GOVERNMENT OF ANDHRA PRADESH

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

TENDER DOCUMENT

FOR

Procurement and supply of Medical Equipment to 5 New Medical Colleges/Hospitals in Andhra Pradesh with a period of Two Years Rate Contract (e- Procurement)

Tender Notice No.	:	**11.1F/APMSIDC/2022-23, Dt: 20.09.2022.**
Name of the Work	:	**Procurement and supply of Medical Equipment to 5 New Medical Colleges/ Hospitals in Andhra Pradesh with a period of Two Years Rate Contract**
Name of the Agency and Address	:	**……** **……** **……**

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.

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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.11.1F/APMSIDC/2022-23 Dt: 20.09.2022.

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 Demand Draft drawn in favour of Managing Director, APMSIDC, Guntur.

   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: 60** 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	60 days from date of issuance of Supply Order
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 visit 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 Repair call	*Within 48 hours*
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 20-10-2022 to 03-11-2022 up to 02.59 PM
2.	Queries up to	25-10-2022 @ 11.00 A.M
3.	Due date for Receipt of tenders	03-11-2022 up to 03.00 P.M
4.	Time and date of opening of technical Bids	03-11-2022 @ 03.01 PM
5.	Time and date of opening of financial bids	03-11-2022 @ 5.00 PM

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.

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 purchasers 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 03-11-2022**. 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 **03-11-2022** 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 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. 2018-19, 2019-20 and 2020-21
1.	Snellen Chart/Snellen drum with or without remote control	24	1	-	1,440	1,20,000
2.	Trial set with trial frame both for adult	24	1	-	7,200	6,00,000
3.	Trial set with trial frame both for children	24	1	-	7,200	6,00,000
4.	Automated Perimeter	5	3	-	7,500	6,25,000
5.	Color vision chart – Original	14	1	-	840	70,000
6.	Near vision chart with different languages	24	1	-	1,440	1,20,000
7.	Torch	60	-	-	1,800	1,50,000
8.	Streak Retinoscope	20	3	-	6,000	5,00,000
9.	Indirect Ophthalmoscope	19	3	-	34,200	28,50,000
10.	Slit lamp	24	3	4	72,000	60,00,000
11.	Applanation tonometer	15	3	4	2,25,000	1,87,50,000
12.	Keratometer	5	3	4	75,000	62,50,000
13.	Synoptophore	5	3	4	75,000	62,50,000
14.	Maddox Rod	5	1	-	1,500	1,25,000
15.	Maddox Wing	5	1	-	1,500	1,25,000

16.	Diplopia goggles	5	1	-	150	12,500
17.	Gonioscope	10	1	-	3,000	2,50,000
18.	Placido disc	5	1	-	1,500	1,25,000
19.	Prism Bar	5	1	-	1,500	1,25,000
20.	Schiotz's tonometer	20	3	-	6,000	5,00,000
21.	Laryngeal telescope with camera, monitor and light source	5	3	-	30,000	25,00,000
22.	Bulls lamp	29	1	-	3,480	2,90,000
23.	Head Mirror	29	1	-	4,350	3,62,500
24.	Head Light With LED	29	1	-	87,000	72,50,000
25.	Treatment Unit	5	3	-	30,000	25,00,000
26.	Nasal endoscopy trolley with 0 degree & 30 degree 4mm endoscope with light source, cable, monitor & camera	4	3	4	60,000	50,00,000
27.	Operating microscope for major Operation Theatre	5	3	4	1,50,000	1,25,00,000
28.	Operating microscope for minor Operation Theatre	7	3	4	1,68,000	1,40,00,000
29.	Puretone audiometer	10	3	4	1,50,000	1,25,00,000
30.	Brainstem evoked response audiometer with ASSR	5	3	4	75,000	62,50,000
31.	OAE Impedance audiometer (With sound treated air-conditioned room for audiometry)	5	3	4	75,000	62,50,000
32.	Electronystagmograph	5	3	4	1,50,000	1,25,00,000
33.	Colposcope	5	3	4	1,50,000	1,25,00,000

34.	NST machine	10	3	4	36,000	30,00,000
35.	Operating laparoscopy set including one with HD with all accessories & hand instruments.	5	3	4	1,80,000	1,50,00,000
36.	Operative Hysteroscopy set	5	3	-	15,000	12,50,000
37.	Electronic Carbondioxide insuffator/ Insuffator basic unit	10	1	-	60,000	50,00,000
38.	ICU beds (should have facilities for propping up the patient along with railings and wheels)	30	1	-	36,000	30,00,000
39.	Emergency trolley-cum-beds (Should have facilities for propping up the patient along with railings and wheels)	120	1	-	54,000	45,00,000
40.	Cardiac monitors (with $EtCO_2$ facility) with appropriate accessories for all age groups- including neonates, infants, children, adolescents and adults - For all Red category	20	3	4	1,20,000	1,00,00,000
41.	ICU ventilators (should be universal ventilators with facility to ventilate neonates and children also) - For ecah ICU and red area beds	50	3	4	22,50,000	18,75,00,000
42.	Trolleys/Fowler beds	150	1	-	90,000	75,00,000
43.	Portable ultrasound with multiple probes including ECHO probe (including probes for pediatric/ infant evaluation)	10	3	4	2,40,000	2,00,00,000
44.	Resuscitation cart - 1 for ICU and 1 for red area	10	1	-	60,000	50,00,000

45.	Artificial self-inflating breathing bag - (adult, pediatric, infant and neonatal) with Face masks – Of all sizes	20	1	-	1,20,000	1,00,00,000
46.	Point-of-care laboratory for quantitative estimation of cardiac enzymes, ABG and electrolytes	5	3	4	60,000	50,00,000
47.	Spine boards with slings and scotch tape of all sizes	10	3	-	9,000	7,50,000
48.	ACLS, BLS and Airways mannequins - child	5	1	-	75,000	62,50,000
49.	ACLS, BLS and Airways mannequins - adult	5	1	-	75,000	62,50,000
50.	Suturing mannequin	5	1	-	45,000	37,50,000
51.	Labor cot	5	3	-	7,500	6,25,000

Processing fee: The participating bidders will have to pay tender processing fee (non-refundable) of **Rs. 11,800/-** in the form of Demand Draft drawn in favour of Managing Director, APMSIDC, Guntur.

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.

Note: For bidders quoting for more than one equipment, 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.

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 30^0C 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/ 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 above items supply to 5 New Medical Colleges (Eluru, Nandyal, Machilipatnam, Rajahmundry and Vizianagaram) in Andhra Pradesh**

Technical Specifications

1. Snellen Chart/Snellen drum with or without remote control

1. The LED vision chart is used for measuring the visual acuity and color blindness of the human eye.
2. LED vision chart can be operated using Wireless & Wired remote.
3. All the charts are based on snellen's test type printed using acrylic coating, it is available in all patterns and all Indian and foreign languages
4. Dot Pattern : It is used to find out the fraction of the eye using symbol 'O' Color Pattern (test) : It is consists of RED, GREEN, YELLOW, color Duo-Chrome (test) : RED & GREEN color with background Snellen's Chart Pattern (test) : Characters from different languages in varying Sizes
5. Remote Control The Remote contains 4 switches & their functions are as follows ON/º : chart pattern, dot pattern =/ : duo-chrome pattern, color test pattern Up : moves the chart upward position Down : moves the chart in downward position
6. Refraction Distance Mirror : 3 meter/10' Direct: 6 meter/20'
7. Electrical Specifications Power supply : ~110-230 V, 50-60 Hz Power Consumption: 60 watts Display voltage : 12V DC Stepper Motor : 12V DC SMPS O/P : 12V DC
8. Physical Parameters Dimensions (LxBxW) : 385 mm x 315mm x 60 mm Weight : 6.7Kg (gross), 4.7 Kg

2 & 3. Trial set with trial frame both for adult and children

1. The lenses should be of 20mm aperture fitted in aluminum mounts of 38mm diameter, anodized red / gold for negative power and black/silver for positive power.
2. The Sphere lenses with handle and cylinder without handle.
3. The trial lenses should be of good quality, the case made of melamine polished wood, sturdy and attractive finish.
4. Lenses – Spheres + and – a. Concave and convex-0.12
   b. 0.25 to 4.0 in 0.25 steps
   c. 4.5 to 6.0 in 0.5 steps
   d. 7.0 to 14.0 in 1.0 steps
   e. 16.0 to 20.0 in 2.0 steps
   f. 0.25 to 3.5 in 0.25 steps

g. 4.0 to 6.0 in 0.5 steps
h. Prisms – ½, 1,2,3,4,5,6,8,10,12 5.

5. Accessories – Trial frames, one adult size and one for child, adjustable with slots
   a. Red glass
   b. Green glass
   c. Pin hole
   d. Slit
   e. Two blank discs
   f. Two occlude
   g. Cross cylinder ± 0.25 and ± 0.5

4. Automated Perimeter

- Specification of Perimeter (Goldman Type) should have following: - High quality Goldman standard Imported automated full field perimeter with bowl size 30cm.Computer monitor should be inbuilt with the perimeter.
- Maximum intensity 10,000Asb, Bowl illumination 31.5Asb
- Through External PC / Internal hard disk drive with future upgradation to MOD
- Stimulation duration 200ms, wavelenth Broad band visible light
- Stimulus/Background color White on White
- Maximum temporal range 90Deg.Suitable for central 30 as well as full field testing
- Central field test patterns 30-2,24-2,10-2,Macula
- Threshold test strategies are SITA, Normal, Dynamic, Fast and TOP
- Threshold test strategies full threshold, Fast Pac, SITA, SITA Fast, SITA Standard
- Screening field test P-60, FF-80,FF-120,FF-240,Nasal Step for periphery .
- Screening test strategies Two zone, Three Zone and Quantify Defects
- Stimulus Size I-V as per Goldman standards
- Glaucoma hemifield test and Automatic Eye Tracking is available
- Video eye monitoring, Trial Lens Holder,
- Touch screen monitor as well as Keyboard & Mouse
- Motorized chinrest, Motorized table with Laser Jet Printer
- Glaucoma progression analysis software
- Power supply to be 220-240VAC, 50Hz fitted with Indian plug.
- To provide UPS with 30 minutes backup
- Along with printer

5.Color vision chart –Original

- The book should consist of 38 plates.
- Should be suitable for discovering congenital color blindness and red-green blindness, each in two forms, complete and incomplete.
- Should include four special plates for tests to determine the kind and degree of defect in color vision. Color plates should be encased in specially designed album-type books for ease of handling.

