GOVERNMENT OF ANDHRA PRADESH

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

TENDER DOCUMENT

FOR

Procurement and supply of medical equipment for Up Gradation of PG Seats in existing Medical Colleges in Andhra Pradesh (2 years Rate Contract)

Tender Notice No. : **5.9A/APMSIDC/2024-25, Dt:22.01.2025.**

Name of the Agency and Address : ……

……

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Implementing Agency :

ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION
(Formerly APHMHIDC)
(AN ENTERPRISE OF GOVT. OF A.P.)
2nd Floor, Plot No:09, survey number: 49, IT Park, Mangalagiri, Guntur District- 522503.

e-mail: aphmhidc@gmail.com & ed.apmsidc16@gmail.com

Ph. No: 8978644900

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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.apmsidc.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.5.9A/APMSIDC/2024-25, Dt:22.01.2025

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

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

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

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

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

   c) Further all the participating bidders have to electronically pay a non-refundable transaction fee to M/s. APTS, the service provider through "Payment Gateway Service on E-Procurement platform", as per the Government Orders placed on the e-procurement website. As per G.O. Ms. No. 4 Date: 17- 02 -2005 for collection of Corpus fund @ 0.04 % from successful bidders on eProcurement platform through Payment Gateway) (Corpus fund @ 0.04 % shall be charged from successful bidders as per G.O. Ms. No. 4 Date: 17- 02 -2005

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 06.02.2025 to 27.02.2025 up to 02.55 PM
2.	Queries up to	10.02.2025 on or Before 1.00 P.M
2.	Due date for Receipt of tenders	27.02.2025 up to 03.00 P.M
3.	Time and date of opening of technical Bids	27.02.2025 @ 03.01 P.M
4.	Time and date of opening of financial bids	Will be intimate later

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

8. **Procedure for Bid Submission**

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

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

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

d. The Corporation shall not hold any risk on account of postal delay. Similarly, if any of the certificates, documents, etc., furnished by the tenderer are found to be false / fabricated / bogus, the bidder will be disqualified, **blacklisted for a period of 3 years**, 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 27-02-2025**. 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 **27-02-2025** at 03.01 PM.

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

23. Clarification of Bids.

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

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

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

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

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

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

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

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

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

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

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

25. Deleted.

26. Evaluation and comparison of Bids.

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

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

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

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

27. Deleted

28. Contacting the purchaser.

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

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

F. Award of Contract

29. Post - Qualification

Not Applicable

30. Award Criteria

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

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

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

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

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

33. Notification of Award.

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

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

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

34. Signing of contract

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

35. Performance security

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

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

36 Fraud and corruption

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

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

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

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

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

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

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

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

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

SECTION - III: GENERAL CONDITIONS OF CONTRACT

TABLE OF CLAUSES

Section III: General Conditions Of Contract

1. Definitions

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

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

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

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

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

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

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

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

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

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

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

(k) “Day” means calendar day

(l) “Delivery period” means the period applicable up to completion of supply,
Installation and testing of the equipment and the training of the staff on the equipment, by the supplier at the Project site and accepted by the Purchaser or its representative

2. Application

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

3. Country of Origin: Deleted.

4. Standards

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

5. Use of contract documents and Information

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

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

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

6. Patent Rights

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

7. Performance Security

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

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

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

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

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

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

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

8. Inspections and Tests.

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

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

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

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

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

9. Packing

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

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

10. Delivery and Documents

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

11. Insurance

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

12. Transportation

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

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

13. Incidental services.

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

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

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

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

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

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

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

14. Spare Parts:

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

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

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

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

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

15. Warranty

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

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

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

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

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

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

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

15.8 A warranty certificate (as per format in Annexure III) duly signed and with proper stamp of the institution concerned and also signed by the authorized signatory with the stamp of the successful tenderer shall be submitted to the Tender Inviting Authority for keeping it under safe custody along with the Installation Certificate. A copy of the original warranty papers has to be given to the institution head concerned.

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

16. Payment

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

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

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

16.4 Payment shall be made in Indian Rupees.

17. Prices

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

18. Change Orders

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

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

18.2 If any such changes causes an increase or decrease in the cost of or the time required for the suppliers performance of any part of the work under the contract, whether changed or not changed by the order, an equitable adjustment shall be made in the contract price or delivery schedule or both and the contract shall accordingly be amended. Any claims by the supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the suppliers receipt of the purchasers change order.

19. Contract Amendments

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

20. Assignment

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

21. Sub-contracts

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

22. Delays in the supplier's 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.

11.6 No conditional warranty like mishandling, manufacturing defects, etc. will be acceptable.

11.7 **Warranty as well as Comprehensive Maintenance contract** will be inclusive of all accessories and Turnkey work, and it will also cover the following wherever applicable:-

- Any kind of motor.
- Plastic & Glass Parts against any manufacturing defects.
- All kind of sensors.
- All kind of coils, probes and transducers.
- Printers and imagers including laser and thermal printers with all parts.
- UPS including the replacement of batteries.
- Air-conditioners, All kinds of painting, civil, HVAC and electrical work

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-ll), 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.

c) The Comprehensive Maintenance Contract agreement will be done by APMSIDC/ Hospital authority/ Any Authorized service provider nominated by Govt AP , as per rates given by the vendor in the tender.

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

S. No	Item Name	Qty	Warranty	CMC	EMD	Average Annual Turnover for past 3 years (2021-22, 2022-23, 2023-24)
1	800mA Digital Fluoroscopy Unit	10	3	4	7,50,000	6,25,00,000
2	Computerized radiography (CR) with single cassettes	10	3	4	3,00,000	2,50,00,000
3	Computerized radiography (CR) with multi cassettes	10	3	4	4,50,000	3,75,00,000
4	Digital Mammography System with Tomosynthesis	10	3	4	15,00,000	12,50,00,000
5	CR Cassettes	106	3	4	15,90,000	13,25,00,000
6	ICU Ventilator	20	3	4	8,10,000	6,75,00,000
7	Neonatal Ventilator	10	3	4	4,20,000	3,50,00,000
8	Pacemaker (Temporary) - Single Chamber	10	3	4	1,50,000	1,25,00,000
9	Holter Monitor	10	3	4	1,05,000	87,50,000
10	Treadmill Test System	10	3	4	1,50,000	1,25,00,000
11	Heart Lung Machine with TCM	10	3	4	27,00,000	22,50,00,000
12	Sternal Saw Handpiece	10	3	4	60,000	50,00,000
13	Anesthesia Workstation	37	3	4	13,32,000	11,10,00,000
14	Fibre Optic Laryngoscope	10	3	4	8,400	7,00,000
15	Peripheral Nerve Stimulator	10	3	4	42,000	35,00,000
16	Pre sterile scope sets for Bronchoscope	10	3	4	9,000	7,50,000
17	Biopsy Punches	100	-	-	2,400	2,00,000
18	Hyfractor/Electro Surgical Instruments	2	3	4	4,800	4,00,000

19	Iontophoresis	1	3	4	300	25,000
20	NBU chamber	2	3	4	24,000	20,00,000
21	PUVA chamber total Body	2	3	4	24,000	20,00,000
22	Woods lamp	1	1	-	600	50,000
23	Operating Microscope for Plastic Surgery	1	3	4	60,000	50,00,000
24	Instrument Set For Orthognathic/ Maxillofacial Surgery	1	1	-	750	62,500
25	Instrument Set For Rhinoplasty	2	1	-	1,500	1,25,000
26	Instrument Set For Micro Surgery	4	1	-	42,000	35,00,000
27	Skin Grafting Mesher	1	1	-	2,100	1,75,000
28	Co2 Laser	4	3	4	3,00,000	2,50,00,000
29	Visual Field Analyser	2	3	4	60,000	50,00,000
30	Non-Contact Tonometer	5	3	4	15,000	12,50,000
31	Streak Retinoscope	6	3	4	45,000	37,50,000
32	Ophthalmic Operating Microscope with teaching aid	8	3	4	1,44,000	1,20,00,000
33	Trial Frame and Refraction lens sets	6	1	-	9,000	7,50,000
34	Auto lensometer	4	3	4	24,000	20,00,000
35	Direct Ophthalmoscope	2	3	4	6,000	5,00,000
36	Slit lamp with teaching aid:	2	3	4	12,600	10,50,000
37	Nd- Yag Laser:	5	3	4	2,25,000	1,87,50,000
38	Analgesimeter	1	1	-	345	28,750
39	Mossos ergograph	1	1	-	660	55,000

40	Perimeter(priestly smith)	1	1	-	900	75,000
41	PT and aPTT automated analyzer	3	3	4	10,800	9,00,000
42	Gel Electrophoresis unit	5	3	4	9,000	7,50,000
43	Paper chromatography chamber	4	1	-	54,000	45,00,000
44	Water bath	10	3	4	3,000	2,50,000
45	Hysteroscope	10	3	4	13,93,500	11,61,25,000
46	Cryo cautery	10	3	4	3,60,000	3,00,00,000
47	Binocular microscope with camera	8	3	4	60,000	50,00,000
48	Digital water bath	5	3	4	13,875	11,56,250
49	Laminar flow vertical	2	3	4	9,600	8,00,000
50	Equipment for Psychological evaluation	9	3	4	2,700	2,25,000
51	Kidney Transplant Instruments	1	1	-	24,000	20,00,000
52	CAPD Equipments	2	3	4	39,000	32,50,000
53	Vascular Access Instruments	2	1	-	900	75,000
54	Kidney Biopsy Instruments	3	1	-	1,350	1,12,500

Processing fee: The participating bidders will have to pay tender processing fee (non-refundable) of **Rs.29,500/-** in the form of online only.

Note:

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

2. **All tender unit price will be rounded off to next nearest whole number (if price is Rs. 100.40 it will be 100 Rs. and 100.75 then it will be Rs. 101)**
3. **For the bidders quoting for more than one item, then 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 15 lakhs shall be eligible to bid for any number of equipment**
4. **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.**
5. EMD shall be furnished in the form of Demand Draft/BG/Online drawn in favour of Managing Director, APMSIDC, Guntur.
6. **All the bidders informed to quote CMC price along with equipment, if not quoted the CMC price then automatically taken as including CMC for quoted price in e-procurement platform.**
7. **The L1 will be consider on Equipment Cost (Basic Price + Tax)**
8. **Quoted required reagents prices separately.**

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 various Govt. Hospitals in Andhra Pradesh**
3. **Purchase order will be issue minimum qty 1 no or more and to be supplied to all Govt. Hospitals in Andhra Pradesh for a period of 2 years.**
4. **The life span of the equipment to be mentioned by the manufacturer.**
5. **spares and accessories for the quoted model will be available till the life span as mentioned.**
6. **There should be a support of minimum of l0 years for the quoted model (Based on the Life Span) for the equipment which are above 5 lakhs.**

Technical Specifications:

1. 800mA DIGITAL FLUOROSCOPY UNIT

Digital Fluoroscopy System with dynamic fixed Flat Panel Detector in Remote Controlled RF table & Unit should be capable of doing all types of Fluoroscopic examinations like GI examination, ERCP, barium studies, along with routine radiography procedures.
Technical Specifications:
X Ray Generator:
High Frequency X-Ray generator having Frequency of 100 KHZ or more should be provided.
Power output of generator should be 50 KW or more.
Radiography KV range should be 40 to 150 KV or more. Fluoroscopy KV range should be 40 to 120 KV or more.
mA range (Radiography.): up to 800 m A or more at 80 KV mA range (Fluoroscopy): Normal fluoro mode: up to 3m A, HD/ Fluoro Cine mode: up to 6m A
Exposure time (Rad.): l ms to 2 sec.or more mAs range : 1 to 300 mAs or more
Control Panel:
Digital Display of Radiography kV & mAs and Fluoro kV & mA and Cine kV & mA Spot kV and mAs.
Integrated touch panel TFT display for various X-Ray function and indications.
Exposure parameters can be controlled from Acquisition software as well as from Touch Panel Display.
Manual and Automatic brightness stabilization (ABS) in fluoroscopic Modes.
Exposure indication on Acquisition Software.
Self-diagnostic Program with Indicators for Earth fault error, kV error, Filament error & Tube's Thermal Overload, Rotor fault and Phase failure indications.
Foot switch is provided for initiating the exposure for performing Fluoro and Cine and Digital Spot Procedures
2-Point mode and 3-point mode exposure technique for manual exposures in Radiography mode.
X Ray Tubes:
One No Dual Focus Rotating Anode thermally protected having focal spot of 0.6mm &1.2mm
Anode rotation speed should 9000RPM minimum
Anode heat storage capacity of tube should be more than 600 KHU.
Collimator with white LED bulb with provision for auto cut off after 45 seconds
HV Tank:
A very compact HV tank filled with Dielectric transformer oil should be provided. The HV tank should contain HV transformer, filament transformers, HV rectifiers & HV cable receptacles.
X Ray Tubes:
One No. Dual Focus Rotating Anode thermally protected having focal spot of 0.6mm

