



OFFICE OF THE SUPERINTENDENT
MAHARAJA KRISHNA CHANDRA GAJAPATI MEDICAL COLLEGE HOSPITAL
BERHMAPUR-760004, GANJAM, ODISHA

Tel.0680-2292624,FAX.:0680-2292752// E.mail: supdtmkcg@gmail.com , supdtmkcg-bam@gov.in



No. 668 MCH/CS/XIX/2024

Date: 18/01/2024

TENDER CALL NOTICE

The Superintendent, MKCG Medical College Hospital Berhampur- 760004, Dist. Ganjam, Odisha Invites sealed tenders in the prescribed Proforma from the Registered and reputed Manufacturers, Authorized suppliers, Dealers, Stockiest and Wholesaler for "Supply of Instruments & Equipments for Lactation Management Unit (LMU) Paediatrics, MKCG MCH, Berhampur". The tenderer should submit the tender in two Bids (i) Technical Bid and (ii) Price Bid. *The Technical bid* shall contain (1) Tender Cost (2) List of bided items (3) valid PAN CARD, (4) Valid GSTN Certificate as per the Govt. rule, (5) Valid USFDA/ CE/ ISI/ ISO/ GMP Certificate, (6)Valid manufacturing License and Authorization Certificate in prescribed format & (7) E-mail ID & Contact No. *The Price bid* should be submitted as per Proforma enclosed. The intending tenderers should submit their tenders separately in two sealed covers duly superscribed as Technical Bid for "Supply of Instruments & Equipments for Lactation Management Unit (LMU) Paediatrics, MKCG MCH, Berhampur" & Price Bid for "Supply of Instruments & Equipments for Lactation Management Unit (LMU) Paediatrics, MKCG MCH, Berhampur" putting in a single sealed cover.

The bidders may download the tender papers from websites: www.ganjam.nic.in/ www.mkcgmch.org and deposit the tender cost of Rs. 2360/- (Two thousand three hundred sixty including 18% GST) is non-refundable to be paid by way of E-Challan under the Head Of Account 0075-00-800-0097-02237-000 through Odisha Govt. Treasury Site. The last date of receipt of tenders through Regd. Post / Speed Post/ Courier is on or before 03.02.2024 at 12.00 noon and will be opened on 05.02.2024 at 12:00 noon. The date of opening may be differed/ postponed in case of unavoidable circumstances.

The Superintendent, M.K.C.G Medical College Hospital, Berhampur reserves right to accept /reject/ cancel any or all the tenders in full or part without assigning any reason thereof


Superintendent
MKCG Medical College Hospital
Berhampur



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Terms and conditions:

1. Sealed tenders in prescribed proforma should be superscribed as “Tender for Supply of Instruments & Equipments for Lactation Management Unit Lactation Management Unit (LMU) Paediatrics, MKCG MCH, Berhampur” are to be submitted in the Office of the undersigned on or before 03.02.2024 at 12.00 noon by Regd. Post / Speed Post/Courier only and the technical bids will be opened on 05.02.2024 at 12:00 noon in presence of the tenderers or their authorized representatives in the office chamber of the undersigned. If any tenderer or its authorized representative fails to turn up at the time of opening of the tender, the process will continue as usual.
2. It is a two bid tender process i.e. one is Technical bid and the second one is Price bid to be submitted in separate sealed envelopes properly superscribed as Technical Bid / Price Bid.
3. Bidders are to submit both the above sealed envelopes in another envelope superscribed as: “Tender for Supply of Instruments & Equipments for Lactation Management Unit (LMU) Paediatrics, MKCG MCH, Berhampur” & also mention their Ph. No. and E-mail ID on the envelope with tender Name, Address, Mobile & E-mail Id.
4. The tenderer are to be submit the tender document fees in Technical Bid.
5. Tender(s) received after due date and time will not be considered under any circumstance.
6. All the tenderers should produce samples of the bid items before the Sample Test Committee if required.