6.Near vision chart with different languages

Sl.No	Description of Technical Specification
	1. Animal Picture Chart for per-verbal children
	2. Self-illuminated
	3. English, Hindi, Regional Language, illiterate E and C Chart.
	4. Plates made from high quality non reflective plastic.
	5. Manufacturer should have ISO 13485 certification for quality standards

7.Torch

- Fitted With 6V Maintenance Free SLA Battery
- 3 Watt Power LED
- Bright Light Throughout Lighting Time Using Constance Current Source
- Normal And Full Light
- SMPS Circuit-Input Range 100-280V
- Fast Charging Input 8-9 Hours
- Over Charging And Over Discharge Protection

8.Streak Retinoscope

1. Should have an external focusing sleeve which is easy to grip and manipulate.

2. Should have crossed-linear polarizing filter.

3. Should allow one-hand operation for streak focus and 360º streak rotation.

4. Should be interchangeable to plane mirror and concave mirror mode by sleeve movement.

5. Should use halogen/Xenon streak lamp.

6. Should have 100% dust proof housing and multi-coated optics.

7. Should have detachable brow rest for spectacle wearer

8. Should be battery/ rechargeable battery operated.

9. Should have a carrying case.

10. US FDA (510k) / European CE(Issued from notified Body) Approved model should be offered.

11. Should be supplied with the following accessories.

Bulb 5 nos.,bulb Holder and bulb cover

9.Indirect Ophthalmoscope

1. Binocular Indirect ophthalmoscope with precision viewing up to 1.0 mm pupil size.

2. Spot size: 3 integrated spot size small spot, medium spot & large spot.

3. Filters: 4 integrated filters to choose form red filter, cobalt blue filter, yellow filter and diffuser.

4. Vertical adjustment, +/-4˚ No change

5. Headband with Rheostat and Articulating Hinge to provide vertical adjustment of the rear band. No change

6. integrated flip up adjustment optics, which can be flipped, and locked at 0˚, 12.5˚, 47.5˚, 60˚ No change

7. Aperture and filter adjustment levers: can be locked to the desired position required. No change

8. P.D. range from 46-75 mm. No change

9. 6V halogen Xenon bulb/LED. No change

10. Transformer compatible with voltage system of AC 220 -240 volts No change

11. Carrying case No change

12. Head Band Mounted Rechargeable battery No change

13. Accessories +20D lens.

14. US FDA/CE/BIS Approved model should be offered.

10. Slit lamp

S. NO.	Description of Technical Specification
1.	Should have LED with adjustable and good illumination.
2.	Should have facility for Applanation tonometer if required
3.	Type of microscope: Binocular
4.	Should have 3 step magnification and total magnification is greater than 10x.
5.	Should have slit width ≥ 0-1mm, adjustable.
6.	Should have slit length ≥ 0-10mm, adjustable.
7.	Should have Standard filters: Minimum: blue, green(red-free), heat absorption. Abroader selection of filters increases the functionality of the slit lamp.
8.	Rotation is between 0-180°.
9.	Should be supplied with motorized table.
10.	Should have a longitudinal movement of at least 90mm.
11.	Should have a lateral movement of at least 95mm.
12	Should have a vertical movement of at least 30mm.
13.	Should have a chin rest vertical movement of at least 55mm
	User's interface-Manual
	Power- should operate from 200 to 240 Vac, 50 Hz input supply
	Battery operated – Should be supplied with suitable online UPS with at least halfan hour backup.
	Accessories, spare Parts, Consumable-
	1. Focusing test rod and dust cover
	2. Slit lamp dust cover.
	3. Rack, Manual and motorized guard
	4. 90D/70D Lens
Standards and Safety	
1. Should be US FDA/CE/BIS/CDSCO approved (USFDA/CE requirements will be applicable only when the Indian Standards like BIS/CDSCO are not available	
2. Manufacturer should have ISO 13485 certification for quality standards	

11.Applanation tonometer

Type Applanation Tonometer

Principle Goldmann Tonometer

Measuring range	From 0 to 80mmHg in 2mmHg increments
Accuracy	±0.5mmHg
Diameter of the pneumatic face	3.06mm
Area of applanation	7.354mm^2
Probe carrier line specification	43^o
Measurement	47mm wide x 30mm Deep x 85mm Height
Weight with accessories	800gm (approx)
Compatibility	Both for Zeiss &Hagg-Streit model slit lamps
Gurantee	One year

12.Keratometer

Measurable Range Auto-Refractometer	Sphere-30.00Dto+25.00D(VD=12mm)(0.01/0.12/0.25Dincrements) Cylinder-0Dto+12D(0.01/0.12/0.25Dincrements)Axis0Deg.To180Deg.(1Deg./5Deg.Increments)

Measurable Range Auto-Keratometer Ordinary measurement area Peripheral measurement area Sagital radius measurement	Radiuscurvature5.00to13.00mm(0.01mmincrements)Refractive power 25.96 to 67.50D (n = 1.3375)(0.01/0.12/0.25D increments) Astigmatism0Dto+12D(0.01/0.12/0.25 Dincrements) Axis0Deg.To180Deg.(1Deg./5Deg.Increments) Dia 3.3mm (R=7.7mm)Dia6.0mm(R=7.7mm) 25Deg.eachfromthecenter(Superiorside,Inferiorside,Temporalside,Nasalside)
Measurable minimum pupil diameter	Diameter2mm
PD measurable range	30to85mm(1mmincrements)(NearpointPD:28to80 mmatWD=40cm)
Corneal Size Measurement Range Should be auto measure.	10to14mm(0.1mmincrements)
Pupil Size Measurement Range Should be auto measure.	1to10mm(0.1mmincrements)
Auto tracking & Auto Shooting	Y direction, Auto shooting
Vision Comparison	Corrected Vision with spherical lens
Chart	Scenery chart
Display	Tiltable5.7–inch color LCD

Price to be quote for:

1. SystemwithSyearwarrantyandCMCchargesfornext 4years
2. SystemwithSyearwarrantyandCMCchargesfornext4 years

Price list of all proprietary consumables required

13.Synoptophore

Optional Tubes Movement	Horizontal - Adduction +50º, -40º Vertical - Hyperphoriya 30º, Hyperphoriya 30º Torsional - Incyclophoria 20º, Excyclophoria 20º
Auto flashing	Auto flashing of slide illumination either simultaneously, or alternatively in rapid and varia modes.
Haidinger Brush	12V illumination lamp and easy motor speed control in Both directions.

Slide Illumination	Rheostat controlled 6V halogen lamp for each side. High intensity 12V for after image illumination.
Chinrest Height	85 to 105mm (From Eye Piece tube)
Pupil Adjusting Distance	45 to 75mm
Lamp Voltage	Target Illumination : 6.2V, 0.3A Bulbs After Image : 12V, 2A Bulbs
Transformer	Pri- 0-230V, Sec-0-12V, 14V; 3A
Electrical Characteristics	Main Voltage : 230V AC Supply Power : 25W Frequency : 50Hz
Physical characteristics	430mm (H) X 550mm (W) X 265 mm (B) Net Weight: 10.5Kgs. Gross Weight: 17.5Kgs
Standard Accessories	Slide Box, Dust Cover, Blue Filter, 6V Bulb, 12V Bulb, 2A Fuse
Optional Accessories	Motorized Stand

14.Maddox rod

Should be able to measure heterophoria by placing it in front of one eye of a subject viewing a spot of light binocularly. For screen test; Maddox Rod Lens; Red / White / Green Rim & Should have a copper handle. Length should be 70mm

15.Maddox Wing

Product Specifications

- Weight 1 Kilograms (kg)
- Technology Laser

- Usage Hospital / Clinic
- Material Steel &Plastic
- A convenient hand-held, quick and efficient near test for heterophoria.
- Esophoria and exophoria are measured by the horizontal scale. Hyperphoria is measured on the red vertical scale. Cyclophoria may be assessed by moving the red arrow pointer parallel to the horizontal scale. Each eye piece has cell spaces to accommodate the patients near prescription if required.

Categories	Diagnostic Equipment
	I
Usage/Application	Hospital
Operation Mode	Manual
Handling	Portable
Model Name/Number	UNITECH VISION
Material	METTAL
Color	BLACK
Warranty	1 YEAR
I Deal In	New Only

16. Diplopia goggles

Lenses Material	Glass
Gender	Unisex
Color	Red/Green
Shape	Square
Brand	ASF Universal
Size	8 x 17 x 3 cm
Usage/Application	Hospital And Clinic
Model Name/Number	ASF-30
Pile Height	35 mm
Frame Material	Metal
Minimum Order Quantity	1

Features:

- Used in Worth 4 dot test.
- Stylish brown frame.
- Best quality as export quality

17. Gonioscope

Gonioscopy is an eye test that **checks for signs of glaucoma**. It uses a special lens and slit lamp to evaluate your eye's drainage angle (anterior chamber angle). If the drainage angle is blocked or closed, you may have glaucoma. Gonioscopy is one of many tests you may need if you are at risk for glaucoma.

1	Approximately2.36mm(circumferencedirection)x 2mm(diameterdirection) 1.5 mmWh iteLED Circular, linearSi nglecapt ure Fullcapture:272images(17focix16areas)
Autotracking	X-Ydirections
Autoshot	Available
Display	9.0-inch(WXGA)colorLCDtouchscreen
Storage	Built-inSSD
Interface	USB,LAN
Outputformat	JPEG,PDF,PNG
Powersupply	AC100to240V 50/60Hz

Powerconsumption	100VA
Dimension/Mass	280(W)x504(D)x460(H)mm/15kg 11.0(W)x19.8(D)x18.1(H)"/33lbs.
Optionalaccessories	Externalfixationlamp,headbelt,barcodereader,shieldedLANcable
Storagetemperature	-10to 55°C (14to 131ºF)
UPS	With 30 minutes back up

Multi mirror Prism Specifications

Facets	16 surfaces
Disinfection method	Glutaral agent(Glutaraldehyde)(Upto100exams)
Sterilization method	EOG(Upto30exams)

GS Gel Specifications

Characteristics	Colorless and transparent,viscoelastic gel, water-soluble polymer, Including an antiseptic agent,upto30examspertube
Storage temperature	25°Corlower(77ºForlower)(non-freezing)

18.Placido disc

This economical kerato scope is used to determine the curvature characteristics of the anterior surface of the cornea.

Round cornered 10-1/2" x 11" disc with two sided print.

19.Prism Bar

1. Vertical Prism Bar, with1/2/3/4/5/6/8/10/12/14/16/18/20/25D•Prism Bar 2

2. Horizontal Horizontal Prism Bar
with1/2/4/6/8/10/12/14/16/18/20/25/30/35/40D•Prism Bar 2

20. Schiotz Tonometer

Equipment: Schiotz Tonometer

1. Should use high quality agate bearing for long life

2. Should have a scale of 0 to 20 subdivisions and 0 to -1 sub division

3. Should have red pointer for perfect reading

4. All vital parts should be made of stainless steel and other parts should be chrome plated

5. Should be provided with carrying case

6. Should be supplied with three weights (5.5 g, 7.5g, 10g) and a conversion table

7. Control should be visible and clearly defined 8. Labels and markings should be clear and visible

21.Laryngeal telescope with camera, monitor and light source

The system should be multifunctional documentation unit. The system should have a high performance light source andhigh resolution min **15" Full HD** Medical Grade **LED monitor.** **Should have full HD camera** The system should have recording facilitywhich can be controlled from the recording button on the handle of video laryngoscope. The system should provide the facility ofrecording up to 900 still images.
Technical Specifications:
Video Laryngoscope :
Direction of view: 0 deg.
Angle of view: 80-90 deg.
Depth of view: 3-50 mm
Working length: minimum 30 cm
Outer diameter: **3.7 – 5.0 mm**

Deflection: Upward 130-180 deg,Downward 90-130 deg.
Should be provided with working channeland biopsy forceps of 2 nos.
Added Para : **Video laryngoscope should be of chipon tip Video scope**
The following accessories should beincluded,
Carrying Case
Pressure compensation cap
Leakage tester
Mouth piece
Forceps - 2 Nos
The processor should be a multifunctional and compact unit for better space utilization. Should have integrated camera, LED light source (equivalent to 300 watt Xenon), Full HD video processor and monitor. The system should incorporate the following functional units,
The Video processor (Camera control Unit) should be able to produce, S-Video, Composite Video & DVI Interface.
The control unit should have integrated digital Image process module
The control unit should be able to connect control peripheral devices such as Video printer/Video recorder / Portable memory / Image recording system
A color temperature of 5500 K to 5700 K. Upto 1000 Hours lamp operating time.
The unit should have storage facility of still and video images through SD Card or USB Port or both
The compact unit should have high resolution min 15" Full HD Medical Grade LED monitor.
color monitor of high resolution 800 x 600 pixels.
The compact unit should have inbuilt high membrane keyboard for entering patient data
Should have automatic high electronic shutter speed.
Should have on screen menu display for all parameters.
Should have digital signal processing for high quality colour reproduction.
Should have automatic white balance for all Endo Light source.
The Control unit should have digital image processing module for enhancement control.
The unit should be easily transportable / portable without dismantling of the

22.Bulls Lamp

23.Head Mirror

24.Head light LED

25. Treatment Unit

Usage	Clinic
Builtin Light Source	15v
Surface treatment	Polished
Material	Stainless Steel

1. x2 Spray Guns – One Straight and One Bend with Pressure Gauge.
2. Built-in Light Source 15v/150w Dual Outlet with Brightness Control.
3. Built-in Suction Machine with Suction Gauge (Twin Jars)
4. X-Ray View Box.
5. Nasal Cautery with Temperature Control.
6. Anti-Fog Device.
7. LED Pen Light for Endoscope Illumination.
8. x2 Stainless Steel Instrument Trays with Cover.
9. x2 Medicine Bottles.
10. Head Light Band.
11. LCD Monitor Tray with Adjustable Arm for Perfect View-Angle.
12. x2 Endoscope Holder with UV Sterilizer to Kill Bacteria.
13. Head Light Band Hanger.
14. x3 Drawers for Storage.
15. Endoscope Camera Holder.
16. Otoscope Holder.
17. Waste Can.

26. Nasal endoscopy trolley with 0 degree & 30 degree 4mm endoscope with light source, cable, monitor & camera

27. Operating microscope for major Operation Theatre

The whole microscope is smart, portable, specially suitable for mobile hospital.

Eyepiece Magnification : 12.5x
Objective : 200mm
Working Distance : 190mm
Magnification for Main Microscope : 5.3x, 8x, 12x
Diameter of Field : 38mm, 25mm, 17mm
Adjustable Dioptor : 5D
Adjustable Range for Pupil Distance : 50mm-70mm
Illumination Source : 12V/100W Cold Halogen Lamp
Illumination Type : Coaxial Illumination
Coaxial Illumination : 80000 Lux
Reaching Range of Arm : 870mm
Adjustable Vertical Range : 700mm-1100mm
Fine Focusing Range : 30mm
Voltage : AC220V/ 50Hz
Power : 120VA
Safety Electrical Standard : Conform to Standard IEC 601 -1.
Whole Packing Volume : Class1 Type B, 0.2m
Carton Number : 1
Total Weight : 41Kg

28. Operating microscope for minor Operation Theatre

Usage/Application	Hospital
Magnification	5 step Apochromatic Magnification changer
Drawtube	Binocular
Material	Metal
Foot Control Paddle	Yes. Motorised focus through foot pedal
Objective	200 mm Apochromatic Objective
Packaging Type	safe cardboard packing
Power Supply	230 V AC
Eye Piece	Wide field 10X eyepiece
Halogen Lamp	15V 150W
Optical System	Apochromatically corrected optics

Illumination	Halogen 15V 150W
Eyepiece Tube	10X widefield eyepiece
Tube	60 degree inclined Bionocular tube
Optional Xy-Coupling	Yes. Optional
Working Distance	200 mm
I Deal In	New and Second Hand
Minimum Order Quantity	1

29. Puretone audiometer

GENERAL SPECIFICATIONS POWER DIMENSIONS AND WEIGHT • L x W x H: 370 x 290 x180 mm

• Net weight: 3.5 kg TEST TYPES Pure Tone test, Autothreshold, ABLB, Speech Test, Stenger, DLI, SISI, Bekesy, Tone Decay, MLB, Multifrequency, GAP, DLF (Difference Limen for Frequency), High frequency up to 20 KHz

DISPLAY • 7” TFT Color display USER INTERFACE

• Multilingual PRINTER • Built-in fast thermal printer with paper width: 112 mm supplied as standard part

REPORTS • Printed on thermal printer • .pdf report created directly from the device and stored on USB Pen drive with possibility to add patient data and tests comments via the USB Keyboard (optional)

• Data transfer to PC using Resonance Management Data Suite

DATA TRANSFER TO PC • Via cable through USB port COMMUNICATION PORT • Nr.1 USB host type A • Nr.1 USB slave type B WINDOWS® COMPATIBLE SOFTWARE • Resonance MDS Management Data Suite

POWER SUPPLY • 110 - 240 V AC 50/60 Hz 40 VA • Fuses: 2 x T 1 A L 250 V

CONSUMPTION • Max current: 0.15 A • Power consumption: 40 VA

ENVIRONMENTAL OPERATING ENVIRONMENT • Storage: -20° C up to +50° C • Operating: +15° C up to +35° C • Humidity: up to 90%, (non-condensing) • Ambient pressure: from 700 hPa up to 1060 hPa

QUALITY SYSTEM STANDARD ACCESSORIES OPTIONALS COMPLIANCE/REGULATORY STANDARDS Designed, tested and manufactured to meet the International Standards: • MDD 93/42/EEC and its revised versions: Class IIa (as referred to in Annex IX, rule 10 of said MDD 93/42 EEC) • Safety: IEC 60601-1, 3rd edition, Class 1 Type B • EMC: IEC 60601-1-2 • Audiometer: to IEC 60645-1; IEC 60645-2 and ANSI S3.6 Type 1A

AUDIOMETRY OPERATING SPECIFICATIONS RANGE • Frequency range: 125 - 8000 Hz (with DD45) 8000 - 20000 Hz (with HDA300) 250 - 8000 Hz (with B71W) • Range stimuli level -10 up to 120 dB HL ACCURACY • Frequency < 0.5% • Distortion < 1% • Attenuator linearity 1dB per 5 dB step, max 3 dB whole range

TYPE OF SIGNALS • Pure tone: sine wave 125 to 8 KHz signal (to 20 KHz for HDA300) • Warble: ± 5% frequency sine wave modulated, modulation: sine wave 5 Hz • Narrow band noise: 24 dB/oct filtered noise • Speech noise: 1 kHz 12 dB/oct filtered noise • White noise • External signal • External mike • Speech material recorded on SD card • Master Hearing Aid: 1 KHz 6, 12, 18, 24 dB High pass filters • On/Off rise – fall time: 40msec

OUTPUT TRANSDUCERS • ACR, ACL up to 8 KHz: 10 ohm DD45 matched pair earphone. IP30 Insert earphones (optional) • ACR, ACL up to 20 KHz: HDA300 Sennheiser • BC: B71W Radioear; B81 (optional) • INSERT: Insert transducer • Free field output: 600 ohm impedance

STIMULUS PRESENTATION MODALITY • Presentation: Normal, Reverse, Extended (present tone for 1 second from 20 dB below the maximum level) • Modality: Continuous, Pulsed (rate 0.5, 1 and 2 Hz), Alternated (ABLB and MLB 0.5, 1 and 2 Hz) • DLI increment levels: 0.1 in steps of 0.1dB up to 1.0 dB; 1.5, 2, 3, 4, 5 dB • DLI increment recurrence rates: 0.5 Hz, 1 Hz, 2 Hz • SISI increment recurrence rates: 0.2 Hz, 0.5 Hz, random. Time on 300ms • SISI increment level: 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 5 dB • Bekesy: mode sweep and fixed; Continuous, Pulsed and LOT; exam duration 30 sec and 60 sec. Manufactured, designed, developed and marketed under an ISO 13485, ISO 9001 certified quality system. Medical CE /FDA/BIS approval. Resonance makes no warranty, nor assumes any legal liability or responsibility for the accuracy, typing errors or mistakes, correctness or completeness of any information in this datasheet. The information in this datasheet was correct to the best of our knowledge at the time of printing.

30.Brainstem evoked response audiometer with ASSR

TECHNICAL

2 TECHNICAL CHARACTERISTICS

Technical characteristics (specific to this type of device):"BrainstemEvoked Response Audiometer with ASSR

• 2 channels.

•Should have ability to record under physiological and electromagnetic noisesImpedance measurement should be built in and displayed on screen.

•Signal presentation: right, left and both.

- Should have pre-programmed auto tests

- Stimulus types: Click, Pure Tone, Tone Burst, Speech and User Defined Stimuli,and chirp stimuli

Stimulus rate: 0.1 to 80.1

- Intensity: 0-100dB nHL

- Tone Burst 10 to 120 dB on 250 to 8000 Hz

- Analysis time should be short, fast and reliable.

- Masking : White noise or notched

- The unit should have filters : low pass and high filter

- The unit should have digital filter for analysis.

- Early latency result

ASSR:

- Stimulus - Modulated Tone, Clicks
- Intensity: up to 125 dB SPL
- Frequency response up to 5000Hz or better
- Should be able to test multiple frequencies simultaneously for both ears
- Automatic Generation of Audiogram in SPL/ HL
- Phasor diagram should be generated automatically.
- Frequency and intensity based phasor diagram.
- FFT Values should be displayed
- Should have spectrum graph

- Preamplifier

- 2 channels

- Gain 80 dB

- Noise 6.0 nV Hz

- CMR Ratio > 115 dB at any frequency between 0.1Hz & 10Hz.
- Input Impedance > 10M
- Accepted electrode offset > 300mV.
- Power from main unit.
- Impedance Check
- Measuring Current 25uA.
- Ranges 0.5k – 25k

User's interface: Manual

Software and/or standard of communication (where ever required) : NA

3 PHYSICAL CHARACTERISTICS

Dimensions (metric) : NA

Weight (lbs, kg) : NA

Configuration : NA

Noise (in dBA) : NA

Heat dissipation: NA

Mobility, portability : Handheld device

4 ENERGY SOURCE (electricity)

Power Requirements: The unit should be provided with 2kVA online UPS.

Battery operated : Yes

Tolerance (to variations, shutdowns) : NA

Protection: NA

Power consumption: NA

5 ACCESSORIES, SPARE PARTS, CONSUMABLES

Accessories (mandatory, standard, optional); Spare parts (main ones);Consumables / reagents (open, closed system) :

1) Battery-2nos

2) Insert ear phone -no

3) Reusable EAR specula of 2mm, 3mm, 4mm two from each. The specula should beautoclavable.

2) Storage case (rigid and steady)"

5) The unit should be supplied with PC of Core i5 processor with 19inch LED screen,RAM-2GB,Hard disc-500Gb

6 ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS

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.

2) Storage condition: Capable of being stored continuously in ambient temperature of0 to 50 deg C and relative humidity of 15 to 90%."

User's care, Cleaning, Disinfection & Sterility issues
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 singleuse/disposable cover.

7 STANDARDS AND SAFETY

Certificates (pre-market, sanitary, ..); Performance and safety standards(specific to the device type);Local and/or international

1) Product should be USFDA/CE (notified) approved

2) Should have IEC 60601-1/IEC 60601-1-2/CE (EU) certificate;

3) Manufacturer / supplier should have ISO 13485 certificate for quality standard;"

4) Calibration should be as per ANSI 3.6/Equivalent

8 TRAINING AND INSTALLATION

Pre-installation requirements: nature, values, quality, tolerance NA

Requirements for sign-off Certificate of calibration and inspection from themanufacturer

Training of staff (medical, paramedical, technicians) "

1) Training of users on operation and basic maintenance;

2) Advanced maintenance tasks required shall be documented

9 WARRANTY AND MAINTENANCE

Warranty: 3 years

Maintenance tasks

1) Maintenance manual detailing;

2) Complete maintenance schedule;

Service contract clauses, including prices

1) The spare price list of all spares and accessories required for maintenance andrepairs in future after guarantee / warranty period should be attached;

2) Free servicing (min. 2/year) during warranty period including calibration

31. OAE Impedance audiometer (With sound treated air-conditioned room for audiometry)

Facilities and tests

Tympanometry, Acoustic Reflex, Reflex Decay, Quick test: Check, screening and Decay, Acoustic Reflex Latency test (ARLT), Multifrequency Tympanometry, EFT (intactand perforated)

Accessories

- Probe assembly with contra headphone and insert receiver
- Built-in fast thermal printer/Printout through Laser printer (Laser printer should beprovided).
- Data transfer to PC cable
- Data storage PC software
- Computer Desktop with laser printer
- Standard UPS

Tympanometry

- 226 HZ for Admittance (Y) curve tympanometry
- 1000HZ for Admittance (Y) curve tympanometry

INTENSITY

- 226 HZ : 85 dbSPL

ADMITTANCE MEASUREMENTS

- Compliance range: 0.05 up to 7 ml

AIR PRESSURE

- Control : automatic and manual
- Range : from +400 up to -600daPa adjustable in 50 daPa steps
- Pressure accuracy : 10 daPa or $\pm$10%
- Sweep rate : 50,100,200,300 daPa/sec and automatic
- Safety limitations : -800 up to +600 daPa

EUSTACHIAN TUBE FUNCTION

- EFT test for use with both intact and perforated eardrums

32.Electronystagmograph

Specifications

1. Should be USFDA or European CE certified by notified agency.

2. High quality ISO certified with sensitivity of 105 images per second binocular, 174 images/sec monocular

3. Goggle with one camera and goggle with 2 cameras (non occluded and occluded view)

4. Able to perform all vestibular test including smooth pursuit test (tracking)

5. Compatible with latest window software

6. Laptop with minimum 1.8GHz, 2GB DDR3 RAM, 160GB hard disc with resolution of 1024x768 resolution or better

7. Rotatory chair, irrigator for water and air should be included.

33.Colposcope

Colposcope

Technical Specification:

- Should have>1000TVLinesstd.>1200TVLines (Gamma ON)
- Should haveFullHD–1920x1080resolution
- Should have CCD sensor –(1/3type Exmo rCMOS sensor)
- Shouldhaveaspect16:9(HD)
- Thevideocolposcopemusthavemagnificationfrommin.1xtomax.45x
- Facility to increase and decrease the light intensity
- Shouldhave20,00,000no.ofpixels
- Should have FullHD component output:YPbPr.
- Magnification indicator should be on the video colposcope.
- High MCD superbright white shadow less LEDlight for true color reproduction.
- Color temperature should be 7000^{o}k,light source life should be minimum20000hrs.
- Auto focus range should be upto30-40cm

- Facility for fast focusing,zooming,image freeze using thumb on the hand held unit itself.
- Acetic test time rand magnification indicator should be displayed on screen.
- There must be Electronic Green Filter in the hand-held unit without decrease in Illumination.
- Control panel should have feather touch and water proof buttons
- Facility for Fast auto/manual focusing
- Internal Image freeze function facility
- It should be equipped with Gamma Processor to enhance vascular structure
- Should be integrable to LAN and HIS
- Should be USFDA/CE/BIS approved.

Company should provide Colposcopy Image Management software with computer with followingfacilities:-

- Upgradable software
- Should have facility to generate Cryo-Surgery report
- Should have facility to masking,marking and highlighting of any abnormalities.
- Image capturing while recording/playing
- Final reports with one, two,three & four images with facility to adjust height & width of images.
- Referal linked images with findings for comparison.
- Should be able to show three visits of patient on search of patient ID with display of all 3 visits simultaneously.
- Facility to save & send there port through e-mail in pdf format
- Online support facility(through internet)for software
- Colposcopy software should run on window8/ Windows XP software
- Facility to take colposcopy images with the colposcopy report on hardcopy
- Facility to store still images,cine loop or procedure on CD
- Software should be compatible with both desktop & Laptop, no need of separate capture card.
- Should have REID evaluation chart in tabular form

Company has to provide Desktop Computer with:

- CPU Intel Corei5
- RAM4GB
- Hard Disk: 500GB
- Window8HomeBasicor better
- DVD Writer
- Inkjet Printer
- Computer should be fitted in imported fiber body workstation

Company should provide:24"Flat Screen High Definition Monitor

- Should be high Definition(HD)of24" with wide screen.
- Should have resolution of1920x1200(WUXGA)
- Should be fully compatible with OR video control applications

- Should have surgeon specific user select able setting
- Should have low voltage DC power input,24V.
- Should have Class-IMedical Device Certification
- Should have fast estresponse time(10-15ms)
- Should have PIP facility
- It should consist of Multi-Modality Image viewing inputs: HD-SDI, HD-RGBS/Y,Pb, Pr,DVI, VGA, S-Video Composite: Syn-On-Green.
- UPS with 30 minutes backup

34. NST machine

- Light weight, Space saving & easy operations.
- 10.1" Inch TFT Colour Screen.
- 36 hours data storage which can be playback and printed.
- Special patient event & clinical event marking button.
- Probe is built in FAS & support waterproof.
- Automatic Grading Function

35. Operating laparoscopy set including one with HD with all accessories & hand instruments.

36. Electronic Carbon dioxide insufflator/ Insufflator basic unit

37.ICU beds (should have facilities for propping up the patient along with railings and wheels)

Specifications

- Over all Size: Aprox 2120mm L x 1020 mm W x 450 mm To 770 mm H (Without Mattress). Bed frame size 2070mmL x 960 mm W Four section ABS detachable top.
- Bed should be electrically operated: Remote control or Integrated panel for easy to operate various positions like height, Trendelenburg/ Reverse Trendelenburg, back, foot movement etc. by touching single fold protection button.
- Bed should have four electric actuators for obtaining various positions.
- It should have CPR button for emergency override to return the backrest to flat position quickly and instantly.
- Battery backup with inbuilt battery charger should be provided.
- The hand control box and the nurse hand control should have indications for power on and the battery charge. The Nurse control should have provision to lock all the positions on patient control individually.
- Degree indicator required for backrest, upper leg elevation &Trendelenburg / Reverse trendelenburge positions.
- All electro mechanical actuators needs to be compatible with class of IP 54.
- Backrest and upper leg section should retract as they are individually and simultaneously raised.
- Bed frame should be mainly made from 50 x 25 mm x 2 mm thick ERW tube with proper support.
- This frame should be fitted on the base mainly made of dia 80 x 1.6 mm ERW tubes with supportive C channel of thickness 2mm on various supporting links.
- The base frame should be mounted on 125mm dia non-

rusting twin wheel castor wheels with central and directional locking mechanism and stainless steel pedal operated at the foot end of the bed.

- The bed should have easily detachable moulded head & foot side panels and four corner buffers.
- Bed should have split type swing down railings, 2 nos on each side made from non-rusting moulded material. Height of the railing should be more than 385mm above the mattress platform. The swing down mechanism of the railing should be made up of MS flats.
- Railings should go below the mattress platform when in lower position.
- There should be two locations on the head side of a bed to hold one stainless steel Saline rod 12 mm dia with 31.7mm dia, 18 g stainless steel outer covering tube holder with a knob to fix syringe pump holders.
- Quick manual backrest release system with operating lever on both side of top frame.
- Bed should have radio transluecent top(X-Ray transluecent back section), Radioluecent mattress and X-Ray cassette holder.
- All mild steel components should be thoroughly in-house pretreated chemically to remove rust, grease, oil, etc. by dip tank processes, including separate degrasing, pickling, phosphating each followed by water rinsing passivating and hot air drying to give phosphate coating.
- The treated metal surface should then be coated in-house with epoxy polyester powder with paint film thickness of 60 microns (minimum) and oven baked at 180 deg.

- To 200 deg. Centigrade. All Stainless Steel used should be of 304 grade

Certificates: Notified body CE/BIS/USFDA and ISO 13485, IEC 60601-2-52 : 2015

FINISH:All components should be pre-treated in separate nine tank process for better finish, good ashesion and corrosion protection. Process includes Hot degreasing, De-Rusting, Activation, Phosphating, Hot Passivation and no. of water rinses and then pre-treated material is coated with epoxy powder with film thickness of not less than 60 microns (Approx.) and then oven baked at 180 degree centrigrade.

Manufacturer should bed ISO 9001:2015 and ISO 13485:2016 certified from a notified body.

Manufacturer should also have ISO 18001, 14001:2015 and ISO 45001.

Manufacturer should have pollution control board certificate.

38. Emergency trolley-cum-beds (Should have facilities for propping up the patient along with railings and wheels)

Specifications:

- Overall Size: Approx Buffer to Buffer 2100 mm L x 760 mm W x 670mm to 1000mmH
- Mattress platform size 1840mm L x 610mm W.
- Backrest and knee rest should be adjustable by gas springs.
- Height adjustment and Trendelenburg/ Reverse Trendelenburg position should be adjusted by hydraulic linear actuator.
- Hydraulic linear actuator should have a stroke length of more than

320mm.

- The strokes required for height adjustment of the trolley from minimum height to maximum height should be achieved by not less than 40 strokes.
- Trolley should be made up of 4 section X-ray permissible top.
- The trolley should be provided with x-ray cassette holder.
- Lower leg section should be adjusted by stay bar.
- Backrest adjustment upto 70°
- Kneerest adjustment upto 30°
- Trendelenburg tilt upto 16°
- Reverse trendelenburg tilt upto 16°
- Bed frame must be made from minimum 60mm x 30mmx 1.6mm (16G) thick ERW tube with proper support. This frame is fitted on the base frame mainly made of minimum 60mm x 30mm x1.6mm (16G) ERW tubes.
- Bed frame and Base frame is connected with two vertical pillar type hydraulic lifting columns.
- The base frame should be covered with ABS sheet for easy cleaning.
- The base frame is mounted on 125mm dia. non-rusting twin wheel castors with central locking mechanism. Wheel centre having precision ball bearing to run smoothly.
- Trolley has stainless steel collapsible safety railings. These shall be fitted to the mattress support sections and should be able to raise and lock through spring lock mechanism.
- Four locations on the bed to hold one stainless steel saline rod

12mm dia

with 31.7mm dia x 1.2mm (18G) stainless steel SS 304 Grade outer covering tube

with a knob.

- Trolley should have provision for holding oxygen cylinder.
- Bed should be provided with PU Foam mattress of minimum 40 density.
- Finishing & workmanship in the medical furniture is of prime importance and must

be of high standard. All corners shall be rounded off so that there shall be no sharp

corners and holes, should be burr free

- All process parameters to be as per documented IMS procedures for quality assurance (ISO 9001:2015 and ISO 13485: 2016 from notified body. ISO 14001:2015, OHSAS 18001: 2007 Quality management systems)
- All mild steel components should be thoroughly in house pre-treated chemically to remove rust, grease, oil, etc. by 8 tank dip and drain process, including separate degreasing, de-rusting, phosphating each followed by water rinsing, activation and air drying to give phosphate coating. The site inspection is mandatory during the evaluation period. The treated metal surface should be coated in-house with epoxy powder with paint film thickness of 60microns (minimum) and oven baked at 180 degree to 200 degree centigrade. All stainless-steel components wherever used should be of 304 grades only.

- Accessories:

a. Stainless Steel Heavy duty IV pole (2 hooks) to hold infusion pump.

b. Tray to hold monitor

Certifications: BIS/CE/USFDA and ISO: 13485

Finish: All components should be pre-treated in separate nine tank process for better finish, good ashesion and corrosion protection. Process includes Hot degreasing, De-Rusting, Activation, Phosphating, Hot Passivation and no. of water rinses and then pre-treated material is coated with epoxy powder with film thickness of not less than 60 microns (Approx.) and then oven baked at 180 degree centrigrade.
Manufacturer should bed ISO 9001:2015 and ISO 13485:2016 certified from a notified body.
Manufacturer should also have ISO 18001, 14001:2015 and ISO 45001.
Manufacturer should have pollution control board certificate.

39.Cardiac monitors (with $EtCO_2$ facility) with appropriate accessories for all age groups- including neonates, infants, children, adolescents and adults - For all Red category

1. Monitor should be modular with min 15” color capacitive LCD TFT display and Navigation

through a touch screen and knob should be present.

2. Monitor should display ECG, SPO2(masimo rainbow set), NIBP, Resp. 2 Temp, 4 IBP,&

Microstream /Microstream EtCO2 as standard feature

3. Monitor should be upgradable with Cardiac output , PiCCO, BIS, AGM, & Noninvasive

hemoglobin & Early warning scoring system.

4. Monitor should have the capability of simultaneously monitoring of Min 10 channel of the

waveform.

5. Monitor should be IT enabled for & (HL7 compliant)

6. Parameter description should be as below

A. ECG - ECG: 3/5lead ECG;12-lead ECG data can be measured by standard lead placement -

HR:15-350/min or broader,±1% or ±1 - pacer detector: sync with the pacing signal - ST analysis ,

and arrhythmia analysis

B. Spo2 - Should be supplied with masimo SET technology with respective sensors. -

Should display digital value and plethysmography

C. NIBP - By oscillometric principal of measurement with step wise deflation - Suitable for adult,

pediatric, neonatal patients. - Should display systolic, diastolic, mean pressure in large easy to

read display. - Should have manual/stat mode or automatic mode - Adjustable time intervals from

2-240 Minutes and adjustable alarm limits.

D. IBPs – simultaneous monitoring of 2 IBP’s should be standard

E. Temperature – two temperature one core and second skin simultaneous monitoring -

Range Max to 50 deg C

F. EtCO2 – should be through Microstream/main stream method

8. Monitor should have non-volatile graphic and tabular trending of all monitored parameters as

standard for minimum 240 hrs.

9. should have the facility to record of 48 ECG full disclosure

10. Monitor should have battery backup for 120 minutes

11. Monitor should have US FDA or European CE approval. The certificate must be enclosed

12. Monitor Must be upgradable to connect with the integrated automated charting system of the

same make

13. Six Central Stations:

a. 22 inch touch screen display

b. Minimum 16 beds view to be provided in each station

c. Dual display option (based on number of monitors to be connected)

d. Networking cost to be included

15. Scope of supply :

a. 5 Lead ECG Cable – 1 no with Each Monitor

b. Adult spo2 sensor with intermittent cable – 01 no with each

c. Pead Spo2 sensor with intermittent cable – 01 no with each

d. Adult & Pead NIBP cuff - 01 no with each

e. Skin & Rectal Temp probe – 01 no each

f. EtCO2 adapter (Adult/pediatric)/ Sample Line – 1 no with each ETCO2 sensor/10 no’s with each

module

g. IBP Intermittent cable – 01 no with each

h. IBP Disposable transducer – 02 no with each

i. Wall Mount – 01 no with each monitor

40. ICU ventilators (should be universal ventilators with facility to ventilate neonates and children also) - For ecah ICU and red area beds

Specification for Neonatal / Pediatric HFO Ventilator

It should be specifically designed for the Neonatal / Infant Patient Range.

It should have capability of mechanical ventilation of a range of patients from 300g - 30Kg body weight.

It should have effective mechanism like Valveless Technology to reduce work of berating for Neonates.

.

It should have minimum 12 inch size full colour, total touch screen operation

It should have integral flow monitoring measuring lung mechanics and displaying of loops and waveforms

It should have optional HFO Mode with following parameters

ΔP in HFO - 180mbar

Square HFO waveform, volume efficient HFO

It should have active inspiration and active expiration in HFOV

It should have optional volume targeted ventilation from 2ml-300 ml

It should have Dual Limb nCPAP dedicated mode

It should have Dual Limb NIPPV dedicated mode

It should have Dual Limb SNIPPV dedicated mode

It should have optional Single Limb nCPAP dedicated mode

It should have optional Single Limb NIPPV dedicated mode

It should NIV leak compensation mode

It should have optional High flow oxygen therapy facility

It should have Same Patient circuit for all therapies

It should be supplied with Aerogen Nebuliser

It should have 3 hour backup battery, including HFO

It should use Hot wire anemometer sensor, proximal to patient

It should have Proximal Pressure measurement

It should also have Pressure Trigger

It should have 14-day trending (any parameter)

It should have facility to capture Screen

It should have USB port

It should have O2 Boost/Suction

It should have Non-interchangeable insp/exp circuit limbs

It should have Backup Ventilation with user adjustable rate in conventional and NIV

It should have Pressure rise time adjustment, independent of the bias flow
It should be upgradable to measurement of Spo2 and Closed loop oxygen control facility to reduce periods of hypoxaemia and hyperoxaemia significantly and it should work in all modes including invasive and noninvasive. Closed loop Oxygen control should use feedback every second

Conventional Mode Parameters:

BPM: 1to150

Inspiratory Time: 0.1 to 3.0 sec

CPAP Pressure: 0 to 35 mbar

Inspiratory Pressure: 0 to 65 mbar

FIO2: 21% to 100%

Tidal Volume 2-300 ml with Volume Guarantee

HFO Mode Parameters:

HFO Frequency should be wide range with 3 to 20 Hz

I:E Ratio: 1:1, 1:2, 1:3

MAP-0-45mBar

Delta P – 4-180mBar

Sigh RR - 1 to 150 bpm

Sigh Ti - 0.1-3 sec

Sigh P – 0-45 mBar

It should be supplied with Servo heated humidifier

Ventilator should be compatible with nitric oxide delivery system.

It should have a medical oil free air compressor of the same brand as ventilator with European CE Certification.

It should be a European CE or US-FDA certified product

41.Trolleys/Fowler beds

Specifications

- Overall approx size 2090 mm L X 910 mm W X 520mm – 750mmH, Bed Frame size-1970 mm L X 920 mm W, with height adjustment
- The main frame should be made from 60 x 30 x18 G ERW rectangle tubes.
- Bottom frame should be made up of 60 x 30 x 16G ERW rectangle tubes.
- Four sections top should be made From18G CRCA sheet uniformly perforated.
- Backrest, leg elevation, Height adjustment, Trendelenburg/ Reverse trendelnburg positions should be maneuvered by crank mechanism smoothly operated with trust bearing.
- Back-rest and leg elevation should have anti-pinch mechanism to prevent entrapment.
- Stainless steel collapsible railings with three horizontal SS tubes.
- Non removable folding handles made from solid stainless steel rod with PVC grip should be provided. The folding handle should be mounted on stainless steel turn piece.
- Lead screw used for crank mechanism should have square threads.
- The bows should be made of approximately 31.75mm OD x 18g stainless steel ERW tube with laminated panels
- Tubular horizontal support approx.50mm x 25mm x 14G ERW tube and 25.4 x 25.4mm x 18G ERW tubes.
- Bed should be mounted on 125mm dia heavy duty non rusting

casters two with brakes and two without brakes. Casters should be of german make.

- Four IV Rod locations & one SS telescopic Saline rod with 12mm dia.to be provided supplied in KDC. 4 A Mattress suitable for the bed made of high density UP foam of 100 mm thickness covered with good quality rexine to be provided.

FINISH:- All components shall be thoroughly pre-treated chemically to remove rust and foreign matter like grease, oil etc by dip tank processes including separate degreasing, De-rusting, phosphating each followed by water rinsing & hot air drying to give phosphate coating conforming IS 3618-1966 class 'C'. The treated metal surface should then be coated with epoxy powder with paint film thickness of 60 microns and over baked at 180.

All components should be pre-treated in separate nine tank process for better finish, good ashesion and corrosion protection. Process includes Hot degreasing, De-Rusting, Activation, Phosphating, Hot Passivation and no. of water rinses and then pre-treated material is coated with epoxy powder with film thickness of not less than 60 microns (Approx.) and then oven baked at 180 degree centrigrade.
Manufacturer should bed ISO 9001:2015 and ISO 13485:2016 certified from a notified body.
Manufacturer should also have ISO 18001, 14001:2015 and ISO 45001.
Manufacturer should have pollution control board certificate.

- Backrest should be at least 45% of the total top section length.
- Load bearing capacity should be 150kg.
- Food table should be along with cot with following dimension 560mm L x 400 mm W x 280 mm H made from SS 304 grade

pressed on edges and maintained on folding legs of S.S.

- Backrest Section maneuvered by crank mechanism from foot end. Provision for location I.V. Rod
- Mattress For Bed Size : As Per Bed (4" Thick, 32 Density, Pu Foam) Standard

Certificates: CE/BIS/USFDA and ISO 13485

Portable ultrasound with multiple probes including ECHO probe (including probes for pediatric/ infant evaluation)

General description:

A state of art fully digital, compact premium portable Colour Doppler (weight <5 kg) with pin-less connector is required with following technical features

1. Unit should be able to give very high image quality with advance technologies like compound imaging with at least 5 sights of lines for better contrast resolution, tissue differentiation and edge detection, equivalent to high end cart based systems. Please specify the technology.
2. System should be able to support speckle reduction imaging for better tissue differentiation and edge enhancement please specify the technology.
3. System should have both online (Read) as well as offline(Write) zoom facility
4. Imaging modes of Real time 2D, Colour Doppler, Power Doppler , Pulsed wave Doppler, Continuous wave Doppler(on all cardiac transducers) must be available.
5. System must have fast start up to scanning in less than 30 seconds from off condition, for use in critical and emergency situations.

6. System should support transducer technologies like phased array, convex, linear, TEE etc.

7. The system should have a broadband architecture with an operating frequency of at least 1 to 15 MHz.

8. Cine memory on all modes.

9. The system shall process a dynamic range that is at least 165db. The system must display at a maximum depth of 35 cm.

10. The system must have a dedicated cardiac calculation packages with IVC collapse Ratio, Atrial Volume, TAPSE, Quic EF calculation, Access CO under LVOT , VTI, PISA, TDI calculation packages , *Lung Scan and vascular calculations package.*

11. The system shall provide Tissue Doppler Pulsed Wave Doppler(TDI PW) Mode as standard .

12. Flat LCD/ TFT monitor of at least 12 inches having anti reflection coating, with flicker free image and *with minimum 85 degrees up/down viewing angle.*

13. Alphanumeric soft keys backlit and splash resistant silicon keypad with easy access scans controls, facility to sanitize the system keyboard to avoid cross contamination.

14. The system must have the ability to function by AC/DC or battery power with the same degree of functionality, the battery life (run time) shall be al least 2 (Two) hours, this need to demonstrate.

15. Needle visualization software should be available for Convex and Linear probes which can dynamically optimize the image to give the best possible view of the needle in real time

16. The system must have archive capability for storage and retrieval of images and clips.

17. Unit must be sturdy, resistant to breakage & damage on fall/ hit against the wall or hard surface including special safety feature of transducer cables getting damaged.

18. System should posses software for *Steep Needle Profiling* to track the needle clearly at steep angles during the procedures while maintaining striking image quality of the target structures and the surrounding anatomy with simple On/Off functionality. This Facility should be available on both High frequency Linear and Curvilnear probes for superficial as well as deeper blocks**.**

19. The system shall support the all DICOM functionality, Storage, Print, and Work List, also ready to connect to PACS.

20. System should have both European CE and US FDA quality certification.

Transducers to be supplied as standard:

1. 1-5 MHz (±1 MHz) multi-frequency broadband Phased array 'single crystal technology' transducer with less than 20mm footprint for cardiac and lung examination

2. 2-5 MHz (±1 MHz) Multi-frequency broadband curved array transducer for abdominal, deep nerve access, Lung & MSK applications with footprint of 60 mm (+/-5mm).

3. 6-13 MHz (±1 MHz) multi-frequency, broadband linear array transducer for vascular, small parts, Lung, musculoskeletal, nerve imaging with less than 40mm size. Higher frequency will be preferred.

4. An original trolley from manufacturer must be available to store and/or transport the system.

Optional items to be quoted

- High Frequency 'Hockey Shape' Linear transducer 6-13 (+/-1) MHz for nerve blocks, vascular access, MSk & Vascular Imaging.

- 3-8 MHz (+/-1 MHz) small curved array multi-frequency, broadband transducer for nerve, abdominal, musculoskeletal, obstetrics & spine exam applications with less than 40 mm footprint.
- B/W Thermal printer

ESSENTIAL REQUIREMENT:

- Onsite Product training and access to education material website must be provided to end users during post installation of the system.

WARRANTY: The unit and transducers should be covered with comprehensive onsite warranty for five years commencing from the date of issue of installation certificate.

Resuscitation cart - 1 for ICU and 1 for red area

Specifications:

- The main frame of the trauma care crash cart should have 18g stainless steel (SS 304) dia. 25.4 mm tubular/Rectangular frame work. Two lockable plastic box units with 3 drawers should measure 305mm l x 380mm d x 320mm h of Alkon make.
- The trauma care crash cart should have following facilities: 6 nos. hand out bins to keep important supplies easily accessible of size approx. 110 mm W x 125 mm D x 75mm H. light weight plastic box with three drawers each to hold emergency medicines, Ambu. Bags, IV solutions, catheters.
- The trauma care crash cart should have 3 stainless steel 304G trays on top, middle and at the bottom. The middle tray should be removable for cleaning.
- The trauma care crash cart should have facility to carry monitors, ECG, suction apparatus on open areas at top centre and bottom shelves
- The trauma care crash cart should have stainless steel saline rod made of 12 mm dia. 304 grade s.s. approx. 750 mm long and bent at top to

have an arm of 400 mm approx. at the end of which of 6 mm dia. s.s. hook shall be welded with tig.

- The trauma care crash cart should have 12.5 cms dia non-rusting swivelling castor wheels. Two having locking arrangement. Casters should be of German make.
- The trauma care crash cart should have pull out cardiac massage board made of plywood. The trauma care crash cart should have oxygen cylinder stand epoxy powder coated, on one side.
- The trauma care crash cart should have handle on one side.

Certificates: Should have notified body CE/BIS/USFDA certification.

Manufacturer should bed ISO 9001:2015 and ISO 13485:2016 certified from a notified body.

Manufacturer should also have ISO 18001, 14001:2015 and ISO 45001.

Manufacturer should have pollution control board certificate.

Finish: Trauma care crash cart should be made up 304G stainless steel and finish should be Matt finished.

Artificial self-inflating breathing bag - (adult, pediatric, infant and neonatal) with Face masks – Of all sizes

Technical Specifications

- **Adult :-** Adult total bag volume (min 1450 ml) , made up of silicon material,100 % latex free, Unique single shutter valve , whole resuscitator bag along with Reservoir bag and mask must be auto clavable minimum 25 times(test reports to be provided) , face mask should have thumb rest for proper seal, Bag should be ergonomic design with hand strap for firm grip. The patient valve with swivel facility. USFDA ,CE and ISO certified.

- **Pediatric: -** pediatric total bag volume (min 630 ml), made up of silicon material, 100% latex free,Unique single shutter valve , whole resuscitator bag along with Reservoir bag and mask must be auto

clavable minimum 25 times(test reports to be provided), face mask should have thumb rest for proper seal, Bag should be ergonomic design with hand strap for firm grip. The patient valve with swivel facility. USFDA CE and ISO certified.

- **Neonate :-** Neonate total bag volume (min 200ml) , made up of silicon material, 100 % latex free .Unique single shutter valve , whole resuscitator bag along with Reservoir bag and mask must be auto clavable minimum 25 times, (test reports to be provided) Bag should be ergonomic design with hand strap for firm grip. The patient valve with swivel facility. USFDA CE and ISO certified.

Point-of-care laboratory for quantitative estimation of cardiac enzymes, ABG and electrolytes

Point-of-care laboratory for quantitative estimation of cardiac enzymes, ABG andelectrolytes

Technical specifications- BLOOD GAS ANALYSER- (ABG)

1. Fully automatic, upgradeable, fast electrolyte & Blood gas analyzer.

2. Essential Measured parameters; pH, pCO2, pO2, SpO2 with CO-oximetry, tHb, Lactate, glucose, Na+, K+, Ca++, Cl- . Measurement of Mg++ preferable. All these parameters should be measured simultaneously.

3. Calculated parameters should include BE, BE ecf, HCO3, Anion Gap etc.

4. Sample volume-less than 150 micro litre.

5. Fast analysis time –less than 60 sec.

6. Maintenance free electrodes with individual electrodes ON/OFF facility.

7. Fully automatic liquid calibration of all parameters at user-defined intervals.

8. Continuous reagent level monitoring with graphic display.

9. Data display on well-illuminated, adequate size screen display.

10. Data print out on built in thermal printer

11. Built in auto Quality control facility.

12. Suitable UPS with at least 60 min backup.

13. Consumables including printer paper for one year (considering usage of appx. 20samples/day) to be provided with the machine.

14. Cost of Reagents/consumables/accessories to be quoted for comparativeevaluation.

15. Stand by blood gas cum electrolyte analyzer in case of breakdown.

16. Should have local service facility

17. Guarantee to supply spares & consumables for life of the equipment (10 years)

18. Compact, sturdy, easy to clean stand should be provided with the machine (preferably of same company)

19. UF-FDA & European CE (Conformité Européenne) approved.

20.It should be reagents based and not a cartridge based model

21.Sample type: Whole Blood, serum, plasma, Dialysate, QC Material

22.Parallel measuring chambers for ABG, Electrolytes, & metabolites

Spine boards with slings and scotch tape of all sizes

Specifications

A. The spine board should be rugged in construction and built of high density polyethylene with firm surface for CPR & immobilization. It should have minimum 14 restraint strap points to immobilize the patient & minimum 8

holes for lifting of patients. The weight of the spine board should not be more than 6.5 Kgs.

B. It should have compact dimensions and provision for cervical collars, ankle immobilizers, adult & pediatric straps/ head immobilizers; it should have easy underside & easy lifting access with patient on spine board

C. It should be x-ray translucent and CT compatible.

D. The physical dimensions of the spine board should be: Dimensions: (maximum) 405 x 45 x h1840 mm

E. Thickness (maximum) – 50 mm, Functioning temperature: from –20°C to +60°C

F. The load capacity of the spine board should be minimum 180 Kg.

G. It should be supplied with Spider straps which are colour coded & X-ray compatible with cervical section, straps should be adjustable in length and width with lock stitching sewing techniques

H. Weight of the strap should not be more than 500g

I. It should be CE marked as per Medical Device Directives (93/42/EEC) and manufactured in a ISO 9001:2008 and ISO 13485 certified facility

ACLS, BLS and Airways mannequins – child

ACLS Manikin Paediatric & Adult

Pediatric Manikin:

1. Pediatric full body training manikin with anatomically correct landmarks and sternalnotch.

2. Realistic size, weight and feel

3. Provision for upgradation to new guidelines

4. Airway and breathing features:

a. Anatomically accurate airways - oral and nasal passages

b. Bilateral Lungs

c. Allow mouth-to-mouth, mouth to mask and bag-valve-mask breathing

d. Allow insertion of oropharyngeal and nasopharyngeal airways

e. Allow insertion of supraglottic airway devices and endotracheal tube

f.Simulate airway occlusion, which is relieved by jaw thrust, head tilt and chin lift

g. Realistic chest rises during ventilation

5. Carotid, brachial and femoral pulse locations with pulse synchronous with simulatedECG Manual Carotid Pulse with Sychonised ECG.

6. ECG and arrhythmia simulation- ECG and arrhythmia simulation as per the AHA ACLS and PALS training protocols

a. Electrode placement areas for 4 lead monitoring

b. ECG rhythm generator with ECG rhythms including V. fib, V. tach (fast, slow andpolymorphic), A. fib, A. flutter, SVT, Sinus tach, Sinus with PVCs, Asystole, NSR, Junctional brady, Sinus brady, 2nd degree type I A-V block, 2nd degree type II A-V block, 2nd degree type II A-V block with PVCs, 3rd degree A-V block, PEA.

c. Adjustable heart rate

d. Remote control

e. Capable of teaching AED and manual defibrillation with simulated aed monitor.

f.Compatible with all standard brands and types of defibrillators and monitors.

G. The system shall be able to control the training sessions wirelessly and provide printable script of PALS and ACLS training algorhythms

H. The Manikin should be compatible with Simulated Defibrillators & AED

7. Intraosseous leg

8. Compatible laptop and interface cables

a. 14 inches or more screen size

b. Motherboard with Intel i5 or better

c. 4 GB RAM d. 80 GB or more HDD

e. Microsoft Windows 7 OS or better

f. Appropriate software to connect the manikin to the laptop provided

i.Should be upgradable to changes according to latest/new ACLS guidelines.

ii. Performance feedback iii. Event log iv. Performance report for debriefing 9. Accessories

a. Face shields and lung bags: 50 each

b. Carrying bag Patient Monitor

The monitor's color screen should be configurable and should provide multiple simulated parameters, each presenting multi-level alarms.

Simulated parameters should include HR, ECG, SpO2, BP, RR, Temperature, and etCO2

The System Must have a ISO/ CE certificate

- **ADULT ACLS MANIKIN:**

It should be able to provide training in quality chest compression as per latest AHA and ISA protocols, with basic and advanced airway management skills training, vital signs analysis, spontaneous breathing and controlled by an easy-to-use wireless instructor System,
It should include:

- Full-body Adult humanoid model with training suit
    - Airway Management head
    - Articulating Lower body
    - Blood Pressure arm and cuff
    - IV Arm
- Wireless control system
- 2x AC Adapter, USB Cable
- Blood pressure cuff
- Artificial Blood and Airway Lubricant
- carrying case
- User Guide

AIRWAY

- Realistic airway anatomy including cricoid cartilage
    - Bag-Valve-Mask (BVM)
    - Oropharyngeal and nasopharyngeal Airway
    - Supraglottic Airway Devices
    - Sellick Maneuver
- Spontaneous breathing with realistic chest rise and fall is mandate
    - Controllable On/off & breathing rate
    - SpO_2 and $etCO_2$ settings
- “Chin lift” & “Jay thrust and “Head tilt” sensors including tongue fall back

- Airway closing mechanism
    - Overrides an open airway to simulate an obstruction at any time
    - Open or closed airway status operated via wireless control

CIRCULATION

- Eyes for pupil assessment
    - Normal – Dilated – Constricted
- Automatically generated pulses synchronized with ECG
    - Radial, brachial (right arm only) and carotid pulses both sides
    - Pulse strengths dependent on BP or set individually
    - Brachial pulse off when BP cuff pressure is above 20 mmHg
    - Radial pulse off when BP cuff pressure is above systolic BP level
- Auscultated and palpated blood pressure simulation
    - Korotkoff Sounds synchronized with ECG
    - Systolic and diastolic pressure may be set individually in steps of 2 mmHg
    - Systolic 0-300 mmHg/diastolic 0-200mmHg
    - Auscultative Gap, with on/off feature
    - Pressure accuracy +/- 4 mmHg
    - Brachial and radial pulse control, palpated BP function
- Defibrillation capabilities (25-360j)
    - 4 – Lead ECG monitoring with 12 Lead Dynamic ECG
    - Synchronized variable rate, rhythm abnormalities and duration
    - Pacing – threshold 20 to 200 mA

QCPR

- Live feedback on Basic life support/ cardio-pulmo. resuscitation parameters

- Detailed information about chest compression, compression rate, ventilation volume and combined graphical display
- cardio-pulmo. resuscitation Performance Summary
- Debriefing Screen notes

Physiological Sounds

- **Lung sounds** breath sounds synchronized with breathing rate
    - Normal, crackles, pneumonia, stridor, wheeze, rhonchi
- Individual lung or bilateral sound selection
- **Vocal sounds** – computer generated sounds, mixed with live voice input
- **Heart sounds** - synchronized with programmable ECG
    - Aortic Stenosis, Friction Rub, Austin Flint Murmur, Diastolic Murmur, Systolic Murmur, Mitral Valve Prolapse, Opening Snap 70ms, Normal
    - Intravenous cannulation for dorsum of hand, Basilic, cephalic and median veins

Logging

- Instructor can log activities and CRM skills during training sessions individually
- Log files for debriefing sessions
- cardio-pulmo. Resuscitation log file for detailed debriefing
- Downloading of logs for “after actions” review/debriefing via software
- Software for detailed summary of student performance

Wireless Instructor Faculty Control

The system shall have the ability to manage the following parameters:

BLOOD PRESSURE/PULSES

- The user shall be able to set the blood pressure level, and to make it gradually change over time.

TEMPERATURE

- The user shall be able to set the temperature level, and to make it gradually change over time. Temperature can be presented in Celsius or Fahrenheit.
- Temperature shall be displayed on the Patient Monitor

PULSE OXIMETRY (SpO2)

- The user shall be able to set the SpO_2 level, and to make it gradually change over time.

End Tidal CO2 (etCO2)

- The user shall be able to set the $etCO_2$level, and to make it gradually change over time.
- etCO2 can be presented in percentage, mmHg or kPa with individual selectable wave forms

SOUNDS

- Heart sounds synchronized with ECG
- Auscultated lung sounds synchronized with breathing, 0 - 60 BPM
- Individual lung sound selection
- Normal or abnormal bowel sounds
- Vocal sounds: Computer-generated sounds, recorded vocal sounds and real-time voice input
- User generated vocal sounds
- It should have a communication system so that faculty can be able to teach and evaluate the students with AETCOM and Patient assessment

PATIENT MONITOR

The training system shall also have the ability to work with a simulated Patient Monitor. The patient monitor shall display ECG, SpO2, etCO2, BP, Respiration rate and Temperature controllable via wireless device.

Operating mode- User control mode for total control over all parameters and auto-mode/physiological which will help run pre-programmed scenarios in a simple and effective way. Logged events, as well as events detected by the patient simulator, should automatically drive the scenario forward.

Educational support

1. The bidder shall offer a New Equipment End User Training in the concepts, skills, & aptitude to operate & maintain the simulator.
2. The bidder shall be able to arrange introductory, teaching with scenario and simulation methodology training at the customer site.

a) Should be provided with following training scenarios

1. Cardiac arrest

2. Severe Asthma
3. Chest Pain

ACLS, BLS and Airways mannequins – adult

Below are the specifications for Pediatric Airway Management Trainer

Specifications for Pediatric Airway Management Trainer:

- Manikin torso must have appearance of life-like child to teach difference between adult and pediatric anatomy for airway management procedures
- Airways must have accuracy that allow sizing and insertion of various airway adjuncts such as Oropharyngeal and Nasopharyngeal airway insertion
- Endotracheal tube insertion and securing can be practiced
- Bag valve mask ventilation can be performed
- Tracheal suctioning must be applied
- Carotid pulse should be generated manually
- Closed chest compression should be performed

Basic Life Support (BLS) Adult & Pediatric

Basic Life Support (BLS) Adult Specifications:

Technical Specification

- ➢ This manikin should focus on complete BLS training, where students learn quality CPR with real-time feedback from the manikin, BLS Protocol.
- ➢ The training system should have facility to get connected to a handheld control device for real-time CPR performance feedback with ventilation and compression as per AHA 2020 guidelines
- ➢ The training system should allow further AHA and European

resuscitation council guidelines to improve feedback with quality.

Features:

1. .

The manikin should be a **Torso** adult CPR training manikin with anatomically correct landmarks and sternal notch allow the students to practice identification of all anatomical landmarks relevant to adult CPR.

2. Realistic resistances of chest compression allow the students to experience the amount of pressure needed to perform proper chest compression in a real-life situation like.

3. The manikin should stimulate natural obstruction of the airway allows students to learn the important technique of opening the airway according to ILCOR guidelines. Occluded airway with hyperextension stresses proper head position.

4. Head tilt/chin lift and jaw thrust allows students to correctly practice airway maneuvers necessary when resuscitating a real victim.

5. Ventilation of the manikin must be possible through the following procedures:

• Mouth to Mouth

• Mouth to Nose

• Mask to mouth (Both Pocket Mask and Bag-Valve Mask(BVM))

6. The manikin must show a realistic chest rise during ventilation. The manikin should have disposable airways and easily removable face skin to avoid cross contamination.

7. The feedback system should be wireless and a graphical user interface. Feedback should compile following features: ¾ Compression Depth , Compression release (recoil) Compression frequency/score,Ventilation tidal volume/score,Ventilation frequency/score. Correct hand placement. Session time

8. Adjustable limits/thresholds for compression and ventilation (default set to GuidelinesG2020)--based on the latest (2020) AHA/ ERC/ISA guidelines on cardiopulmonary resuscitation)

9.The manikin should be supplied with a portable handheld device, Simple to use software for PC that measures the quality of CPR, providing real-time and summative feedback on compression rate, depth, release, hands-off time and othercritical components of high-quality CPR as defined in the American Heart Association Consensus Statement.

10.The manikin should also work with app based (IOS or Android) application which can measure the quality of CPR, providing real-time and summative feedback on compression rate, depth, release, Hands off time and other critical components of high-quality CPR as defined in the American Heart Association Consensus Statement.

Basic Life Support (BLS) Pediatric Specifications:

- It should be a Pediatric manikin modelled on a 5-year old child.
- It should be able to provide effective child CPR training without compromising realism.
- It should have oral and nasal passages to allows mouth-to-nose ventilation and realistic nose pinch for mouth-to-mouth ventilation.
- It should have natural obstruction of airway so that learner understands the importance of opening the airway and abdominal thrust can also be practiced
- It should facilitate head tilt/chin lift and jaw thrust for realistic airway without head tilt/chin lift or jaw thrust the airway remains obstructed.
- Anatomically correct landmarks & sternal notch Realistic resistance for chest compressions and Audible feedback confirms correct compression depth
- It should have non-rebreathing airway Disposable airway to maintain adequate hygiene level

Feedback

The BLS Torso should be able to connect with wireless tablets, smart phones and/or LCD wired feedback providing both student and instructor feedback.

Wireless Instructor Feedback –

- Software shall be available for free downloads as many time as required providing real-time wireless feedback on compressions and ventilations
- It shall be able to monitor and connect to get the live feedback from more

than 5 individual BLS Torso mannequins simultaneously for group training.

- It shall help provide improvement tips based on CPR performance
- Compression depth, rate release, time and chest compression fraction
- Indication of too little, OK or excessive ventilation volumes

Wireless Student Feedback –

- Wireless Student Feedback Software shall also be available for free downloads as many time as required providing real-time wireless feedback on compressions and ventilations, students can view and monitor their own performance for the following points
    - Compression Depth and Rate
    - Incomplete Release
    - Ventilation volume

    It also provides with summative feedback on the:
    - Overall CPR score
    - Improvement suggestions
    - CPR duration
    -

Manikins for Skin Suturing

1. Soft skin allowing wound stitching multiple times

2. Scope of new wound creation and suturing

3. Light and compact

4. Transparent to allow the trainer to observe and access trainee competence

5. Magnetic system to represent tissue strength

6. Parallel knotting tubes should be elastic for a realistic tissue response

7. Latex free

8. 2 perioperative openings represented by: Small, shallow fixed cylinder for tying in asmall opening

9. Large, deep removable cylinder, reversible for angled abdominal and gynecologicaldepth tying

10. Skills to be gained: One-handed reef knot technique, Instrument tie, Surgeon's knotslip knot, tying in a small opening, tying at depth vertically in a large opening, Tying at depth, at an angle, in a large opening

11. It should be ISO certified.

12. It should be useful for learning basic surgical skills with a range of tissue handling techniques.

It should help learn following skills

- Suturing techniques: holding/manipulation of needles, interrupted, simple and mattress, continuous, subcuticular
- Skin lesions and LA techniques: excising a skin lesion, excising a sebaceous cyst
- Hemostasis: clip tie, continuity tie, pedicle transfixion
- Tissue handling - bowel– end-to-end interrupted sutures
- Fine tissue handling: tendon repair
- Abdominal closure and drain insertion: open abdominal wall, insert drain and secure, close abdominal wall with Aberdeen knot
- Fine tissue handling: vein patch exercise
- Wound management: abscess drainage, traumatic wound debridement

Labor Cot

Technical Specifications

- The Labor Cot Frame should be made up of 60 mm X 30 mm 18 G CRCA Tubes
- The Labor Cot top should be divided into Three sections – Head Section, Fixed Section and Telescopic Leg section.
- The Labor Cot Telescopic Leg section should be made up 25.4 mm X 25.4 mm X 16 G 304 Grade Stainless Steel square tube .
- The Labor Cot Backrest section should be made up of 25.4mm Dia. X 16 G CRCA Tubes.
- The Labor Cot three sections top should be made up of Hylum Board of which Middle & leg section should be removable for easy cleaning .
- The Labor Cot should allow for the Trendlenburg positions, Reverse Trendlenburg positions and Height adjustment of all the Three Section and are to be controlled through the imported corresponding electro-mechanical actuators and it should be adjusted by soft touch Corded hand Control system and should have noiseless operations .
- The Labor Cot Link Mechanism used for Trendlenburg positions, Reverse Trendlenburg positions and Height adjustment should be made up of Solid bar & flat.
- The Backrest Section Should Be Adjusted on electro-mechanical actuator and it should be adjusted by soft touch chorded hand control system and should have noiseless operations.
- The Labor Cot leg section should be Telescoped smoothly under the Backrest section for Lithotomy Position.

- The Labor Cot Base frame should be of 60 mm x 30 mm x 16 G rectangular tubes fitted with four Nos. 125 mm dia heavy duty Non Rusting Twin Wheel swiveling castors with central locking Mechanism.
- The Labor Cot should have Detachable Polymer moulded Head End & Foot End Boards.
- The Labor Cot should have Stainless Steel telescopic detachable height adjustable IV rods with flush 2 IV rod locations.
- The Labor Cot should be provided with a pair of upholstered height adjustable knee crutches mounted on stainless steel rod.
- The Labor Cot should also have the provision for angular adjustment of knee crutches by Stainless Steel gear.
- The Labor Cot should have a pair of polymer molded railings on both sides.
- The Labor Cot should be provided with stainless steel hand grips.
- The Labor Cot should be provided with 75mm thick, 32 Kg/M^3, three section foam mattress covered with good quality removable Rexine.
- The Labor Cot should be provided with Perineal Recess at leg end.
- The Labor Cot should be provided with stainless steel tray at leg end under the perennial cut and the base should be covered with stainless Steel Sheet of 304 Grade.

1.	Overall Table top length approx	:	2110 mm to 2015 mm Length X 1010 mm to 1015 mm Width
2.	Table Top Size	:	1305 mm to 1310 mm Length X 710 mm to 715 mm Width
3.	Telescopic Leg Section	:	470 mm to 475 mm Length X 650 mm -655mmWidth

	Size		
4.	Table top elevation Height Adjustment	:	550 mm to 560 mm up to 805 mm to 815 mm adjustable
5.	Backrest	:	80 degree +/- 2 degree
6.	Trendlenburg	:	12 degree +/- 2 degree
7.	Reverse Trendlenburg	:	12degree +/- 2 degree
8.	CRCA Rectangular Pipe	:	60 mm x 30 mm x 1.6 mm thick
9.	Side rails	:	Polymer moulded
10.	Stainless Steel Telescopic IV rod	:	31.75 mm O.D. & 12 mm sliding pipe with two hooks & min. 940 to 1410 mm height adjustment.
11.	Wheels	:	Four Nos. 125 mm dia heavy duty Non Rusting Twin Wheel swiveling castors with central locking mechanism.

- Electrical Specifications:
- Normal 230 V Ac
- Switch mode power supply: Operating range from100 to 240Vac50/60 Hz.
- Electrical shock protection: Class 2
- Power consumption ideal mode: 0.5W
- Power consumption at maximum load: 120W max
- Liquid ingress protection: IPX6

- Duty Cycle: 10% (Two minutes for every eighteen minutes)

- Finishing & workmanship in the medical furniture is of prime importance and must
  be of high standard. All corners shall be rounded off so that there shall be no sharp
  corners and holes, should be burr free

- All process parameters to be as per documented IMS procedures for quality assurance
  (ISO 9001:2015, ISO 14001:2015 2004, OHSAS 18001: 2007& ISO 13485:2016 Quality
  management systems), CE certificate.
- The bed shall be in compliance with IEC 60601-2-52:2015 safety standards.
- M.S. Tubular parts, linkages, flats are to be In house, pre-treated and epoxy powder coated 50 to 100 microns

- Manufacturer should have pollution control board certificate.

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 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

- 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) 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/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.

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 60 (Number) days and to complete delivery of all the items and perform incidental services as specified in the contract within 60 (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.

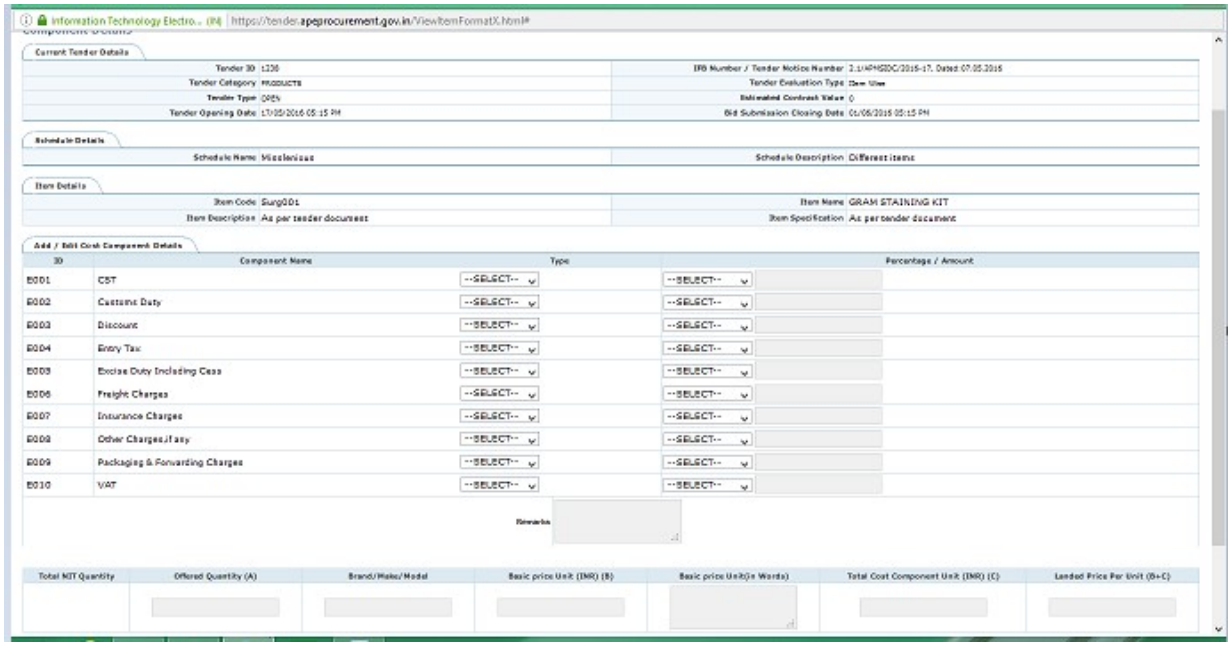
Dated this _____ day of _____

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(CA):
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 (2018-19)	Year 2 (2019-20)	Year 3 (2020-21)	Average Annual Turnover
Turn Over (In Rs. Crores)				

B. Details of Net Worth

	Year1 (Last Financial Year i.e. as on 31st March 2021)
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(CA):

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 (2018-19)	Year 2 (2019-20)	Year 3 (2020-21)	Average Annual Turnover
Turn Over (In Rs. Crores)				

B. Details of Net Worth

	Year1 (Last Financial Year i.e. as on 31st March 2021)
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(CA):
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/-	Offline
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	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 and 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- (Last 3 years), PAN and GST 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/AERB 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 tenderer	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 technical specification/key features was conducted to the satisfaction at	YES / NO

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 YES □ NO □		The equipment is working satisfactorily YES □ NO □	
The equipment was installed and handed over on *(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 Mobile No.		Sign.	
Name of Bio Medical Engr. & Organization		Sign.	
Signature of the Superintendent. Mobile No.		Sign. & Seal	
Date: Seal of supplier:		Date: 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: Seal of supplier:		Date: 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: Signature: Seal:	Name of the Supdt. / End User: Signature: 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.	