&1.2mm
Anode rotation speed should 9000 RPM minimum
Table:
Remote controlled, motorized RF Table should be provided. Table should have integrated console. Table should have scratch resistant tabletop.
Table should have soft start and stop with following minimum features.
Motorized Tilt: Vertical +90º to -30º or more Trendelenburg.
Table has automatic stop at Horizontal & Vertical position during tilt movement
Motorized Transverse movement of tabletop:30cm or more
Motorized Longitudinal movements of imaging unit i.e Tube column – detector movement: 100cm or more.
Integrated bucky for flat panel detector for general radiography and fluoroscopy.
Remotely operated compression device.
Foot switch for releasing fluoroscopy and acquisition.
Patient weight carrying capacity: 250kg.
Intercom system to communicate with the patients.
Table accessories: 1No. Each Handgrip, compression band, footrest.
Detector:
Digital solid state Flat Panel Detector should have a detector size of 14x14” (35x35cm), image matrix size of 3K x3K or more with A/D conversion of 16bits, Pixel size of less than 140µm and detector resolution of 3.3. lp/mm with DQE of 65% or more
Image acquisition software:
Should have features such as
Exposure modes: RF (Flouro, Cine and Spot), DX (Radiography) Frame rate of: Up-to 15 FPS Pulsed X-Ray, with 1024×1024 (1K×1K Image resolution) with live and reference examination layouts.
Parameters such as WW/WL, Zoom, Flip, Frame rate, software shuttering Automatic WW/WL adjustment for Radiography, Automatic WW/WL adjustment for Fluoro, Cine, Spot according to the selected procedures
Post processing Parameters: WW/WL, Zoom, Magnify, Invert, Flip Horizontal, Flip Vertical, Annotations, Image Layouts, Play DICOM Loops, Frame by Frame Image View, Software Shutter, Crop, Tagging of Images, Angle and Length measurement. Image stitching with provision of 4 or more image stitching should be provided. Necessary hardware as well as software should be provided.
Image Acquisition System Configuration: Image Acquisition system with Intel core i7 processor (3.1GHz), 16 GB RAM, 1TB HDD & 500GB SSD and OS Windows 10 or latest, 64Bit or Higher. 27” wide screen Monitor with 4K Resolution (2 Nos.), 3KVA online UPS , High Resolution Graphic Card, Gigabit LAN Ports (3 No.)
Additional reporting workstation with 19” Medical display monitor with DICOM Store, DICOM Print to be provided
Accessories:
Machine should be supplied with 4 No. light weight whole body lead aprons.
Power Supply:
Power unit: Input voltage- 400V-440V AC, 50 HZ; 3 -phase
Stabilizer of appropriate capacity to be installed.
Availability of three phase uniform power supply.
Should be USFDA/European CE/BIS approved product
Manufacturer or Supplier should have ISO and ICMED certification for quality standards.

The model should have AERB type approved.
Warranty 3 Years warranty from date of installation. Spares and support for the system must be provided for the next 10 years CMC rates for next 7 years to be provided.
A separate toll-free number to be provided for attending all govt hospital break down calls within 24 hrs of break down.
Turnkey: The bidder/supplier should verify the site of installation prior and must quote separately for the necessary civil works and electrical works needed for installation of the equipment.

2. Computerized radiography (CR) with single cassette Loader
Image Recording System (Cassettes & Imaging Plates)
PSP image plates and cassettes approved for general radiography and mammography use must be quoted with the system. The image plates should be rigid type for improved life and to reduce artefacts from dust or roller marks.
Cassettes with Image plates:
14” x 17” ----------04 nos
10” x 12” ----------02 nos
10”x 8” ----------02 nos.
Image Reading (CR Reader / Digitizer)
a. It should be able to process standard size cassettes.
b. It should have grey scale resolution of 16 bits / pixel
c. Time to preview image of should be less than 30 secs
d. The scanning resolution of 10 micron (10 pixel/mm) should be available for all cassette sizes
e. The highest through put should be 60 plates/hr or better of the largest size cassette at 10 pixels/mm
f. It should have auto cropping feature to remove the unexposed pixels. This is to avoid zooming when smaller body parts are examined with larger image plates.
g. The digitizer should have the capability to change the scanning resolution depending upon examinations i.e. at 5 pixel/mm, 6.6 pixel/mm & 10 pixel/mm
Processing Sever/CR Workstation with 19” LCD or LED Panel
a. PC based unified server. Workstation for centralized patient identification & management of Images / Studies. A separate viewing console with 19” LCD or LED Panel to be provided along with the main work station.
The RAM should be minimum 16GB with 500 GB SSD and 1 TB hard disk at least. The storage capacity more than 20,000 images in both workstation and viewing station.

b. Process of identification should be ready for interface with existing Hospital Information System (HIS) or Radiology Information System (RIS) in DICOM protocols
c. This server must provide display of acquired images with greater details of demographics, like patient / study listing for easy access.
d. This server provides full amount of post processing features like Geometric Corrections, Window / Level, Algorithms, stitching software, Annotations such as markers, predefined texts, drawing lines and geometrical shapes, measuring distances and angles and determining leg length differences, Shuttering, histograms, Zoom, Grey Scale Reversal, Edge Enhancement, Noise Reduction, Indicate Grey Scale Saturation Level, Latitude Reduction.
e. This terminal must provide a full fledge DICOM printing. Should be able to print in multiple formats (minimum 4) of a patient study, print a True Size image on any size of film.
f. Should be able to send DICOM images to a DICOM viewing stations or PACS.
g. Should be equipped with DICOM CD writer for allowing examination of a patient to be written onto a CD in DICOM format for referral purposes.
h. All the software's the digitiser and the printer must from the same manufacturer and the quoted model should be CE/FDA Approved.
i. It should possible to send images to the PACS installed at the hospital
Interconnectivity
a. Interconnectivity between various CR modules should be Ethernet/TCP IP Based i.e. RJ 45 Connection (10/100 Base T/LAN)
Accessories
a. Application related software like black border / black masking should be available
b. A set of CR image plate cleaner should be supplied with the unit
U.P.S: A suitable UPS with at least 60 minutes back up should be quoted with the system. 1.5-ton AC to be supplied for the CR room.
Note: Price to be quoted separately for empty shell/cassette and imaging plate price for mammography compatible software and cassette to be quoted separately.
Warranty: 3 years warranty from date of installation. Spares and support for the system must be provided for the next 10 years. CMC rates for the next 7 years to be provided.
A separate toll-free number to be provided for attending all Govt hospital Breakdown calls within 24 hrs. of breakdown.
Turnkey: The Bidder/supplier should verify the site of installation prior and must quote separately for necessary civil works and electrical works needed for installation of equipment.

3. Computerized radiography (CR) with multi cassettes loader
Image Recording System (Cassettes & Imaging Plates)
PSP image plates and cassettes approved for general radiography use must be quoted with the system. The image plates should be rigid type for improved life and to reduce artefacts from dust or roller marks.
Cassettes with Image plates:
14” x 17” ----------04 nos
10” x 12” ----------02 nos
10”x 8” ----------02 nos.
Image Reading (CR Reader / Digitizer)
a. It should be able to process standard size cassettes.
b. It should have grey scale resolution of 16 bits / pixel
c. Time to preview image of should be less than 30 secs
d. The scanning resolution of 10 micron (10 pixel/mm) should be available for all cassette sizes
e. The highest through put should be 80 plates/hr or better of the largest size cassette at 10pixels/mm
f. It should have auto cropping feature to remove the unexposed pixels. This is to avoid zooming when smaller body parts are examined with larger image plates.
g. The digitizer should have the capability to change the scanning resolution depending upon examinations i.e. at 5 pixel/mm, 6.6 pixel/mm & 10 pixel/mm
Processing Sever/CR Workstation with 19” LCD or LED Panel
PC based unified server. Workstation for centralized patient identification & management of Images / Studies.
a. A separate viewing console with 19” LCD or LED Panel to be provided along with the main work station.
The RAM should be minimum 16GB with 500 GB SSD and 1 TB hard disk at least. The storage capacity more than 20,000 images in both workstation and viewing station.
b. Process of identification should be ready for interface with existing Hospital Information System (HIS) or Radiology Information System (RIS) in DICOM protocols
c. This server must provide display of acquired images with greater details of demographics, like patient / study listing for easy access.

d. This server provide full amount of post processing features like Geometric Corrections, Window / Level, Algorithms, stitching software, Annotations such as markers, predefined texts, drawing lines and geometrical shapes, measuring distances and angles and determining leg length differences, Shuttering, histograms, Zoom, Grey Scale Reversal, Edge Enhancement, Noise Reduction, Indicate Grey Scale Saturation Level, Latitude Reduction.
e. This terminal must provide a full fledge DICOM printing. Should be able to print in multiple formats (minimum 4) of a patient study, print a True Size image on any size of film.
f. Should be able to send DICOM images to a DICOM viewing stations or PACS.
g. Should be equipped with DICOM CD writer for allowing examination of a patient to be written onto a CD in DICOM format for referral purposes.
h. All the software's the digitiser and the printer must from the same manufacturer and the quoted model should be CE/FDA Approved.
Interconnectivity
a. Interconnectivity between various CR modules should be Ethernet/TCP IP Based i.e. RJ 45 Connection (10/100 Base T/LAN)
Accessories
a. Application related software like black border / black masking should be available
b. A set of CR image plate cleaner should be supplied with the unit
U.P.S: A suitable UPS with at least 60 minutes back up should be quoted with the system. 1.5-ton AC to be supplied for the CR room.
Note: Price to be quoted separately for empty shell/cassette and imaging plate price for mammography compatible software and cassette to be quoted separately.
Warranty: 3 years warranty from date of installation. Spares and support for the system must be provided for the next 10 years.CMC rates for the next 7 years to be provided.
A separate toll-free number to be provided for attending all Govt hospital Breakdown calls within 24 hrs. of breakdown.
Turnkey: The Bidder/supplier should verify the site of installation prior and must quote separately for necessary civil works and electrical works needed for installation of equipment.

TECHNICAL SPECIFICATIONS FOR DIGITAL MAMMOGRAPHY SYSTEM WITH TOMOSYNTHESIS

	Full field digital mammography system with state-of-the-art facility, latest technology for detection of breast cancer with standard facility of Digital Breast tomosynthesis.
	The system should have the following essential features:
I	**X-RAY GENERATOR:**
1.	High frequency generator.
2.	Power output should be 4KW or more. mention the mA range, kv range, exposure time range
3	Display of parameters kV, mAs, target filter, density selection.
II	**X-RAY TUBE UNIT:**
1	Dual track with Dual focus
2	Focal spots of size 0.1mm and 0.3mm on the anode are required. Please mention the material of anode.
3	Anode heat storage capacity should be at least 150 KHU.
4	Specify the material used for filtration in the tube.
III	**GANTRY ASSEMBLY:**
1	The system should have fully motorized rotation and up / down movement.
2	The angle of C-arm movement should be at least +180° to -150°.
3	The patient compression device should be motorized, automatic, controlled by foot paddles as well as from gantry and should have multispeed variable system. Mention the compression modes available along with force range.
4	Control buttons for adjustment of height and angles should be operable from gantry as well as from foot paddles.
5	SID should be in the range of 650mm to 700mm.
6	Programmable auto positioning from acquisition work station should be available.
7	Magnification factor should be minimum 1.8 or 1.5
8	Grid ratio should be 5:1 with at least 30 lines per cm.
9	The following paddles one each should be supplied as standard.
	a. Large paddle for 18x24 cm and 24x30cms
	b. 1.5 times or more Magnification attachment with spot and field magnification paddles
IV	**EXPOSURE CONTROL**
1	Should have manual, semi-automatic and automatic mode (AEC) techniques
2	The anode track and filters shall be selected automatically and manually.
3	Should have the display facility of all parameters after exposure.
4	Should display the dose delivered after exposure.
V	**FLAT PANEL DETECTOR**
1	Should have a large flat panel detector of size at least 24x29 cm and the pixel size should be 100 micrometer or less.
2	Detector technology and material used should be mentioned.
3	Image matrix in pixel should be mentioned.
4	Please mention the expected life time of the detector.
5	No Ghosting or lag effect should be present, Image bit depth should be more

	than 12 bits.
6	DQE - 65% or more at 0 lp/mm (higher will be preferred)
VI	**DIGITAL ACQUISITION WORKSTATION:**
1	Storage capacity should be 8000 images or more
2	The following imaging processing should be possible on the work station:
	a. Measurements
	b. Zoom, magnification
	c. Brightness and contrast
	d. Image inversion e. Contrast enhancement processing
	f. Flip rotate inward g. Annotations, measurements
	h. Image evaluation like contrast enhancement histogram display, length measurements before and after comparison etc.
	i. Filming from acquisition work-station should be possible.
3	Time to display image and time between two exposures to be mentioned.
4	Should provide large, at least one 2MP medical grade LCD image monitor with high luminance.
5	State of art associated software technology should be available with the data acquisition system.
6	It should be possible to receive the demographic patient data directly from Hospital Information System. The patient data should also be able to be entered manually. Retrieval of images from CD, DVD or PACS should be possible.
7	It should be DICOM ready and mention the facilities related to connectivity.
8	Film prints and CD, DVD copying should be possible.
VII	**REPORTING WORK STATION AND ARCHIVING**
	The following monitors required are in addition to the acquisition workstation
1	Should have High contrast 5-megapixel medical grade dual head monitor / two monitors approved for Tomosynthesis by internationally reputed organization or certifying firm.
2	Kindly mention whether work station can do an immediate image display.
3	The following imaging processing should be possible on the work station also:
	a. Measurements
	b. Zoom, roam, magnification. Quadrant zooming or selected zooming function should be available
	c. Brightness and contrast
	d. Image inversion e. Contrast enhancement processing
	f. Flip rotate inward g. Annotations, measurements
	h. Filming and CD, DVD copying should be possible
4	There should be a DVD ROM drive; The RAM should be minimum 16GB. The storage capacity should be more than 16000 images. Hard disk capacity should be expandable.
VIII	**TOMOSYNTHESIS**
1	Any specific tomosynthesis compression paddles should be provided
2	Tomosynthesis scan angle should be 15 ° or more
3	Scan time should be less than 10sec - Please specify the scan time
4	Please specify the acquisition time per projection
5	Number of projections- Please specify
6	Distance between reconstructed slices-1mm or less

7	Reconstruction algorithm –please mention the reconstruction algorithm
IX	**ACCESSORIES**
1	Transparent lead radiation shield, face shield, remote service modem, quality control tool kit .
2	Dedicated online UPS for the entire machine and accessories with a minimum backup of 30 minutes.
3	Sterile covers (10 reusable) for the entire equipment including accessories
4	Zero size lead aprons – 3nos, Thyroid guards – 3nos.
X.	**Other features:**
	The unit should be notified CE/USFDA/BIS and ISO 13485
1.	Quoted equipment should comply with AERB guidelines and AERB type
XII.	WARRANTY and CMC
1.	Warranty should be for a period of 3 years, from the date of successful installation of the system. Comprehensive onsite warranty of entire system (Spares and labour) includes X-ray tube, detector, UPS and all accessories and civil, electrical and air condition work. CMC rates for next 7 years should be mentioned.
	Spares and support for the system must be provided for the next 10 Years
	Turnkey: The bidder/ supplier should verify the site of installation prior and mut quote separately for the necessary civil works and electrical works needed for installation of the equipment
	A separate toll-free number to be provided for attending all government hospitals break down calls with in 24 hours of break down.

CR Cassettes

1. The image plates should be rigid type for improved lite and to reduce artefacts from dust or roller marks.
2. The image plate of all sizes supplied should have three years comprehensive warranty and should be covered under the CMC rates offered any detect the image plate shall be replaced at free of cost during the warranty period and CMC period
3. Price to be quoted separately for empty shall & imaging plate and will be taken for evaluation

CR Cassettes (Make: Fujifilm)

SIZE	Compactable to
CR Cassettes 12x10	FUJI
CR Cassettes 17x14	FUJI
CR Cassettes 10x8	FUJI

SIZE	Compactable to
CR Cassettes 12x10	AGFA 30X

CR Cassettes 12x10	AGFA DX-M
CR Cassettes 17x14	AGFA 30X
CR Cassettes 17x14	AGFA DX-M

The separate toll-free number to be provided for attending all government hospital break down calls with in 24 hours of break down.

SPECIFICATION FOR ICU VENTILATOR

1. Should have facility for Invasive and Non-Invasive ventilation
2. Microprocessor Control suitable for Paediatric and adult ventilation.
3. An electromagnetically compatible hinged arm holder is used to hold the circuit.
4. Should have built-in touch colour screen TFT display of minimum 15” or more for display of waveforms and Monitored value. It should have both Touch Screen and Encoder Knob access simultaneously. The Display should be integrated and additional external Display will be not be accepted.
5. Should have an inbuilt facility to upgrade with EtcO2 & Spo2 Monitoring
6. Facility to Measure and display: -

a) Status indicator for ventilator mode.
b) Battery indication.
c) Press vs Time, Flow Vs Time, Volume Vs Time, Optional- Spo2 and Co2 waveforms.
d) Alarm setting
e.) Press Vs Flow, Volume Vs Flow, Press Vs volume, Volume Vs Co2 and Vol Vs FCo2 loops.

7. It should have different colour-coded displays for inspiratory and expiratory phases, trigger modes, and Windows.
8. Should be able to display 3 waveforms and two loops simultaneously in a single screen during ventilation.
9. Automatic compliance and leakage compensation for circuit and ET Tube. ET tube compensation should be applicable for the inspiration and expiration phase
10. Should have facility of log book, for events and alarms with date & time
11. Should have the following settings.

a) Tidal volume (Minimum tidal volume of 2ml is allowed, Maximum up to 2000ml)
b) Inspiratory Pressure (up to 120 cm of H20)
c) Respiratory rate 0 to 200 bpm.
d) Apnoea back up rate.
e) CPAP/PEEP
f) Pressure support. (up to 120 cm of H20)
g) Fi02 (Galvanic O2 cell covered under 3 years warranty)
h) Pause Time & Flow cycling
i) Pressure & flow Trigger
j) Inspiratory flow up to 180 Lpm

12.Monitoring and Display of the following Parameters.

a) Airway Pressure (Peak & Mean).
b) Tidal volume & Minute volume
c) Driving Pressure

d) Respiratory mechanics.
e) Lung Protective Monitoring.
g) O2 Consumption
i) Plateau Pressure.
j) Resistance & Compliance.
k) Use selector Alarms for all measured & monitored parameters.
l) Occlusion Pressure.
m) Pressure Flow & Volume curves.
13.Modes of Ventilation equipped with newer modes of ventilation: -
a) Assist /control.
b) Volume Control.
c) Pressure control.
d) Pressure support.
e) SIMV with pressure support (Pressure and volume control).
f) PEEP.
g) Inverse ratio Ventilation.
h) Non invasive ventilator- BIPAP, CPAP.
i) Apnea Ventilation, User selectable, volume & pressure control.
Should have additional Advanced Modes:
PRVC + SIMV
Volume support
MMV
Adaptive ventilation mode such as ASV or AVM or MASV or AMV is a must.
High Flow oxygen therapy facility should be present as standard
Non-Invasive Ventilation should be possible in both Volume and Pressure modes.

14.Should have built in safety alarms for Airway Pressure High & low, Minute volume, High & low, power failure, Low oxygen, High Respiratory Rate, Air Source in-operable.
15.Should operated on Built in Turbine facility backed up by the Internal Rechargeable Battery during AC mains Failure. Should operate with both High Pressure and Low flow oxygen input.
16.Should support procedures like
P/V Flex points, P0.1, Slow Vital Capacity, Plmax(Inf), Trapped Volume,
Should have lung mechanics monitoring with numeric display of resistance, compliance, lung over distension index (C20/C) to avoid lung over distension index Time Constant Tc, 16. Should have compatibility with existing central Oxygen pipe line.
17.Should be supplied with Humidifier as standard.
a) Electronic heated Respiratory Humidifier.
b) Temperature of delivered Gas on LED display.
c) Temperature should be adjustable.
d) Jar should be autoclavable
18.Quality Certification: Standards like ISO 13485
19. USFDA/European CE – 4 digit etc/Notified CE.
20.Quoted model should have CDSCO Import / Manufacturing Licence.
21. Should have IEC60601 test certificates for the quoted model and should be submitted with the bid.
22.Demonstration of the quoted model is must, preferable on site

23. Should have inbuilt Nebuliser synchronised with Inspiration and Nebulization assembly compatible with ventilator and circuit should be provided as standard
24.Should have Facility for Auxillary Pressure monitoring for monitoring Esophageal pressure.
25. Should have communication interfaces such as Nurse call, RJ-45, RS232, HDMI, USB and should be HL7 compatible.
26. Flow sensor should be differential pressure technology or Hotwire Flow sensor must be at expiratory end. Should be maintenance free reusable and autoclavable.
27. Expiratory Unit should be reusable and autoclavable type. Valve response time should be atleast 10mSec.
28. Oxygen sensor should be of Galvanic type (covered under 3 years warranty with free replacement).
29. Data storage facility for at least 240hours or more
30. Internal rechargeable battery for atleast 3hours or more, backup
31. Should have flow sensors having long life and the company shall specify the life cycle and the cost of the flow sensors, Humidifiers and other consumables/ accessories at the time of quoting the tender
32. CMC/ AMC for the least 7yrs and availability of consumables and spares till 10 years.
33. Warranty 3 years from the date of installation
34. Standard Accessories along with:
a) Patient breathing circuit of silicone for Adult &Paediatric (reusable).
b) Non invasive ventilator mask reusable for adult (3 sizes) and paediatric according to age- 4set each.
c) HME filter – 10

SPECIFICATION FOR NEONATAL VENTILATOR

1.Advanced microprocessor based neonatal ventilator for very low body weight infants (premature, new-born)- 400gm to 20Kg. The Neonatal mode should be dedicated with a reusable proximal flow sensor.
2.The neonatal ventilator should have the following ventilation modes: PLV, PCV, P-SIMV, CPAP/PS, APRV, DuoPAP, nCPAP and Volume Guarantee.
Should have High Flow Nasal cannula Therapy mode
3. Should have built in touch color screen TFT display of minimum 15” or more for display of waveforms and Monitored value. It should have both Touch Screen and Encoder Knob access simultaneously. The Display should be integrated and additional external Display will be not be accepted. Should display minimum 3 graphs and 2 loops simultaneously in a single screen.
4.Should have settings for
a. Peak Inspiratory Pressure : 1to 80 cmH2O
b. PEEP : 0 – 20 cmH2O
c. Fraction of inspired oxygen : 21 – 100%
d. Inspiratory Time : 0.1 – 3 sec
e. Expiratory Time : 0.05 – 30 sec or automatic
f. Inspiratory flow : 1 – 30Lpm
g. Rise Time: 0 to 2.0secs
h. Volume guarantee : 2 - 100ml
i. Respiratory Rate : 0 - 200 bpm
j. Tidal volume range should be minimum of 2 ml to maximum of 300 ml or more

k. Should have both Flow and pressure triggering facility.
5.Should have real time monitoring for:
a. Pressure – Peak, Plateau, Mean, PEEP
b. Expired Tidal Volume (Monitored), Expired Minute Volume, leakage in %.
c. Frequency/Rate – Set (Inspiratory), Spontaneous rate, Spont TVe, total, I.E ratio
d. FiO2, Pressure and Flow wave forms and loops
e. Should have lung Mechanics monitoring with numeric display of Resistance, compliance, Time Constant Tc (C/C20)
6.Should have in built rechargeable battery backup for minimum 180 minutes for ventilator
7.Should have automatic compliance and leak compensation for circuits and ET tubes
8.Should have backup ventilation / apnea alarm in CPAP/PSV.
9.Expiratory Transducer/ sensor/ valves should be sterilizable and reusable. Valve response time should be atleast 10mSec.
10.Should have automatic alarm settings
11. Should have inbuilt Nebuliser synchronised with Inspiration and Nebulization assembly compatible with ventilator and circuit should be provided as standard
12.It should have trending of measured parameters upto 240 Hrs
13.Alarm can be manually adjusted along with audio and visual alarms for:
a. High/low pressure
b. High/low Minute Volume/Tidal Volume
c. Apnoea alarm
d. Compressor failure
e. Failure of Sensor's
f. Tube obstruction
g. Power failure
h. Ventilator failure
14.Standard accessories (for each equipment)

A. Standard accessories to be supplied with each Equipment
a. Modular corrosion free Original Trolley
b. Servo controlled humidifier with heated wire type and reusable chamber
c. Temperature probe & adaptor-1No
d. Original Hinged arm for rail (support for patient circuit)
e. Neonatal Test Lung-2Nos
f. Hose plug for O2 and air-1each
g. Expiratory Valve per ventilator-2Nos
h. Dual heated reusable silicon neonatal patient circuit – 2Nos.

