**GOVERNMENT OF ANDHRA PRADESH**

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**Web Site : https://tender.apeprocurement.gov.in**

# TENDER DOCUMENT

**FOR**

**Establishment of Comprehensive Lactation Management Centers and LMCs to Teaching Hospitals & District Hospitals in Andhra Pradesh with a period of 2 years rate Contract (Reverse Tender) (e- Procurement)**

**Tender Notice No.** : **7.2C/APMSIDC/2023-24, Dt: 03.11.2023.**

**Name of the Agency and Address** : ……

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*Implementing Agency :*

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION**

**(Formerly APHMHIDC)**

(AN ENTERPRISE OF GOVT. OF A.P.)

**2nd Floor, Plot No:09, survey number: 49, IT Park, Mangalagiri, Guntur District- 522503. e-mail: aphmhidc@gmail.com, ed.apmsidc16@gmail.com**

**Ph No: 8978644900**

## INDEX

## INTRODUCTION

1.1. The Andhra Pradesh Medical Services & Infrastructure Development Corporation – APMSIDC (formerly APHMHIDC) (Tender Inviting Authority) is a fully owned Government of Andhra Pradesh for providing services to the various health care institutions under the Department of Family Welfare and Health. One of the key objectives of the APMSIDC is to act as the central procurement agency for all essential drugs and equipments for all health care institutions (hereinafter referred to as user institutions) under the department. The corporation has also been entrusted with the setting up and running of all kinds of modern Medical and Paramedical or medical based ancillary facilities such as hospitals, pathological labs, diagnostic centres, x-ray/scanning facilities.

1.2. Over the last decades, several equipments have been procured and installed in the various health care institutions under the government under different schemes. One of the major problems encountered is the maintenance of the equipments. Site preparation, timely replacement of consumables, calibration of sensitive equipments, up gradation of technology, training to the doctors and paramedical staff- all poses problems. The corporation has been formed by the government to fill in these grey areas and to act as total service providers to the all the government health care institutions. Of course, this mammoth task could be achieved only with the active involvement and support of the manufacturers/dealers of the equipments.

1.3. In this tender, the lowest price is the sole criteria for selecting the equipment/supplier. The two-bid system, which is followed, has been designed to eliminate those equipments which do not match the technical specifications, or not having the proven technology and to eliminate firms that do not have the financial or technical capability to supply, install and maintain the equipments. i.e., to provide after sales support for a period of minimum 5 years from the date of installation and to ensure 98 % uptime in performance/operation of the equipment.

1.4. The payment to the successful tenders will be settled after obtaining a 'three month performance certificate' from the head of the user institution - three month period is a period of trail run- during which the performance of the equipments will be keenly observed. At the same time, it may be noted that the Corporation is not the agency finalizing the requirements of equipments and their technical specifications. These parameters are finalized by the user institutions and funding agencies and forwarded to the corporation for procurement. On our side, we ensure that the technical

specifications are not biased towards a particular equipment/firm, through consultations during the pre-tender meetings with the prospective tenderers. Amendments in the terms and conditions of the tender documents may be resorted to on the basis of expert advice to see that more than one firm qualifies for the final round. Technology specific specifications/conditions and entertaining direct purchase will be undertaken, if and only if, the user agency certifies the equipment required is of proprietary nature. Since the equipments procured are dealing with precious human life in government hospitals, depended by the poor and downtrodden of the society, it is our endeavor to ensure that most modern, but proven and durable equipments are procured and supplied. The tender documents are prepared after assessing the market to meet such objectives.

1.5. Every paisa spend by the corporation is public money and hence accountable. Therefore, after sales service and up-time guarantee on the performance of the equipment purchased by the Corporation have to be given paramount importance. Corporation will be dealing with defaulters in these fronts with a firm hand, which may lead to black listing and recovery of damages. We request our valuable suppliers to avoid such unpleasant situations.

1.6. It is also essential while dealing with public money that utmost transparency has to be maintained in the procurements of the corporation. All decisions will be published from time to time on our website www.msidc.ap.nic.in. The corporation will not wait for the mandatory 30 days period to provide any information under Right to Information Act and will provide the information within the minimum possible time. The Corporation will uphold the fundamental "right to be heard' enshrined under the Constitution of India and will take harsh decisions only after providing opportunity for hearing/submission of facts. Tenderers could prefer appeal to the government against all decisions of the corporation.

## SECTION - I: INVITATION FOR BIDS (IFB)

## GOVERNMENT OF ANDHRA PRADESH

## ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION (APMSIDC)

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**Tender Notice No. 7.2C/APMSIDC/2023-24, Dt: 03.11.2023.**

1. Bids are invited on the e-procurement platform for certain medical equipment as described in the Section V- Schedule of Requirements from the eligible manufacturers/Authorized Distributors. The details of bidding conditions and other terms can be downloaded from the electronic procurement platform of Government of Andhra Pradesh i.e. https://tender.apeprocurement.gov.in.

2. Bidders would be required to register on the e-Procurement market place "www.eprocurement.gov.in" and submit their bids online. On registration with the e-Procurement market place they will be provided with a user id and password by the system through which they can submit their bids online.

3. The bidders need to scan and upload the required documents as per the Check list given in **Annexure XIV**. Such uploaded documents pertaining to technical bid need to be attached to the tender while submitting the bids on line. The attested copies of all these uploaded documents of technical bid, signed undertaking of tenderer should be submitted off line to Managing Director, APMSIDC, Mangalagiri, Guntur on or before the next day of the last date of submission of bids. The Corporation will consider only the bids submitted through on-line over the copies of the paper based bids.

4. a) The participating bidder/s will have to pay tender processing fee (non-refundable) for the amounts specified in the Schedule of Requirements (Section –V), in the form of online only.

   b) Further the bidder/s shall furnish, as part of it bid, the Bid security for the amounts specified in the Schedule of Requirements (Section –V) to be paid in the form of crossed Demand Draft drawn in favour of Managing Director, APMSIDC, Guntur along with bids. The bidders should note that the local MSME units are exempted from payment of E.M.D, subject to the production of necessary documentation to that extent by them.

   c) Further all the participating bidders have to electronically pay a non-refundable transaction fee to M/s. APTS, the service provider through "Payment Gateway Service on E-Procurement platform", as per the Government Orders placed on the e-procurement website.

   d) APMSIDC will not accept the tenders from blacklisted companies or undependable Suppliers whose past performance with APMSIDC was found

poor due to delayed and/or erratic supplies and those with frequent product failures, and also against whom there have been adverse reports of **Sub-Standard Quality / Poor Service of** Equipment supplies, as defined in the other parts of the Bidding document.

**e) "Complaint/s: Any complaints/representation regarding tender will be entertained only after depositing of Rs. 25,000/- in form of Demand Draft in the name of Managing director, APMSIDC, Mangalagiri, Guntur. Subsequently necessary action will be taken by the Managing Director and decision of Managing Director will be binding upon the complainant. If the complaint turns out to the false or invalid the amount will be forfeited. The amount shall be refunded if after scrutiny the complaint is found to be true. No further complaint/representation from the same complainant for the same tender will be entertained. If the complaint or allegation made is found to be false or baseless and without any valid point, the tender inviting authority in its discretion, can prevent / blacklist / declare ineligible, such bidder from participating in its procurement process, either indefinitely or for a stated period of time."**

5. **Period of Delivery: 90** Days from the date of receipt of the Notification of Award (Purchase Order) of Contract. The delivery terms include the total time given for supply, installation, testing and training of staff.

*Time Limits prescribed*

| Sl. No | Activity | Time Limit |
|---|---|---|
| 5.1.1. | Installation & Delivery period | 90 Days from the date of receipt of the Notification of Award (Purchase Order) of Contract |
| 5.1.2. | Comprehensive warranty period | as specified at section V schedule of requirements against each equipment. |
| 5.1.3. | Frequency of visits to all User Institution concerned during Warranty | One visits every three months (4 visits in a year) for periodic/preventive maintenance and any time for attending repairs/break down calls. |
| 5.1.4 | Submission of Performance Security and entering into contract | 15 days from the date of issuance of Supply Order |
| 5.1.5 | Payment Installments of Price of equipments and ratio | Three Installments and in the ratio 60:30:10 |
| *5.1.6* | Time for making payments by Tender Inviting Authority | Within 60 days from the date of submission of proper documents |
| *5.1.7.* | Maximum time to attend any | *Within 48 hours* |

| | | |
|---|---|---|
| | Repair call | |
| *5.1.8* | Uptime in a year | *95%* |

**6. Bidders eligibility and qualifications: Defined at Clause 13 of Instructions to Bidders (Section II) and Qualification Criteria (Section-VI)**

**7. Details of Tender Process:**

| | | |
|---|---|---|
| 1. | Downloading of documents | from 17.11.2023 to 01.12.2023 up to 02.59 PM |
| 2. | Pre bid meeting | 21.11.2023@ 11.00 AM O/o APMSIDC, 2nd Floor, IT Park, Mangalagiri, Guntur 522503 |
| 3. | Due date for Receipt of tenders | 01.12.2023 up to 03.00 P.M |
| 4. | Time and date of opening of technical Bids | 01.12.2023 @ 03.01 PM |
| 5. | Time and date of opening of financial bids | Will intimate later |

**Note:** The dates stipulated above are firm and under no circumstances they will be relaxed unless otherwise extended by an official notification or happen to be Public Holidays. For the assistance in the online submission issues, the bidder may contact the help desk of M/s Vupadhi Techno Services Pvt. Ltd. (e-procurement) at their e-mail address: eprocsupport@vupadhi.com or on the mobile nos. **8645-246370 / 71 / 72 / 73 / 74**

**8. Procedure for Bid Submission**

a. The Tenderers/Bidders who are desirous of participating in e-procurement shall submit their Technical bids, price bids etc., in the Standard formats prescribed in the Tender documents, displayed at e-procurement market place.

b. The bidders shall sign on all the statements, documents, certificates, uploaded by them, owning responsibility for their correctness / authenticity.

c. The hard copies of all the uploaded Technical / Price bid, to be attested by a Gazetted Officer or properly notarized.

d. The Corporation shall not hold any risk on account of postal delay. Similarly, if any of the certificates, documents, etc., furnished by the tenderer are found to be false / fabricated / bogus, the bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the EMD will be forfeited.

e. The Corporation will not hold any risk and responsibility for the loss in transit during uploading of the scanned document, for the invisibility of the scanned document online, and any other problem(s) encountered by the Tenderers while submitting his bids online.

**9. Important Instructions to the Bidders:**

9.1 Quality of Supplied Equipment throughout its life cycle period, timely supplies and prompt maintenance support during the warranty and CMC period without default are being given paramount importance by the Corporation. The Corporation will be dealing with the defaulters with firm hand, which may lead to blacklisting for a specified period in addition to levying penalties.

9.2 In case of complaints on the quality and poor maintenance support of the products supplied, bills will be withheld till receipt of Satisfactory reports. Further:

- If one item of any Supplier is found of 'Sub-Standard Quality' during the Contract period, then that particular item will be blacklisted for a period of (3) three years immediately succeeding the Contract year
- If two items of any Supplier are found of 'Sub-standard Quality' during the Contract period, then Supplier will be blacklisted for a period of (3) three years immediately succeeding the Contract year

9.3 The Corporation will blacklist the Supplier, who is declared as 'Undependable for two (2) items or in two (2) instances during the Contract period, for a period of one year immediately succeeding the Contract year apart from taking other penal actions under the Contract.

9.4 The decision of the Managing Director, APMSIDC, or any officer authorized by him in respect of the quality of the supplied Equipment and other goods etc., shall be final and binding.

9.5 No claims shall be allowed against the APMSIDC in respect of interest on Earnest Money Deposit or on Security Deposit or late payments.

9.6 Savings Clause: No suit, prosecution or any legal proceedings shall lie against APMSIDC or any person for anything, which is done in good faith or intended to be done in pursuance of bid.

**10. Reverse tendering process on e-procurement portal**

a) APMSIDC will schedule reverse tendering process on the e-Procurement portal. Qualified technical bidders will also be communicated through e-mail the date and time for the conduct of reverse tendering process.

b) Online reverse tendering process

i) The online Reverse tendering process will be run on the total amount.

ii) Only the technically qualified bidders will be permitted to participate in the reverse tendering.

iii) The 'opening price' i.e. start price for Reverse tendering will be the lowest (L1) price quoted by the Bidders amongst all technically qualified bidders.

iv) Bidders can modify the total price, based on the minimum bid decrement or the multiples thereof, to displace a standing lowest bid and become "L1", and this will continue as an iterative process. The total price, will be used to determine the total cost of the bid.

v) For the purpose of Reverse tendering, the minimum bid decrement value on 0.5% of L1 value or as specified by TIA.

vi) Reverse tendering duration: The duration of the reverse tendering is 3 Hours. All bidders are required to submit their online bids during this period.

vii) In case, if any bidder decides to lower the price in the last fifteen (15) minutes of the reverse tendering duration, then the duration of the reverse tender will be extended for additional 15 minutes (Bid Received time + 15 minutes) to enable other bidders to participate further. Such extensions will continue as long as there is no bid received in the last 15 minutes.

viii) After the completion of reverse tendering, the system will calculate the total price of the bid.

## SECTION - II : INSTRUCTIONS TO BIDDERS

## TABLE OF CLAUSES

## A. Introduction

**1. Source of funds:**

The funds are made available by the State Government of Andhra Pradesh, to the Managing Director, APMSIDC Scheme wise towards the procurement processed under this tender notification.

2**. Eligible Bidder**

2.1 This invitation for Bids is open to all Manufacturers or their authorized distributors, who fulfill the eligibility criteria mentioned in the Clause 13 and who meet qualification criteria mentioned in the Section VI.

**3 Eligible Goods and services**

3.1 All goods and ancillary services to be supplied under the contract shall have their origin in eligible source country. The goods shall meet the requirements as specified in the Technical Specifications. And meet the eligibility criteria as given at Clause 14 of ITB.

3.2. For purpose of this clause, "origin" means the place where the goods are mined, grown, or produced or from which the ancillary services are supplied. Goods are produced, through manufacturing processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

3.3 The origin of goods and services is distinct from the nationality of the Bidder.

**4. Cost of bidding.**

4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Managing Director, APMSIDC, Mangalagiri, Guntur here in after referred to as " the purchaser", will in no case be

responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

## B. The Bidding Documents

### 5. Content of Bidding Documents

5.1 In addition to the Invitation for Bids, the bidding documents include:

(a) Instruction to Bidders;
(b) General conditions of contract;
(c) Special conditions of contract;
(d) Schedule of requirements;
(e) Technical specifications;
(f) Bid form and price schedules;
(g) Bid security form;
(h) Performance security form.
(i) Firm Registration/manufacturer license
(j) Performance statement form.
(k) Declaration Form
(l) Check List of the documents uploaded on e-platform as part of the bid

5.2 The bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidders risk and may result in rejection of its bid.

### 6. Clarification of bidding documents

6.1 A prospective Bidder requiring any clarification of the bidding documents may notify the purchaser in writing at the purchasers mailing address indicated in the Invitation for bids. The purchaser will respond in writing to any request for clarification of the Bidding documents if the same is received in the first week of the tender notice prescribed by the purchaser. Written copies of the purchaser's response (including an explanation of the query but without identifying the source or inquiry) will be sent to all prospective bidders which have received the bidding documents.

### 7. Amendment of bidding documents

7.1 At any time prior to the deadline for submission of bids, the purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by prospective bidder, modify the bidding documents by amendment.

7.2 The amendment will be notified online.

7.3 In order to afford prospective Bidders reasonable time in which to take the amendment into account in preparing their bid, the purchaser may, at its discretion, extend the deadline for the submission of bids.

## C. Preparation of Bids

### 8. Language of Bid.

8.1. The Bid prepared by the Bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the bid, the English translation shall govern.

### 9. Documents comprising the bid

9.1 The bid prepared by the bidder shall comprise the following components:

**1. Technical Bid:**

(a) A Bid form completed in accordance with clause 10

(b) Documentary evidence established in accordance with clause 13 that the bidder is eligible to bid and is qualified to perform the contract if its bid is accepted.

(c) Documentary evidence established in accordance with clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services confirm to the Bidding Documents; and

(d) Bid security furnished in accordance with clause 15.

**2. The Price Bid completed in accordance with clauses 11 and 12.**

### 10. Bid Form

10.1 The Bidder shall complete the bid form provided in the Bidding documents, indicating for the goods to be supplied, brief description of the goods, their country of origin and quantity and other declaration statements.

### 11. Bid prices.

11.1 The Bidder shall indicate on the appropriate price schedule, made available in the e-procurement platform and a model format is also attached to these documents, the unit prices and total bid prices of the goods it proposes to supply under the contract, for each item separately. The unit prices shall be rounded off to nearest Indian rupee. The bidder may quote one or more items for which copy of necessary documents, wherever necessary have to be produced along with the bid.

11.2. Prices indicated on the price schedule shall be entered separately in the following manner:

(i) The price of the goods, quoted ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, or delivered, as applicable, including all duties and sales and other taxes including transportation, installation, commissioning at site and all incidental charges associated with the contract.

(ii) Cost of 4 years Comprehensive Maintenance Contract as defined in the Clause 18 of the Special Conditions of the Contract.

11.3 The Bidder's separation of the price components in accordance with para 11.2 above will be solely for the purpose of facilitating the comparison of bids by the purchaser and will not in any way limit the purchaser's right to contract on any of the terms offered.

11.4 Fixed Price. Price quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation except for any changes made by the Statute in respect of local taxes. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected, pursuant to clause 24.

**12. Bid currencies.**

12.1 Prices shall be quoted in Indian Rupees; Bids quoted other than Indian currency will be rejected.

**13. Documents Establishing Bidder's Eligibility and Qualifications.**

13.1 Pursuant to clause 9, the bidder shall furnish, as part of its bid, documents establishing the bidder’s eligibility to bid and its qualifications to perform the contract if its bid is accepted

13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the purchaser’s satisfaction that the bidder, at the time of submission of the bid, is an eligible bidder as defined under clause 2.

13.3 The documentary evidence of the Bidders qualifications to perform the contract if its bid is accepted, shall establish to the purchaser satisfaction;

(a) That, in the case of bidder offering to supply goods under the contract which the bidder is manufacture produce, Firm Registration/manufacturer license that the bidder is manufacturer & also Memorandum of Articles. or otherwise produce, the bidder has been duly authorized (as per authorization form in section XII a).

(b) that, in the case of bidder offering to supply goods under the contract which the bidder did not manufacture or otherwise produce, the bidder has been duly authorized (as per authorization form in section XII b) by the goods manufacturer or producer to supply the goods in India.

(i) the legal status, place of registration and principle place of business of the company or firm or partnership etc.

(ii) Details of experience and past performance of the bidder on specified item offered in the bid within the past three years and details of current contracts in hand and other commitments (suggested proforma given in section XI);

(iii) Copy of the GST Certificate and Details of IT Returns- PAN & TIN copies

(iv) The details in compliance to the Qualification Criteria (Section VI).

13.4 The check list for the details of documents to be submitted is given at Annexure XIV

**14. Documents Establishing Goods Eligibility and conformity to bidding documents.**

14.1 Pursuant to clause 9 the bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding document of all goods and services which the bidder proposes to supply under the contract.

14.2 The documentary evidence of the goods and services eligibility shall consist and of statement in the price schedule on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.

14.3 The documentary evidence of the goods and services conformity to the bidding documents may be in the form of literature, drawings and data, and shall furnish:

(a) A detailed description of the goods essential technical and performance characteristics of the goods.

(b) A clause-by-clause commentary on the purchaser technical specifications demonstrating the goods and services substantial responsiveness to those specifications or statement of deviations and exceptions of the technical specifications.

14.4 For purpose of the commentary to be furnished pursuant to clause 14.3 above, the bidder shall note that standards for workmanship, material and goods, and references to brand names or catalogue numbers designated by the purchaser in its technical specifications are intended to be descriptive only and not restrictive. The bidder may substitute alternative standards, brand name and / or catalogue numbers in its bid, provided that it demonstrates to the purchaser's satisfaction that the substitutes are substantially equivalent or superior to those designated in the technical specifications.

**15. Bid security**

15.1 Pursuant to Clause 9, the Bidder shall furnish, as part of it bid, the Bid security for the amounts specified in the Invitation for Bids (Section -1)

15.2 The bid security is required to protect the purchaser against risk of bidders conduct which would warrant the security forfeiture, pursuant to clause 15.7

15.3 The bid security shall be in Indian Rupees and shall be in online only.

15.4 Any bid not secured in accordance with para 15.1 and 15.3 above will be rejected by the purchaser as non-responsive pursuant to clause 24.

15.5 Unsuccessful Bidder's bid security will be discharged/ returned as promptly as possible but not later than 30 days after the expiration of the period of bid validity prescribed by the purchaser pursuant to clause 16.

15.6 The successful Bidder's bid security will be discharged upon the Bidders executing the contract, pursuant to clause 34 and furnishing the performance security pursuant to clause 35.

15.7 The bid security may be forfeited;

(a) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid form; or

(b) In case of successful Bidder, if the Bidder fails;

(i) to sign the contract in accordance with clause 34; or

(ii) to furnish performance security in accordance with clause 35.

(c) If the Bidder does not accept the corrected amount the Bid will be rejected, and the Bid security may be forfeited.

**16. Period of validity of Bids.**

16.1 Bids shall remain valid for 90 days after the date of bid opening prescribed by the purchaser pursuant to Clause 19.1. A bid valid for shorter period may be rejected by the purchaser as non-responsive.

16.2 In exceptional circumstances, the Purchaser may solicit the Bidders consent to an extension of the period of validity the request and the responses thereto shall be made in writing (or by mail). The bid security provided under clause 15 shall also be suitably extended. A bidder may refuse the request without forfeiting its bid security.

**17. Format and signing of Bid.**

17.1 The bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the bidder to the contract. The latter authorization shall be indicated by written power-of-attorney accompanying the bid. All pages of the bid, except for unammended printed literature, shall be initialed by the person or persons signing the bid.

17.2 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors and made by the bidder in which case such corrections shall be initialed by the person or persons signing the bid.

## D. Submission of Bids

**18. Sealing and Marking of bids.**

18.1 The bids shall be uploaded (submitted) electronically, as described in the Invitation for Bids (Section –I). The hard copies of the bids in sealed covers must be received by the Purchaser at the address specified above on or before the due date of submission of bids (Section –I).

18.2 The Bids shall be addressed to the purchaser at the following address:

The Managing Director, APMSIDC, 2nd Floor, Plot No:09, survey number: 49, IT Park, Mangalagiri, Guntur District- 522503**.**

18.3 The Bids shall bear the name of the invitation for bids (IFB) and Number and also the words "Do not open before 03.00 P.M Hrs **on 01.12.2023**. The envelopes shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it declared “late".

18.4 If the envelope is not sealed and marked as required by Para 18.2 and 18.3 above, the purchaser will assume no responsibility for the bids misplacement or premature opening.

**19. Deadline, for submission of bids.**

19.1 The Bids (both electronic and Hard copies) must be received by the purchaser, no later than the time and date specified in the Invitation for Bids (Section I). In the event of the specified date for the submission of Bids being declared a holiday for the purchaser, the Bids will be received up to the appointed time on the next working day.

19.2 The purchaser may, at its discretion, extend this deadline for submission of bids by amending the bid documents in accordance with clause 7, in which case all rights and obligations of the purchaser and bidders

previously subject to the deadline will thereafter be subject to the deadline as extended.

**20. Late Bids.**

20.1 Any bid received by the purchaser after the deadline for submission of bids prescribed by the purchaser, pursuant to clause 19, will be rejected and/ or returned unopened to the Bidder.

**21. Modification and Withdrawal of Bids.**

21.1 No bid may be modified subsequent to the deadline for submission of bids.

21.2 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid form. Withdrawal of bid during this interval may result in the Bidders forfeiture of its bid security , pursuant to Clause 15.7

## E. Bid Opening and Evaluation

### 22. Opening of Bids by Purchaser

22.1 The Purchaser/or his authorized representative will download the technical bids on **01.12.2023** at 03.01 PM.

22.2 The Financial Bids of the Technically responsive bidder would be downloaded subsequently from the e-platform, once the technical evaluation is completed.

### 23. Clarification of Bids.

23.1 To assist in the examination, evaluation and comparison of bids the purchaser may at his discretion, ask the Bidder for clarification of his bid. The request for clarification and the response shall be in writing and no change in price or substance of the bid shall be sought, offered or permitted.

### 24. Technical Evaluation (Preliminary Examination and Pre-Qualification)

24.1 The purchaser will examine the bids to determine whether they are complete, whether required securities have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

24.2 Prior to the financial evaluation, pursuant to clause 26, the purchaser will determine the responsiveness of each bid to the bidding documents. For purposes of these clauses, a responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. The purchaser's determination of bids responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

24.3 Further the purchaser will determine to his satisfaction whether the Bidder is qualified to satisfactorily perform the contract. The determination will take into account the Bidder's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder pursuant to clause 13 as well as such other information as the purchaser deems necessary and appropriate.

24.4 An affirmative determination will be prerequisite for the opening of the financial bids. A negative determination will result in rejection of the Bidder's bid.

24.5 A bid determined as not substantially responsive will be rejected by the purchaser.

24.6 The Purchaser may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any bidder.

24.7 Purchaser and/or Authorized representative of purchaser can do inspection of manufacturing site/Assessment of manufacturing capacity.

24.8 In case of any discrepancy in documents submitted by the vendor purchase can ask to produce the original copy of the same

24.9 The Preliminary Evaluations of the bidders are kept available at APMSIDC website http://msidc.ap.nic.in

**25. Deleted.**

**26. Evaluation and comparison of Bids.**

26.1 The Purchaser will evaluate and compare bids previously determined to be substantially responsive, pursuant to clause 24 for each schedule separately.

26.2 The purchasers evaluation of a bid will take into account; in addition to the bid price (ex-factory/ex-warehouse/off-the-shelf price of the goods offered from within India, such price to include all costs as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the goods, on the finished goods and cost of incidental services required. The following costs to the extent specified:

a. cost of inland transportation, insurance and other costs within India incidental to the delivery of goods to their final destination;
b. The comprehensive annual maintenance charges (inclusive of four Preventive Maintenance visits and all distress calls in a year and costs of all spares required during the repairs) for a period mentioned against equipment at section V- (Schedule of requirements) subsequent to free guarantee maintenance period mentioned against equipment at section V- (Schedule of requirements).
c. the availability in India (Preferably in Andhra Pradesh) of spare parts and after-sales services for the equipment offered in the bid. To this extent the bidders shall give:

- An undertaking for the uninterrupted supply of adequate spares for at least a period of 7 years shall be furnished.
- An Undertaking Availability/ establishment of after sales service facility at least in (1) region of Andhra Pradesh to ensure uninterrupted after sales service during warranty period shall be confirmed. The details of service facility available / proposed to be set up shall be furnished with their bid.

27. Deleted

**28. Contacting the purchaser.**

28.1 Subject to clause 23, no Bidder shall contact the purchaser on any matter relating to the bid, from the time of the bid opening to the time, the contract is awarded.

28.2 Any effort by a Bidder to influence the Purchaser in the purchaser's bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidders bid.

## F. Award of Contract

**29. Post - Qualification**

Not Applicable

**30. Award Criteria**

30.1 Subject to clause 32, the purchaser will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

**31. Purchaser's right to vary quantities at Time of Award**

31.1 The purchaser reserves the right, at the time of award of contract to increase or decrease to any extent of the quantity of goods and services specified in the schedule of requirements without any change in price or other terms and conditions.

**32. Purchaser's right to accept any Bid and to reject any or all Bids.**

32.1 The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to award of contract, without there by incurring any liabilities to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

**33. Notification of Award.**

33.1 Prior to the expiry of the period of the bid validity, the purchaser will notify the successful Bidder in writing by registered letter or cable or telex, duly confirming that the bid has been accepted.

33.2 The notification of award will constitute the formation of the contract.

33.3 Upon the successful Bidder's furnishing of performance security, pursuant to clause 34, the purchaser will promptly notify each unsuccessful Bidder and will discharge their bid security, pursuant to clause 15.

**34. Signing of contract**

34.1. Within 15 days of receipt of the notification of award the successful Bidder shall sign the contract.

**35. Performance security**

35.1 Within 15 days of the receipt of notification of award from the purchaser, the successful Bidder shall furnish the performance security in accordance with the conditions of contract, in the performance security form provided in the Bidding documents or another form acceptable to the purchaser and signs the agreement.

35.2 Failure of the successful Bidder to comply with the requirement of clause 34 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the purchaser may make the award to the next lowest evaluated bidder or call for new bids.

**36 Fraud and corruption**

**36.1** It is the **purchaser'**s policy that requires that the bidders, suppliers and contractors and their subcontractor observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the **purchaser;**

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) **"corrupt practice"** is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
(ii) **"fraudulent practice"** is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
(iii) **"collusive practice"** is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
(iv) **"coercive practice"** is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
(v) **"obstructive practice"** is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
(bb) acts intended to materially impede the exercise of the purchaser's inspection and audit rights provided for under sub-clause 36.2 (d) below.

36.2 The purchaser may, without prejudice to other terms of the bidding:

(a) will reject a proposal for award if it determines that the bidder considered for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;

(b) will cancel the contract if the purchaser determines at any time that the bidder, supplier and contractors and their sub contractors engaged in corrupt, fraudulent, collusive, or coercive practices.

(c) will sanction a firm or individual, including declaring ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, a contract; and

(d) will have the right to inspect the accounts and records of the bidders,
supplier, and contractors and their subcontractors and to have them audited by auditors appointed by the Purchaser.

## SECTION - III: GENERAL CONDITIONS OF CONTRACT

## TABLE OF CLAUSES

## Section III: General Conditions Of Contract

### 1. Definitions

1.1 In this contract, the following terms shall be interpreted as indicated;

(a) "The contract" means the agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by references therein.

(b) "The Contract Price" means the price payable to the supplier under the contract for the full and proper performance of its contractual obligations.

(c) "The Goods" means all the equipment and / or other materials which the supplier is required to supply to the purchaser under the contract.

(d) "Services" means services ancillary to the supply of the goods, such as transportation, insurance and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the supplier covered under the contract.

(e) "An undependable Supplier/s' under contract means any Supplier who do not accept the purchase order or who delays the supply of required quantities beyond the permitted delays with liquidated damages

(f) "The Purchaser or Corporation" means the APMSIDC, the purchasing agency

(g) "The Supplier" means the individual or firm supplying the goods under this contract.

(h) "The Government" means the Government of Andhra Pradesh or its authorized representatives

(i) "The Project Site", where applicable means the place or places named in Schedule of Requirements

(j) "The End-User" means the authorized user of the equipment/the Medical Superintendent/Head of the Department of the concerned specialty.

(k) "Day" means calendar day

(l) "Delivery period" means the period applicable up to completion of supply,

Installation and testing of the equipment and the training of the staff on the equipment, by the supplier at the Project site and accepted by the Purchaser or its representative

## 2. Application

2.1. These General conditions shall apply to the extent that they are not superseded by provisions in other parts of the contract.

## 3. Country of Origin: Deleted.

## 4. Standards

4.1 The Goods supplied under this contract shall conform to the standards mentioned in the Technical specifications and when no applicable standard is mentioned the authoritative standard appropriate to the goods country of origin shall be followed and such standard shall be the latest issued by the concerned institution.

## 5. Use of contract documents and Information

5.1 The supplier shall not without the purchaser's prior written consent, disclose the contract or any provision thereof or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the purchaser in connection therewith to any person other than a person employed by the supplier in performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2 The supplier shall not, without the purchasers prior written consent make use of any document or information enumerated in para 5.1 except for purposes of performing the contract.

5.3 Any document other than the contract itself enumerated in para 5.1 shall remain the property of the purchaser and shall be returned (in all copies) to the purchaser on completion of the suppliers performance under the contract if so required by the purchaser.

## 6. Patent Rights

6.1 The supplier shall indemnify the purchaser against all third party claims of infringement of patent, trademark for industrial design rights arising from use of the goods or any part thereof in India.

## 7. Performance Security

7.1 Within 15 days after the supplier's receipt of notification of award of the contract, the supplier shall furnish performance security to the purchaser for the amount specified in the special conditions of contract.

7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete its obligations under the contract

7.3 The performance security shall be denominated in Indian Rupees and shall be in one of the following forms:

(a) A bank guarantee [in favour of Managing Director, APMSIDC, Guntur] issued by any scheduled commercial bank located in India acceptable to the purchaser and in the form provided in the Bidding documents or in any other form acceptable to the purchaser: or.

(b) A Banker's cheque or Demand Draft in favour of Managing Director, APMSIDC, Guntur.

7.4 Fifty percent (50%) of the performance security will be discharged by the Purchaser and returned to the supplier not later than 60 days following the date of completion of the supplier's performance obligations, including any warranty obligations. The balance 50% of the performance security will be retained towards performance security for the maintenance services to be provided for 4 years after the 3 years warranty period and this 50% will be discharged after completion of performance obligations under maintenance services after 7 years.

7.5 The supplier shall accordingly; either furnishes a fresh bank guarantee for the 50% value or an extension of bank guarantee for 50% of the value covering the 4 years maintenance period after 3 years warranty period. Only after receipt of the above, the 50% of the performance security will be discharged after the warranty period.

**8. Inspections and Tests.**

8.1 The purchaser or his representatives shall have the right to inspect and / or to test the Goods to confirm their conformity to the contract. The special conditions of contract and / or the Technical specifications shall specify what inspections and tests the purchaser requires and where they are to be conducted. The purchaser shall notify the supplier in writing of the identity of any representatives retained for these purposes.

8.2 The inspections and tests may be conducted in the premises of the supplier or its subcontractor(s) at point of delivery and/or at the goods final destination. Where conducted on the premises of the supplier or its subcontractor(s) all reasonable facilities and assistance including access to drawings and production data shall be furnished to the inspectors at no charge to the purchaser.

8.3 Should any inspected or tested goods fail to conform to the specifications the purchaser may reject them and the supplier shall either replace the rejected goods or make alternatives necessary to meet specifications, requirements free of cost to the purchaser.

8.4 The purchasers right to inspect test and where necessary reject the goods after the goods arrival at site and shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by the purchaser or its representative prior to the goods shipment from the country of origin.

8.5 Nothing in clause 8 shall in any way release the supplier from any warranty or other obligations under this contract.

**9. Packing**

9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration where appropriated the remoteness of the Goods final destination and the absence of heavy handling facilities at all points in transit.

9.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements, as shall be provided for in the contract and subject to clause 18 and any subsequent instructions ordered by the purchaser.

**10. Delivery and Documents**

10.1 Delivery of the Goods shall be made by the supplier in accordance with the terms specified by the purchaser in the Notification of Award.

**11. Insurance**

The goods supplied under the contract shall be fully insured in Indian Rupees against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the special conditions of contract.

**12. Transportation**

12.1 The supplier is required to deliver the goods to the destinations specified in the contract and the cost thereof shall be included in the contract price.

12.2 The transportation of the Goods after the delivery at the final destination shall be the responsibility of the Purchaser.

**13. Incidental services.**

13.1 The supplier is required to provide the following services, including additional services, if any, specified in SCC:

(a) Performance of the on-site assembly and start-up of the supplied Goods;

(b) Furnishing of tools required for assembly and maintenance of the supplied Goods;

(c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods;

(d) Performance of maintenance and repair of the supplied Goods, for a period of 7 years, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and

(e) Training of the users and maintenance personnel, in operation, maintenance and repair of the supplied Goods.

13.2 Prices charged by the Supplier for incidental services, if not included in the contract price of the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

**14. Spare Parts:**

14.1 As specified in the special conditions of contract, the supplier may be required to provide the following materials and notifications pertaining to spare parts manufacturer:

(a) Such of spare parts as the purchaser may select to purchase from the supplier providing that this selection shall not relieve the supplier of any warranty obligations under the contract and

(b) In the event of termination of production of the spare parts;

(i) advance notification to the purchaser of the pending terminating in sufficient time to permit the purchaser to procure needed requirements: and

(ii) Following such termination, furnishing at no cost to the purchaser, the blueprints, drawing and specifications of the spare parts, if and when requested.

## 15. Warranty

15.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract. The supplier further warrants that the goods supplied under this contract shall have no defect arising from design materials or workmanship (except insofar as the design or material is required by the purchasers specifications) or from any act or omission the supplied goods in conditions obtaining in the country of final destination.

15.2 This warranty shall remain valid for as specified at section V schedule of requirements against each equipment or any portion thereof as the case may be have been delivered at the final destination indicated in the contract, unless specified otherwise in the special conditions of the contract. The warranty period starts from date of commissioning after installation by the firm.

15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, with all reasonable speed, repair or replace the defective goods or parts thereof without cost to the purchaser other than, where applicable, the cost of inland delivery of the repaired or replaced goods or parts from the port of entry to the final destination.

15.5 If the supplier, having been notified, fails to remedy the defect (s) within a reasonable period, the purchaser may proceed to take such remedial action as may be necessary, at the suppliers risk and expenses and without prejudices to any other right which the purchaser may have against the supplier under the contract.

15.6 Site Visits: The successful tenderer shall visit each User Institution as part of preventive maintenance as per the frequency mentioned under clause 5.1.3 (section-I of IFB) during the warranty period. The tenderer shall attend any number of break down/repair calls as and when informed by the Tender Inviting Authority/User Institution.

15.7 During every visit, a copy of the service report/break down call report, duly signed by the custodian of the equipment/head of the health care institution and stamped shall be forwarded by email/fax/post to the APMSIDC office within 10 days from the due date.

15.8 A warranty certificate (as per format in Annexure III) duly signed and with proper stamp of the institution concerned and also signed by the

authorized signatory with the stamp of the successful tenderer shall be submitted to the Tender Inviting Authority for keeping it under safe custody along with the Installation Certificate. A copy of the original warranty papers has to be given to the institution head concerned.

15.9 The tenderer shall submit the activities to be carried out during the preventive maintenance visit as per the format in Annexure IV.

## 16. Payment

16.1 The method and conditions of payment to be made to supplier under the contract shall be specified in the special conditions

16.2 The Suppliers request (s) for payment shall be made to the purchaser in writing accompanied by an invoice describing as appropriate the goods delivered and the services performed and by shipping document, submitted pursuant to clause 10, and upon fulfillment of other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser within sixty (60) days of submission of the invoices / claims by the supplier duly furnishing the certificate specified in the bid document from the competent authority.

16.4 Payment shall be made in Indian Rupees.

## 17. Prices

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not with the exception of any price adjustments authorized by the special conditions of contract, vary from the prices quoted by the supplier in its bid.

## 18. Change Orders

18.1 The Purchaser may at any time by written orders given to the supplier pursuant to clause 31 , make changes within the general scope of the contract in any one or more of the following;

(a) drawings, designs or specifications, where goods to be furnishing under the contract are to be specifically manufactured for the purchaser;
(b) the method of shipping or packing;
(c) the place of delivery; or
(d) the services to be provided by the supplier;

18.2 If any such changes causes an increase or decrease in the cost of or the time required for the suppliers performance of any part of the work under

the contract, whether changed or not changed by the order, an equitable adjustment shall be made in the contract price or delivery schedule or both and the contract shall accordingly be amended. Any claims by the supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the suppliers receipt of the purchasers change order.

**19. Contract Amendments**

19.1 Subject to clause 18, no variation in an modification of the terms of the contract shall be made except by written amendment signed by the parties.

**20. Assignment**

19.2 The supplier shall not assign in whole or in part, its obligations to perform under the contract, except with the purchasers prior written consent.

**21. Sub-contracts**

21.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under the contract if not already specified in his bid. Such notification, in his original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

**22. Delays in the suppliers performance**

22.1 Delivery of the goods and performance of the services shall be made by the supplier in accordance with the time schedule specified by the purchaser in its schedule of requirements.

22.2 Any unexcused delay by the supplier in the performance of its delivery obligations shall render the supplier liable for any or all of the following; i.e. forfeiture of its performance security, imposition of liquidation damages and or termination of the contract for default.

22.3 If at any time during the performance of the contract, the supplier or its subcontractor (s) should encounter performance of the services the supplier shall promptly notify the purchaser in writing of the fact of the delay its likely duration and its causes. As soon as practicable after receipt of the suppliers notice, the purchaser shall evaluate the situation and may at its discretion extend the suppliers time for performance, in which case the extension shall be ratified by the parties by amendment of the contract.

**23. Liquidated Damages**

23.1 Subject to clause 25, if the supplier fails to deliver any or all of the goods within the time period specified in the contract, the purchaser shall,

without prejudice to its other remedies under the contract, deduct from the contract price as liquidated damages, an amount as specified in the SCC for the period of delay, until actual delivery or performance, up to a maximum deduction of **10 percent of the total contract value**. Once the maximum is reached, the purchaser may consider termination of the contract.

**24. Termination for Default**

24.1 The purchaser may, without prejudice to any other remedy for breach of contract by written notice of default sent to the supplier, terminate the contract in whole or part:

(a) if the supplier fails to deliver any or all of the goods within the time periods specified in the contract or any extension thereof granted by the purchaser pursuant to clause 22; or
(b) if the supplier fails to perform any other obligations under the contract.

24.2 In the event the purchaser terminates the contract in whole or in part, 24.1 the purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar Goods. However, the supplier shall continue the performance of the contract to the extent not terminated.

**25. Force Majeure**

25.1 Notwithstanding the provisions of clauses 22,23,24, the supplier shall not be liable for forfeiture of its performance security liquidated damages or termination or default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.

25.2 For purposes of this clause "Force Majeure" means an event beyond the control of the supplier and not involving the suppliers fault or negligence and not foreseeable. Such events may include but are not limited to, acts of the purchaser either in its sovereign or contractual capacity, wars or revolutions, floods, epidemics, quarantine restrictions and freight embargoes.

25.3 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the purchaser in writing the supplier shall continue to perform its obligations under the contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

**26. Termination for Insolvency.**

26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier, if the supplier becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

**27. Termination for convenience**.

27.1 The purchaser may by written notice sent to the supplier terminate the contract, in whole or in part at any time for its convenience. The notice of termination shall specify that termination is for the purchasers convenience the extent to which performance of work under the contract is terminated and the date upon which such termination becomes effective.

27.2 The goods that are complete and ready for shipment within 30 days after the suppliers receipt for notice of termination shall be purchased by the purchaser and the contract terms and prices. For the remaining goods the purchaser may elect.

(a) to have completed and delivered at the contract terms and prices; and / or

(b) to cancel the remainder and pay to the supplier and agreed amount for partially completed goods and for materials and parts previously procured by the supplier.

**28. Resolution of Disputes**

28.1 The purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the contract.

28.2 If after thirty (30) days from the commencement of such informal negotiations the purchaser and the supplier have been unable to resolve amicably contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the special conditions of contract. These mechanisms may include but are not limited to conciliation, mediation by third party justification in an agreed national or international forum and / or international arbitration. The mechanism shall be specified in the special conditions of contract.

**29. Governing Language**

29.1 The contract shall be written in English language, as specified by the purchaser in the instructions to bidders. Subject to clause 30, English language version of the contract shall govern

30. **Applicable law**

30.1 The contract shall be interpreted in accordance with the laws of the union of India and the legal jurisdiction is Hyderabad

## 31. Notices

31.1 Any notices given by one party to the other pursuant to the contract shall be sent in writing and confirmed in writing to the address specified for that purpose in the special conditions of the contract. A notice shall be effective when delivered or on the notices effective date, whichever is later.

## 32. Taxes and duties

32.1 The rates quoted by the bidder shall be deemed to be inclusive of the sales and other taxes that the bidder will have to pay for the performance of this contract, at the prevailing rates notified by the Government. The purchaser will perform such duties in regard to the deduction of such taxes at source as per applicable law.

## SECTION - IV: SPECIAL CONDITIONS OF CONTRACT

## TABLE OF CLAUSES

(The corresponding clause number of the General condition is in parenthesis)

## Section IV: Special Conditions of the Contract

1. The following special conditions of contract shall supplement the general Conditions of contract. Whenever there is conflict, the provisions herein shall prevail over those of the general conditions of contract the corresponding clause number of the general conditions in parentheses.

**2. Definitions (Clause I)**

(a) The Purchaser is : The Managing Director, APMSIDC, Mangalagiri,
Guntur.
(b) The Supplier is : ----------

**3. Country of origin (Clause 3):** All goods and related services to be supplied under the contract / agreement shall have their origin in India or any other country with which India has not banned trade relations.

**4. Performance security (Clause 7)**

4.1 Performance security is 5% of the contract value and shall be valid up to 60 days after the date of completion of performance obligations including warrant obligations, as applicable.

4.2 Add clause 7.5 to the GCC as the following:

In the event of any contract amendment, the supplier shall within 7 days of receipt of such amendment furnish the amendment to the performance security rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter

**5. Inspection and Tests (clause 8)**

The following inspection procedures and tests are required by the Purchaser:

5.1 The Supplier shall get each equipment inspected by a competent authority in manufacturer's works and also provide a guarantee/warranty certificate that the instrument conforms to all specifications contained in the contract.

5.2 The *Purchaser* or its representative may inspect and/or test any or all the equipment to confirm their conformity to the Contract specifications, prior to dispatch from the manufacturer’s premises. Such inspection and clearance will not prejudice the right of the consignee to inspect and test the equipment on receipt at destination.

5.3 However, on arrival of the equipments at destinations, the purchaser or its representative shall have the right to inspect and/or test any or all the equipments to confirm their conformity to the contract.

5.4 If the equipment or its performance is not as per specified conditions, deficiency or replace the equipment (s) to the satisfaction of the purchaser's representative.

**6. Packing (Clause 9)**

The Supplier will be required to mark separate packages for each consignee on three sides with proper paint/indelible ink, the following: i. Name of the contract, ii. Contract No., iii. Country of origin of Goods, iv. Supplier's Name and v. Packing of list reference number

**7. Delivery and Documents (Clause 10)**

(i) Three copies of the Supplier invoice showing Goods description, quantity, unit price, total amount;
(ii) Railway receipt/acknowledgement of receipt of goods from the Consignee
(iii) Manufacture's/Supplier's Warranty and Factory Test certificate;
(iv) Acceptance Certificate issued by the End-User
(v) Inspection Certificate issued by the nominated inspection agency, as applicable

**8. Insurance (Clause 11)**

i) **For delivery of goods at site, the insurance shall be obtained by the Supplier at his cost for an amount equal to 110% of the value of the goods from "warehouse to warehouse" on "All Risks" basis including war Risks and Strike clauses period in the name of consignee authorized by the purchaser i.e. M.D. APMSIDC. The supplier shall also provide insurance coverage against fire and theft in the name of consignee upto end of the warranty period.**

**ii) To submit a copy of insurance document duly attested by the consignee to APMSIDC along with bills for making payment. Otherwise the bills may not be processed.**

**9. Incidental Services (Clause 13)**

No additional services are required to be provided over the services already covered under clause 13 of GCC.

**10. Spare parts: (Clause 14)**

Add as clause 14.2 to the GCC the following:

Supplier shall carry sufficient inventories to assure ex stock supply of consumables spares such as gaskets, plugs, washers, belts etc., other spare parts and components shall be promptly as possible but, in any case, within (3) days of placement of order.

## 11. Warranty (Clause 15)

11.1 In partial modification of the provisions, the warranty period shall be as specified at section V schedule of requirements against each equipment, or any portion thereof, as the case may be, have been delivered at site, installed, commissioned, successfully tested and accepted by the Purchaser or its authorized representative

11.2 Substitute Clause 15.4 of the GCC with the following:

Upon receipt of such notice, the Supplier shall within 3 days, repair or replace the defective goods or parts thereof, free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement.

11.3 If the supplier has not done repair/replacement within the time specified above the purchaser will assess the cost of having the repairs/replacements done and the supplier will pay this amount.

11.4 Overall an uptime guarantees of 95% shall be maintained out of total usage period of the equipment by the end users during the warranty period

11.5 All software updates, if any required, should be provided free of cost during Warranty period.

## 12 Payment (Clause 16)

12.1 Payment for goods and services shall be made in Indian Rupees as follows:

a) 60% of the contract value of the supply part after necessary deduction will be paid to the supplier on submission of copy of invoice with original Delivery Challan as proof of supply to destinations duly certified by the Head of the Institution and RTGS details
b) 30% of payment will be paid on submission of original invoice with stock entries, delivery challan and Installation Certificates (Annexure 1), warranty certificate (Annexure III), copy of insurance document duly attested by the consignee to APMSIDC, calibration, quality assurance certificate test certificate if required as per technical specification after completion of all the performance obligations.
c) The balance 10% will be paid after three months from the date of installation on submission of performance satisfactory report (Annexure-II), obtained from the Head of the institute or concerned authorities.

d) In case any difficulty is experienced by the successful tenderer in obtaining three-month performance certificate from any of the User

Institution after the installation of the equipment, the same shall be brought to the notice of the Tender Inviting Authority immediately in writing. In such event(s), if the Tender Inviting Authority is convinced, the reasons are beyond the control of the successful tenderer, the Tender Inviting Authority, in case of supply orders placed by it, shall release payments at its discretion. In such case the letter sent to the Tender Inviting Authority shall be submitted along with the invoices while claiming payment.

12.2 If there is a delay in installation of the equipment due to reasons not attributable to the supplier such as non readiness of site, 60% of the supply part of the contract value will be released against supply and a confirmation letter from the consignee / end user, on submission of original delivery challan & Invoice copy.

12.3 Cost of Comprehensive Maintenance Contract for each year will be paid, at the end of each year by the Purchaser's representatives/hospital authorities, upon submission of the service reports to the extent of the service delivered as per the contract terms.

**13. Prices (Clause 17)**

Prices payable to the Supplier as stated in the Contract shall not be subject to adjustment during performance of the Contract.

**14 Sub-contracts (Clause 21)**

Add at the end of sub-clause 21.1 of the GCC the following. "Sub-contract shall be only for bought-out items and sub-assemblies".

**15 Liquidated Damages (Clause 23)**

**15.1 <u>For delays</u>**

Substitute Clause 23.1 of the GCC by the following:

Subject to clause 25 of GCC, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5 percent of the delivered price of the delayed Goods or unperformed Services for each week of delay or part thereof until actual delivery or performance, up to a maximum deduction of **10% of the total Contract value**. Once the maximum deduction is reached, the Purchaser may consider termination of the Contract.

15.2 For Short fall in Equipment Maintenance services

Any major repair intimated by the *Purchaser or the end-user* shall be rectified by the Supplier from the date of intimation within a period of 3

calendar days and repair the equipment to the satisfaction of the Purchaser or the End User. Failing which the Purchaser has a right to levy a penalty on the Supplier a sum of Rs.10,000/- per day of delay, until the equipment is repaired and brought to the normal working condition to the satisfaction of the Purchaser.

16 **Resolution of Disputes (Clause 28)**

Add as Clauses 28.3 and 28.4 of the GCC the following:

28.3 The dispute resolution mechanism to be applied pursuant to clause 28 of the General Conditions shall be as follows:

(a) In the case of dispute or difference arising between the Purchaser and a Domestic Supplier relating to any matter arising out of or connected with this agreement, such dispute or difference shall be referred to the award of two Arbitrators, one Arbitrator to be nominated by the Purchaser and the other to be nominated by the Supplier or in the case of the said Arbitrators not agreeing, then at the award of an Umpire to be appointed by the Arbitrators in writing before proceeding with the reference, and in case the Arbitrators cannot agree to the Umpire, he may be nominated by the Arbitration committee of the Indian Council of Arbitration, India. The award of the Arbitrators, and in the event of their not agreeing, of the Umpire appointed by them or by the Arbitration Council of India, India, shall be final and binding on the parties.

(b) The Indian Arbitration Act 1996, the rules thereunder and any statutory modification or re-enactments thereof, shall apply to the arbitration proceedings.

28.4 The venue of arbitration shall be the place from where the Contract is issued.

**17 Notices (Clause 31)**

For the purpose of all notices, the following shall be the address of the purchaser and supplier.

Purchaser: The Managing Director, APMSIDC, 2nd Floor, Plot No:09, survey number: 49, IT Park, Mangalagiri, Guntur District- 522503

Supplier: (To be filled in at the time of Contract Signature)

**18 Comprehensive Maintenance Contract (CMC)**

a) The Comprehensive Maintenance Contract includes 4 visits in a year preventive maintenance visits and all the distress calls during the year and also include the probable cost of spares required

towards the repairs carried out to bring a not working equipment to its normal working condition, during the year.

b) The supplier shall under take at least one half-yearly preventive maintenance visit and attend to all the break down calls during the year. The payment for the maintenance services will be made at the end of each half-year, upon submission of necessary service reports signed by the end-users.

## 19 Actions Against the Misconduct of the Supplier

19.1 A Supplier found being supplied similar items with similar tender conditions to any other agency in the country during the validity of the contract with the APMSIDC, at a rate lower than the rate at which they supplied under this tender, the difference amount is liable to be recovered apart from blacklisting the firm for a minimum period of 3 years. The Supplier should furnish undertaking (Annexure-XIII) that they will remit the differential cost, if they quote lower rate than the rate quoted to the APMSIDC to any other agency or department or state, during the period of contract.

19.2 Any substandard supplies without meeting the quality specifications made under the contract shall also entail blacklisting of the firm for a minimum period of three years for that particular product.

19.3 If the bidder fails to demonstrate on asked to do so, of the products quoted with their bid, without any valid or convincing reason to the satisfaction of the Purchaser, the bids for other items offered against the bid notice will not be considered and he may be debarred for a certain period as decided by the Purchaser.

## 20 Progress of Supply

Supplier shall intimate progress of supply, in writing, to the Purchaser as under:

- Qty offered for inspection and date;
- Qty. accepted/rejected by inspecting agency and date;
- Qty. dispatched/delivered to consignees and date;
- Qty. where incidental services have been satisfactorily completed with date;
- Quantity where rectification/repair/replacement effected/completed,

on receipt of any communication from consignee/Purchaser with date;

- Date of completion of entire Contract including incidental services, if any; and
- Date of receipt of entire payments under the Contract.

## SECTION V

## SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS

| Sl. No | Item Name | Qty | Warranty (in Years) | CMC (in Years) | EMD (in Rs.) | Average Annual turnover of the Authorized Bidder in the last three years i.e. 2020-21, 2021-22 and 2022-23 |
|---|---|---|---|---|---|---|
| 1 | Establishment of Comprehensive Lactation management centers | 13 | 3 | 4 | 11,95,000 | 9,96,00,000 |
| 2 | Establishment of Lactation management unit | 13 | 3 | 4 | 3,75,180 | 3,13,00,000 |

**Processing fee:** The participating bidders will have to pay tender processing fee (non-refundable) of **Rs. 11,800/-** in the form of online only.

**Note: For the bidders quoting more than one Group of items, the bidder must have an average annual turnover equal to the sum of the average annual turnovers mentioned against each equipment. However, a bidder having an average turnover of 10 Crores in the last three financial years and EMD 10 lakhs shall be eligible to bid for any number of equipment.**

**Note: Bidders who are having any pending court cases / legal disputes against the APMSIDC before any court of law / authority, are not eligible to participate in the tender. In this regard If any ambiguity arise, the decision of tender inviting authority (APMSIDC) is final**

1. **To allow the authorized distributors duly obtaining an agreement/ MOU from the Manufacturer for binding on Post Supply Services i.e. Warranty, CMC, AMC etc., and on agreement executed by the authorized distributor with the Corporation. Further an undertaking from Manufacturer to take responsibility in case of authorized**

**distributor's failure in performing the Contractual Obligations also may be obtained. Proforma will be provided.**

2. EMD shall be furnished in the form of Demand Draft/BG/Online drawn in favour of Managing Director, APMSIDC, Guntur.

## Technical Specifications

### General Information

1. Bidders are requested to offer the equipment as per the specifications attached.

2. For each item of equipment, the bidder should include all the cost associated with fixing, cables, connectors, accessories and ancillary items necessary for the satisfactory operation of that item of equipment. Bidders should make the provisions of starter packs for consumables for demonstration and three months of operation period for the supplied equipment.

3. Spare parts list, listing spare likely to be required for (7) years operations shall be attached with the Bid

4. (i) Bidders are requested to provide, referenced by given equipment code and item name, with their tender offer, the following information for all the items of equipment offered.
   - Name of the Manufacturer
   - Brand Name & Model Number
   - Country of Origin

   (ii) Catalogue, Pamphlet, descriptive literature, spare parts list and technical specifications for each unit of item must be forwarded with the offer.

5. Operating Environment:

   Electrical Supply: The Equipment supplied shall be suitable in all respect for use on the local electricity supply of 200- 270 Volts, 50 Cycles. A suitable stabilizer/CVT to be offered as an optional accessory in case of specific Voltage requirement for the supplied Equipment. Resettable over current breaker shall be fitted for protection wherever applicable.

   Humidity: The unit shall be capable of operating continuously in ambient temperature of $30^0$C and relative humidity of around 80%.

7. After Sales Service:

   Bidders are requested to confirm in writing in their bid offer the after sales service they would provide, after the expiry of three-year warranty period, for four more years including an estimated cost an annual servicing contract. The maintenance capability of the bidders currently existing in Hyderabad and Andhra Pradesh should also be clearly stated.

8. All items should be of high quality, durable, and suitable for use in a Hospital. The technical specification and standards of each item delivered shall be that currently in use at the time of delivery.
    a) Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450.
    b) Radiation safety: Safety aspects of Radiation dosage leakage should be spelt out and all the X-ray related products should comply with AERB Guidelines for radiation leakage.

10 a) The Manufacturer, must have necessary quality certifications for both processes and products such as ISO 9001 (Quality Management System for Organization) and ISO 13485 (Quality Management System for Medical Devices).

b) Full Quality Assurance System Approval certificate Management System Certification for Medical Devices and their equivalent International Standards certificates as BIS/Notified body CE/USFDA etc.

11. If the bidder fails to demonstrate any of the products quoted, the bid for that product would be considered as withdrawn and suitable action will be taken as per the Clause 15 of ITB. i.e., forfeiture of the Bid security and also the bidder may be debarred for a certain period as decided by the Managing Director.

**Note:**

1. **The bidder should submit the details of spares which are covered or not covered under warranty.**
2. **The bidder should also submit the detailed price list for all spares.**

## List of items

1. **Comprehensive Lactation management centers**

| Sl. No | Name of the item | Required Qty for each Centre |
|---|---|---|
| **Equipment** | | |
| 1 | Pasteurizer (Fully Automated) | 1 |
| 2 | Shaker incubator | 1 |
| 3 | Shaker water bath | 1 |
| 4 | Vertical Laminar air flow | 1 |
| 5 | Horizontal Laminar air flow | 1 |
| 6 | Deep Freezer | 4 |
| 7 | Refrigerator | 3 |
| 8 | Microscope with oil immersion lens | 1 |
| 9 | Lab incubator | 1 |
| 10 | PH meter | 1 |
| 11 | Bunsen Burner | 1 |
| 12 | Analytical Balance | 1 |
| 13 | Hospital Grade electrical Breast pump | 6 |
| 14 | Extra Reusable Lactation sets supplied to use with Breast pumps | 30 |
| 15 | Containers Polypropylene (BPA Free) | 150 |
| 16 | Bottle Sealer with foil for sealing bottles | 1 |
| 17 | Printer and water proof labels | 1 |
| 18 | Stainless steel strainer | 4 |
| 19 | Stainless steel wire mesh basket | 5 |
| 20 | Glass beaker/Flask (1 liter) for pooling | 6 |
| **Cleaning and sterilizing Equipment** | | |
| 21 | Steel scrub station | 4 |
| 22 | Stainless steel table (4X2 Sq.ft) | 5 |
| 23 | Dishwasher | 1 |
| 24 | Kitchen basket (steel/plastic) | 1 |
| 25 | Hot Air oven | 2 |
| 26 | Bench top autoclave (automated) | 2 |
| 27 | Heat sealer machine with cutter | 1 |
| 28 | Bucket trolley | 2 |
| 29 | Folding laundry trolley | 2 |
| 30 | Multi-Function Janitor | 1 |
| 31 | Dust bins (Stainless steel) | 8 |
| 32 | Mop set with $360^0$) rotating pole and steel bucket | 1 |
| 33 | Medical ice box-Gel packs | 2 |

| Furniture | | |
|---|---|---|
| 34 | Cup board | 3 |
| 35 | Donor Room Sofa (5 Seats) (3 + 2) | 1 |
| 36 | Miscellaneous items-Reception counter, fixed cupboards, baby cradle, lockers, staff garment cabinet, wheel chair etc. | Qty not mentioned |
| 37 | Chairs | 10 |
| 38 | Tables | 2 |
| 39 | Curtains | 5 |
| 40 | Gowns | 10 |
| 41 | Dustbins | 1 |
| 42 | Intercom | 1 |
| 43 | Computer | 1 |
| 44 | Printer | 1 |
| 45 | LED television with a DVD Player | 1 |
| 46 | Music system | 1 |
| 47 | Air conditioner | 4 |
| 48 | Exhaust Fan | 4 |
| 49 | Ceiling Fan | 4 |
| 50 | RO water system | 1 |
| 51 | Generator | 1 |
| 52 | Geyser for hot water | 5 |
| 53 | Drinking water Machine | 1 |

**2. Lactation Management Unit**

| Sl. No | Name of the item | Required Qty for each Centre |
|---|---|---|
| **Equipment** | | |
| **1** | Refrigerator | **1** |
| **2** | Deep Freezer | **1** |
| **3** | Hospital Grade electrical Breast pump | **3** |
| **4** | Extra Reusable Lactation sets supplied to use with Breast pumps | **15** |
| **5** | Containers Polypropylene (BPA Free) | **75** |
| **6** | Bottle Sealer with foil for sealing bottles | **1** |
| **7** | Printer and water proof labels | **1** |
| **8** | Stainless steel strainer | **2** |
| **9** | Stainless steel wire mesh basket | **2** |
| **Cleaning and sterilizing Equipment** | | |
| **10** | Steel scrub station | **2** |
| **11** | Stainless steel table (4X2 Sq. ft) | **3** |
| **12** | Dishwasher | **1** |

| | | |
|---|---|---|
| **13** | Kitchen basket (steel/plastic) | **1** |
| **14** | Hot Air oven | **1** |
| **15** | Bench top autoclave (automated) | **1** |
| **16** | Heat sealer machine with cutter | **1** |
| **17** | Bucket trolley | **1** |
| **18** | Folding laundry trolley | **1** |
| **19** | Multi-Function Janitor | **1** |
| **20** | Dust bins (Stainless steel) | **5** |
| **21** | Mop set with $360^0$) rotating pole and steel bucket | **2** |
| **22** | Medical ice box-Gel packs | **2** |
| **Furniture** | | |
| **23** | Cup board | **3** |
| **24** | Chairs | **6** |
| **25** | Donor Room Sofa (5 Seats) | **1** |
| **26** | Tables | **2** |
| **27** | Miscellaneous items-Reception counter, fixed cupboards, baby cradle, lockers, staff garment cabinet, wheel chair etc. | |
| **Communications equipment and computer** | | |
| **28** | Computer | **1** |
| **29** | Printer | **1** |
| **Other items** | | |
| **30** | Air conditioner | **3** |
| **31** | Ceiling fan | **3** |
| **32** | Exhaust Fan | **3** |
| **33** | Geyser for hot water | **3** |
| **34** | Music system | **1** |
| **35** | Drinking water Machine | **1** |
| **Office utility items** | | |
| **36** | Curtains | **5** |
| **37** | Gowns | **10** |

**Note: All the bidders should quote each center CMC price in attached document will be given provision to upload the document after reverse auction.**

1. **All the bidders are requested to quote the total value of the items as a single unit (Total items X Total Quantity = Total Value)**

## SECTION – VI

## PRE - QUALIFICATION CRITERIA

**(Referred to in clause 13.3 of ITB)**

**I. Terms of Qualification for Equipment:**

The Authorized Distributor or manufacturer should have supplied similar equipment as specified in the schedule of requirements to any Indian Institutions, up to the following quantity in any one of the last three financial years and completed the supplies within the stipulated delivery period. The Supplied units should be in working condition without any adverse remarks for the last two years as on the date of bid notification.

(a). at least equal of the quantity offered or 25, whichever is lowest, if the tender quantity is ≤49 (or)
(b). at least 50% of the quantity offered or 70, whichever is lowest, if the tender quantity is between 50 and 199
(c). at least 35% of the quantity offered or 125, whichever is lowest, if the tender quantity is between 200 and 499
(d). at least 25% of the quantity offered, if the tender quantity is > 500

- The bidder should furnish the information on past supplies and satisfactory performance in the proforma given under Section XI- Format B1, duly attested by the Bid signatory

- **Performance statement along with required PO copies and its corresponding end user's satisfactory performance certificate Section XI. The documentary proof will be a certificate from the consignee/end user with cross-reference of order no. and date in the certificate along with a notarized certification authenticating the correctness of the information furnished.**

- **Bidders shall invariably furnish documentary evidence (End-user Certificate) in support of the satisfactory operation of the equipment as specified or a CA/Statutory auditor Certificate to that extent as per the format provided in the** Section XI- Format B2

- The Bidder shall have an Avg. annual turnover in the last three financial years of **not less than the amount specified against each item in the Schedule of the Requirements and** also to have a positive net worth as per the latest Annual Accounts.

- Towards the above, the bidder should furnish data as per the Format (B3) given in Section- XI, to support that he has the financial capacity to perform the contract. Further the bidder as to submit the corresponding Balance Sheets and Profit and Loss Accounts for verification

a) The Manufacturer, must have necessary quality certifications for both processes and products such as ISO 9001 (Quality Management System for Organization)

b) Full Quality Assurance System Approval certificate Management System Certification for Medical Devices and their equivalent International Standards certificates as BIS/CE/USFDA etc.

**II. Terms of Disqualification:**

1. The Bidders who has withdrawn their bids in any of the previous tenders of APMSIDC

2. A bidder who is placed on the black-list by either APMSIDC or by any other State /Central government's department or organization for the product offered with his bid in the last 3 years

3. A bidder who is placed on the black-list by either APMSIDC or by any other State / Central government's department or organization in the last 3 years

4. A bidder who is currently blacklisted / debarred either by APMSIDC or by any State Government or Central Government Department or Organization

5. The bidder who has been declared as 'undependable supplier' for two (2) items or in two (2) instances in the last one year by the APMSIDC and

6. The bidders against whom there have been reports of substandard Equipment and/or service are liable for disqualification.

7. In past performance documents related to Trading will not be considered

Note: In all the above cases, the disqualification cut-off date will be till the contract is signed

III. Not with standing anything stated above, the purchaser reserves the right to assess the Bidders capabilities and capacity to perform the contract should circumstances warrant such an assessment in the overall interest of the purchaser deciding on award.

## SECTION – VII (A): BID FORM

(Name and Address of Purchaser)

**Date_____**

To
The Managing Director,
APMSIDC, Mangalagiri, Guntur.

**Contract No._____**

Gentlemen:

Having examined the Bidding Documents including Addenda No. _____ the receipt of which is hereby duly acknowledged, we, the under-signed, offer to supply and deliver _____ (Description of Goods and Services) in conformity with the said Bidding Documents for the sum as given in the Price Bid (electronically) or such other sums as may be ascertained in accordance with the schedule of prices furnished and made part of this bid.

We undertake, if our bid is accepted, to commence delivery within 90 (Number) days and to complete delivery of all the items and perform incidental services as specified in the contract within 90 (Number days calculated from the date of receipt of your Notification of Award/Letter of credit.

If our bid is accepted we will obtain the guarantee of a bank in a sum not exceeding 5% of the Contract price for the due performance of the Contract

We agree to abide by this bid for a period of 90 (Number) days from the date fixed for bid opening under Clause 22 of the Instruction to Bidders and shall remain binding upon us and may be accepted at any time before the expiration of that period.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in India like “The Prevention of Corruption Act 1988”

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this _____ day of _____

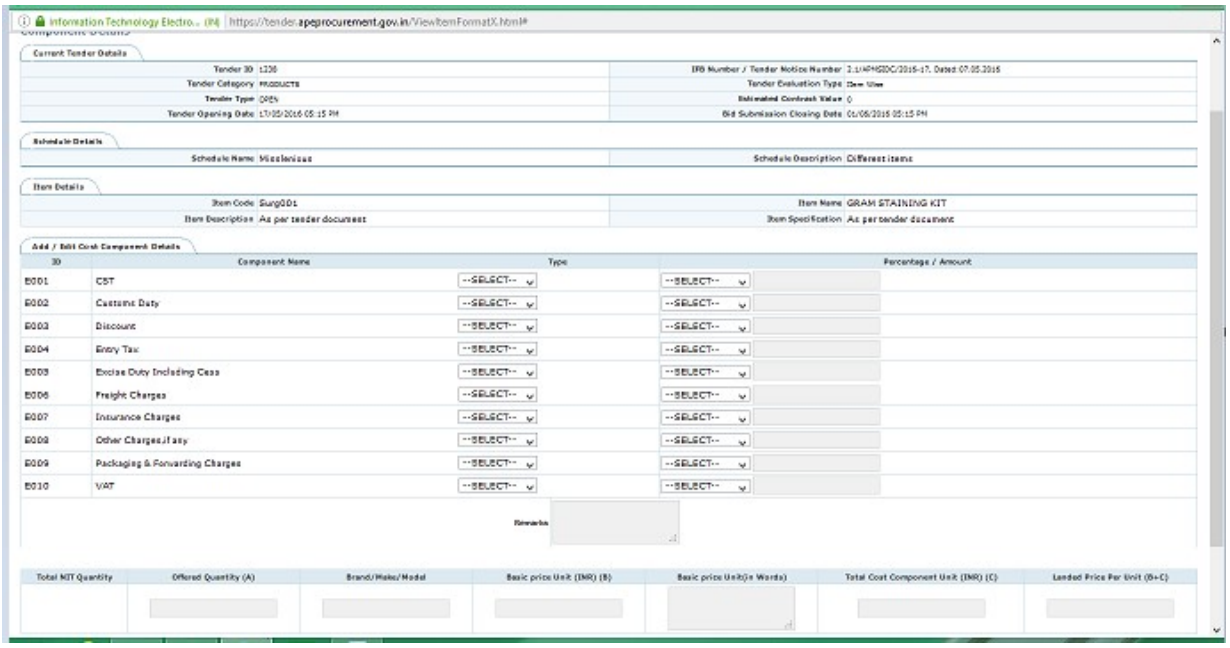
Signature: _____

(in the Capacity of) : _____

Duly Authorized to sign bid for and on behalf of

_____

## Section VII (B) - Model PRICE Schedules (available on e-procurement Platform)



## SECTION – VIII
## Bid Security Form

To

The Managing Director
APMSIDC, Mangalagiri, Guntur.

Whereas _____
(hereinafter called "the Bidder" has submitted its bid dated _____ for the supply of _____ (hereinafter called "the Bid")

KNOW ALL MEN by these presents that WE _____ of _____ having our registered office at _____ (hereinafter called the Bank") are bound unto

_____
____ (hereinafter called "the purchaser") in the sum of _____ for which payment will and truly to be made to the said purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the common Seal of the said Bank this _____ day of _____.

THE CONDITIONS of this obligation are:

If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid form; or

If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the
period of bid validity:

- Fails or refuses to execute the contract form if required
- Fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders
- Does not accept the correction of the bid price pursuant to Clause 15.7(c).

We undertake to pay the purchaser up to the above amount upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand the purchaser will note that the amount claimed by it is due to owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date i.e., upto _____.

**…….(Signature of the Bank)**

## SECTION – IX : CONTRACT FORM

THIS AGREEMENT made the _____ day of _____ between _____ (Name of Purchaser) of _____ (Country of Purchaser) (hereinafter "the Purchaser") of one part and _____(Name of the Supplier) of _____ (City and Country of Supplier) (hereinafter "the Supplier") of the other part.

WHEREAS the Purchaser is desirous that certain Goods and ancillary services should be provided by the supplier, viz, _____ (Brief description of Goods and Services) and has accepted a bid by the supply of Goods and services in the sum of _____ (Contract price in Words and Figures) (hereinafter "the Contract Price").

NOW THIC AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the conditions of Contract referred to;

2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:

   (a) The Technical and Price bid of the Supplier
   (b) The approved Technical Specifications,
   (c) The General Conditions of Contract,
   (d) The Special Conditions of Contract, and
   (e) The Purchaser's Notification of Award.

3. In consideration of the payments to be made by the purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provision of the Contract.

4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

5. Brief particulars of goods and services which shall be supplied/provided by the Supplier are as under.

| SL NO. | BRIEF DESCRIPTION TO GOODS & SERVICES | QUANTITY TO BE SUPPLIED | UNIT PRICE | DELIVERY TERMS |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

**TOTAL VALUE:**

**DELIVERY SCHEDULE:**

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

Signed, Sealed and Delivered by the

Said _____ (For the Purchaser)

in the presence of _____

Signed, sealed and Delivered by the

Said _____ (For the supplier)

In the presence of _____

## SECTION- X: PERFORMANCE SECURITY FORM

To

The Managing Director
APMSIDC,
Mangalagiri, Guntur.

WHEREAS _____ (Name of the Supplier) hereinafter called "the Supplier" has undertaken, in pursuance of Contract No. _____ dated _____ to supply _____ (Description of Goods and Services) hereinafter called "the Contract".

AND WHEREAS it has been stipulated by you in the said contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of _____ (Amount of the Guarantee in Words and Figures) and we under take to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of _____ (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of _____.

Signature and seal of Guarantors

_____

_____

Date _____

Address_____

_____

## SECTION XI

### FORMAT B1: PROFORMA FOR PERFORMANCE (for a period of last three years)

**(Please see Section VI: Qualification Criteria)**

**Bid No. _____ Date of Opening _____ Time _____ Hours**

**Name of the Firm**

**_____**

| Order placed by _____ _ (Full address of Purchaser) | Order No | Date | Description of Item | Quantity of ordered Items. | Value of order | Date of completion of delivery | | Remarks indicating reasons for late delivery, if any | Has the Supplier received full payment towards the supplies made |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Purchase terms | Actual | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

**Signature and seal of the Bid Signatory**

**_____**

## SECTION XI

### FORMAT B2

### CA (STATUTORY AUDITOR) CERTIFICATE

**(Please see Section VI: Qualification Criteria)**

**Certificate from the Statutory Auditor**

This is to certify that ..... (name of the Bidder) is a "Manufacturer/Authorized Distributor'' of the required items offered under the Bid. The Bidder had supplied the quantities shown in the past performance statement and also completed the respective supplies within the stipulated delivery period/s.

Further it is certified that the previously supplied equipment are reported to be in working condition without any adverse remarks from the respective users and some are working for more than two year as per the records as on the date of this Tender notification.

The bidder has previous experience in maintenance and repairs of equipment for _____ years and has qualified service staff working with him".

**Name of Authorized Signatory:**
**Designation:**
**Name of firm:**

**(Signature of the Authorized Signatory)**
**Seal of the Firm**

## SECTION XI

### B3- FINANCIAL CAPACITY OF THE MANUFACTURER

A. Details of Annual Turnover for Preceding 3 Years.

| | Year 1 (2020-21) | Year 2 (2021-22) | Year 3 (2022-23) | Average Annual Turnover |
|---|---|---|---|---|
| Turn Over (In Rs. Crores) | | | | |

B. Details of Net Worth

| | Year1 (Last Financial Year i.e. as on 31st March 2023) |
|---|---|
| Paid up Capital (Rs. Cr) | |
| (Add) Free Reserves (Rs. Cr) | |
| Total Net Worth (Rs. Cr) | |

_____

**(Signature of Bid Signatory)**
**Seal of the Firm**

Certificate from the Statutory Auditor

This is to certify that .....(name of the Bidder) has an average annual turnover (in the last three financial years) and Net Worth (in the last financial year) as shown above

Name of Authorized Signatory:
Designation:
Name of firm:

(Signature of the Authorized Signatory)
Seal of the Firm

## SECTION XI

### B3-A FINANCIAL CAPACITY OF THE DISTRIBUTOR

A. Details of Annual Turnover for Preceding 3 Years.

| | Year 1 (2020-21) | Year 2 (2021-22) | Year 3 (2022-23) | Average Annual Turnover |
|---|---|---|---|---|
| Turn Over (In Rs. Crores) | | | | |

B. Details of Net Worth

| | Year1 (Last Financial Year i.e. as on 31st March 2023) |
|---|---|
| Paid up Capital (Rs. Cr) | |
| (Add) Free Reserves (Rs. Cr) | |
| Total Net Worth (Rs. Cr) | |

_____

**(Signature of Bid Signatory)**
**Seal of the Firm**

Certificate from the Statutory Auditor

This is to certify that .....(name of the Bidder) has an average annual turnover (in the last three financial years) and Net Worth (in the last financial year) as shown above

Name of Authorized Signatory:
Designation:
Name of firm:

(Signature of the Authorized Signatory)
Seal of the Firm

## SECTION – XII -A

**(Please see Clause 13.3(a) of Instructions to Bidders)**
*(to be submitted by manufacturers)*

**MANUFACTURER'S AUTHORIZATION FORM**
**No._____ dated _____**

**To**
**The Managing Director**
**APMSIDC, Mangalagiri, Guntur.**
**Dear Sir,**

**Tender Notice No._____**

**We _____ who are established and reputable manufacturers of _____ having factories at _____ and _____ do hereby authorize M/s. _____ (Name and address of Agents) to bid, negotiate and conclude the contract with you against Tender Notice No._____ for the above goods manufactured by us.**

**No company or firm or individual other than M/s. _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific Tender Notice.**

**We hereby declare that we are willing to provide guarantee/warranty and after sales service during the period of comprehensive warranty/CMC/AMC as per the above tender.**

**We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipments tendered within the stipulated time.**

**We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract and read with the Clause 10 of Special Conditions of Contract, for the Goods offered for supply against this invitation for bid by the above firm.**

**Yours faithfully,**

**(Name) for and on behalf of M/s.**

**_____**
**(Name of manufacturers)**

**Note: This letter of authority is on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.**

## SECTION – XII -B

**(Please see Clause 13.3(a) of Instructions to Bidders)**
*(to be submitted by Authorized Distributors) )*

**MANUFACTURER'S AUTHORIZATION FORM**
**No._____ dated _____**

**To**
**The Managing Director**
**APMSIDC, Mangalagiri, Guntur.**
**Dear Sir,**

**Tender Notice No._____**

**We _____ who are established and reputable manufacturers of _____ having factories at _____ and _____ do hereby authorize M/s. _____ (Name and address of Agents) to bid, negotiate and conclude the contract with you against Tender Notice No._____ for the above goods manufactured by us.**

**No company or firm or individual other than M/s. _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific Tender Notice.**

**We also hereby undertake to provide full guarantee/warrantee/CMC/AMC as agreed by the tenderer in the event the tenderer is changed as the dealers or the tenderer fails to provide satisfactory after sales and service during such period of comprehensive warranty/CMC/AMC and to supply all the spares/ reagents during the said period.**

**We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipments tendered within the stipulated time.**

**We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract and read with the Clause 10 of Special Conditions of Contract, for the Goods offered for supply against this invitation for bid by the above firm.**

**Yours faithfully,**
**(Name) for and on behalf of M/s.**

**_____**
**(Name of manufacturers)**

**Note: This letter of authority is on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.**

## SECTION - XIII

## DECLARATION FORM

I / We …….. having Our …….. office at ……. read and understood the terms and conditions contained in the bidding documents under this notification for bid and offer our bids unconditional, to the extent not stated at any other part of our bid.

We will not quote or supply the equipment/furniture similar to the ones offered under this bid notification to any agency or organization in the country, at the rate lower than the rate quoted in this present tender.

If we found quoting lower rate than the rate quoted to the APMSIDC, to any other agency in the country during the validity of the present contract, we will remit the differential cost to the APMSIDC, unconditionally.

Signature :

Date :

Name of the
Firm and address :

## SECTION XIV

## Check List of Documents to be Uploaded as part of the Bid and Notes to Bidders

### I. Documents with the Technical Bid

| Sl. No | Document Description | Documents to be submitted |
|---|---|---|
| 1 | Process Fee 11,800/- | Online |
| 2 | EMD | Online & Offline |
| 3 | Bid Form Section VII-A | Online & Offline |
| 4 | List of items offered with Make and Model details without prices | Online & Offline |
| 5 | Manufacturers Authorization (wherever required) | Online & Offline |
| 6 | Past Performance Details Format B1 along with supporting documents | Online & Offline |
| 7 | End-User Certificates or CA Certificate as per Format B2 | Online & Offline |
| 8 | Financial Capability Details Format B3 for Manufacturer | Online & Offline |
| 9 | Financial Capability Details Format B3-A Distributor | Online & Offline |
| 10 | Details & proof of After-Sales Service facilities | Online & Offline |
| 11 | Letter of authorization to sign the bids | Online & Offline |
| 12 | Clause-by-clause commentary on technical specifications | Online & Offline |
| 13 | Technical and Commercial deviations statements | Online & Offline |
| 14 | Copy of the GST Certificate and Details of IT Returns- PAN / TIN copies. | Online & Offline |
| 15 | The Manufacturer, must have necessary quality certifications for both processes and products such as ISO 9001 (Quality Management System for Organization) and ISO 13485 (Quality Management System for Medical Devices). | Online & Offline |
| 16 | Full Quality Assurance System Approval Certificate Management System Certification for Medical Devices and their equivalent International Standards certificates (BIS/CE/USFDA etc) | Online & Offline |
| 17 | Memorandum of Articles | Online & Offline |
| 18 | All the uploaded Technical bid, to be attested by a Gazette Officer or properly notarized or self attested | Online & Offline |
| 19 | General information about the bidder | Online & Offline |
| 20 | Declaration Form | Online & Offline |

| Sl. No | Document Description | Documents to be submitted |
|---|---|---|
| 21 | DPIIT approval (If required) | Online & Offline |

**II. Financial (Price) Bid in the format available with the e-procurement platform**

- Please note that the Bidder runs the risk of his bid being rejected if the price schedule contains any conditions.

**Notes to Bidders**

1. Upload the documents in ZIP format with suitable description as defined above.
2. The scanned documents shall be legible failing which they will not be considered.
3. Sign on all statements, documents, certificates uploaded owning responsibility for their correctness / authenticity.
4. All the statements copies of the certificates, documents etc., enclosed to the Technical bid shall be given page numbers on the right corner of each certificate
5. The tenderer is subjected to be blacklisted and the EMD forfeited if he is found to have mislead or furnished false information in the forms / statements / certificates submitted in proof of qualification requirements or record of performance (Please see Corrupt and Fraudulent Practices Clause)
6. All the Bidders are requested to quote with single option only, for the each item offered and please note that bids with multiple options, for any one or all of the items offered, will be rejected by the purchaser as Non-responsive.

**(On Firm letter Head)** **Annexure - I**

ANDHRA PRADESH MEDICAL SERVICES CORPORATION LTD

INSTALLATION CERTIFICATE

*(to be fiiled jointly by the Tenderer, head of user institution & Representative of the Tender Inviting Authority individually for every equipment)*

| | | | |
|---|---|---|---|
| HOSP CODE/ Hospital Name: | | | |
| Equipment Details | | | |
| EQPT CODE/ Name of the equipment: | | Purchase Order No: | |
| Make / Manufacturer | | Purchase Order Date: | |
| Model | | Purchase Amount | |
| Serial no. | | Project Name | |
| Location / Department | | | |
| Installation Start Date | | Completed Date. | |
| Comprehensive Warranty Start Date | | Comprehensive Warranty End Date: | |

| Preventive Maintenance Schedule (Specify Year & Month) | | | | |
|---|---|---|---|---|
| YEAR | Visit 1 | Visit 2 | Visit 3 | Visit 4 |
| | | | | |
| | | | | |
| | | | | |

| Contact Details | | | |
|---|---|---|---|
| SUP.CODE / Name of the Supplier | | | |
| Name of Service Engineer | | Mobile No. | |
| Service Centre Manager's name | | Mobile No. | |
| Service center address | | | |

| Accessories supplied | | | | |
|---|---|---|---|---|
| Sl. No. | Item | Qty. | Serial No. | Remarks |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| To be filled by Institution | |
|---|---|
| Whether the sticker affixed on all the key components of the equipment or on a conspicuous place in the installed room/storage area? | YES / NO (*tick one)* |
| Whether a digital Photograph of the installed equipment taken after affixing the sticker in the presence of the hospital personnel? | YES / NO |
| Whether the Demonstration of the equipment with accessories on the | YES / NO |

| | | | |
|---|---|---|---|
| technical specification/key features was conducted to the satisfaction at the time of installation? | | | |
| Whether training was conducted to the satisfaction at the time of installation? | | | YES / NO |
| Short supply items, if any | | | |
| Remarks of hospital authorities | | | |
| Recommend to release payment<br>YES □ NO □ | | The equipment is working satisfactorily YES □ NO □ | |
| The equipment was installed and handed over on<br>*(Installation date to be fiiled in by the Head of the institution or by the end user)* | | | |
| Name of Service Engr. | | Sign. | |
| Name of End User & Department<br>Mobile No. | | Sign. | |
| Name of Bio Medical Engr. & Organization | | Sign. | |
| Signature of the Superintendent.<br>Mobile No. | | Sign. & Seal | |
| Date:<br>Seal of supplier: | | Date:<br>Hospital Seal: | |

**Note: The installation report shall be submitted in a single sheet printed back to back and shall be submitted individually for each equipment installed.**

**Annexure - II**

**On Consignee letter Head**

**Dt:_____**

## ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION (APMSIDC)

THREE MONTHs PERFORMANCE CERTIFICATE

*(to be fiiled by the head of user institution individually for every equipment)*

| | | | |
|---|---|---|---|
| HOSP CODE / Hospital Name: | | | |
| SUP.CODE / Name of the Supplier | | | |
| Equipment Details | | | |
| EQPT CODE /Name of the equipment: | | Purchase Order No: | |
| Make / Manufacturer | | Purchase Order Date: | |
| Model | | Purchase Amount | |
| Serial no. | | Project Name | |
| Date of Installation | | Location / Department | |
| Whether Equipment working satisfactorily without any problem for one month? | | YES □ NO □ | |
| If No, provide details of equipment failure in the first month *(attach additional details if any in a separate sheet)* | | | |

| BREAK DOWN DETAILS | | | | |
|---|---|---|---|---|
| Break down Reported Date | Attended date | Rectified date | Attended by | Details of beak down / service |
| | | | | |
| | | | | |
| | | | | |

| | |
|---|---|
| Present status of the equipment | Working satisfactorily □ Not working satisfactorily □ |
| Recommended to settle the final payment | YES □ NO □ |
| Recommend for trial run for one more month | YES □ NO □ |
| Performance of accessories supplied | |
| Further Training | Required □ Not required □ |
| Remarks of hospital authorities | |
| Three month performance certificate was issued on *(date to be filed in by the Head of the institution or by the end user)* | |

| | | | |
|---|---|---|---|
| Name of End User & Department | | Sign. | |
| Signature of the Superintendent. | | Sign. & Seal | |
| Date: | Date: | | |

| Seal of supplier: | Hospital Seal : |
|---|---|

**Annexure - III**

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION (APMSIDC)**

WARRANTY CERTIFICATE

*(to be fiiled jointly by the Tenderer, head of user institution & Representative of the Tender Inviting Authority individually for every equipment)*

Date:

APMSIDC Supply order No: .....dated.....

The equipment ..... *(Equipment Name)* Model No..... bearing serial no ..... was installed successfully at ..... (*Institution Name*) is offered with a comprehensive warranty for a period of..... Years starting from ..... to ..... including all the following accessories;

| Sl. No | Name of the accessory | Manufacturer's name | Equipment Serial No. | Qty |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Name of the Supplier:<br>Signature:<br>Seal: | Name of the Supdt. / End User:<br>Signature:<br>Seal: |
|---|---|

**Annexure - IV**

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION (APMSIDC)**

PREVENTIVE MAINTENANCE CHECK LIST

**Equipment Name.**

| Sl. No. | Activities carried out during Preventive Maintenance visit | Visit 1 | Visit 2 | Visit 3 | Visit 4 |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |

**Annexure-V**

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION (APMSIDC)**

CALIBRATION CHECK LIST

Equipment Name

Model.

| Sl. No. | Parameters to be calibrated | Frequency of calibration required |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |

**Annexure-VI**

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION (APMSIDC)**

**List of Spare Part**

Equipment Name :

Make:

Model

| Sl. No. | Spare name | Cost (inclusive of all charges) |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |

Signature :

Date :

Name of the
Firm and address :

**Annexure-VII**

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION (APMSIDC)**

GENERAL INFORMATION ABOUT THE TENDERER

Name of the Tenderer

Registered address of the firm

State: District

Telephone. No. Fax. No. Email.

| | | | | |
|---|---|---|---|---|
| 3 | Address | | | |
| | State | | District | |
| | Telephone No. | | Fax | |
| | Email | | Website | |

Type of Firm ( Please □ relevant box)

| | | | | | | |
|---|---|---|---|---|---|---|
| 4 | Private Ltd. | | Public Ltd. | | Proprietorship | |
| | Partnership | | Society | | Others, specify | |
| | Registration No. & Date of Registration. | | | | | |
| | Nature of Bussiness ( | | | -lease □ relevant box) | | |
| 5 | Original Equipment Manufacturer | | | Authorized Dealer /Representative | | |
| | Direct Importer | | | Others, specify. | | |

**Annexure-VIII**

SERVICE CENTRE DETAILS

| TOLL FREE NUMBER, IF ANY | | | |
|---|---|---|---|
| Sl. No | Name and address of the service center (s) | Contact Details | |
| 1 | | Telephone No: | |
| | | Fax No: | |
| | | Email ID. | |
| | | Name of the Service Engr. | |
| | | Mobile No. | |
| 2 | | Telephone No: | |
| | | Fax No: | |
| | | Email ID. | |
| | | Name of the Service Engr. | |
| | | Mobile No. | |
| 3 | | Telephone No: | |
| | | Fax No: | |
| | | Email ID. | |
| | | Name of the Service Engr. | |
| | | Mobile No. | |

# Technical Specifications

APPENDIX 1

# Description of Individual Rooms in a CLMC

| Reception Area | |
|---|---|
| Area and built of room | ◗ This would be the first room at the entrance with a suggested area of approx. 6.9m X 4.2m.<br>◗ This area should be nearer to lift if situated in upper floors and should have a porch if located in ground floor. |
| Designated activities | ◗ All administrative formalities such as registering, screening and enrolment of the donor mother and tracking the process.<br>◗ Record keeping including logistics data.<br>◗ Dispensing of pasteurized DHM.<br>For dispensing, a separate counter or window would be provided. This would limit unnecessary entry and crowd into the lactation management centre.<br>◗ Provide waiting space for mothers.<br>All mothers would be suggested to remove their shoes and should be provided with hospital slippers at the reception area. |
| Equipment/logistics | ◗ Reception counter<br>◗ Intercom<br>◗ Cupboard for records<br>◗ Seating and waiting area for mothers with chairs/sofa<br>◗ Computer and printer<br>◗ Separate shoe racks for keeping shoes for mothers and hospital slippers for changing. |
| In-charge | ◗ CLMC Manager |

| Group Counselling Room | |
|---|---|
| Area and built of room | ◗ Suggested area: 4.8m X 5.5m |
| Designated activities | ◗ Group counselling session which should be open to mothers who have come for milk donation or are seeking treatment for any breast conditions hampering breastfeeding.<br>The purpose of counselling is to promote breastfeeding and encourage milk donation for the CLMC as a parallel effort. The mothers with babies in NICU/SNCU should be encouraged to join group counselling sessions. However, Lactation Support Staff should check that their need for being with their babies for feeding/expression of milk is fulfilled first. |

| Group Counselling Room | |
|---|---|
| | ◗ Thematic areas to be discussed are:<br>• Initial breast feeding, exclusive breast feeding, procedures to be followed for milk donation (including Dos and Don'ts) along with display of videos of IEC materials on IYCF, hand washing and process of milk expression and cleaning of tubing. |
| Equipment/Logistics | ◗ Chairs to accommodate 8-10 mothers or more. This will depend on the size of the counselling room.<br>◗ IEC material for display<br>◗ Video display requirements (Television, video tapes etc.)<br>◗ Breast models (mannequins) |
| In-charge | ◗ Lactation Support Staff |

| Shower and Changing Room | |
|---|---|
| Area and built of room | ◗ The suggested area: 2.4m X 2.0m |
| Designated activity | ◗ It is important for mothers to be clean and relaxed before donating milk. Showering serves two purposes - to control milk contamination and to relax the mother which may lead to better volume of donated milk.<br>◗ In case mother has already taken a shower or hesitant to take one, she may directly be given a gown to change. However, the mother should be made to/ shown how to wipe the nipples using wet cotton swabs. Cleaning nipples with alcohol swab or soap is not required. The gowns should be autoclaved and kept in a dry place.<br>◗ A dedicated shower room has been designed in layout plan. The cleanliness of the room should be maintained and it should not have an attached toilet. As the mothers usually travel long distances and are sweaty in humid conditions of the country, it is preferable to shower with a plain liquid soap (not anti-bacterial soap). For breast washing, no soap is prescribed other than daily shower as it may lead to cracked nipples. |
| Equipment/logistics | ◗ Shower with availability of hot and cold water<br>◗ Exhaust Fan<br>◗ Clean towels and gowns<br>◗ Liquid body soap dispenser |

| Milk Expression and Collection Room | |
|---|---|
| Area and built of room | ◗ Suggested area approx. 68.5 sq. m.<br>◗ This room should comprise of 5-6 well-defined milk expression areas separated by partitions/curtains where mothers can express milk in privacy.<br>◗ The use of glass door and windows is not recommended in this room.<br>◗ Entry of male members in this room should not be allowed to ensure privacy. If there is urgent need for such entry, all mothers engaged in milk expression should be alerted of this before-hand.<br>◗ The room should be a quiet place with a comforting ambience, clean environment. Arrangement for pleasant soothing music may be made to help mother relax.<br>◗ Infection control measures should be observed with highest standards.<br>◗ Rigorous hand washing with soap and water and drying with clean or disposable towel should be stringently followed before entering the room.<br>◗ Sterilized tubing, bottle and breast shield set should be packed and provided to each mother when entering the milk expression chambers.<br>◗ This can serve as a place for informal conversation between the donors.<br>◗ Mothers should not have access to any room beyond milk expression room such as cleaning/processing and dispensing rooms. |

| Milk Expression and Collection Room | |
|---|---|
| Designated activity | ◗ Expression of milk |
| In-charge | ◗ Lactation Support Staff |

**Equipment in Milk Expression room**

1. **Hand scrub** just outside this area made of steel: foot operated.
2. **Scrub station:** 90-96 cm height with water taps. Both hot water and cold water, soap liquid and scrubber.

1

2

3. **Sterile bottles** with caps and facility for labelling.
4. **Steel table**
5. **Wall mounted cupboard** for storing a) sterile bottles for collection; b) sterile tunings of breast pump which come in contact with milk; c) provision for hand written labels for identification .

3

4

5

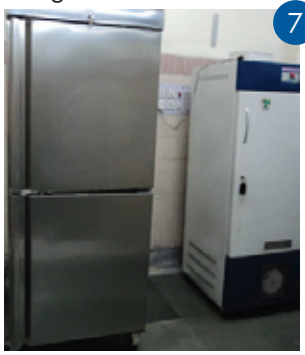
6. **One refrigerator (190l) with compressor** for mothers to keep their milk in the refrigerator under the supervision of nursing staff or by nursing staff herself.
7. **One vertical freezer** -20°C with compressor for keeping raw milk where the container is full and is not likely to be used within next 24 hours to be used by nursing staff only.

Storage of raw milk at 2° to 4°C

6

Storage of milk at –20°C

7



8. **Breast pumps** both mechanical as well as electrical hospital grade with tubing and each individual electric points usually the number is minimum 6.

8

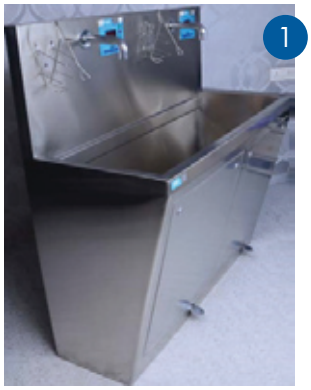
9. **Music system**
10. **Sofa** for relaxation for mothers

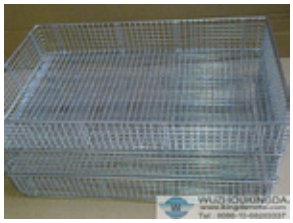
9

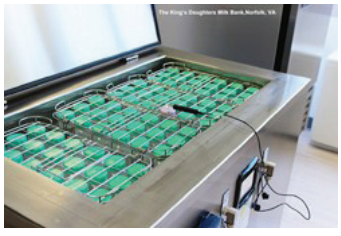
10

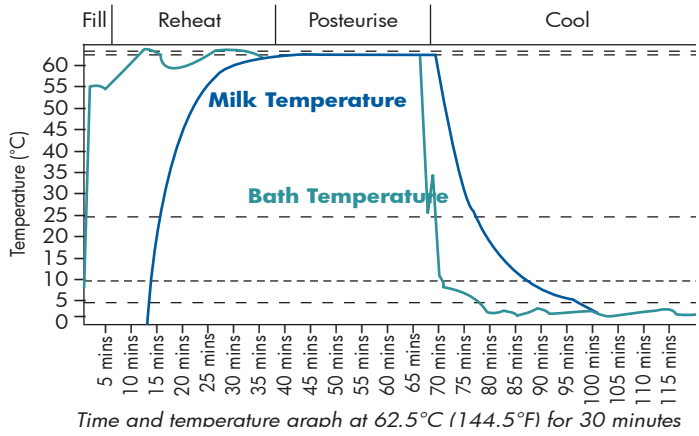
11. 2.5 ton **Split AC** for 104.50 sq. Meter i.e. Milk expression room essentially and 24,000 British thermal unit per hour (BTU per hour) along with cleaning room.

11

| Autoclaving/Cleaning Room | |
|---|---|
| Area & built of room | Suggested area 3.6 m x 3 m |
| Designated activity | To be used for cleaning, autoclaving and sealing of used bottles, tubing and washable part of breast pumps |
| In-charge | Lactation Support Staff |
| **Equipment in the Autoclaving/Cleaning Room** | |
| 1. **Scrub station:** 2 bay scrub station and shall have sloping basin to eliminate back splash along with Soap bottle shelf.<br>90-96 cm height with water taps for hot water and cold water, soap liquid and scrubber for washing and rinsing the used reusable bottles along with tubing's of the breast pump.<br>2. **Steel table with sink** to keep the bottles and tubing's after rinsing with soap water. |  1  2 |
| 3. **Kitchen basket of steel or plastic** to drain out the water.<br>4. **Geyser:** 3 Lts. Electric Water Heater, Rust proof thermoplastic Body with Triple Safety System and Neon Indicators attached to the scrub station any one tap. |  3  4 |
| 5. Washer and Thermal Disinfect or.<br>6. Hot air circulating oven. | 5   6 |
| 7. Table top autoclave machine |   7 |
| 8. **Steel table** for packing and wall mounted cupboard for storing.<br>9. **Heat sealer machine with cutter (200mm/400mm):**<br>A machine used to seal products such as cleaned tubing's for breast milk pump, packing sterile bottle containers using thermoplastic materials like plastic bags, cellophane using heat. Sealing length 300mm appx. And sealing width 8-10mm | 8    9 |
| 10. **Exhaust fan:** Must include a high quality mechanical back draft shutter that prevents outside air entering room when fan is switched off. | 10   |

| Milk Processing Room | |
|---|---|
| Area and built of room | ◗ The suggested area is 5.0m x 6.0m with glass doors to reduce risk of infection. |
| Designated activities | From milk expression and collection room DHM goes to this room for pooling and pasteurization. The activities carried out in this room are as follows:<br>◗ Thawing before pooling<br>◗ Pooling and making batch of pooled DHM<br>◗ Aliquoting in pasteurising containers.<br>◗ Pasteurization<br>◗ Sealing of post pasteurised bottles<br>◗ Labelling and documentation of Pasteurization |
| In-charge | CLMC Technician |
| **Equipment in Milk processing room** | |
| 1. **Scrub station** | |
| 2. **Refrigerator** | |
| 3. **Horizontal Deep freezer** |  |
| 4. **Stainless steel table:** 4 feet length and two feet wide as working table | |
| 5. **Conical flask** at least one - liter capacity:<br>1000 ml Conical Flask Glass with Heavy Duty Rim, Borosilicate Glass with Approx Neck O.D. 56 mm. This can be autoclaved. |  |
| 6. **Stainless steel strainer** |  |
| 7. **Stainless Steel wire mesh basket** |  |
| 8. **Laminar flow cabinet** |  |

| Milk Processing Room | |
|---|---|
| 9. **A stainless steel table** (4 feet length and two feet wide) used for transferring into small bottles for pasteurization. While alliquoting milk, one should take aspetic precautions like use of cap, mask, sterile gloves, sterile sheet, sterile flask and sterile bottle. |    |
| 10. **Cabinet for storing bottles** | |
| 11. **Milk bottles:** Reusable Milk Storage Bottles : Polypropylene. 100% free of Bisphenol – A Sterile reusable polypropylene bottles packed in sterile plastic bags. | |
| 12. **Bottle sealer with foil** |  |
| 13. **Printer and water proof label**<br>◗ Should produce high resolution Labels.<br>◗ Should print more than 60 Labels per minute.<br>◗ Resolution of 300x600 dpi.<br>◗ Should be supplied with 100 compatible labels with the following specifications:<br>• Labels should be water proof.<br>• Can be peeled off easily.<br>• Size around 100 mm x 25 mm<br>• Can also be written with hand written labels with permanent markers. |  |
| **Pasteurization prerequisite** | |
| 14. **Hot water Geyser** : 10 liters | |
| 15. **RO water system** | |
| 16. **Pipes** for outlet as per requirement of machine | |
| 17. **Air Exhaust Fan:** should be on the back side of pasteurizer : 18 cm from the floor. | |
| 18. **Split AC :** 1 ton | |
| 19. **Pasteurizer** |   |

| Milk Processing Room | |
|---|---|
| 20. **Data logger:** Holding for 30 minutes at 62.5°C and rapid cooling to 4°C within 20 minutes.<br>  <br>The data logger takes a reading of the milk temperature for every minute the milk is in the pasteurizer. The data logger also records the time and the date of the cycle. Once the pasteurization cycle is complete the information can be downloaded via the USB to the PC. This gives a permanent record of the satisfactory treatment of every batch. |  <br>*Time and temperature graph at 62.5°C (144.5°F) for 30 minutes*<br>**Temperature Graph** |
| **Storing of post pasteurized bottles** |  |

| Microbiology Laboratory | |
|---|---|
| Area and built of room | ◗ The suggested area is 5.1m x 4.0m with glass doors.<br>◗ The room should have a level II bio-safety cabinet and a level table with a Bunsen burner.<br>◗ It should have adequate surface in room that is clean, well-lit, well-ventilated, and reasonably free of dust and drafts.<br>◗ The microbial density of air in working area, measured in fallout pour plates taken during plating, should not exceed 15 colonies/plate during 15 min exposure. |
| Designated activity | ◗ Pre and Post-pasteurization milk testing is carried out here.<br>◗ Post-pasteurisation milk sample is taken from test bottle identified per batch. Colony count is performed.<br>◗ In case the milk sample tests positive as per norms, the batch of bottles from which this sample is collected should be discarded and proper documentation should be maintained along with back tracking of mothers.<br>◗ All general safety measures of a microbiological laboratory should be followed. |
| In-charge | Microbiologist |
| **Equipment in Microbiological Laboratory** | |
| 1. **Laminar flow cabinet** (Bio- safety cabinet)<br>It is used in microbial inoculation and isolation studies as well as sterile storage of materials. |  |

| Microbiology Laboratory | |
|---|---|
| 2. **Refrigerator: 190 liters**<br>This refrigerator is used for the storage of the stock solutions, chemicals, kits and nutrient media that should be maintained at certain temperatures. | |
| 3. **Microscope with oil immersion lens** | |
| 4. **Hot air Oven** with temperature and time regulation. |  |
| 5. **Bunsen burner with Gas** | |
| 6. **PH meter** |  |
| 7. **Lab Incubator** |  |
| 8. **Table top autoclave** | |
| 9. **Water bath** |  |
| 10. **Shaker Incubator** |  |

| Microbiology Laboratory | |
|---|---|
| 11. **Media:**<br>Agar, CLED agar media and MacConkey media<br>CLED (cysteine-, lactose-, and electrolyte-deficient) agar is a differential culture medium for use in isolating and enumerating bacteria.<br>This is a valuable non-inhibitory growth medium used in the isolation and differentiation of urinary organisms and also of milk. |   |
| 12. **Analytical balance** | |
| 13. **Exhaust fan** | |
| 14. **Window 1 ton AC** | |

| Storage Area | |
|---|---|
| Area and built of room | ◗ The suggested area for this room is 4.4m x 6.0m. |
| Designated activities | ◗ Storage of post pasteurized and tested milk with separate space to store pre term and term milk<br>◗ Regular temperature recording as per requirement<br>◗ Dispensation of DHM by a counter/window |
| Equipment/Logistics | ◗ Refrigerator<br>◗ Deep freezer with 24x7 power back up |
| In-charge | ◗ CLMC Technician/Lactation Support Staff |
| **Equipment in Storage area** | |
| 1. **Vertical single door and Double door deep freezer**<br>Milk storage room must have electrical point for running<br>Two vertical –20°C freeze with voltage stabilizer and back up electrical supply. (Preferably double door) and<br>One Vertical refrigerator for +2 to +4°C with voltage stabilizer<br>Milk is stored in **deep freezer** at minus 20 degree.<br>◗ First batch going inside the deep freezer should be the first batch coming out.<br>◗ Milk kept in sealed bottles for dispensing: Dispense in a way that the earliest fortnight collected milk is dispensed first. |  |
| 2. A small 2 feet by 2 feet **steel table** | |
| 3. A wall mounted **cupboard** for storing records along the entire wall | |
| 4. Scrub station | |
| 5. Air-condition Spit AC : 2 ton | |

| Sluice Room | |
|---|---|
| Area and built of room | ◗ The designated area should be 2.0m x 2.1m. |
| Designated activity | ◗ This room should contain a water reservoir with both inlet and outlet.<br>◗ The water reservoir should be used to clean dirty mops, towel and other laundry before they're put in the washing machine. |

| Sluice Room | |
|---|---|
| | ◗ The ventilation system in the soiled utility/holding room should be engineered to have negative air pressure with air 100% exhausted to the outside.<br>◗ Activities to be carried out in this room are:<br>• Cleaning and washing.<br>• Storing cleaning equipment and mobilizing to respective room. |
| **Sluice room or Janitor room details with suggested equipment** | |
| **SLUICE ROOM:** 2 rooms or two parts of one big room | |
| 1. **Washing part:** This part of room will contain a water reservoir with both inlet and Outlet. Minimum dimension will be 4ft.wide x 3ft.front to back x 2ft. deep. |  |
| 2. **Storage part:** It is the part of room for storage of clean mops, materials for cleaning, gloves and boots which are worn during cleaning. Other Housekeeping objects such as three bucket trolley should also be kept here. |  |
| **Details of cleaning equipment** | |
| 1. 2 bucket trolley with Mop Wringer with liquid detergent , soap and phenyl |  |
| 2. Broom and stick with bucket and dust pan |  |
| 3. Dust mop |  |
| 4. Magic mop set with 360° Rotating Pole & Steel Bucket preferably | |
| 5. Janitor trolley with multiple function or **Multi-Function Janitor** Cart :1) Bag Holder,2) Large Shelves, 3) Double Mop Bucket and Wringer. |  |

| Sluice Room | |
|---|---|
| 6. SS Room Dust Bins - 3L, made of stainless steel, covered, foot operated. At least 8 number and must be distributed in various places | |
| 7. Water mop attached to a steel rod with mop replacement Effective and scientific way is to keep the mop in the reverse way along with handle<br>Large Mop Upside Down Isolated on White |  <br>   |
| 8. Window wiper |  |
| 9. **Microfiber cloth** for cleaning the floor (to be used with the mop handle)<br>**Microfiber cloth** for *cleaning and mopping.*<br>Microfibers are usually 0.9 or less deniers in diameter. For comparison a human hair is about 20 deniers, silk is about 4 deniers. Most microfiber cleaning cloths are made from split microfibers, which have even smaller strands; so small that they develop an atomic charge which attracts dirt and oils. This also means that their is more surface area in microfiber products which contributes to theirevaporative efficiency, i.e. they dry faster than any other fabric. |   <br>  |
| 10. One Exhaust fan | |
| 11. One ceiling fan within the sluice room. | |
| 12. Folding laundry trolley for used linen and gown. |   |
| 13. Proper dress with Rubber gloves and gum boots. | |
| 14.Toilet cleaning would require separate rubber gloves and shoes along with toilet brushes and liquid cleaners as per hospital policy. | |
| 15. Misc. Like squeeze, sponge, sponge mop, Bucket, scrub, Brush, garbage can color coded. |  |

APPENDIX

5

# Equipment Specifications

## Essential Equipments

### 1. Breast Pumps

| MEDICAL DEVICE SPECIFICATION (Including information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| **Breast Pump** | | |
| Version no. : | | 1 |
| Date: | | Sept 2014. |
| Done by : (name/institution) | | HCT/NHSRC |
| **Name and Coding** | | |
| GMDN name | | NA |
| GMDN code(s) | | NA |
| **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 devices powered by electricity or batteries. |
| 1.2 | Used by clinical department/ ward | NICU and PICU |
| **Technical specifications for Hospital Grade Electric Breast Milk Pumps** | | |
| **2. TECHNICAL CHARACTERISTICS** | | |
| 2.1 | Technical characteristics (specific to this type of device) | 1. Pumping frequency 30 to 80 CPM and user adjustable.<br>2. Cushion inserted inside the breast cup so that it does not hurt the mother.<br>3. Suction Pressure 100 to 250 mm hg; user adjustable.<br>4. Able to express milk from both breasts simultaneously.<br>5. Collection bottles can be used for storage of milk.<br>6. Double alternating pumps/double cycling pumps.<br>7. Should be motorized breast pump units.<br>8. Should be hospital grade. |
| 2.2 | User's interface | Manual |

| MEDICAL DEVICE SPECIFICATION (Including information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| 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, $CO_2$ ....)** | | |
| 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** | | |
| 5.1 | Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system) | 1. Reusable collection bottles along-with breast cups - 10 sets.<br>2. All kinds of tubes - 12 sets (if applicable).<br>3. Breast pump Valve and Membrane (Pack of 4 Valves and 2 membranes) 25 No.<br>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 ...) | 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.<br>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 | 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 | 1. Should be CE (EU)/FDA (US) approved product.<br>2. Manufacturer/supplier should have ISO 13485 certificate for quality standard.<br>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. |

| MEDICAL DEVICE SPECIFICATION (Including information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| **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 | 1. Warranty of three years with free servicing (min. 3) during warranty.<br>2. AMC rates should not be greater than 3% of original cost. |
| **10. DOCUMENTATION** | | |
| 10.1 | Operating manuals, service manuals, other manuals | 1. User and maintenance manuals to be supplied in English.<br>2. Certificate of calibration and inspection to be provided.<br>3. List to be provided of equipment and procedures required for local calibration and routine maintenance.<br>4. List to be provided of important spares and accessories, with their part numbers and cost.<br>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

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| **Milk Container** | | |
| Version no. : | | 1 |
| Date: | | JULY 2016. |
| Done by : (name/institution) | | HCT/NHSRC |
| **Name and Coding** | | |
| GMDN name | | NA |
| GMDN code(s) | | NA |
| **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 |
| **Technical** | | |
| **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.<br>2. Milk containers are of two types:<br>a. Polypropylene BPA free<br>b. Glass Containers |

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| 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, $CO_2$ ....)** | | |
| 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 |
| **Bidding/Procurement Terms/Donation Requirements** | | |
| **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** | | |
| 7.1 | Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international | 1. The material of construction should be of food grade. |
| **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. |

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| **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.<br>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.<br>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

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| Version no.: | | 1.0 |
| Date: | | 6/4/2016 |
| Done by : (name/institution) | | HCT/NHSRC |
| NAME AND CODING | | |
| GMDN name | | Milk Pasteuriser |
| GMDN code(s) | | NA |
| **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. |
| **Technical** | | |
| **2. TECHNICAL CHARACTERISTICS** | | |
| 2.1 | Technical characteristics (specific to this type of device) | 1. Inner and outer jacket made of stainless steel 304 grade<br>2. Easy to operate & handle.<br>3. Standard motor and gear box.<br>4. Outlet valve S.S.304 with TC clamp.<br>5. High speed stirrer for mixing.<br>6. Capacity for heating a minimum of 16 samples of milk with each sample jar not less than 330 cc volume.<br>7. Tank insulated glass wood.<br>8. Temperature gauge for showing temperature. |

| MEDICAL DEVICE SPECIFICATION<br>(Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| | | 9. Rotation Controller regulator having varying speed from 10 to 100 rotations per minute.<br>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 | 1. Pasteurizer should be equipped with system that can heat the milk up to 63°C with sensitivity of ± 0.5°C with minimum fluctuation of temperature.<br>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.<br>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.<br>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.<br>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.<br>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.<br>7. The water holding tank of pasteurizer should be self-drain type.<br>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.<br>9. In case of semi-automatic equipment, it should have the following alarm systems:<br>a After achieving set temperature.<br>b Three minutes before completion of holding time for warning.<br>c At the completion of holding time.<br>d Achieving cooling set temperature (4°C) from 62.5°C in maximum 30 minutes.<br>e Data logging system to record and retrieve all the data for analysis, evaluation and corrective action in appropriate formats to detect deviation.<br>f Automatic water level maintenance in heating and cooling shaker bath.<br>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 | |

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| 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. |
| **Bidding/Procurement Terms/Donation Requirements** | | |
| **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.<br>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.<br>2. Manufacturer and Supplier should have ISO 13485 certification for quality standards.<br>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.<br>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.<br>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. |

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| **10. DOCUMENTATION** | | |
| 10.1 | Operating manuals, service manuals, other manuals | Should provide 2 sets (hard copy and soft copy) of:<br>1. User, technical and maintenance manuals to be supplied in English/ Hindi language along with machine diagrams.<br>2. List of equipment and procedures required for local calibration and routine maintenance.<br>3. Service and operation manuals (original and copy) to be provided.<br>4. Advanced maintenance tasks documentation.<br>5. Certificate of calibration and inspection.<br>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.<br>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

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| Version no.: | | 1.0 |
| Date: | | JULY 2016 |
| Done by : (name/institution) | | HCT/NHSRC |
| **Name and Coding** | | |
| GMDN name | | Laminar Air Flow |
| GMDN code(s) | | NA |
| **General** | | |
| **1. 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 |
| **Technical** | | |
| **2. TECHNICAL CHARACTERISTICS** | | |
| 2.1 | Technical characteristics (specific to this type of device) | ◗ Working area: 4 x 2 x 2 feet.<br>◗ Hepa Filter efficiency 99.99% for .3u particle or better.<br>◗ Cleanliness: Class 100<br>◗ Particle retention: 0.3 micron.<br>◗ Illumination > 700 LUX.<br>◗ Noise level < 66 dB |

| MEDICAL DEVICE SPECIFICATION<br>(Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| | | ◗ Power supply: 220/240 V Single phase, 50 Hz AC.<br>◗ Vertical Airflow.<br>◗ Stainless Steel (Type 304) Construction.<br>◗ Two glass outlet in working Area; one on each side wall.<br>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.<br>2. Hepa Filter for Chamber- 1 nos.<br>3. Gas Burner (Bunsen burner) - 2 nos. |
| **Bidding/Procurement Terms/Donation Requirements** | | |
| **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.<br>2. Manufacturer and supplier should have ISO 13485 certification for quality standards.<br>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).<br>Safety and operation check before handover. |

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| 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.<br>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:<br>1. User, technical and maintenance manuals to be supplied in English/ Hindi language along with machine diagrams.<br>2. List of equipment and procedures required for local calibration and routine maintenance.<br>3. Service and operation manuals (original and copy) to be provided.<br>4. Advanced maintenance tasks documentation.<br>5. Certificate of calibration and inspection.<br>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.<br>Any Contract (AMC/CMC/ad-hoc) to be declared by the manufacturer. |
| 11.2 | Recommendations or warnings | 2. NA |

## 5. REFRIGERATOR

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| Version no. : | | 1.0 |
| Date: | | July 6, 2016 |
| Done by : (name/institution) | | HCT/NHSRC |
| **Name and Coding** | | |
| GMDN name | | Refrigerator |
| GMDN code(s) | | NA |
| **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 Departments. |

| MEDICAL DEVICE SPECIFICATION<br>(Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| **Technical** | | |
| **2. TECHNICAL CHARACTERISTICS** | | |
| 2.1 | Technical characteristics (specific to this type of device) | 1. Should be frost free Refrigerator.<br>2. Should have a capacity of 300L.<br>3. Should have EEC 4-star rating or above.<br>Should have inbuilt protection for voltage fluctuation or to be supplied with external stabilizer of adequate 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<br>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 | 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);<br>Spare parts (main ones);<br>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. |
| **Bidding/Procurement Terms/Donation Requirements** | | |
| **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.<br>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 |

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| **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.<br>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).<br>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 | 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:<br>1. User, technical and maintenance manuals to be supplied in English/ Hindi language along with machine diagrams.<br>2. List of equipment and procedures required for local calibration and routine maintenance.<br>3. Service and operation manuals (original and copy) to be provided.<br>4. Advanced maintenance tasks documentation.<br>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.<br>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

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| Version no. : | | 1.0 |
| Date: | | July 6, 2016 |
| Done by : (name/institution) | | HCT/NHSRC |
| **Name and Coding** | | |
| GMDN name | | Deep Freezer |

| MEDICAL DEVICE SPECIFICATION<br>(Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| GMDN code(s) | | NA |
| **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. |
| **Technical** | | |
| **2 TECHNICAL CHARACTERISTICS** | | |
| 2.1 | Technical characteristics (specific to this type of device) | ◗ 250L hard top double door (preferred) with hinges, lockable preferred.<br>◗ Manage temperature between –20°C to –22°C<br>◗ 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<br>◗ PUF insulated steel sheet sandwich construction<br>◗ Provision to fix 5 baskets to store bottles.<br>◗ Freezer should be lockable.<br>◗ Audio Visual high and Low temperature alarms.<br>◗ Stainless Steel Interior.<br>◗ Castors free easy mobility.<br>◗ Compatible Voltage Stabilizer (2 kVA) of standard Brands/ISI Mark.<br>◗ Temp. Thermostat regulator.<br>◗ Temp. Indicator Lamp.<br>◗ Digital temperature control and LED door display and systems monitoring and reporting technology.<br>◗ Epoxy covered SS metallic e external case.<br>◗ Strong, moulded, chemically resistant abs interior.<br>◗ 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 | 1. Automatic control of temperature.<br>2. Automatic flow diversion.<br>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 Requirements | Power Supply: 220-240Vac, 50-60HZ Power Supply. |
| 4.2 | Battery operated | No |

| MEDICAL DEVICE SPECIFICATION<br>(Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| 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 |
| **Bidding/Procurement Terms/Donation Requirements** | | |
| **6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS** | | |
| 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.<br>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.<br>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).<br>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:-<br>1. User, technical and maintenance manuals to be supplied in English/ Hindi language along with machine diagrams.<br>2. List of equipment and procedures required for local calibration and routine maintenance.<br>3. Service and operation manuals (original and copy) to be provided.<br>4. Advanced maintenance tasks documentation.<br>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 |

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| **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.<br>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. |

## 7. HOT AIR OVEN

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| Version no. : | | 1.0 |
| Date: | | July 6, 2016 |
| Done by : (name/institution) | | HCT/NHSRC |
| **Name and Coding** | | |
| GMDN name | | HOT AIR OVEN |
| GMDN code(s) | | NA |
| **General** | | |
| **1. USE** | | |
| 1.1 | Purpose | Hot air ovens are electrical devices which use dry heat to sterilize. They can be operated using a thermostat to control the temperature. Their double walled insulation keeps the heat in and conserves energy, the inner layer being a poor conductor and outer layer being metallic. There is also an air filled space in between to aid insulation. An air circulating fan helps in uniform distribution of the heat. These are fitted with the adjustable wire mesh plated trays or aluminium trays and may have an on/off rocker switch, as well as indicators and controls for temperature and holding time. |
| 1.2 | Used by | The machine is to be used in human milk banks/laboratories. |
| **Technical** | | |
| **2. TECHNICAL CHARACTERISTICS** | | |
| 2.1 | Technical characteristics (specific to this type of device)<br>Temp Required 121°C | 1. Should be operated on 230V, 50Hz single phase AC supply and having temperature ranging between 50–200°C.<br>2. Should be made of double walled chamber -Inner made of stainless steel SS 304 grade and powder coated outer surface.<br>3. Should provide with three heating elements on three sides of the equipment for uniform temperature on all shelves.<br>4. Should be provided with air circulating fan.<br>5. Should provide with a variable microprocessor based digital temperature controller with digital display and thermometer should be provided separate.<br>6. Should have a minimum chamber size of (LxBxH) 450x450x450 with 2 stainless steel trays with holes.<br>7. Should provide with air ventilations. |
| 2.2 | User's interface | Automatic/Manual |
| 2.3 | Product Safety Features | ◗ Hot air oven making use of dry heat for sterilizing of articles.<br>◗ Features thermostat based controls for temperature.<br>◗ Digitally controlled interface for maintaining of the temperatures. |

| MEDICAL DEVICE SPECIFICATION<br>(Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| | | ◗ Features double-walled construction.<br>◗ System designed to hold in heat as well as bring reduction in energy output.<br>◗ Double walled construction with inside from stainless steel as well as outside made available in mild steel finish.<br>◗ Superior quality enamel paint as well as glass wool insulation support provided between two walls that provides for maximum thermal efficiency.<br>◗ Silent hot air blower support that provides for uniform air movement as well as improved temperature distribution.<br>◗ Featuring polished 304 grade stainless steel interior that provides for corrosion resistant usage as well as long lasting operation support.<br>◗ Thermostat based safety device support.<br>◗ Digital temperature controller cum indicator support. |
| 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 Requirements | Power Supply: 220-230Vac, 50HZ 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);<br>Spare parts (main ones);<br>Consumables/reagents (open, closed system) | NA |
| **Bidding/Procurement Terms/Donation Requirements** | | |
| **6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS** | | |
| 6.1 | Atmosphere/Ambiance (air conditioning, humidity, dust ...) | NA |
| 6.2 | User's care, Cleaning, Disinfection and Sterility issues | To be detailed by the manufacturer |

| MEDICAL DEVICE SPECIFICATION<br>(Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| **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.<br>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).<br>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 |
| 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:-<br>1. User, technical and maintenance manuals to be supplied in English/ Hindi language along with machine diagrams.<br>2. List of equipment and procedures required for local calibration and routine maintenance.<br>3. Service and operation manuals (original and copy) to be provided.<br>4. Advanced maintenance tasks documentation.<br>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.<br>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. |

## 8. AUTOCLAVE

| FLASH STERILIZER WITH TROLLEY | | |
|---|---|---|
| Version no.: | | 1 |
| Date: | | 5/12/2014 |
| Done by: (name/institution) | | HCT/NHSRC |

| FLASH STERILIZER WITH TROLLEY | | |
|---|---|---|
| **Name and Coding** | | |
| GMDN name | | Flash Sterilizer with trolley |
| GMDN code | | NA |
| **General** | | |
| **1. USE** | | |
| 1.1 | Clinical purpose | Used for sterilization of unwrapped equipment at 132°C for three to ten minutes using steam. |
| 1.2 | Used by clinical department/ ward | Operation Theatre |
| **Technical** | | |
| **2. TECHNICAL CHARACTERISTICS** | | |
| 2.1 | Technical characteristics (specific to this type of device) | 1. 18–23 litres table-top model.<br>2. No utility connection other than drainage and electricity.<br>3. In-built dryer.<br>4. Constructed of 304 or 316 stainless steel<br>5. Automatic cycle control with printer |
| 2.2 | User's interface | Manual |
| 2.3 | Software and/or standard of communication (wherever required) | Stages should be displayable. |
| **3. PHYSICAL CHARACTERISTICS** | | |
| 3.1 | Dimensions (metric) | As per capacity |
| 3.2 | Weight (lbs, kg) | Max:900 gm |
| 3.3 | Capacity | 18 to 20 litre |
| 3.4 | Noise (in dBA) | Noise-free |
| 3.5 | Heat dissipation | Heat Dissipation: Should maintain nominal Temp and the heat should be disbursed through an cooling mechanism |
| 3.6 | Mobility, portability | Table with castors and brakes |
| **4. ENERGY SOURCE (electricity, UPS, solar, gas, water, $CO_2$...)** | | |
| 4.1 | Power Requirements | Recharging unit: Input voltage- 220V-240V AC, 50Hz |
| 4.2 | Battery operated | Yes |
| 4.3 | Tolerance (to variations, shutdowns) | NA |
| 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. Trays-2 nos |
| **Bidding/Procurement Terms/Donation Requirements** | | |
| **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 40°C and relative humidity of 15 to 90% in ideal circumstances.<br>2. Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50°C and relative humidity of 15 to 90%. |

| FLASH STERILIZER WITH TROLLEY | | |
|---|---|---|
| 6.2 | User's care, Cleaning, Disinfection & Sterility issues | 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.<br>2. Sterilization not required. |
| **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.<br>2. Manufacturer and Supplier should have ISO 13485 certification for quality standards.<br>3. Electrical safety conforms to the standards for electrical safety IEC 60601-General requirements (or equivalent BIS Standard)<br>4. Shall meet internationally recognised for Electromagnetic Compatibility (EMC) for electromedical equipment: 61326-1.<br>5. Certified to be compliant with IEC 61010-1 ,IEC 61010-2-40 for safety. |
| 7.2 | Local and/or international | Manufacturer/supplier should have ISO 13485 certificate for quality standard. |
| **8. TRAINING AND INSTALLATION** | | |
| 8.1 | Pre-installation requirements: nature, values, quality, tolerance | 1. Availability of 15 amp socket.<br>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.<br>2. Advanced maintenance tasks required shall be documented. |
| **9. WARRANTY AND MAINTENANCE** | | |
| 9.1 | Warranty | 3 years |
| 9.2 | Mantenance tasks | 1. Maintenance manual detailing.<br>2. Complete maintenance schedule. |
| 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:<br>1. User, technical and maintenance manuals to be supplied in english/ hindi language along with machine diagrams.<br>2. List of equipment and procedures required for local calibration and routine maintenance.<br>3. Service and operation manuals (original and copy) to be provided;<br>4. Advanced maintenance tasks documentation.<br>5. Certificate of calibration and inspection. |
| 10.2 | Other accompanying documents | 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) | Contact details of manufacturer, supplier and local service agent to be provided.<br>Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer. |
| 11.2 | Recommendations or warnings | Any warning signs would be adequately displayed. |

## 9. ICE BOX WITH COLD GEL PACK

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| Version no. : | | 1.0 |
| Date: | | July 6, 2016 |
| Done by : (name/institution) | | HCT/NHSRC |
| **Name and Coding** | | |
| GMDN name | | Ice box with cold gel pack. |
| GMDN code (s) | | NA |
| **General** | | |
| **1. USE** | | |
| 1.1 | Purpose | Ice box is portable air conditioning system without the need of electrical power. It is used with cold gel packs to maintain the cold chain of milk during the transport. |
| 1.2 | Used by | The ice box is to be used in CLMCs. |
| **Technical** | | |
| **2. TECHNICAL CHARACTERISTICS** | | |
| 2.1 | Technical characteristics (specific to this type of device) | 1. Insulated box for refrigerated samples: Insulated box made of PVC or HDPE with minimum 3 mm inner & outer wall thickness with insulation of polyurathine foam having foam density of 38-42 Kg/ cubic metre. The product stored at 4°C should not rise by more than 1°C in 24 hours at ambient temp of 40°C. The box should pass the drop test of 1.5 metre.<br>2. Insulated box for frozen samples: Insulated box made of PVC or HDPE with minimum 3 mm inner & outer wall thickness with insulation of polyurathine foam having Foam Density of 38-42 Kg/ Cubic Meter. The product stored at -18°C temp should not rise by more than 1°C in 24 hours at ambient temp of 40°C. The box should pass the drop test of 1.5 metre. |
| 2.2 | User's interface | Manual |
| 2.3 | Product Safety Features | |
| 2.4 | Software and/or standard of communication (wherever required) | NA |
| **3. PHYSICAL CHARACTERISTICS** | | |
| 3.1 | Dimensions (metric) | 10" x 13" x 18" |
| 3.2 | Weight (lbs, kg) | 10 lbs |
| 3.3 | Configuration | NA |
| 3.4 | Noise (in dBA) | NA |
| 3.5 | Heat dissipation | NA |
| 3.5 | Mobility, portability | |
| **4. ENERGY SOURCE (electricity, UPS, solar, gas, water, $CO_2$ ....)** | | |
| 4.1 | Power Requirements | NA |
| 4.2 | Battery operated | No |
| 4.3 | Tolerance (to variations, shutdowns) | NA |

| MEDICAL DEVICE SPECIFICATION (Including Information on the following where relevant/appropriate, but not limited to) | | |
|---|---|---|
| 4.4 | Protection | NA |
| 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 |
| **Bidding/Procurement Terms/Donation Requirements** | | |
| **7. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS** | | |
| 7.1 | Atmosphere/Ambiance (air conditioning, humidity, dust ...) | NA |
| 7.2 | User's care, Cleaning, Disinfection and Sterility issues | To be detailed by the manufacturer. |
| 7.3 | Standards and Safety | |
| 7.4 | Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/ or international | Insulation thickness should be minimum 50 mm. |
| **8. TRAINING AND INSTALLATION** | | |
| 8.1 | Pre-installation requirements: nature, values, quality, tolerance | NA |
| 8.2 | Requirements for sign-off | Certificate of inspection from the manufacturer. |
| 8.3 | Training of staff (medical, paramedical, technicians) | NA |
| **9. WARRANTY AND MAINTENANCE** | | |
| 9.1 | Warranty | NA |
| 9.2 | Maintenance tasks | To be included in State Equipment Maintenance Program |
| 9.3 | Service contract clauses, including prices | NA |
| **10. DOCUMENTATION** | | |
| 10.1 | Operating manuals, service manuals, other manuals | User manuals to be supplied in English/Hindi. |
| 10.2 | Recommendations for maintenance | NA |
| **11. NOTES** | | |
| 11.1 | Service Support Contact details (Hierarchy Wise; including a toll free/landline number) | NA |
| 11.2 | Recommendations or warnings | NA |

## 10. OTHER EQUIPMENT SPECIFICATIONS

### A. SHAKER WATER BATH

### FUNCTION

Bottles/containers filled with liquid/fluid will be submerged in the water bath chamber of the instrument. The temperature of water bath can be controlled at a particular temperature as well as the shaker speed can also be controlled at a particular speed to maintain a uniform temperature at every parts of the bottle fluid.

### SPECIFICATIONS

- It will contain a micro-processor controlled temperature regulator, an electronic timer device and a shaker speed controller.
- The temperature of water bath can be maintained at 62.5 degree Centigrade during the process by adjusting the micro-processor controlled temperature regulator.
- It should have a digital temperature indicator showing the bath temperature.
- There should be a system with which the shaker speed can be controlled.
- The bath chamber must accommodate at least 12–15 polypropylene-make bottles of height 10 cm and 5.5 cm diameter.
- Bottles will be submerged during the process; the water level can be adjusted manually.
- The bottles can be placed on removable stainless steel tray houses and fitted with lotus clamps.
- The inner chamber and outer body should be made of stainless steel.
- It should have a welded stainless steel construction CE marking.
- The instrument will work in the power supply of 230 V 50Hz single phase.
- Free delivery & installation and on site demonstration & training are required to be provided.
- **Warranty:** One-year warranty from the date of installation.

| **BINOCULAR MICROSCOPE** | | |
|---|---|---|
| Version no. : | | 1 |
| Date: | | 5/12/2014 |
| Done By: (Name/institution) | | HCT/NHSRC |
| GMDN name | | Binocular Microscope |
| GMDN Code | | NA |
| **General** | | |
| **1. USE** | | |
| 1.1 | Clinical Purpose | Binocular microscope is simply a microscope that lets the viewer use both eyes. The microscope has 2 eye lenses. The development of the double eye piece microscope was adapted to reduce the eyestrain and muscular strain that typically results from traditional microscopes. |
| 1.2 | Used by clinical department/ ward | Clinical labs. |

| BINOCULAR MICROSCOPE | | |
|---|---|---|
| **Technical** | | |
| **2. TECHNICAL CHARACTERISTICS** | | |
| 2.1 | Technical characteristics (specific to this type of device) | 1. Body-Single mould sturdy stand, inclined Binocular body 30 °, 360° rotatable head.<br>2. Eyepieces-Highest quality 10 X/20mm wide angle anti fungus field eyepiece. One with pointer. Diopter adjustment must be present on both eye pieces.<br>3. Objectives-Parfocal, antifungus coated 4x, 10x, 40x and 100x (oil immersion) with semi planner achromatic correction. Objective should be well centered even if their position on turret is changed.<br>4. Optical system-Infinity corrected.<br>5. Stage - Double plate rackless horizontal mechanical stage preferably 100 x 140 mm with fine vernier graduations designed with convenient coaxial adjustment for slide manipulation preferably through 30 x 70 mm double slide holder.<br>6. Sub stage-Abe condenser focusable, continuously variable iris diaphragm<br>7. Illuminator-Built-in LED light source with white light with intensity control and LED life of more than 10, 000 Hrs.<br>8. Finish-A durable textured acid resistant finish.<br>9. Battery backup : minimum 1 Hour.<br>10. Nose piece: Backward tilted revolving nose piece suitable to accommodate four objectives with click stop and rubber grip.<br>11. Focusing: Coaxial coarse and fine focusing knob, capable of smooth, fine focusing movement sensitivity; minimum: 300 micron; focusing stop for slide safety. |
| 2.2 | User's interface | Manual |
| 2.3 | 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 | Capacity | NA |
| 3.4 | Noise (in dBA) | NA |
| 3.5 | Heat dissipation | NA |
| 3.6 | Mobility, portability | Portable |
| **4 ENERGY SOURCE (electricity, UPS, solar, gas, water, $CO_2$ ....)** | | |
| 4.1 | Power Requirements | Input voltage- single/3-phase |
| 4.2 | Battery operated | No |
| 4.3 | Tolerance (to variations, shutdowns | NA |
| 4.4 | Protection | Should have over-charging cut-off with visual symbol. |
| 4.5 | Power consumption | Less than 2 W. |
| **5. ACCESSORIES, SPARE PARTS, CONSUMABLES** | | |
| 5.1 | Accessories(mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system) | Should provide with wooden storage box, dust cover, immersion oil. |

| BINOCULAR MICROSCOPE | | |
|---|---|---|
| **Bidding/Procurement Terms/Donation Requirements** | | |
| **6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS** | | |
| 6.1 | Atmosphere / Ambiance (air conditioning, humidity, dust ...) | 1. Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances.<br>2. Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. |
| 6.2 | User's care, Cleaning, Disinfection & Sterility issues | 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.<br>2. Sterilization not required. |
| **7. STANDARDS AND SAFETY** | | |
| 7.1 | Certificates (premarket, sanitary, ..); Performance and safety standards (specific to the device type); Local and/ or international | 1. Should be FDA/CE/BIS approved product.<br>2. Manufacturer and Supplier should have ISO 13485 certification for quality standards.<br>3. Electrical safety conforms to the standards for electrical safety IEC 60601-General requirements (or equivalent BIS Standard)<br>4. Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety |
| 7.2 | Local and/or international | Manufacturer / supplier should have ISO 13485 certificate for quality standard. |
| **8. TRAINING AND INSTALLATION** | | |
| 8.1 | Pre-installation requirements: nature, values, quality, tolerance | 1. Availability of 5 amp socket;<br>2. Safety and operation check before handover; |
| 8.2 | Requirements for sign of | 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;<br>2. Advanced maintenance tasks required shall be documented |
| **9. WARRANTY AND MAINTENANCE** | | |
| 9.1 | Warranty | 3 years |
| 9.2 | Maintenance tasks | 1. Maintenance manual detailing;<br>2. Complete maintenance schedule; |
| 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:-<br>1. User, technical and maintenance manuals to be supplied in English/ Hindi language along with machine diagrams;<br>2. List of equipment and procedures required for local calibration and routine maintenance;<br>3. Service and operation manuals (original and copy) to be provided;<br>4. Advanced maintenance tasks documentation;<br>5. Certificate of calibration and inspection |
| 10.2 | Other accompanying documents | List of important spares and accessories, with their part numbers and cost; |

| BINOCULAR MICROSCOPE | | |
|---|---|---|
| **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;<br>Any Contract (AMC/CMC/ad-hoc) to be declared by the manufacturer; |
| 11.2 | Recommendations or warnings | Any warning signs would be adequately displayed |

### B. BOTTLE SEALER

### FUNCTION

Specifically designed to avoid leakage of tank water into the breast milk bottle during the heating and cooling cycles of the breast milk pasteurization process. Sealing the breast milk bottles insures that mother's breast milk retains its sterilization properties, and that no leakage occurs in the bottle while the milk pasteurization process takes place in the heating/cooling cycles, and after the breast milk is stored for later usage.

### SPECIFICATION

This equipment is intended to seal metal foiled wafer inside the capped containers. Heating takes place in the metal foil and conducts heat to its plastic coating and subsequently causes the container material to melt and fuse. Pressure is normally applied to the joint by means of the torque exerted by the screwed cap and it is obviously essential that the foil coating is compatible with the particular material.

The package should consist of the induction heating generator and hand applicator.

### C. WASHER & THERMAL DISINFECTOR

### SPECIFICATIONS

1. Single door Washer Disinfector with Thermal Disinfection & Cleaning, in a single closed system. Front loader with LCD Display. Thermal disinfection should be carried out at more than 90° C.
2. Washer shall be able to wash instruments, trays, bottles, dishes etc.
3. The washer Disinfector should be microprocessor/PLC based with pre-set programs as well as option of at least 3 customize programs for cleaning and disinfection. Indicators for operation and programming of current cycle status and alarms (audio/video), program running date & time, error messages etc. RS 232 port for printer connection to monitor and validate washing phases
4. Should have at least 1 automatic Dispenser pumps for liquid cleaning agents/acidic agents.
5. Should have powerful circulation pump for efficient cleaning of the instruments.
6. Washer Disinfector should be made from high grade stainless steel AISI304. The wash chamber should have rounded corners & self-cleaning tank for easy cleaning & drainage.
7. Electrical door lock, Program failure check, audio/video alarms, should have sensors for temperature monitoring and control.
8. Cold & Hot water connections. Electrical connection: 240V 1N 50Hz 3.5kW.

9. The system should be ergonomic and user friendly.
10. The system should be ISO; European CE or US FDA certified & also comply with EN ISO 15883.-1 & EN ISO 15883.-2. Company should have a Local Service Centre in India.
11. All the consumables like detergents, neutralizer, door gasket, printer paper etc. should be quoted separately which will be freeze for next 10 years.
12. The system should be supplied with consumables like detergent, neutralizer and salt for water at least 500 cycles
13. The system should be supplied with at least 1 wash basket, 2 wash arms, Racks for washing of at least milk bottles.
14. The built-in water softener optional provides optimal cleaning effectiveness.
15. Basket volume at least 40 litre.

### D. PH METRE

### SPECIFICATION

| | pH Mode | mV Mode |
|---|---|---|
| Range | 0.00 to 14.00 pH | 0 to ±1999 mV |
| Resolution | 0.01 pH | ± 1 mV |
| Accuracy | 0.01 pH ± 1 digit | 1 mV ± 1 digit |
| Input Impedance | $10^{12}$ Ohms | |
| Temperature Control | 0 to 100°c Manual | |
| Display | 3.5 digit LED display with auto polarity & decimal | |
| Calibration | Two buffers calibration (manually) 7pH & 4pH Or 9.2pH | |
| Power Requirement | 230V A.C ± 10%, 50Hz single phase | |
| Environment | 230V AC ± 10% 50Hz | |
| Dimensions | 205 x 65 x 130mm (Aluminum powder coated cabinet ) | |
| Weight | 1.5kgs (Approx.) including accessories | |
| Standard Accessories | PH Electrode, Stand, Rod, Clamp, Buffers, Dust Cover & Manual | |

### E. LABEL PRINTER (Water Proof)

FUNCTION: Required for printing the labels and marking the bottles with pasteurization batch number, and expiry date.

### SPECIFICATION

- Should produce high resolution Labels.
- Should print more than 60 Labels per minute.
- Resolution of 300x600 dpi.
- Should be supplied with 100 compatible labels with the following specifications:
- Labels should be water proof.

- Can be peeled off easily.
- Size around 100 mmx 25 mm
- Can also be written with hand written labels with permanent markers.

## 11. LIST OF OTHER EQUIPMENT

- Steel sink
- Air Conditioner
- RO system
- Room thermometers
- Computer/laptop with internet facility and printer
- Hand dryer
- Provision of Music/Television
- Facility for drinking water to mother