7. After evaluation of the technical bids, check list & samples by the Committee, the price bids of the technically qualified bids only will be opened by the Committee on the scheduled date [to be notified to the technically qualified tenderers in due time by the Superintendent] in presence of the technically qualified tenderers or their authorized representatives. If any tenderer or its authorized representative fails to turn up at the time of opening of the tender, the process will continue as usual.
8. The tenderer should supply the Instruments & Equipments for **Lactation Management Unit (LMU) Paediatrics, MKCG MCH, Berhampur** as per specification enclosed in Annexure-I.
9. The requirements are subject to OSMC Ltd. BBSR supply.
10. Tenderers who have been blacklisted either by the tender inviting authority or by any state Govt. or Central Govt. organization are not eligible to participate in the tender.
11. The tenderer should submit the Original copies of Authorization Letter of manufacturers/ Principal firms as per Annexure-II, otherwise tender for the item will not be considered.
12. The office of the undersigned will confirm the authorization letter from the manufacturer or principal firms if its required.
13. The price quoted by the tenderers should not be more than the Open market Price/Gem price.
14. The tenderer should furnish the self attested copies of the following documents along with the technical bid document:
 - a. Affidavit in a Rs. 10/- stamp paper duly attested by a Notary to the effect that, they are (tender & manufacturer) not Black-listed by any State Government or Central Government Organization as per Annexure-III
 - b. Annual Turnover
 - c. Income tax return of last 3 years
 - d. Valid ID proof,
 - e. Valid GSTN clearance certificate from competent authority as per Govt. rule,
 - f. Valid PAN Card,



g. Valid manufacturing License/Authorization Certificate as per Annexure-II.

h. Bank details.

i. Certificate to the effect that price quoted is not more than the Open Market Price/ GEM Price.

15. If any information or documents furnished by the tenderer found to be misleading / incorrect at any stage the said tender will be out rightly rejected.

16. The price quoted should be final and shall not be subject to any escalation during the validity of the tender.

17. However the committee is not bound to accept the lowest rate considering the technical aspects/quality of the Product.

18. The tender will be valid for one year from the date of approval.

19. The items that are to be supplied must have warranty period of at least one year from the date of supply.

20. The rates so quoted should be on door delivery at Main Medical Store of M.K.C.G Medical College Hospital, Berhampur, Odisha. No extra charges for transportation is admissible.

21. No advance payment towards the cost of items will be made to the supplier as per Govt. Provision.

22. Payment shall be made on receipt of the stock entry certificate on the body of the bill/invoice from the store and on availability of funds / allotment.

23. The tenderer should adhere to the terms & conditions and submit the bids in the given prescribed proforma failing which the tender paper will be rejected.

24. The tender documents should be clearly written/ typed without any corrections, interpolation and over-writings etc and each page of the tender bid are bear the page number ,date, signature of the tenderer that will be mandatory otherwise the bid will be rejected.

25. If the manufacturing firms are directly submitting the tender, they should not authorize any other agent to quote for the same products simultaneously.

26. The tenderer has to supply the items at least within 20 (twenty) days from the issue of Purchase Order (P.O) positively.
27. The tenderer is not allowed to violate any terms & conditions (Regarding Payment, change of Brand, Hike of Price during tender validation period, supply period etc.)
28. The bidder should submit the EMD Rs. 50,000 (F.D./ NSC) from any of the nationalized bank pledged in favor of the Superintendent, MKCG MCH, Berhampur. The E.M.D will be returned to unsuccessful bidders after finalization of Tender process.
29. The Superintendent, MKCG MCH, Berhampur reserves the right to accept /reject/ cancel any or all the tenders in full or part without assigning any reason thereof.
30. Legal disputes, if any are subject to jurisdiction in the courts of law situated at Berhampur, Ganjam, Odisha.


Superintendent,
MKCG Medical College Hospital,
Berhampur

FRONT PAGE OF TECHNICAL BID

INFORMATION ABOUT THE BIDDER
(To be attached in Cover "A" - Technical Bid)

Sl. No.	Particulars	Details	Document Page Sl. No.
1	Name of the Bidder		
2	Address of the Bidder		
3	E-mail ID of the Bidder		
4	Mobile No. [with Whatsapp] of the Bidder		
5	Details of Bank Account: [Attach cancelled cheque / 1 st page of pass book] Name of Account Holder: Name of Bank with Branch: Account Type: Account No.: IFS Code:		
6	Bided item List		
7	Notarized affidavit in Rs 10/- Non-judicial stamp paper for not being blacklisted.		
8	Valid Authorization Letter from the Manufacturer or firm / Manufacturing License	No. _____ date: _____	
9	Valid GSTN Certificate	No. _____	
10	PAN details		
11	Aadhar No of the Tenderer / authorized representative		
12	Valid ISI/CE/BIS/ISO Certificate	No. _____ date: _____	
13	Cost of Bid Document [Rs. 2360/- including 18% GST]	No. _____ date: _____ (Online)	
14	Certificate to the effect that price quoted is not more than the Open Market Price/ GEM Price.		
15	Cost of EMD Rs. 50,000 pledged in favor of the Superintendent, MKCG MCH, Berhampur		

N.B.: Self attested copies of the relevant documents are to be attached with this document.

Date:
Place:

Authorized Signatory
(Signature and seal of the Authorized Signatory)

(1) PROFORMA FOR TECHNICAL BID

Sl. No	SI No. as per Tender List	Name of the Product	Specification	Mfd. Name, Brand, etc.	Documents to be attached – Authorization Certificate ISI/CE/BIS/ISO Certificate, Up to Date GST clearance Certificate, 3 year Income Tax Return, Annual Turnover, etc.
1	2	3	4	5	6

Date:

Place:

Authorized Signatory
(Signature and seal of the Authorized Signatory)

(2) PROFORMA FOR PRICE BID

Sl. No	SI No. as per Tender List	Name of the Product	Specification	Mfd. Name, Brand etc.	Basic Rate including packing forwarding i.e. F.O.R Destination (Per piece/ Unit)	GST as applicable	Any other Taxes Charges Duties levies if any,	Total (6+7+8)
1	2	3	4	5	6	7	8	9

Date:

Place:

Authorized Signatory
(Signature and seal of the Authorized Signatory)



**To be Submitted in Technical Bid
Authorization Letter**

No. _____ date _____

To

The Superintendent,
MKCG Medical College Hospital,
Berhampur

Sub: Authorization Letter

Ref: Tender Call Notice No..... Dt.

Dear Sir,

Weare the original manufacturers of the LMU (Paediatrics) Instruments & Equipments having the registered office at..... (full address with mobile number, email ID & website), having factories at..... and, do hereby authorize M/s. _____ (name & address of bidder) as _____ to submit bids.

We conform that M/s _____ (name of the bidder) is authorized to submit a tender and enter into a contract with for the above goods manufactured by as.

No company or firm or individual other than M/s _____ are authorized to bid the specific Tender.

Yours faithfully

(Name)
For and on behalf of M/s _____
(Name of the Manufacturers)

Note: This letter should be on the original letterhead of the manufacturer and should be duly signed by a person having the power of attorney to legally bind the manufacturer.

**To be Submitted in Technical Bid
Declaration Form**

Affidavit before Executive Magistrate/Notary Public in 10 Rupees Stamp Paper

I/We _____ having may / our _____ office at _____ declare that I/we have carefully read all the terms & Conditions of the tender of the _____ Odisha for the supply of Instruments & Equipments the approved rate 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 Tender Reference No. _____

I/We do here by declare I/We have not been de-recognized/ Black listed by any state Govt./ Union territory/ Govt. of India/ Any Govt. Organizations / Govt. Health Institution/ State Medical Corporation for supply of Not of Standard Quality items/ non-Supply.

I/We agree that the Tender inviting Authority Can forfeit the EMD and Blacklist Me/as for a period of 3 (Three) years if any information furnished by us proved to be false at the time of inspection/verification and not complying with the tender Terms & Conditions.

Seal;

Signature of the Bidder:

Date:

Name & Address of the Firm:

Annexure-I

Sl. No.	Name of the Equipment	Quantity
1	Electric Breast Pump	2
2	Milk Container	4
3	Pasteurizer	1
4	Laminar Airflow	1
5	Refrigerator	1
6	Deep Freezer	1

Section – IV Specification

1- Breast Pump		
Medical device specification		
General		
1 Use		
1.1	Clinical purpose	A breast pump is a device that extracts milk from the breasts of a lactating individual. Breast pump is an electrical device powered by electricity or batteries.
1.2	Used by clinical department/ ward	NICU and PICU
2 Technical Characteristics		
2.1	Technical characteristics (specific to this type of device)	<ol style="list-style-type: none"> 1. Pumping frequency 30 to 80 CPM and user adjustable. 2. Cushion inserted inside the breast cup so that it does not hurt the mother. 3. Suction Pressure 100 to 250 mm hg; user adjustable. 4. Able to express milk from both breasts simultaneously. 5. Collection bottles can be used for storage of milk. 6. Double alternating pumps/double cycling pumps. 7. Should be motorized breast pump units. 8. Should be hospital grade.
2.2 User's interface Manual		
2.3	Software and/or standard of communication (wherever required)	NA
3 Physical characteristics		
3.1	Dimensions (metric)	Portable
3.2	Weight (lbs, kg)	Compact unit (weight less than 4 kg)
3.3	Configuration	LCD/LED display suction timing
3.4	Noise (in dB)	<60db
3.5	Heat dissipation	NA
3.6	Mobility, portability	Yes
4 Energy source (electricity, UPS, solar, gas, water, CO₂ ...)		
4.1	Power Requirements	220-240 V AC + 10%, 50-60Hz power supply; 5A plug; TYPE D
4.2	Battery operated	NA YES (OPTIONAL).
4.3	Tolerance (to variations, shutdowns)	± 10% of input AC.
4.4	Protection	Electrical protection by reset table over current breakers or replaceable fuses.
5 Accessories, Spare parts, consumables		
	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system)	<ol style="list-style-type: none"> 1. Reusable collection bottles along-with breast cups - 10 sets. 2. All kinds of tubes - 12 sets (if applicable). 3. Breast pump Valve and Membrane (Pack of 4 Valves and 2 membranes) 25 No. 4. Other accessories required for optimum functioning of the equipment.

Bidding/ Procurement Terms/ Donation Requirements		
6 Environmental and departmental considerations		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust ...)	<ol style="list-style-type: none"> 1. Operating condition: Capable of operating continuously in ambient temperature of 10 to 40°C and relative humidity of 15 to 90% in ideal circumstances. 2. Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50°C and relative humidity of 15 to 90%.
6.2	User's care, Cleaning, Disinfection and Sterility issues	<ol style="list-style-type: none"> 1. Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.
7 Standards and safety		
7.1	Certificates (pre-market, sanitary,); Performance and safety standards (specific to the device type); Local and/or international .	<ol style="list-style-type: none"> 1. Should be CE (EU)/FDA (US) approved product. 2. Manufacturer/supplier should have ISO 13485 certificate for quality standard. 3. Electrical safety conforms to standards for electrical safety IEC-60601-1; IEC 60601-1-11; IEC 60601-3-2; IEC 60601-3-3; IEC 60601-4-2; IEC 60601-4-4; IEC 60601-4-5; IEC 60601-4-8; IEC 60601-4-11.
8 Training and Installation		
8.1	Pre-installation requirements: nature, values, quality, tolerance	Supplier to perform installation, safety and operation checks before handover.
8.2	Requirements for sign-off	Certificate of calibration and inspection from the factory.
8.3	Training of staff (medical, paramedical, technicians)	Training of users in operation and basic maintenance shall be provided.
9 Warranty and Maintenance		
9.1	Warranty	3 years
9.2	Maintenance tasks	Maintenance manual detailing complete maintaining schedule
9.3	Service contract clauses, including prices	<ol style="list-style-type: none"> 1. Warranty of three years with free servicing (min. 3) during warranty. 2. AMC rates should not be greater than 3% of original cost.
10 Documentation		
10.1	Operating manuals, service manuals, other manuals	<ol style="list-style-type: none"> 1. User and maintenance manuals to be supplied in English. 2. Certificate of calibration and inspection to be provided. 3. List to be provided of equipment and procedures required for local calibration and routine maintenance. 4. List to be provided of important spares and accessories, with their

		part numbers and cost. 5. Contact details of manufacturer, supplier and local service agent to be provided.
10.2	Recommendations for maintenance	User/Technical/Maintenance manuals to be supplied in English.
11 Notes		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	Contact details of manufacturer, supplier and local service agent to be provided.
11.2	Recommendations or warnings	Any warning signs would be adequately displayed
2- Milk Containers		
General		
1. Use		
1.1	Clinical purpose	Milk container is required for collection and storing the milk.
1.2	Used by clinical department/ ward	NICU and PICU
2. Technical characteristics		
2.1	Technical characteristics (specific to this type of device)	1. Milk containers of 3 sizes—50 ml, 100 ml, 200 ml; 50 of each size. 2. Milk containers are of two types: a. Polypropylene BPA free b. Glass Containers
2.2	User's interface	Manual
2.3	Software and/or standard of communication (wherever required)	NA
3. Physical Characteristics		
3.1	Dimensions (metric)	Portable
3.2	Weight (lbs, kg)	Compact unit
3.3	Configuration	NA
3.4	Noise (in dB)	NA
3.5	Heat dissipation	NA
3.6	Mobility, portability	Yes
4. Energy source (electricity, UPS, solar, gas, water, CO₂...)		
4.1	Power Requirements	NA
4.2	Battery Operated	NA
4.3	Tolerance (to variations, shutdowns)	NA
4.4	Protection	
4.5	Power consumption	
5. Accessories, Spare parts, Consumables		
5.1	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system)	NA
6. Environmental and Departmental Considerations		
6.1	Atmosphere/ Ambiance (air conditioning, humidity, dust...)	NA
6.2	User's care, Cleaning, Disinfection and Sterility issues	Disinfection: MILK CONTAINER should be easy to clean and autoclave
7. Standards and Safety		
	Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to	1. The material of construction should be of food grade.

	the device type); Local and/or international	
8. Training and Installation		
8.1	Pre-installation requirements: nature, values, quality, tolerance	NA
8.2	Requirements for sign-off	NA
8.3	Training of staff (medical, paramedical, technicians)	Training of users in operation and basic maintenance shall be provided.
9. Warranty and Maintenance		
9.1	Warranty	1 year
9.2	Maintenance tasks	NA
9.3	Service contract clauses, including prices	NA
10. Documentation		
10.1	Operating manuals, service manuals, other manuals	1. User manuals to be supplied in English/Hindi. 2. Certificate of calibration and inspection to be provided.
10.2	Recommendations for maintenance	1. All the rigid containers may be re-used but have to be washed preferably in a bottle washer or and sterilized appropriately. 2. Glass containers should be checked for chipping after every cleaning cycle.
11. Notes		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	NA
11.2	Recommendations or warnings	NA
3. Pasteurizer		
General		
1. Use		
1.1	Purpose	The purpose of the pasteuriser is to destroy pathogenic bacteria from milk and makes it safe for storage and consumption.
1.2	Used by	The machine is to be used in human milk banks.
2. Technical Characteristics		
2.1	Technical characteristics (specific to this type of device)	1. Inner and outer jacket made of stainless steel 304 grade 2. Easy to operate & handle. 3. Standard motor and gear box. 4. Outlet valve S.S.304 with TC clamp. 5. High speed stirrer for mixing. 6. Capacity for heating a minimum of 16 samples of milk with each sample jar not less than 330 cc volume. 7. Tank insulated glass wood. 8. Temperature gauge for showing temperature. 9. Rotation Controller regulator having varying speed from 10 to 100 rotations per minute. 10. Having jack-up facility for emptying and discharge without lifting the unit.
2.2	User's interface	Semi-automatic



2.3	Product Safety Features	<ol style="list-style-type: none"> 1. Pasteurizer should be equipped with system that can heat the milk up to 63°C with sensitivity of $\pm 0.5^\circ\text{C}$ with minimum fluctuation of temperature. 2. Equipment should have a holding arrangement for containers of milk immersed in water till the maximum level of milk in heating and/or cooling medium sufficient to give uniform heating and/or cooling to the milk. In no case, the bottles or containers to completely get immersed in water. The holder should have shaking arrangement sufficient to maintain the uniform temperature of milk and not to splash the milk inside the container. 3. The heating cycle should be designed in such a way that the milk receives desired temperature of 62.5°C and held for 30 minutes. 4. After completion of heating and holding, the temperature of milk is uniformly brought down to 25°C within 10minutes and further reduced to 4°C. 5. The heating medium should not have temp higher than 64°C ± 1 in order to avoid over heating of milk and minimize nutrient loss. 6. The pasteurizer should be equipped with data logging and storage, data analysis and generation of final report in various formats for effective analysis and corrective actions. 7. The water holding tank of pasteurizer should be self-drain type. 8. In case of fully automatic machine, there should be an audible alarm after completion of heating cycle and different alarm at end of cooling cycle. Later alarm should continue frequently till it is attended by an operator. 9. In case of semi-automatic equipment, it should have the following alarm systems: <ol style="list-style-type: none"> a After achieving set temperature. b Three minutes before completion of holding time for warning. c At the completion of holding time. d Achieving cooling set temperature (4°C) from 62.5°C in maximum 30 minutes. e Data logging system to record and retrieve all the data for analysis, evaluation and corrective action in appropriate formats to detect deviation. f Automatic water level maintenance in heating and cooling shaker bath. 10. In case of power failure a battery backup may be provided for continuous digital display of temperature of the pasteurizer.
2.4	Software and/or standard of communication (wherever required)	NA
3. Physical Characteristics		
3.1	Dimensions (metric)	
3.2	Weight (lbs, kg)	
3.3	Configuration	

3.4	Noise (in dB)	Audible beeper of minimum 65 dB
3.5	Heat dissipation	Inbuilt temperature control module
3.6	Mobility, portability	
4. Energy source (electricity, UPS, solar, gas, water, CO ₂ ...)		
4.1	Power Requirements	Power supply: 220 volts
4.2	Battery Operated	No
4.3	Tolerance (to variations, shutdowns)	Tolerance for 10% voltage fluctuations
4.4	Protection	Earthing for installation site, fuse for the machine
4.5	Power consumption	A maximum of 2.5 KW/ Hr.
5. Accessories, Spare parts, Consumables		
5.1	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system)	List of all accessories, spare parts and consumables with rates and commitment of availability till the end life of the machine to be shared by the supplier.
6. Environmental and Departmental Considerations		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust ...)	1. Operating condition: Capable of operating continuously in ambient temperature of 10 to 50°C and relative humidity of 15 to 90% in ideal circumstances. 2. Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50°C and relative humidity of 15 to 90%.
6.2	User's care, Cleaning, Disinfection and Sterility issues	To be detailed by the manufacturer.
7. standards and Safety		
7.1	Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/ or international	1. Should be FDA/CE/BIS approved product. 2. Manufacturer and Supplier should have ISO 13485 certification for quality standards. 3. Electrical safety conforms to the standards for electrical safety IEC 60601-General requirements.
8. Training and Installation		
8.1	Pre-installation requirements: nature, values, quality, tolerance	1. Availability of 15-amp socket. 2. Safety and operation check before handover.
8.2	Requirements for sign-off	Certificate of calibration and inspection from the manufacturer.
8.3	Training of staff (medical, paramedical, technicians)	1. Training of users on operation and basic maintenance at least for two weeks. 2. Advanced maintenance tasks required shall be documented.
9. Warranty and Maintenance		
9.1	Warranty	3 years
9.2	Maintenance tasks	To be included in State Equipment Maintenance Program.
9.3	Service contract clauses, including prices	The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee/warranty period should be attached.
10. Documentation		
10.1	Operating manuals, service manuals, other manuals	Should provide 2 sets (hard copy and soft copy) of: 1. User, technical and maintenance manuals to be supplied in English/ Hindi language along with machine diagrams. 2. List of equipment and procedures required for local calibration and routine maintenance. 3. Service and operation manuals (original and

		copy) to be provided. 4. Advanced maintenance tasks documentation. 5. Certificate of calibration and inspection. 6. Satisfactory certificate for any existing installation from government hospital.
10.2	Recommendations for maintenance	List of important spares and accessories, with their part numbers and cost.
11. Notes		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	1. Contact details of manufacturer, supplier and local service agent to be provided. 2. Any Contract (AMC/CMC/ad-hoc) to be declared by the manufacturer.
11.2	Recommendations or warnings	Any warning signs would be adequately displayed.
4. Laminar Air Flow		
General		
Use		
1.1	Purpose	Laminar air flows are used to maintain a working area devoid of contaminants. Laminar Flow Cabinets create particle-free working environment by projecting air through a filtration system and exhausting it across a work surface in a laminar or uni-directional air stream. They provide an excellent clean air environment for a number of laboratory requirements.
1.2	Used by	Microbiology Technician
2. Technical Characteristics		
2.1	Technical characteristics (specific to this type of device)	<ul style="list-style-type: none"> • Working area: 4 x 2 x 2 feet. • Hepa Filter efficiency 99.99% for .3u particle or better. • Cleanliness: Class 100 • Particle retention: 0.3 micron. • Illumination > 700 LUX. • Noise level < 66 dB • Power supply: 220/240 V Single phase, 50 Hz AC. • Vertical Airflow. • Stainless Steel (Type 304) Construction. • Two glass outlet in working Area; one on each side wall. Pre mounted UV Lamp (30w) with separate switch
2.2	User's interface	Semi-automatic
2.3	Product Safety Features	NA
2.4	Software and/or standard of communication (wherever required)	NA
3. Physical Characteristics		
3.1	Dimensions (metric)	NA
3.2	Weight (lbs, kg)	NA
3.3	Configuration	NA
3.4	Noise (in dB)	NA
3.5	Heat dissipation	NA
3.6	Mobility, portability	Fixed
4. Energy Source (electricity, UPS, solar, gas, water, CO ₂ ...)		

4.1	Power Requirements	Power Supply: 220/240 V Single Phase, 50-60Hz AC.
4.2	Battery operated	No
4.3	Tolerance (to variations, shutdowns)	Tolerance for 10% voltage fluctuations.
4.4	Protection	Earthing for installation site, fuse for the machine.
4.5	Power consumption	NA
5. Accessories, Spare parts, Consumables		
5.1	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system)	1. A spare UV Lamp (30w) - 2 Nos. 2. Hepa Filter for Chamber- 1 nos. 3. Gas Burner (Bunsen burner) - 2 nos.
6. Environmental and Departmental Considerations		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust ...)	Operating condition: Capable of operating continuously in ambient temperature of 10 to 50°C and relative humidity of 15 to 90% in ideal circumstances.
6.2	User's care, Cleaning, Disinfection and Sterility Issues	To be detailed by the manufacturer.
7. Standards and Safety		
7.1	Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international.	1. Should be FDA/CE/BIS approved product. 2. Manufacturer and supplier should have ISO 13485 certification for quality standards. Electrical safety conforms to the standards for electrical safety IEC 60601-General requirements.
8. Training and Installation		
8.1	Pre-installation requirements: nature, values, quality, tolerance	1. Availability of 15-amp socket; (TYPE D). Safety and operation check before handover.
8.2	Requirements for sign-off	Certificate of calibration and inspection from the manufacturer.
8.3	Training of staff (medical, paramedical, technicians)	1. Training of users on operation and basic maintenance at least for two weeks. Advanced maintenance tasks required shall be documented.
9. Warranty and Maintenance		
9.1	Warranty	3 years
9.2	Maintenance tasks	To be included in State Equipment Maintenance Program.
9.3	Service contract clauses, including prices	The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee/warranty period should be attached.
10. Documentation		
10.1	Operating manuals, service manuals, other manuals	Should provide 2 sets (hardcopy and soft-copy) of: 1. User, technical and maintenance manuals to be supplied in English/ Hindi language along with machine diagrams. 2. List of equipment and procedures required for local calibration and routine maintenance. 3. Service and operation manuals (original and copy) to be provided. 4. Advanced maintenance tasks documentation.

		5. Certificate of calibration and inspection. Satisfactory certificate for any existing installation from government hospital.
10.2	Recommendations for maintenance	List of important spares and accessories, with their part numbers and cost.
11. Notes		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	1. Contact details of manufacturer, supplier and local service agent to be provided. Any Contract (AMC/CMC/ad-hoc) to be declared by the manufacturer.
11.2	Recommendations or warnings	2. NA
5. Refrigerator		
General		
1. Use		
1.1	Purpose	A device which is artificially kept cool and used to store food and drink.
1.2	Used by	All Department
2. Technical Characteristics		
2.1	Technical characteristics (specific to this type of device)	1. Should be frost free Refrigerator. 2. Should have a capacity of 300L. 3. Should have EEC 4-star rating or above. Should have inbuilt protection for voltage fluctuation or to be supplied with external stabilizer of dequate KVA capacity.
2.2	User's interface	Automatic/Semi-Automatic
2.3	Product Safety Features	Continuous recording for full traceability
2.4	Software and/or standard of communication (wherever required)	NA
3. Physical Characteristics		
3.1	Dimensions (metric)	Dimension of internal self and weight carrying capacity will be defined locally Shelving should be compatible with the size of bottle.
3.2	Weight (lbs, kg)	NA
3.3	Configuration	Refrigerator only without freezer component
3.4	Noise (in dB)	NA
3.5	Heat dissipation	Inbuilt temperature control module
3.6	Mobility, portability	
4. Energy Source (electricity, UPS, solar, gas, water, CO ₂ ...)		
4.1	Power Requirements	Power Supply: 220-240Vac, 50-60HZ Power Supply
4.2	Battery operated	NA
4.3	Tolerance (to variations, shutdown)	Tolerance for 10% voltage fluctuations.
4.4	Protection	Earthing for installation site, fuse for the machine.
4.5	Power consumption	NA
5. Accessories, Spare parts, Consumable		
5.1	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system)	List of all accessories, spare parts and consumables with rates and commitment of availability till the end life of the machine to be shared by the supplier.
6. Environmental and Departmental Considerations		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust ...)	1. Operating condition: Capable of operating continuously in ambient temperature of 0 to 50°C

		and relative humidity of 15 to 90% in ideal circumstances. Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50°C and relative humidity of 15 to 90%.
6.2	User's care, Cleaning, Disinfection and Sterility Issues	To be detailed by the manufacturer
7. Standards and Safety		
7.1	Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international	1. All the electrical and measuring devices of CE standard. 2. All electrical cables & connections will be fire and chemical resistant.
8. Training and Installation		
8.1	Pre-installation requirements: nature, values, quality, tolerance	1. Availability of 15-amp socket; (TYPE D). 2. Safety and operation check before handover.
8.2	Requirements for sign-off	Certificate of calibration and inspection from the manufacturer.
8.3	Training of staff (medical, paramedical, technicians)	NA
9. Warranty and Maintenance		
9.1	Warranty	3 years but 5 years on compressor
9.2	Maintenance tasks	To be included in State Equipment Maintenance Program
9.3	Services contract clauses, including prices	The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee/warranty period should be attached.
10. Documentation		
10.1	Operating manuals, service manuals, other manuals	Should provide 2 sets (hardcopy and soft-copy) of: 1. User, technical and maintenance manuals to be supplied in English/ Hindi language along with machine diagrams. 2. List of equipment and procedures required for local calibration and routine maintenance. 3. Service and operation manuals (original and copy) to be provided. 4. Advanced maintenance tasks documentation. 5. Satisfactory certificate for any existing installation from government hospital.
10.2	Recommendations for Maintenance	List of important spares and accessories, with their part numbers and cost.
11. Notes		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	1. Contact details of manufacturer, supplier and local service agent to be provided. 2. Any Contract (AMC/CMC/ad-hoc) to be declared by the manufacturer.
11.2	Recommendations or Warnings	3. Any warning signs would be adequately displayed.
6. Deep Freezer		
General		
1. Use		



1.1	Purpose	A vertical deep freezer to store the milk
1.2	Used by	The machine is to be used in human milk banks.
2. Technical Characteristics		
2.1	Technical characteristics (specific to this type of device)	<ul style="list-style-type: none"> • 250L hard top double door (preferred) with hinges, lockable preferred. • Manage temperature between -20°C to -22°C • Capacity to cool 15 litres water in assorted sizes (50 to 200 ml plastic/glass bottles) at 10°C to -20°C in 24 hours • PUF insulated steel sheet sandwich construction • Provision to fix 5 baskets to store bottles. • Freezer should be lockable. • Audio Visual high and Low temperature alarms. • Stainless Steel Interior. • Castors free easy mobility. • Compatible Voltage Stabilizer (2 kVA) of standard Brands/ISI Mark. • Temp. Thermostat regulator. • Temp. Indicator Lamp. • Digital temperature control and LED door display and systems monitoring and reporting technology. • Epoxy covered SS metallic e external case. • Strong, moulded, chemically resistant abs interior. • The height between two sliding racks should be approximately 15 cm with proper provision to hold milk bottles of 50-200 ml
2.2	User's interface	Automatic/Semi-Automatic
2.3	Product Safety Features	<ol style="list-style-type: none"> 1. Automatic control of temperature. 2. Automatic flow diversion. Continuous recording for full traceability.
2.4	Software and/or standard of communication (wherever required)	NA
3. Physical Characteristics		
3.1	Dimensions (metric)	NA
3.2	Weight (lbs, kg)	NA
3.3	Configuration	NA
3.4	Noise (in dB)	NA
3.5	Heat dissipation	Inbuilt temperature control module
3.6	Mobility, portability	
4. Energy Source (electricity, UPS, solar, gas, water, CO ₂ ...)		
4.1	Power requirement	Power Supply: 220-240Vac, 50-60HZ Power Supply
4.2	Battery operated	No
4.3	Tolerance (to variations, shutdowns)	Tolerance for 10% voltage fluctuations.

4.4	Protection	Earthing for installation site, fuse for the machine.
4.5	Power consumption	NA
5. Accessories, Spare parts, Consumables		
5.1	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables/ reagents (open, closed system)	NA
6. Environmental and Departmental Consideration		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust ...)	Operating condition: Capable of operating continuously in ambient temperature of 0 to 50°C and relative humidity of 15 to 90% in ideal circumstances.
6.2	User's care, Cleaning, Disinfection and Sterility issues	To be detailed by the manufacturer. To be installed 1 ft. away from the wall.
7. Standards and Safety		
7.1	Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/ or international	1. All the electrical and measuring devices of CE standard. 2. All electrical cables and connections will be fire and chemical resistant.
8. Training and Installation		
8.1	Pre-installation requirements: nature, values, quality, tolerance	1. Availability of 15-amp socket; (TYPE D). Safety and operation check before handover.
8.2	Requirements for sign-off	Certificate of calibration and inspection from the manufacturer
8.3	Training of staff (medical, paramedical, technicians)	NA
9. Warranty and Maintenance		
9.1	Warranty	3 years or 5 years on compressor
9.2	Maintenance tasks	To be included in State Equipment Maintenance Program.
9.3	Service contract clauses, including prices	The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee/warranty period should be attached.
10. Documentation		
10.1	Operating manuals, service manuals, other manuals	Should provide 2 sets (hardcopy and soft-copy) of:- 1. User, technical and maintenance manuals to be supplied in English/ Hindi language along with machine diagrams. 2. List of equipment and procedures required for local calibration and routine maintenance. 3. Service and operation manuals (original and copy) to be provided. 4. Advanced maintenance tasks documentation. 5. Satisfactory certificate for any existing installation from government hospital.
10.2	Recommendations for maintenance	List of important spares and accessories, with their part numbers and cost
11. Notes		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	1. Contact details of manufacturer, supplier and local service agent to be provided. 2. Any Contract (AMC/CMC/ad-hoc) to be declared by the manufacturer.