15. Should operated on Built in Turbine facility backed up by the Internal Rechargeable Battery during AC mains Failure. Should operate with both High Pressure and Low flow oxygen input.
16.Replacement guarantee should be provided for battery, expiratory valve and oxygen sensor for the entire 3 years warranty period and also the rate offered for CMC should include the replacement guarantee for battery, and oxygen sensor and expiratory valve.
17.The PM KIT shall be replaced at free of cost during the warranty and CMC period when ever required as per the recommendation of manufacturer
18.Trolley/ Cart mounting for easy transport

19.Should work with input 200 to 240Vac 50 Hz supply
20.PEEP valve should be built in
21.Patient circuit with water trap
22.The unit rate of Flow sensor, humidifier and other consumables/ accessories shall be quoted separately which will not be taken for evaluation
23.Should have proximal sensor for real time monitoring of flow at Y-piece
24. Quality Certification: Standards like ISO 13485
25 USFDA/European CE – 4 digits/Notified CE.
26.Quoted model should have CDSCO Import / Manufacturing Licence.
27. Should have IEC60601 test certificates for the quoted model and should be submitted with the bid.
28.Demonstration of the quoted model is must, preferable on site

Specifications for the Department of Cardiology

1.Pacemaker (Temporary) - Single Chamber

1. Should be a Single Chamber Pacemaker (Temporary) for bradycardia treatment before, during or after a surgery.
2. Stimulation burst and permanent stimulation should be available for high pacing rate.
3. Should be compact & easy-to-operate device, particularly suitable for emergency treatments.
4. Safety features, including automatic lead and battery check.
5. Should have continuous monitoring of the battery voltage.
6. Should have transparent cover for parameter protection.
7. Should have shock and water-resistant housing.
8. Should have back up pacing during battery change.
9. Should have Modes AOO, AAI, VOO, VII
10. Should have pacing rate 40-180 ppm.
11. Should have fast pacing (Burst rate) of 80-200 ppm.
12. Should have Pulse Amplitude of 0.1-17V
13. Should have sensitivity 1.0-20mV
14. Should have minimum battery backup > 200 hours.
15. Should have safety certificate from a competent authority CE issued by a notified body registered in European Commission / FDA (US)/Notified CE and valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.

2.Holter Monitor

1. PC Supported System with following specifications
   a) Intel I5 processor
   b) Windows licensed inbuilt OS
   c) 8 GB RAM
   d) 1 TB HDD
   e) Monitor 21 inch or more
   f) Computer table

2. Saved data should be read using integrated reading device
3. Three channel ECG recording facility
4. Supporting hardware with suitable software and laser printer
5. Adult patients
6. 5 or 7 lead cable
7. Automatic cable type detection
8. Light weight
9. 24hrs, 48hrs, 7 days
10. True signal quality check with amplitude indication
11. QT/ST Analysis
12. LCD/LED Screen
13. Shock and splash-proof design
14. Suppress artifacts
15. Available scroll function for the over view (Super page) of the ECG
16. Should be able to reedit individual form classes
17. Should be able to consolidate individual form classes
18. System should be capable of analysing various arrhythmias like ventricular ectopic, supraventricular ectopic, ventricular tachycardia, ventricular fibrillation, supraventricular tachycardia, atrial fibrillation, sinus pause
19. Operator should be able to edit and reclassify beats and arrhythmias
20. ST segment analysis should be available for all three channels
21. Any ECG print out should be possible
22. Report format should include covering page, arrhythmia analysis report, ST segment analysis, automatically and manually selected ECG strips
23. Should provide rechargeable battery and charger for recorders. Each recorder should be provided with 4 batteries and one charger
24. Unit should be CE4 digit/USFDA/BIS Certified.
25. 3 Years warranty and 4 Years CMC.

3.Treadmill Test System

System Hardware

1 System should acquire 12 lead ECG simultaneously
2 System should be able to convert analog ECG signal to Digital signal at the patient end through Wireless Acquisition Module.

Software features:

• Should be able to record Resting ECG. Exercise ECG.
• In Resting ECG should have Interpretation Software for adults and pediatrics, simultaneous 12- lead ECG analysis program
• Should have Interpretation
• During exercise mode system should display following parameters on the single screen during exercise mode.

1 12 lead raw ECG with average complexes
2 Real time ST analysis& ST-HR trends of all 12 leads
3 Enlarged QRS complex with Dynamic scanning
4 Protocol, METS, Max FIR, Target HR, Current HR, BP. Stage time, exercise time. treadmill speed & grade
5 HR detection lead, mains filter status, amplitude.
6 Should have Duke treadmill score, ST/HR slope, ST/HR loop
7 Should have QT correction: Bastet, Frederician, Framingham or Hodges
8 Should have Lead selection: Right precordial. left posterior. Frank. Neha

9 Should have Computerized measurements: - QT Dispersion -Averaged measurements
• System should have prompt for BP entry
• System should have automatic BP measurement Device from Reputed make
• System should have customized lead sequence display.
• Should have multiple screen formats (6x2, 3x4, 3x 2 etc.)
• System should have facility for Online enable or disable stage wise printouts
• Software should be able to display full disclosure of all 12 leads
• User should be able to mark the ECG waveform to enter comment at any stage.
• System should provide facility to hold the stage
• Software should have facility to change the background, grid lines, trace colors
System software should have grid at the background of tracing to measure the ST levels manually.
• Should have facility to store & recall the complete test and revalidate the ECG
• System should be able to view & print ST graphs & tables
• System should have facility to email the test as an pdf file
• System should have shortcut keys for operating important functions
• Should have automatic Blood Pressure Measurement Unit which should be integrated with the stress system for measurement during exercise.
• Should have at least 21"- 25 “Touchscreen display
• Should have Licensed Windows
• Processor Intel i5-i9 65000 CPU g3.20GHz.
• RAM: 4GB- 8 GB
• I-MD: 500GB – 1 TB
• Wireless keyboard & Mouse with BT USB dongle.
• Should have Color Laser Printer with Scanning Facility
Wireless Acquisition Module should have following features
• Should be light weight less than 120 gm inclusive of batteries
• Should work with 2 AA rechargeable batteries
• Should have Charging time less than 200 minutes
• Should have Battery capacity of at least 30 – 60 hours of Continuous display.
• Should get connected with system with Bluetooth
• Should have a safety feature like pairing to proper data transfer

System should have following printout settings: -
• Print raw rhythm during online stage wise printouts
• Printouts should be on ordinary pre-printed graph papers through laser or desk jet printer.
• Multiple print formats in landscape or portrait
• Facility to print the complete test report in review mode with a single click of mouse.
• Facility to mark the strip & take the print of marked strips
• Facility to print the ECG of any time
• Stress Test System should be US FDA/CE 4 digit/BIS approved
System should he provided with heavy duty noiseless Treadmill with following specifications - Should have 3 Phase 21-1P AC Motor with self-cooling
• Should have user weight up to 100 – 300 kg.
• Should have running area of more than 510 x 1520 mm – 600 X 1600
• Should have Speed Range of 0.8 to 25 kmph
• Should have Grade Range: 0-25%
• Should have Interactive shock cushioned deck for patient comfort & safety

• Should have Auto tensioning drive system
• Should be supplied with suitable Servo Stabilizer
• The Treadmill and stress test should be from same company
• Should be supplied with suitable online UPS for 2 – 5 hr battery backup for whole system

Specifications for the Department of CTVS

1.Heart Lung Machine with TCM

1. The system should work on 220V/50Hz, single phase AC.
2. Machine should have internal rechargeable batteries.
3. Batteries should be capable of providing power to the fully loaded system for minimum 60 minutes.
4. Two unidirectional hand cranks should be available as an additional critical safety feature.
5. Five roller pumps should be available in 3 large and 2 small raceways for adult and pediatric patients. The pump should be controlled from the central control monitor and from the pump itself and all the pumps should be inter changeable. The small pump should be able to incorporate tubing sizes ¼" and 3/8".
6. The base should provide at least 5 dedicated connections for the pumps, which can be mounted on the base or on the pole close to the surgical field to minimize tubing lengths and also the floor space. There should be option for selection of desired number of pumps. (Dual pump will be counted as only one pump).
7. Pump should display tube size, RPM rotation directions, speed flow rate, safety, status and error message.
8. Facility of monitoring all patient parameters; pumps status, patient information entered or system setting should be available on the touch screen of the central control monitor. One touch should provide any menu on the screen.
9. The screen should automatically change if any alarm condition arises thus altering the Perfusionist to take immediate remedial action. Important patient parameters should remain displayed.
10. The central control monitor should be able to configure 10-14 different perfusion screens for different equipment setups and perfusion protocol setups.
11. For interface between an appropriate type of sensor or device and the system, modules should be provided which are easily changeable. Minimum 10 slots for such modules should be available. 12. There should be facility to adjust occlusion on running-pump.
13. A gas blender should be provided.
14. There should be option for pulsatile flow operation.
15. Facility should exist such that any pump can be designated as Arterial or Cardioplegia pump.
16. Facility for setting Cardioplegia volume, dose delivery and time on the Central Control Monitor should be available.
17. There should be option for master follower operation for multidosecardioplegia.
18. Each roller pump should have magnetic interlock switch so that pump operates only when pump is controlled to protect against pump jam.
19. Should have self-adjusting tube-size clamp
20. The temperature control system should operate on 220V/50Hz single-phase supply.

21. Should be capable of rapidly providing hot and cold water for heat exchanger system in CPB machine and also for delivery of controlled-temperature-cardioplegia.
22. The control system for water bath should be microprocessor based. The range of available temperature setting should be 4-42 degrees Celsius and visible as digital display. Incremental control of temperature by each 1 degree Celsius should be available.
23. TCM should have separate port for supplying temperature-controlled water to the patient blanket.
24. The hot water circulating system should have a reservoir capacity of 5-6 litres and cold system reservoir capacity should be 7-8 litres.
25. Heat exchanger supply port should have a minimum supply of 15.0 l/min for highly responsive fast cooling & rewarming.
26. TCM system should have separate ports to drain water from the cold and hot tanks.
28. It should have valid quality certification. General Conditions applicable to each tendered equipment:
1. There would be guarantee (with spares) for five years and additional warranty for five years.
2. The product should be quoted with all the accessories. The price of all the accessories should also be quoted separately.
3. The price of major spares parts should be quoted separately. The price would be fixed for the warranty period.
4. The product or its earlier model should have been marketed in the national and international market for at least 10 years.
5. The parent company should certify that the quoted product is not going to be out of assembly line for at least three years from date of bid.
6. The parent company should give the undertaking to provide the spares during the warranty period, if required.
7. If the equipment is software based, and new software is introduced within five years, the up gradation will be provided free of cost.

2. Sternal Saw Handpiece

1. Charger unit should have facility for charging 4 batteries at a time.
2. Sternal Saw Hand piece
a. Reciprocating blade type
b. Should be autoclavable
c. Light weight
3. Resternotomy Saw Hand piece
a. Oscillating blade type
b. Sector type blade
c. Should be autoclavable
4. Should be supplied with tool kit and special container for the system.
5. Should have blade guard.
6. Should have Sternum Saw blade (set of 5).
7. Should have Resternotomy Saw blade (set of 2)
8. Should have large Li-ion batteries and small Li-ion batteries
9. Should have safety certificate from a competent authority CE issued by a notified body registered in the European commission / FDA (US)/Notified CE and valid detailed electrical and functional safety test report from ERTL. Copy of the certificate/ test report shall be produced along with the technical bid.

10. 3 Years warranty and 4 Years CMC.

SPECIFICATIONS FOR THE DEPARTMENT OF ANESTHESIOLOGY

1. ANESTHESIA WORKSTATION

Sl No	Technical Specification
A	**Basic Unit**
1.	The Unit should be a cost effective, flexible anesthesia workstation for performing and monitoring inhalation anesthesia, suitable for adult as well as neonate.
2.	The Anesthesia Workstation should have In-Built Ventilator with Colored minimum 7.5-inch TFT display, integrated CO2 absorber, vaporizers. All these components should be of the same manufacturer or brand with their label on each component.
3.	The unit should be able to connect to Central pipeline and there should be provision of one PIN Index Yoke to connect to One Emergency Gas Cylinder of O2 and N20 each. Pipeline inlet for Oxygen, Air, Nitrous Oxide. Colour coded gauges for cylinder and pipeline supply should be present.
4.	The unit should be Trolley type with 4 Wheels and min 2 Drawers and the front wheels should have locking device.
5.	Gas delivery system: Machine shall provide dual cascading Rota meter for O2 and N2O and single for Air for accurate mixing. It should work for lowflow.
6.	Hypoxic guard to provide a nominal minimum 25% concentration of oxygen in O2/N2O mixture. It should have a proven hypoxia guard design.
7.	Oxygen flush: Range: 25 to 75 L/min
8.	It should be equipped with Power on self-test routine, and machine overall checkout for leaks as well as leak test per individual vaporizers.
9.	The unit should have common gas outlet for using open circuit or vice- versa. When using open circuit, status should be shown /indicated in display.
10.	International Standards: The unit should comply with International Standards and should have European 4-digit CE Marking/US FDA/BIS – Medical Devices Certification.
B	**Breathing Systems (Close Circuit System)**
11.	It should be integrated to the CO2 absorber of minimum 800 gms and CO2 absorber should be Single/Double chamber design having easy removal and re-fitting during the operation, with CO2 bypass capability.
	Technical Specification
12.	The breathing system should have fully autoclavable at 134 deg C. Entire breathing system should not require any tool to remove. It should have Pressure Graduated APL Valve as well as Inspiratory and Expiratory Valve and single-step bag to vent switch to easily move from ventilator to manual bag ventilation.

13.	The machine should have patient airway pressure monitoring giving the Pmax, Pmean and PEEP Values
14.	Machine shall provide circle mode breathing circuit – Reusable closed circuit for Adult.
C	**Vaporizers: It should have provision to connect two selected mount vaporizers and the unit should be provided with one vaporizer equivalent toTEC – 7 type or latest, for Isoflurane. Vaporizer must be isolated from the gas flow in the off position and prevent the simultaneous activation of more than one vaporizer. Company should have own manufacturing facility of Sevoflurane and Desflurane Vapourisers. Prices are to be quoted separately.**
D	**Integrated Anesthesia Ventilator:**
15.	It should have integrated microprocessor controlled and pneumatically driven ventilator with universal bellow to avoid change of below from Neonatal to Adult.
16.	The unit should have fresh gas flow compensation during mechanical ventilation.
17.	Modes of Ventilation – VCV, PCV
18.	SIMV-VC, SIMV-PC, PSV – spontaneous mode with apnea backup for all patient type (Adult to Neonates)
19.	Manual Ventilation, and standby mode.
20.	Tidal Volume: Tidal Volume delivery 20 to 1500ml (Volume Control), 5 to 1500ml (Pressure Control)
21	Dual flow sensor should be provided at inspiratory and expiratory end.
22	Spirometry loops should be available.
23	Pressure regulated valve with 5-meter hose and connector (conversion kit) for oxygen should be provided with each machine
24	Battery, O2 Cell and flow sensor should be covered under the warranty and the prices are to be quoted separately
25	Should have a provision for mounting monitors on top of the machine and with drawers.
26	Should be supplied with medisorb or equivalent for circle absorber (4kg)

2.Fibre Optic Laryngoscope

Video blades for intubation

* Special angulated Adult Blade for difficult intubation with device for introduction of suction catheter of size 16-18 Fr., angle of view should be 70 degree or more should be provided with stylet from same manufacturer.
* Blades and connection cable should be fully immersible in disinfecting solution.
* Blades can be sterilized using plasma sterilization system. Thermal disinfection up to 93 degrees and Chemo-thermal disinfection up to 65 degrees should be permissible.
* Required blades with titanium handles with integrated camera chip and LED light illumination.
* Blades should have anti fogging mechanism.
* Accessories like protection cap for blades, tray for cleaning and sterilization of blades (at least two blades at a time) from same manufacturer should be provided.

Video Processing & Monitor

• Monitor Screen size should be 8 to 9 inch for display. Touch screen to control features with HDMI output for connecting to a big screen which can display picture simultaneously on both screens.
* Monitor should have two ports to connect two video laryngoscope blades atone time and picture can be swapped using touch screen.
* Monitor should be chargeable, to be supplied with charger and should have facility to be used while charging.
* Monitor resolution should be minimum 1926 X 1200 pixels in 16:9 format.

It should have integrated video processing & integrated recording of Video & still images should be possible on data card or USB drive with JPEG and MPEG format which can be easily transferred to the computer/laptop. Documented videos & still images should be easily recalled on the monitor.

* Monitor should have a facility to connect flexible video scope (reusable &single use) directly without any special coupler or accessory.
* Monitor should have picture-in-Picture & side-by-side mode to view images from 2 different blades or flexible video scopes.
* Monitor should be splash proof according to IP 54 and should be shockresistant.
* Monitor should have lithium-lon rechargeable batteries and run for at least 100 minutes when fully charged.
* Soft bag from same manufacturer should be supplied to place the monitor and system can also be operated without taking (onitor out from the bag.
* Product certification EC Class-1
* Same Monitor should be compatible with all the below mentioned scopes of same manufacturing principal company
* Single use video laryngoscope
* Reusable Flexible Intubation video endoscope
* Single use Flexible Intubation video endoscope

* Video Intubation endoscope with flexible

* Tip Video Trolley/ Cart:

Trolley to hang monitor with tray for fiberoptic laryngoscope should be provided from same manufacturer with height 120 cm, rollable with minimum five legs and antistatis castors, crossbar 25 cm x diameter 25 mm for positioning the monitor, with tray, dimensions (w x d x h): 30 x 20 x 10 cm.

- Video processing system including Video Blades should be from same manufacturer for total system compatibility for optimal system performance.
- Demonstration of system is must before finalization of opening finance bid.
- Should have approval from USFDA Approved/European CE 4 digit/ Notified CE/BIS.

3.Peripheral Nerve Stimulator

1. Should have a current range from 1 to 99 mA.
2. Should have a resolution of 1mA
3. Should have a digital display for current.
4. Should have short stimulus pulse duration of 0.1ms.
5. Should have frequency range between 0.1 & 99 Hz.
6. Should be able to deliver single twitch, Train of four, PTC and DBC.
7. Should have integrated electrode cable with lead.
8. Should be battery operated with rechargeable battery.
9. The equipment should conform to any one of the National/ international quality/ safety standards or the manufacturer should have ISO certification.

4.Pre sterile scope sets for Bronchoscope

1. Equipment should be disposable flexible, light weight handy and portablebronchoscope with inbuilt light source for highly infected patients
2. Scope should be available in following various sizes.
a. Outer diameter of 3.8 mm & inner diameter of 1.2 mm
b. Outer diameter of 5 mm & inner diameter of 2.2 mm
c. Outer diameter of 5.8 mm & inner diameter of 2.8 mm
3. Working length 600 mm
4. Should have suction port, oxygen port and drug installation port
5. Tip should be easily manoeuvrable, tip deflection range 180/180 degree
6. Scope should come in pre sterile packing
7. Should provide portable TFT LCD monitor of size at least 8" with touchscreen and clamp for fixing with IV stand.
8. Monitor should have minimum 8 GB storage capacity, minimum 2-hourbackup, recording facility, USB port and provision for video output
9. Monitor should run on both electricity and battery
10. Should have safety certificate from a competent authority CE issued by a notified body registered in the European commission / FDA (US)/ STQC CB Certificate/ STQC S/Notified CE Certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate/ test report shall be produced along with the technical bid. (For monitor).

Specifications of Items for Dermatology

Sl. No	Item	Specifications
1	Biopsy Punches	• 3mm • 4mm
2	Hyfractor/Electro Surgical Instruments	• Power required:230v/50Hzh • Dimensions(mm):260x300x150 • Weight:7Kg • Electrodes: insulated • Frequency:0.20 to 2.93MHz • Cut:70% cut 30% coag • Coag 60% coag 40% cut • Fulguration: available • Intensity control: Linear
3	Iontophoresis	• Power supply: 230V/50-60Hz • LCD display • Corrosion resistant aluminium electrodes • Soft PVC Foam protection Mats • Simultaneous application for hand and foot • Robust polypropylene brief case • 3 Years warranty
4	NBUV chamber	• Power supply:230V • Frequency:50

		• Power: 100W • Switch on time:30min(max) • Storage temperature: -5 to 45 deg C • Unit weight: up to 10Kg • Type of lamp: UVA or NBUVB • Useful life time of the lamp: up to 1000 hrs for UVA and 3000hrs for NBUVB • Lamp length: up to 2ft • Reflector: Aluminium
5	PUVA Chamber total Body	• Technical specifications: • Dimensions (W x D x H) • Door closed: approx. 1250-70 x 1250-1340 x 1950-2350mm • Weight (excluding packaging): approx. 230-410 kg • Lamp configuration: • UVA lamps for whole body irradiation of PUVA, each of length 1.8m-2.2 • Number of lamps:4010 • Total irradiance from chamber≥ 13mW/cm2 • Other requirements: • UV sensor system • Operated via touch screen • Acrylic glass panels • Homogeneous all-round irradiation from head to feet • Cooling system • Interior operating panel. • UV meter [UVA (320-400mm) +UVV (280-220MM)] • UV protective goggled:10No • Stabilizer for above requirement of 5KV • Automatic circuit breaker • Integrated ventilation system
6	Woods lamp	• UV light tube should emit 365nm • Main supply should be 20V AC • Carrying case and compact portable • Two ultra violet tubes are of 4watts each.

Specifications for the Department of Plastic Surgery

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Operating Microscope for Plastic Surgery

1. Working distance:
200-625 mm or better, continuously variable through motorized multifocal lens, activated through Handgrips and through control panel. Manually adjustable override.
2. Magnification range: The system must offer flat apochromatic optics with 39x or better magnification with additional magnifier
3. Focusing:
Motorized via multifocal lens activated through Hand grips & Touch screen control panel. Manually adjustable override. The system must provide automatic focusing
4. Eyepieces:
Pair of high eyes point wide field push-in eyepieces 12.5x magnification with eye guards and magnetic locks, diopter setting from -8D to +5D, also suitable for spectacles wearers
5. Light Source:
300W Xenon illumination with integrated 300W Xenon back-up with fast action lamp Change over.
The microscopes' illumination system must provide an additional light beam path to brighten up shadowed areas in the field of view.
6. Illumination Field Diameter:
Should have built in automatic zoom-synchronized illumination field diameter, with manual override and reset feature.
7. Automated illumination control:
Should have Automated Illumination. Brightness control should be linked to working distance. Illumination also can be controlled by hand switch or foot switch.
8.Autofocus Region:
It should be possible to select Large / Medium / Small region of interest for focusing through inbuilt optimized focusing algorithm.
9. Binocular tube:
Binocular tube for main Surgeon has to be foldable tube must be available that can be stretched &folded, providing a comfortable working position during surgery. Providing additional 50%detail magnification. Allowing for proper positioning of both eye level and arm positions.
10. Balancing:
The system must provide a one-touch automatic balancing of all system axes without any manual
Interaction or axis adjustments.
11. Beam Splitter: Integrated Beam Splitter (not Visible from outside/separate attachment)
12. Camera: Fully Integrated 4k Video Camera (Camera not Visible) So that maximum resolution will display & record.
13. Display:
Full HD Medical grade touch screen display system attached with the microscope system.
(No External Monitor / detachable monitor will be acceptable). The HD display should also provide option for image rotation where the camera image is rotated

180° per click. The display should show the number of videos and images taken and start / stop of the video recording.

14. Recording & storage facility:

Full HD inbuilt video recording system with integrated HDD of at least 1TB. display monitor.

16.Depth of Field:

Activates the depth of field for either High depth of field with less light and lower image resolution Or Low depth of field with lighter and higher image resolution.

17.Face-to-Face attachment: system must have face-to-face Stereo-bridge with tiltable tube 0-180°, 12x eyepieces and rotatable adapter Supports assistance in Spine surgery

18.XY Movement:

For precise positioning of the microscope, the system must offer a motorized XY movement, providing in any (even horizontal) position of the optical axis a correct XY movement.

19. Auto Draping:

Draping of the system must be facilitated by an automatic air vacuum/ Auto Drape.

20. Damping Correction:

System should have a robotic control active vibration damping mechanism to avoid disturbing vibrations.

21. Wireless foot switch with multiple functions

22. Fluorescence Filter:

Microscope should have a possible integrated Vascular Fluorescence Filter should available

23. Certification:

Microscope should have a 4-digit CE/USFDA.

25. Warranty:

3 years warranty and 4 years CMC.

INSTRUMENT SET FOR ORTHOGNATHIC/ MAXILLOFACIAL SURGERY

1. Rowe Maxilla Disimpaction Forceps - Right & Left 1
2. Hayton William Forceps - Forward Traction 1
3. Reduction Bone Holding Forceps Pointed 6" 1
4. TMJ Spreading Forceps 1
5. Double Hook Skin Retractor 1
6. Rayne Mandibular Retractor 1
7. Chin Retractor 1
8. Forked Ramus Retractor 1
9. Channel Retractor - Regular 12mm 1
10. Kilner Retractor D/E "C" Shape - Big 1
11. Condyle Retractor Double Ended 1

12. Self-Retaining Mastoid Retractor 6" 1
13. Rowe Orbital Floor Retractor - Right & Left 1
14. Superior Ramus Separater (Smith) 2
15. Soft Tissue Retractor - Reverse Lengenback 1
16. Bristow Elevator 1
17. Periosteal Elevator Fibre Handle 2 Shapes 1
18. Rowe Zygomatic Elevator 12mm 1
19. Self holding screwdrivers 1.5mm,2mm,2.5mm 1each
20. Ordinary screwdrivers 1.5mm,2mm,2.5mm –1each
21. Trocar sleev/dreill guide 1
22. Screw/plate holding foreceps 1
23. SS Wire cutter 1
24. Wire twister thick 1
25. Plier 1
26. Wire twister Fine 1
27. Kelsey fry bone awl 1
28. Plastic cheek retractor 1
29. Mini plate cutter vertical 1
30. Micromotor 1(Max.35000 RPM, power-45W)
31. Lightweight Handpiece Straight 1
32. Light weight hand piece-contra angle 1
33. Bosch hand drill 1
34. Guard for gigleys saw 1
35. Aluminium General Box - Anodized Big 1

INSTRUMENT SET FOR RHINOPLASTY

1. Gillies Skin Hook Flat Handle 1
2 Gillies Skin Hook Round Handle 1
3 Kilner Skin Hook 1
4 Double Hook Skin Retractor 1
5 Cottle Elevator Graduated 1

6 FarabeufRugine Curved 1

7 Septum Elevator 1

8 Aufricht Nasal Retractor — Solid 1

9 Kilner Alae Retractor 1

10 SENN Retractor 1

11 Davis Double Ended Retractor 1

12 Fine Chisels 2, 4mm 1

13 Nasal Septum Osteotomes With Guard 'LI' Shape 1

14 CottleOsteotome (Halfmoon) 1

15 Fine Osteotome 4, 6inm

16 Nasal Chisel With Guard 4mm - Right & Left 1

17 Fine Gouge 3mm 1

18 Nasal Saw 1

19 Hajeck Septum Elevator 1

20 Bone File Double Ended 1

21 Asch Nasal Septum Forceps Big 1

22 Walsham Nasal Septum Forceps - Right & Left 1

23 Glabella rasp curved push pull –length 20cm 1

24 Rhinoplasty scissors straight 10cms fine 1

25 Adson brown toothed forceps 1

26 Rhinoplastic Scissors, Extra delicate Curved Length 10cm 1

27 Joseph raspatory 1

28 Bone raspdouble ended rasp blades 7 and 8 medium and fine length 21cm 1

29 Adson brown non toothed forceps 12cm fine(serrated) 1

30 Walter Angular Scissors Blunt 10cm Length 1

31 Kilner Scissors Curved Flat End, 14cm Length 1

32 Needle Holder, 13cm Length 1

33 Blakesly Nasal Forceps, Straight Size 1, Working Length 11cm 1

34 Asch septum straightening forceps angled, 9" 23cm 1

35 Desmarres Lid Retractor Size 0, 5-1/2" (140mm) length 1

36 Ballenger Swivel Knife 7-1/2" 19 cm, 4 mm Blade 1

37 Sheen Cartilage Grid measuring, and photographing cartilage grafts. Measured in millimeters. 1

38 Aluminium General Box - Anodized Medium

Instrument Set for Micro Surgery

1. Needle Holders Castroviejo - 6" Straight 1
2. Needle Holders Castroviejo - 6" Curved 1
3. Micro Forceps 6" Plain 1
4. Micro Forceps 6" Platform 1
5. Scissors - Castroviejo Straight 1
6. Scissors - Castroviejo Curved 1
7. Jeweller's Forceps 1
8. Vessel Dilator 1
9. General Instruments Box with Silicone Mat - Big 1
10. Vascular clamps size 3V single-2
11. Vascular clamps size 3Vdouble- 2
12. Vascular clamps size 2V single-2
13. Vascular clamps size 2V double-1
14. Bull dog clamps small -1
15. Bull dog clamps medium-1
16. Mastoid self retaining retractor small-1
17. Vascular clamps applicator-1
18. Vascular Clamp Applicator 1

SKIN GRAFTING MESHER:

Key facts :

1 Easy to clean due to hinged bridge for opening

2 Access to blade roll

3 High grade medical stainless steel

4 Light weight, 4.5 kg or better

5 Adjustable backing roll

6 Wide range of Mesh boards Available

7 Skin graft carrier plate with an expansion factor of 1.5

8 Skin graft carrier plate with an expansion factor of 3.0

9 Skin graft carrier plates are available with different groove

10 Width to give the skin example the required expansion factor.

11 Anti-slip, nubby silicone mat 450 x 270 mm

12 Stericase for Mesher Sterilisation, 465 x 280 x 150 mm
Technical Data :

13 Size : 465 x 280 x 150 mm

14 Max. Load Capacity 5.5 kg

15 Working pressure 30psi

16 Chemical resistance Medicine and disinfectant proof.

17 Sterilisation Steam, EO, Dry heat, flash, peracetic acid, formaldehyde, HP plasma

18 Period of use 500 sterilisation cycles

19 Material anodized aluminum, 2mm of thickness

20 Approvals of 4-digit CE / US FDA

21 Skin graft carrier plate with an expansion factor of 6.0

22 Skin graft carrier plate with an expansion factor of 9.0

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CO2 laser

1. Type of Laser RF excited Co2 Laser

2.Wavelength 10600 Nm

3.The device should have Normal & Fractional Mode

4.Minimum Power 35 Watt

5.The device should have pulse duration 0.1ms to 375ms

6.The device should have emission in 9 shapes, including circle, donut, square, rectangle, triangle, hexagon, parallelogram, vertical and horizontal lines

7.The device should supports free drawing mode, enabling physicians to draw a customized shape to match with the treatment area.

8.The device should have maximum energy 300mJ

9.The device should have mininum pulse width 0.1ms

10.The device should be US FDA/4-digit CE approved.

11.3 Years Warranty and 4 Years CMC

Visual Field Analyser

1. Good Quality Goldman standard automated full field perimetry of international Standard with bowl size radius= 30 cm.
2. Suitable for central 30, neurological tests as well as full field-testing Computer and monitor should be integrated in the perimeter
3. Stimulus size I, II, III, IV, V.
4. Maximum intensity 10,000 Asb, Bowl Illumination 31.5 Asb
5. Temporal Range 90 degrees
6. Must have the facility for various test pattern like 30-2, 24-2, 10-2 macula.
7. Must have the facility for peripheral field test pattern 60-4, Nasal step, custom step, custom test
8. Threshold test strategies full threshold, Fast pack, SITA, SITA for SWAP
9. Screening field test P-60, FF-80, FF 120, Nasal step for periphery
10. Glaucoma hemi-field test, Blind test monitor
11. Video eye monitoring, Gaze tracking monitoring system
12. Verte monitoring and Head tracking
13. Inbuilt trial lens holder along with rimless lenses of different power in trial lens box as accessories (compatible with the perimeter) provided by the manufacturer of the company touch screen on CRT Monitor, Keyboard and provision of external monitor and key board Internal hard disc drive, Back up on USB drive
14. Stimulus/ Background colour white on white
15. SWAP(Blue on yellow) perimeter
16. Automatic pupil size measurement
17. Kinetic perimetry, Manual and Automated
18. Motorised chin rest Glaucoma progression analysis (GPA) software for monitoring disease progression, With visit wise graph and VFI index
19. RelEye monitor
20. Automatic trial lens (optional) price to be quoted separately.

21. Good quality laser jet printer with warranty similar to the perimeter
22. Original motorized table
23. The unit should be 4-digit CE/US FDA certified.
24. 3 years warranty and 4 years CMC.

Non-Contact Tonometer

1. Should have a measurement range of - 1 mm Hg to 60 mm Hg.
2. Working Distance - 11 mm
3. For Eye fixation there should be an - inner fixation light
4. Intra Ocular Pressure Compensation by corneal thickness
5. Result Display –LCD
6. Printer - Thermal printer with easy loading and Auto paper cutter
7. Interface - Rs.232C, LAN, USB
8. Should provide with one Motorized table and one ophthalmic surgeon's chair.
9. The unit should be 4-digit CE/US FDA certified.
10. 3 years warranty and 4 years CMC.

Streak Retinoscope

category	Specification	Requirement (Allowed Values)
Product Technical Features	Working distance	66Cm+1.5D
	Handle	Corded Handle
	Size (L x W x D) (cm x cm x cm)	23 x 2 x 2
	Weight (gm)	125 to 150
Electrical Features	Rechargeable battery	Yes
	Battery type	Li-ion
	Minimum battery back-up time (hrs)	5
	Light source	Halogen streak lamp
	Capacity of streak lamp	2.5V, 0.9A Halogen
Certifications & Reports	Product certification	4-digit CE/US-FDA
Warranty	Warranty (Yrs)	3

Ophthalmic Operating Microscope with teaching aid

1. Compact body microscope for anterior segment ophthalmic surgery.
2. High quality apochromatic optics,
3. Should have retina protection device, UV filter, and Blue blocking filter.
4. The objective lens should have a focal length of F-200 mm or more
5. Should have motorized zoom magnification, magnification factor 0.4-2.4x/1:6 with facility for manual override.
6. Motorized foot control & motorized X-Y coupling with range of 40 mmx 40mm or more.
7. Auto resetting to initial position of X-Y coupling and focus.

8. Inclinable binocular tube with IPD adjustment
9. Should have enhanced Coaxial-illumination for high contrast with source of Illumination LED with red reflux switching in/out facility.
10. Eye pieces - Push - in type and magnetic 10X.
11. Stand should have integrated power supply for all motorized functions with display and programmable facility for speeds zoom, focus, X-Y movements and settings of intensity with magnetic brakes and clutches.
12. Foot switch should be water proof or water resistant.
13. All fiber optic cable should be internally routed,
14. Warranty 3 years with next 4 years CMC.
15. UPS with 30 minutes backup.
16. Full HD Camera with recording facility up to 1 TB storage.
17. 32-inch LED which should be full HD of a reputed firm as a teaching aid.
18. The system should be a USFDA/ European 4-digit CE-approved model.
Accessories
Spare Bulb-One, with long expiry.
Dust Cover
Should operate with 200-240V, 50-6OHz
Auto cleavable caps-3 sets.

Trial Frame and Refraction lens sets

1. This trial lens set should fully complement 268 lenses of standard lens size
2.Full set must include: Sphere lens in pairs (+/-)-dioptors as follows: 0.25, 0.50, 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.25, 2.50, 2.75, 3.00, 3.25, 3.50, 3.75, 4.00, 4.25, 4.50, 4.75, 5.00, 5.25, 5.50, 5.75, 6.00, 6.50, 7.00, 7.50, 8.00, 8.50, 9.00, 9.50, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 18.00, 20.00
3.Cylinder lens in pairs (+/-) – dioptors as follows: 0.25, 0.50, 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.25, 2.50, 2.75, 3.00, 3.25, 3.50, 3.75, 4.00, 4.50, 5.00, 5.50, 6.00. Prism lenses: pairs: 0.50. Singles: 1.00, 2.00, 3.00, 4.00, 5.00, 6.00, 7.00, 8.00, 9.00, 10.00
4.Auxiliary Lenses: 0.25 and 0.50 (+/-) Jackson cross cylinder, Singles: Red Lens, Green Lens, Occluder 1.00 mm slit, Polariscope, Frosted. Pairs: Maddox, Plano, Cross, Pinhole.
5This should accompany atrial frame which can provides comfortable fit and smooth controls for quick, easy lens fitting It must have a robust design, high-quality materials and precision.
6.Quality lens frame to be provided.
7.Robust and long-lasting lockable carrying case must be included with the set.
a) The unit should be certificated with notified CE/USFDA.
b) One year warranty for manufacturing defects.

Auto lensometer

1. Should measure sphere range from -25 to +25
2. Should measure cylinder range from 0 to ±10D
3. Should measure Axis range from 1 to 180 degree in steps of 1 degree .
4. Should measure Prism range from 0 to 10
5. Should measure addition range from 0 to 10D
6. Should have a wave length of 535 to 660nm
7. Should measure lenses like glass lens, hard/soft contact lenses

8. Should have lens size maximum 10mm
a. Should have spectacle lens size 20 to 108 mm
9. Should have minimum 3.5 inch LCD/ LED colour monitor with touch screen. Should have memory function too.
10. Should be supplied with thermal printer/ink type
11. Should operate from 200 to 240v/50Hz Power supply
12. Should have UV tester, PD measuring, Auto progressive Lens measuring, distortion check
13. Should have a safety certificate from a competent authority CE/FDA(US) Copy of the certificate/test report shall be produced along with the technical bid.
14. 3 Years warranty with 4 years CMC.

Direct Ophthalmoscope

1. Should be rechargeable battery with Charger.
2. Should have halogen / LED light source
3. Should have red-free filters
4. Should have small and large spot sizes, fixation targets, slit aperture, and cobalt blue filter.
5. Should have wheel control with lens powers ranging from -25D to +40D in single dioptre steps up to 10D and 5D steps above that.
6. Should have illuminated lens dial.
7. Should have rubber brow rest.
8. Should have dust free optics and a spherical optical system.
9. Should be supplied with a carrying case.
10. If halogen lamp is used, then the following additional accessories should be supplied a. Bulb – 2 nos
11. 1 year warranty

Slit lamp with teaching aid:

Illumination

Light-source LED (slit and background illumination), Tower / Haag Streit type

Slit width 0 – 14 mm continuous

Slit length 1 – 14 mm continuous

Slit image rotatability ± 90°

Slit decentration-available, fixable at 0º

Swivelling of the slit projector->200º with scale, click stop at 0º/±45º/±60º

Swivelling of the slit illumination to the microscope axis Horizontal ± 90°, vertical 0 – 20°

Filters - Blue, halogen, red-free (green), red, neutral density filters

Microscope

Magnification changer 10x, 16x and 25x and 40x- 5 step magnification.

Ocular magnification 12.5x

Range of adjusting eye-pieces +7 to -7 dioptres

Interpapillary distance 53 – 78 mm

Advance Teaching Scope

Camera sensor size-18 mega pixel

Image and video capture, documentation and editing (image processing)

Software to be provided along with workstation.

Jpeg and mp4 export to hard drive.

Slit lamp imaging workstation with

Monitor resolution-1920x1080 pixels LCD touch screen.

Processor intel coreTM Quad core processor

Hard disc 2TB HDD RAM 16GB

Interfaces-4x USB 3.02 x isolated gigabit Ethernet port 2xRS-232 1xHDMI and Display port Audio (Mic-in/Line-Out)

Instrument base

Operation - Single-handed 3-dimensional operation of the control lever

Spatial adjustment of the instrument base 110 mm (length), 110 mm (side), 30 mm (height).

Electric supply Input 100 to 240 VAC (±10%).

Accessories

Teaching scope, mount table with adjustable height, Power cable, Dust cover.

Warranty 03 years including accessories CAMC 04 years after expiry of Warranty

Nd- Yag Laser:

Laser Wavelength -1065mm

Mode -Super Gaussian

Optical Break down -Typically.2.5mJ in air

Pulse Duration ≤ 4ns (typ. 2-3 ns)

Max. laser energy

Single Pulse, typically 10mJ

Double Pules, typically 23 m J

Triple Pulse, typically 37 m J

Energy Levels -22 steps

Pulse repetition

Frequency Max. 2.5 Hz

Focus Diameter 10 µm in air (1/e2)

Angle of exit aperture - 16

Aiming bean Laser diode 670nm, power: 5 µW - 150 µW

4- spot focusing system

Focused Shift Variable - 150 µm: 0: -150 µm

Electrical connection 100 - 240 V. • 10%. 50 - 60 Hz

Illumination- 12V; 30W halogen lamp, adjustable

Magnification- 5. 8. 12. 20, 32x through Galilean changer with 10X eyepieces and tube f = 140mm

Tube- Parallel tube f=140 mm with 50 - 78 mm PD adjustment Convergent tube should be available as option

Eyepieces - 10X high eyepoint eyepieces with • EID compensation of ametropia: 12 5X available as option S

lit adjustment - Width 0 - 14 mm, continuous

Length in steps 1/3/5/9/14 mm

isolation Transformer - The Machine should have an Isolation Transformer for Safe handling

The necessary laser protection accessories should be supplied to operate.

- US FDA/EUROPEAN CE/notified CE required.

Specifications for Gel Electrophoresis Unit

* Horizontal electrophoresis system capable of running at least 2 gels simultaneously.

* System should have a unique interlock safety system, which breaks electrical circuit when chamber lid is removed.

* System should be capable of running agarose gels.

* Should have platinum electrodes for high voltage applications and clear separation.

* Should have capacity for up-to 10 samples/gel simultaneous application.

* Should have optimized Gel Range to run Serum Proteins, Urine Proteins, hemoglobin, Immunofixation etc.

* Kits should be self-contained with all the reagents, stain and destaining solutions, gels and blotter paper to run the tests.

* Gels used should be precasted with no requirement of special tools and accessories to cast the gels.

* Serum Protein Gels can be used for Concentrated Urine /CSF samples

Specifications for Power Supply

* Capable of running both regular as well as high voltage applications

* System should have capability to store at least 5 different programs with 9 steps each.

* Voltage range: 0-600 V with 1 V Steps

* Current range: 0-500 mA with 1 mA Steps.

* Power output: 0-150W.

Should have timer settings and a linear voltage gradient for any step provided the limiting current or power is not attained.

- System should have constant voltage, current and power capabilities with automatic cross-over.
Should have ground leakage detection; overload detection and computer control with RS 232 interface for data logging with at least 3000 values logged.

* Outputs: 4 in parallel with 4 mm sockets.

Specifications for software

* System should be provided with suitable scanning unit and computer system.

* Should be simple to use windows-based software.

* Should have single screen navigation.

Should have Gel, sample, trace, demographics, patient history status, and trace analysis all visible in single window.

* Should have natural workflow from scan to report.

* Should have completely intuitive, customizable environment

* Should have full color density scan in one pass.

* Should have full suite of editing tools.

* Should have historical, multi-sample and control overlay capability.

Should have automated flagging of abnormal-normal samples.

Should have capacity of fully customizable reports.

* Should come with compatible Computer system and scanner.

* Software should have interfacing facility to transfer the patient reports through LIMS.

Paper chromatography chamber specifications:

1. Chamber body: The main container of the chamber

2. Lid: Movable lid that covers the chamber

3. Trough: A shallow container for holding the paper

4. Paper holder: A device for holding the paper in place

5. Solvent Reservoir: A container for holding the solvent.

Water bath specifications:

1. Temperature range: 20 to 100° C

2. Temperature accuracy: ±0.5 to ±1.0°C

3. Temperature uniformity: ±0.5 to ±1.0°C

4. Water capacity: 2-20 litres

5. Material: stainless steel or aluminium

Safety features:

1. Over temperature protection: inbuilt over temperature protection system to prevent over heating

2. Low water detection system: Alert the user whn the water level is too low

3. Thermal shcok protection: thermal shock protection system to prevent sudden changes in temperature.

Digital control and monitoring:

1. Digital temperature display: the water bath should have clear digital display of the temperature.

2. Temperature control: The user should be able to set and control the temperature using a digital interface.

3. Alarm functions: Temperature alarms or low water alarms.

Certifications:

1. CE marking: The water bath should comply with the relevant EU directives and carry the CE marking.

2. UL certification: The water bath should comply with the relevant UL standards and carry the UL certification mark
3.ISO 9001 compliances: The manufacturer should comply with the ISO 9001 quality management standard

<u>Technical specification for Microscope-Binocular with image analyzer</u>

Microscope:

* Trinocular upright research microscope with infinity optical system

*Should be able to perform bright field, dark field and phase contrast applications.

* LED illumination - high intensity, uniform (uniform illumination throughout the field even at low magnifications).

* Universal condenser.

* Sidentopf-type Trinocular tube with light path selector

* Nosepiece - Quintuple or above to accommodate 5 or more objectives at a time.

* Eyepieces - 10X with Field of view greater than 22mm with diopter adjustments.

* Objectives Plan Achromat or equivqlent, 4x/5x; 10x; 20x, 40x and 100x (Oil immersion). Objectives 10X, 20X, 40X & 100X should be phase contrast. All objectives including oil-immersion objective should be compatible for use with cover slip (0.17mm).

* Right Hand Stage holder with specimen holder with refocusing stage mechanism

* The microscope to be upgradable to Fluorescence Attachment

* Other essential accessories like, centering telescope, stage micrometer, immersion oil & required filters etc.

Image acquisition & analysis:

* High quality Digital camera - 5 megapixel or above CCD, with necessary image acquisition & measurement and analysis software and required firewire cables.

* Computer system for image capture & analysis - Intel i5 processor, ITB Hard disk, 4GB Ram, 2 GB graphics card, 20" monitor, Windows 7 OS and a suitable UPS with 20 mts backup and high quality colour printer.

* The microscope and camera should be from the same manufacturer for better synchronization.

Should provide 1 Year warranty and 3 year free service for the entire system

DIGITAL WATER BATH

Technical Specifications:

1. Water Bath made of stainless steel with 4 chambers each with capacity of 3-4 lit

2. Instrument must be anti-corrosive

3. Must be equipped with temperature range from ambient to 100° C

4. Must be equipped with digital temperature and time reset option

5. Must be equipped with digital temperature and time display and 0.1°C and 01 sec readability

6. Should have microprocessor control

7. Should have an auto-on and auto-off timer's to optimize operation schedules

8. Should reach required temperature in short time

9. Should have a low-level fluid protection

10. Should have water level indicator

11. Should have heat resistant transparent polycarbonate gable cover or lid

12 Power Supply of 210-240V/50-60 Hz

13. Calibration certificate with a validity period of at least 6 months

14. Demonstration and Induction training to the staff in functioning of equipment.

15. Should be FDA or IVD or CE Conformity

16. Technical service support to provide within 24 hours

VERTICAL LAMINAR AIR FLOW

Technical Specifications:

1. Should have certification of EN12469 OR equivalent standard

2. Vertical laminar flow cabinet recirculating model approximately 4Feet length X 2 feet depth

3. Made up of 304 Stainless Steel Interior and Epoxy powder coated, thermosetting powder coated

4. Door must be fully closing with sliding door

5. Must be provided with Support stand with leveling bases and solid one piece dished work surface

6. Down flow velocity of 40-70 fpm, with minimum ISO Class 5 standard

7. Should be provided with ULPA filter (efficiency of 99.999%at 0.1 micron sizes) also provided with pre-filter

8. Germicidal V lamp must be fitted

9. Light source with sufficient illumination for work space

10. Monitoring Gauges for monitoring the condition of ULPA filters as well as work space

11. Power Supply Should include 210-240V/50-60Hz

12. Validation certificate and calibration certificate for all quality check parameters with a validity period of at least 6 months must be provided

13. Demonstration and Induction training to the staff in functioning of equipment.

14. Suitable power stabilizer should be provided for continuous smooth functioning

15. Technical service support to provide within 24 hours.

TECHNICAL SPECIFICATIONS FOR HYSTEROSCOPE

SR. NO.	DESCRIPTION		
1	CAMERA CONTROL UNIT & CAMERA HEAD -COUPLER		
	High definition Laparoscopic camera system should have following features:		
	Pure Digital HD technology with high Definition video of 1920 x 1080p native resolution.		
	Should have progressive scan technology		
	Consistent use of 16:9 format for input and output for HDTV function		
	Single CMOS having hi-fidelity image transmission with digital conversion at camera head itself		
	Up to 5 or more for faculty wise surgery modes System should be able to optimize all the settings and should have surgery presets for use in different surgeries as per telescope size		
	Should be compatible for remote controlled operation of various features		
	Image Sensor: 1/3" CMOS		
	AGC Microprocessor controlled		
	Output Video Signal: HD DVI 2x 1920x1080P/I 59.94/50 FPS SD Output : 2x Composite, 2x S-Video Able to connect up to 5 or more monitors / recorders at the same time for high flexibility directly from camera console		
	Should have Full HD (1080p) medical grade USB recording system for still images and video recording		
	Camera should have function to identify blood vessels using edge & spectral enhancement algorithms		
	Camera settings (e.g. white balance, zoom, gain, sharpness etc.) should be possible directly from the camera head buttons.		
	Programmable 3 buttons on head		
	Sensitivity : 2 Lux @ f (1.4)		
	Applied standard	IEC 60601-1	
	Certification	CE Class I	
2	MONITOR 27" MEDICAL GRADE		
	One Wide Screen Monitor having the following features:		
	27" or more full HD medical grade monitor in 16: 9/10 HDTV format, LED display		
	Resolution: Minimum of 1920 x 1080 pixels		
	SDI/HD-SDI and DVI		
	View angle: 178 degree		
	All required cables and connectors, which should be specified		
	TFT/LED screen stand/Fixtures for connecting to Pendant System/Ceiling Light Arm		
	Dustproof and Drip water protected		
	With Monitor Stand		
	Applied standard	IEC 60601-1	
	Certification	CE Class I	
3	LED LIGHT SOURCE FOR WHITE LIGHT IMAGING		
	Light intensity	Equivalent to 300watt Xenon	To allow use of small diameter endoscopes & light guides. At the same time should maintain light efficiency at the distal end of endoscope
	Colour Temperature	6000K same as sunlight	To provide optimal colour rendering along with camera
	Intensity control	Feather touch buttons	

	Life span	25,000 hours or more	
	Optical sensor for fiber optic cable adapter		so that bulb will be ON only when cable is connected
	Efficient cooling technology		to generate low noise of fan & hence minimum distraction to operating persons.
	Composite input		for automatic control of intensity when camera is in fixed shutter mode
	Applied standard	IEC 60601-1	
	Certification	CE Class I	
4	FIBER OPTIC CABLE FOR LIGHT SOURCE		
	Diameter	4.8mm	
	Length	300cm	
	Fused fibers		Which can withstand high temperatures
	Autoclavable		
	Metal braided		for better protection to fibres
5	HYSTEROSCOPE		
	Optical resolution	HD	HD Optics for better contrast & color reproduction., Completely distortion free.
	Diameter	4 mm	
	Direction of view	30 degree	
	Working length for 10mm scope	330mm	
	Autoclavable		
	Laser welded joints		To avoid leakages even after numerous autoclaving cycles
	Sapphire tip		For 3 times more scratch resistance than glass
	Stainless steel body		for higher sturdiness
6	DIAGNOSTIC SHEATH		
	Continuous Flow Diagnostic INNER Sheath Ø 5.4 mm with 1 rigid stopcock, WL 260 mm, for telescope 4 mm 30°		
	Continuous flow diagnostic OUTER sheath, Ø 6,5 mm, with 1 rigid stopcock, WL 240 mm, for telescopes 4 mm 30°		
	Obturator for Diagnostic sheath		
7	CONTINUOUS FLOW OPERATING SHEATH		
	Continuous flow OPERATING sheath, OUTER, Ø 6.5 mm, WL 192 mm, one stopcock, Easy lock, for telescope 4 mm 30°		
	OPERATING sheath, INNER with 1 stopcock, channel for semi-rigid 5 CH instrument, Easy lock,		
	TCRE SET – Hybrid which can be used Monopolar & Bipolar current working element from same hystroscope Manufacturer		
	Resectoscopy OUTER sheath, 26 CH, with ROUND holes, for telescope 4 mm, Easy Lock, for inner sheath		

	Working element BIPOLAR, PASSIVE, cutting by spring action, closed handle, for single stem electrodes, 26/24 CH for telescope 4 mm
	Resectoscopy INNER sheath, 24 CH, with Ceramic insulation only, Easy Lock, for telescope 4 mm, for outer sheath
	Protection rod for working elements 24 CH
	Loop electrode 24 CH Straight, MONOPOLAR
	Loop electrode ANGLED, 24 CH, for 30° telescopes, BIPOLAR
	HF Resectoscopy MONOPOLAR cable 4 mm,
	Resectoscopy BIPOLAR cable 4 mm, 134°C autoclavable, reusable, Length 3 m
	Flexible Scissor (should be compatible to operative sheath)
	Flexible Grasper (should be compatible to operative sheath)
	Flexible Biopsy (should be compatible to operative sheath)
	Voltage Stabilizer -2KVA, specially designed to protect load from High/low voltage fluctuations.
	TERMS: - a) **The hardware for Vision System should be from the same manufacturer for immediate technical assistances and assured post-sales support.** b) **Manufacturer/Bidder should have service center in Northern India for quick service support and Manufacturer must have direct presence or registered office in India.** c) **Standard 1-year warranty on for Vision System.**

CRYOCAUTERY.

Sr. No.	Details	Specification	Qty
1.	Cryocautery machine	**General Specifications** 1. The device must be designed and certified for use of gynecological surgical procedures to treat precancerous lesion of cervical cancer. 2. The device must be supplied with an array of interchangeable probes designed for the specific use. 3. The device is unique lightweight, tether-free design offers a greater mobility to doctors during the procedure. 1. The device does not require electricity or batteries for operation 2. Special carry case for easy storage and portability. 3. Use of liquid CO2 which is widely available and more economical than N2O. 4. Single operation uses only about 500g of CO2, almost 400% more efficient than conventional cryotherapy machines. 5. Translucent applicator tube for easy visual check during operation. 6. The device must come with a warranty of minimum 1 year from date of purchase. 7. Supplier must be ISO 13485:2016 and 9001:2015 certified. 8. **Made in India & MSME registered organization preferred** **Technical Specifications** 1. Cryogen Holding Capacity- Minimum 9 gms 2. Tip Temperature - the System shall be capable of maintaining a tip temperature average of less than or equal to -50°C beginning 30 seconds after initiating the freeze cycle and lasting for an additional 150 seconds 3. Applicator tube OD – 20 ± 0.2 mm 4. Applicator tube length - 241.5 ± 1 mm **Processing Methods** The applicator and tip should be easy to clean with a wide variety of disinfectants such as - - Sterilization in steam autoclave at 121° C for 30 minutes - High level disinfection by roll-boiling for 20 minutes - HLD by cold processing by standard methods (Cidex®, Cidex OPA, 0.5% Chlorine, Sporox®II) **Shelf Life**	1 (pc)

		Cryogen should have an expiration date of 4 years from the month of manufacturer. Reuse Cryogen should be suitable to reuse a minimum of 500 - 600 times under normal use and maintains. Cost per Procedure Cryogen cost per procedure is of minimum of Rs. 190 - Rs. 210 approximately. Safety Specifications 1. The device material should be biocompatible and meeting the requirements of ISO 10993-1 standard. 2. The device should meet international safety and quality standards in accordance with EU Medical devices directive 93/42/EEC. (CE marking preferred) 3. The cryogen must be safe to be used for cryotherapy in closed environments. **Packaging Specifications** 1. The device along with its assemblies must be provided in an easy to store and carry case, so as to protect it from any mechanical shocks. 2. User operation manual must be accompanied with the device. 3. The device must be delivered in suitable outer carton to ensure there is no damage during transit. **Accessories** 1. Manufacturer assured products all accessories are easily available. **After Sales Service** 1. Manufacturer shall locally set up the technical team support and share the contact with Government Organization / Facility. 2. Manufacturer shall place a Toll-Free Help Line number for call log. 3. The lead time of Call log is minimum 3 and maximum 5 days. **Scope of AMC / CMC** Scope of AMC OR CMC is available with the manufacturer.	

Analgesimeter

Usage/Application --

Laboratory Voltage - Electric 220v

Material - SS Phase –

SINGLE Type – Digital

Timer: Digital.

Temperature controller & indicator: Digital. Temperature

Range: Ambient to 65^0C. Temperature accuracy: +/-

0.1^0C.

Variable Parameters: To adjust and control various parameters, such as the intensity and duration of the pain stimuli, the intervals between stimuli, and the mode of delivery (mechanical, thermal, etc.).

Animal Chamber: Transparent, Easy to Clean. Pedal

Switch: to freeze reading.

Data Acquisition and Analysis Software: To record data

Mosso's ergograph

Arm restrainer: l x w x h = 50 x 24 x 11 cm; Dynamometer,

10 cm long

Base of pulley system: 50 x 1 1 cm Capacity: Can

hold up to 5 kg Material: Made of steel and wood

Base material: A sun-mica topped board

1. Should have wooden board fitted with two pair of clamp for fixing forearm on armrest and a pair of steel finger holder.

2. It should have sliding plate over the board.

3. The plate should be fitted with chart holder and a vertically fitted spring loaded writing device for recording. Hook with weights (1 kg each - 10 nos)

4. Machine Should be USFDA/European CE Certified with 4 digit notifying body/ BIS approved/CE declaration of conformity/CE ii.CDSCO

5. Manufacturer should be ISO 13485 certified.

6. Warranty- 3 Years CMC-5 Years

Perimeter (Priestly smith):

1. Should have a calibrated arc, revolving chart holder.
2. Should be able to rotate in any direction and fix at any position with a tightening screw. The arc should be graduated from 0° to 90° with a

movable test object.

3. At the back of the arc arrangement should be provided for fixing of chart which has concentric circles corresponding to the degrees of arc.

4. Adjustable chin rest with leveling rod.

5. The above mentioned should be fitted over a sturdy base with receptacle for keeping charts.

6. Accessories:

a) Different sized (2mm, 5mm, 10mm), shaped (round & square) and colored (white, blue, green, red, yellow) objects.

b) Should be supplied with 20 packets of charts (100 charts/packet)

7. Machine Should be USFDA/European CE Certified with 4 digit notifying body/ BIS approved/CE declaration of conformity/CE ii.CDSCO

8. Manufacturer should be ISO 13485 certified.

9. Warranty- 1 Years It should have a vertical stand on which a metallic arc is pivoted., It should have a circular black disc to read the meridian in which there is an arc in shape of a semicircle with radius 330 mm.,

PT and aPTT automated analyzer.

Operation: Fully automated Technology:

Mechanical

Analysis: Chromogenic, Immunologic

Test type: PT, Prothrombin time, APTT, TT,

Fibrinogen Sample type: Blood, Plasma, Whole

blood

Other Characteristics: High-Throughput, with touch screen, computer assisted

Temperature control: 370C +/- 0.5

Precision: PT - %CV ≤ 5

APTT - %CV ≤

5 TT - %CV ≤

5

FIB - %CV ≤ 10sa

Psychological evaluation tests

IQ TESTS-

1. Binet Kamat Test for General Intelligence

2. WAIS (Wechsler Adult Intelligence Scale)

3. Weschler's Intelligence Scale for Children

4. Test of Nonverbal Intelligence-4 (TONI-4) edition for autism children

5. Corner's ADHD Rating Scale III

6. Malin's intelligence scale for Indian children - MISIC box

7. Seguin Form Board Test - SFBT box

8. Bhatia's battery

PROJECTIVE TESTS -

1. Rorschach Ink Blot Test

2. Thematic Apperception Test

3. Child Apperception Test

4. Sentence Completion Test

5. Rosenweig's Picture Frustration Study

PERSONALITY TESTS -

1. Minnesota Multiphasic Personality Inventory

2. Eysenck's personality questionnaire

3. 16 personality factors test

4. Children personality questionnaire

5. Meyer's Brigg's Type Indicator

6. Personality Assessment Inventory

NEUROPSYCHOLOGICAL TESTS

1. Bender Gestalt test-II

2. Raven's progressive matrices (RPM)

3. Riverbed Memory Test

4. Rey Auditory Verbal Learning Test

5. Weschler's Memory Scale - 3rd edition India

Specifications for the Department of Nephrology

1.Kidney Transplant Instruments

KIDNEY TRANSPLANTATION INSTRUMENT SET – Donor

1	CORONARY SCISSORS, 125°, 10 MM, 18 CM	1
2	CORONARY SCISSORS, 125°, 10 MM, 18 CM	1
3	SCALPEL HANDLE, NO. 4, 13.5 CM	1
4	SCALPEL HANDLE, NO. 3, 12 CM	1
5	KLING-EX, SCALPEL BLADE REMOVER	1
6	CORONARY SCISSORS, 45°, 10 MM, 18 CM	1
7	SC-Scissors,Dietrich- Potts,10mm,45°,18cm	1
8	SC-Scissors,Dietr.- Potts,10mm,125°,18cm	1
9	SC-Dissect.Scissors,Metzenb.cvd. 18 cm	1
10	SC-Scissors, Reynolds, cvd., 15,5cm	1
11	SC-Scissors, Reynolds, cvd., 18 cm	1
12	TC-SCISSORS, MAYO, CVD., 23 CM	1
13	TC-Dissecting Scissors, cvd., 18 cm	1
14	TC-SCISSORS, MAYO-LEXER,CVD., 16 CM	1
15	TC-DISS. SCISSORS, FINE, CVD. 18 CM	1

16	TC-DISS. SCISSORS, FINE, CVD.,23 CM	1
17	TC-Dress. forceps, Potts-Smith, 18.5cm	1
18	TI-ATRAUMA-FORCEPS, 1.5MM, 16 CM	1
19	Forceps, Resano, 23 cm	1
20	RING FORCEPS, STR., Ø 1.0X0.5 MM, 18 CM	1
21	RING FORCEPS, STR., Ø 1.0X0.5 MM, 21 CM	1
22	TI-RING FORCEPS, STR., 1.0X0.5 MM, 21 CM	1
23	TI-ATR. MICRO FCPS., STR., 1.2 MM, 18 CM	1
24	Tying forceps, w. plateau, 0.3 mm, 12 cm	1
25	BULLDOG CLAMP, DIETHRICH, CVD., 8 MM	2
26	BULLDOG CLAMP, DIETHRICH, CVD., 12 MM	2
27	BULLDOG CLAMP, DIETHRICH, CVD., 20 MM	2
28	ATR. BULLDOG CLAMP, STR., 20 MM	2
29	Atr. bulldog clamp, cvd., 20 mm	2
30	ATR. ORGAN SEIZING FORCEPS, 25 CM	1
31	PERITONEAL FORCEPS, MIKULICZ, 18.5 CM	4
32	PROBE, BUTTON END, