature control resolution should be better than 0.5 degree

c) Cooling down time of max of 150 min on half load.

3.7) Door system should lockable double glass doors for better safety

3.8) Safety system

a) System should have large and clear Digital displays for the set/run parameters.

b) The system should have weekly chart recorder temperature changes

3.9 Alarms

a) system should have audible/visual warnings for over- temperature or under temperature and power failure,door open with visual status reports on critical function.

b) system should have battery backup of minimum 4 hours and connections for remote alarm contacts.

3.10 Internal temperature hold over time in case of power failure should be at least one & half hours.

- 3.11 Temperature indicator & Strip chart recorder
 - 3.12 Should have adjustments for uneven bases. The adjustments should be easy to use like rotating a screw at the legs in the base.
 - 3.13 Scratch resistant internal lining of the cabinet (stainless steel or aluminium).
 - 3.14 Should have auto defrost facility
 - 3.15 Should have control fan cooling system for constant internal uniform temperature distribution.
 - 3.16 Should have double glass door.
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- 4 System Configuration Accessories, spares and consumables
 - 4.1 System as specified-
Quote pricing for the following essential spares : (01 each)
 - 4.2 Compressor; Evaporator; Evaporator fan motor; Condenser fan motor ;Filter drier; Condensate heater; Service valve; Control unit; Transformer; Thermostat; Lamp; Contactor; Relay; Relay base;Door Switch; Door gasket.
 - 4.3 Should provide temperature recording charts for one year free of cost.

SHRI. VASANTRAO NAIK GOVT. MEDICAL COLLEGE, YAVATMAL

TECHNICAL SPECIFICATIONS

BLOOD COLLECTION MONITOR

1. Should have a facility for gentle and uniform mixing of blood and anticoagulant.
2. Should have facility to view the collection time
3. Should have detachable tray for easy cleaning
4. Should have motor activated clamping system and automatic clamping for low rate, <20 ml/mt for more than 2 mts
5. It should be certified for electrical safety & Should have protection against Electrical shock.
6. Oscillation details : 12+2 RPM, Motor driven
7. Should have volume setting ranges from 50ml to 500ml in steps of 5ml, Automatic storage and recall of set volume.
8. Should have a LCD display with backlight.
9. Accuracy : + 2% of programmed volume
10. Should have the following alarm indications
 - a. LCD/LED indication and audible alarm for debit flow when flow rate goes below 20 ml/mt or high flow rate above 180 ml/mt.
 - b. LCD / LED indications and audible alarm at the end of collection
 - c. LCD /LED indications & audible alarm during power failure, LED blinking when battery low.
 - d. LCD/LED indications and audible alarm during power failure
 - e. Continuous display of collected volume, flow and time during collection
11. Automatic release of bag when lifted.
12. Should be operated on 200-240Vac, 50Hz supply and have an inbuilt maintenance free lead acid battery with charger and a battery having a minimum of 5 hours backup.
13. Manufacturer should be ISO certified .

SPECIFICATION OF NIGHT VISION CAMERA

CAMERA

Out Door Night Vision Capsul Camera

Distance : up to 100 Fit

Water Proff Wether Proof

CCTV CABLE WITH CASING & FITTING CHARGES
POWER & DATA CONNECTORS

8 PORT DVR BOX INTERNET READY (8 CAMERA)

500 to 1000 CB HARDDISK

POWER SUPPLY 8 CAMERA

SPECIFICATION OF NIGHT VISION CAMERA WITH CABLING WITH MONITOR
CAMERA

Image sensor	-	1/3" Sony CCD		
Single System	-	PAL / NTSC		
Effective pixels (H)x582 (V)	-	PAL-500 (H)x582 (V)	PAL-752 (H)x582 (V)	PAL-752
		NTSC: 510 (H)x492 (V)	NTSC: 768 (H)x494 (V)	NTSC: 510
				(H)x494 (V)
Min. Illumination	-	0.1 lux @ F1.2, AGC on, 0 lux with IR		
		0.2 lux @ F1.8, AGC on, 0 lux with IR		
Shutter time	-	PAL: 1/50s ~ 1/100,100s		
		NTSC: 1/60s ~ 1/100,100s		
Lens	-	6 mm @F1.8 (3.6mm, 2.8mm optical)		
	-	Angle of view 47° (6mm)		
Lens mount	-	M12		
Day & Night	-	Electronic		
Horizontal resolution	-	420 TVL	480 TVL	540 TVL
Synchronization	-	Internal Synchronization		
Video Output	-	1Vp-p composite output (75Ω/BNC)		
S/N ratio	-	More than 48dB		
BLC	-	On		

General

Operating Conditions	-	10 °C ~60 °C (14 °F ~140 °F), Humidity 90% or Less (non-condensing)
Power Supply	-	12 VDC ± 10%
Power consumption	-	3W max.
Weather	-	Proof rating - IP66
IR Image	-	Approx. 10 ~20m
Dimensions	-	φ65 x104mm (2.56"x4.09")
Weight	-	250g (0.55 ibs)

Key Feature

- Compact Design
- 1/3" CCD
- Low illumination
- Auto white balance, auto gain control, electronic shutter control and backlight compensation
- Internal Synchronization
- IP66 rating

SPECIFICATION OF NIGHT VISION CAMERA WITH CABLING WITH MONITOR
VISION

Model	DS - 7208HVI-ST	
Video / Audio input	Video Compression	H.264
	Analog video input	8-ch, BNC connector (1.0Vp-p, 75Ω); PAL/NTSC adaptive
	Audio Compression	OggVorbis
	Audio Input	4-ch. RCA connector (2Vp-p,1kΩ)
	Voice talk input	1-ch, RCA (2.0Vp-p, 1kΩ)
	VGA output	1-chm resolution :1024x768/60Hz
	CVBS Output	2-ch, BNC connector (1.0Vp-p, 75Ω); Resolution : PAL : 704x576, NTSC : 704x480
	Audio output	1-ch, RCA connector (Linear, 1kΩ)
Video / Audio Output	Recording Resolution	4CIF/ CIF/QCIF
	Frame rate	4CIF: 8fps CIF/QCIF:25fps (P)30 fps (N)
	Video Bit rate	32kbps~2048kbps, or user-defined (Max. 3072kbps)
	Stream type	Video / Video & Audio
	Audio Bit rate	64 kbps
	Dual stream	Support
	Synchronous playback	8-ch
Hard disk	Type	2 SATA interfaces
	Capacity	up to 2TB capacity for each interface
External Interface	Network interface	1, RJ45 10M/100M adaptive Ethernet interface
	Serial interface	1 RS-485 interface, 1RS-232 interface
	USB interface	2, USB2.0
	Alarm in	8
	Alarm Out	4
Other	Power supply	12VDC
	Consumption	≤ 10W (without hard disk or DVD-R/W)
	Working temperature	-10 °C ~ +55 °C
	Working Humidity	10% ~ 90%
	Size (mm)	45mm (H) x 445mm (W) x 290mm (D)
	Weight	≤ 4kg ((without hard disk or DVD-R/W)

SHRI VASANTRAO NAIK GOVT. MEDICAL COLLEGE, YAVATMAL.

GENERAL TERMS AND CONDITIONS.

ENVELOPE NO. 1 (TECHNICAL BID):- This envelope should be clearly marked as Envelope No.1 & should contain the following documents.

The required documents must be enclosed in following order. The Compliance Chart and the Information about firm and list of User must be prepared on separate sheet and attached in respective order.

1. **EARNEST MONEY DEPOSIT (EMD):-**The tenderer should pay EMD in the form of Demand Draft/ Bank guarantee of Nationalized Bank in favour of Dean, Shri Vasantryao Naik Govt. Medical College, Yavatmal. Tenderer exempted from payment of EMD should produce letter for exemption for the mentioned item. Firms registered with i) CSPO ii) D.G.H. & D. iii) S.S.I. Units registered with Director of Industries iv) N.S.I.C. & v) DGS&D are EXEMPTED FROM PAYING EMD. The attested Xerox copies of the registration should be attached with the tender. The EMD will be forfeited to the good if the tenderer fails to complete the contract according to his tender if accepted. EMD of the unsuccessful tenderers shall be refunded within one months of finalization of the final order.
2. **SALES TAX /VAT CLEARANCE CERTIFICATE:-** Attested copy of Sales Tax /VAT clearance certificate mentioning clearance up to 31 Dec 2011 or where applicable sales tax exemption certificate from sales tax authority.
3. **AUTHORIZATION LETTER:-** A dealer quoting on behalf of manufacturer must attach authorization letter from the manufacturer to sell the equipment and to do after sales services. Sub dealer certificate will not be accepted.
4. **AFTER SALES SERVICE:-** Details of network of service centers in the Maharashtra with complete address , Phone, Fax No. to be attached.
5. **PRODUCT CATALOGUE:-** Catalogues/brochures should be enclosed giving technical details of the offered equipment in original. All specification should be substantiated by data sheets in original.
6. **I.S.O. OR I.S.I. CERTIFICATES:-** In case of equipment with ISO or ISI mark as per tender requirement (If ask for) relevant certificates from ISO or ISI should be attached.
7. **COMPLIANCE CHART:-** Information in the following format should be submitted. If quoting for more than one model (Maximum two models permitted) then separate formats should be enclosed for the separate models in the same envelope.

Tender specifications as asked in the tender form	Equivalent specifications quoted by the tenderer with the name of the manufacturer.	Whether the tender quoted by the supplier is as per specifications asked for, or otherwise Indicate against each item clearly YES/No.	If the tender quoted is not as per specifications then variations/ deviations should be clearly indicated against each item asked for
Make /Model			

8. **Proforma provided alongwith** tender form duly filed in with signature on every page.
9. **Users list:- Prepare a table on separate sheet .** Give the name , full address, Contact No. of user of same model quoted in the tender. It must have same specification mention in the tender. Users having variation in the specification mentioned in the tender documents should be clearly mentioned

along with the performance report of any one user. This office can call performance report directly from any user.

Give Maximum 3 Names (Preferably where the tenderer wants to give the demonstration)

Sr. No	Description	1	2	3
1	Name of the user			
2.	Full postal address			
3	Name of the contact person			
4	Contact No			
5	Model No			
6	Date of supply/installation			
7	Mention the variation in the Machine (with user) in compare with the tender specification.			

If the above mention information found false, the tender will be rejected and price bid of the same will not be open.

10. In case of every offer whether indigenous or imported the name of manufacturer, address together with brand / make model should be indicated in the tender.

Any conditional offer of the tenderer will be rejected.

The Companies /firms who have accepted the orders of supply in part but have not supplied instruments to this institution or these are adverse reports of supply repair maintenance form the user dept will not be eligible for participating in tenderer.

All the copies of certificates attached with the tender should be duly attested by Gazette Officer / Public Notary.

IF ANY OF THE ABOVE DOCUMENTS/ INFORMATIONS AS ENLISTED FROM No.1 TO No. 10 IS NOT ATTACHED WITH THE TENDER, THE TENDERER IS LIABLE TO BE TREATED AS INVALID.

ENVELOPE II (COMMERCIAL BID)

The second envelope should be clearly marked as ENVELOPE NO.2 (Commercial bid). It should contain the price. It should be sealed & marked as envelope No.2. **THE COST SHOULD BE QUOTED IN INDIAN CURRENCY ONLY.** The tenderer should quote the F.O.R. price. Inclusive of Insurance & freight, C.S.T., Sales tax, Octroi, Basic custom duty, Custom duty, custom clearance charges, CVD, SVD, surcharge or any other charges (existing or imposed before delivery of goods) transportation, installation, commissioning and inclusive of any civil, electrical work, fitting/fixture required for its installation and commissioning.

OTHER TERMS AND CONDITIONS CONCERNING THE TENDER.

1. No price should be quoted in Envelope No. 1. if any price is quoted in envelope No. 1 the entire tender will be treated as invalid.
2. Both the sealed envelope No. 1 and No.2 should be put together in one cover and it should be sealed. This sealed envelope should be marked on upper left hand corner mentioning name of the item, tender enquiry No and Date of tender opening. The full name and address of the tenderer should be written on the left hand lower corner. Such separate envelope containing sets of Envelope No.1 and No. 2 should be submitted.
3. Envelope No.2 will be opened only when the documents as mentioned in envelope No.1 are in order as per requirements and if item is as per specifications. Valid tenderers will be informed accordingly.
4. i) A hands on working demonstration is essential/non essential before opening envelop No.2
 - ii) The tenderer must give demonstration to the concern HOD by hands of their perfect technical person on a model which fulfilling all the points of the specification given in tender form. If their representative unable to show all points of specification or if found some point missing in the demonstrated model it will be treated as unsatisfactory demonstration and in such type of cases no second chance will be given for demonstration. Any type of undertaking will not be accepted and on the point of unsatisfactory performance of demonstration tender will be disqualified and price bid will not be accepted.
 - iii) The demonstration should be done if possible at the Institute specified. In case of heavy / bulky equipment the demonstration may be arranged at a place where the equipment is already functioning, (Same must be mentioned in the User list) as per convenience of the concerned technical committee at the cost of the tenderer. In exceptional cases the technical committee will have the power to waive the demonstration.
5. It shall be binding on tenderer to produce inspection certificate from agency specified starting that equipment is as per the technical specification laid down in the tender.
6. The tenderer should be kept open for acceptance for a minimum period of 90 days (or any other scheduled period which the tenderer may specify) from the date of opening the envelope No. 1
7. There will not be any price negotiations after opening of envelop No.2.
8. The successful tenderer will have to pay a security deposit of an amount equivalent to 3% of the cost of the equipments offered in one of the following form.
 - a) Bank guarantee valid for three years issued by any nationalized Scheduled bank in concurrence with the Reserve Bank of India.
 - b) National Saving Certificate, national Defence Certificate or Postal Saving Bank account pledged in the name of Dean, Shri Vasantrao Naik Govt. Medical College, & Hospital, Yavatmal for a period of three years.

9. The delivery of goods should invariably be made within 6 weeks from the date of confirm order. If the date of delivery cannot be strictly adhered to, then extension required by the tenderer should be stated in the bid. No excuses for delay by any statutory authority like custom etc. will be taken into consideration for extension of the period of delivery. The primary responsibility for supply of goods in time will be rest with the supplier.

Penalty on late delivery:- In the event of the late delivery of goods, the purchaser will recover from contractor by way of penalty, a sum equal to half percent of price of the goods (subject to maximum 5%) delivered late per week calculated from the next day after the agreed delivery period is over.

10. Comprehensive warranty (including supply of spares). All inclusive warranty period shall be two years from the date of commissioning of all equipments supplied as certified by the consignee.

The successful tenderer must ensure 100% uptime during warranty period. In case of down time, warranty period will be extended for period of down time. The tenderer will have to give bank guarantee (of Nationalized scheduled bank) of 5% of ordered value valid for 10 years towards performance guarantee for warranty. if the equipment is not attended within 48 hours the supplier will be liable to pay a penalty of 0.05% of purchase cost for every day of delay. Such penalty shall be recovered from the amount of bank guarantee. Certificate of such uptime/downtime shall be issued by the endures, which shall be binding for the supplier.

Replacement of parts and service thereof due to manufacturing defects during warranty period will be entirely at the supplier's cost. The expenditure incurred for procurement of spare, transport, installation, commissioning and various duties thereof shall be borne by the supplier.

11. The tenderer will have to agree to enter into a annual maintenance contract (AMC) @ 1% of the ordered value of the equipment. Where required tenderer will have to agree for comprehensive maintenance contract (CMC) inclusive of all spares @ 5% of the ordered value of the equipment. The period of such AMC/CMC will be of 8 years after completion of warranty period. In case of non-compliance of AMC/CMC the supplier will be liable to pay a penalty. Such penalty shall be recovered from the amount of bank guarantee submitted in No.10. Payment for AMC/CMC on yearly basis will be made by the user institution, at the end of year after satisfactory performance report from the end user.

12. Initial payment of 90% of the contract value will be made on delivery and installation. 10% of the contract value will be paid only on satisfactory commissioning of the machinery within 30 days.

13. The tenderer should install the equipment in the concerned department of the Institution give demonstration free of cost and train the staff of the department (No. as specified by the user).

THE DECISION OF THE DEAN, SHRI VASANTRAO NAIK GOVT. MEDICAL COLEGE WILL BE FINAL AND BINDING. THE DEAN RESERVE THE RIGHTS TO REJECT ANY OR ALL TENDERS WITHOUT ASSIGNING ANY REASON.

I have read all the terms and conditions or the tender carefully and I agree to abide by them.

Signature of the tenderer with seal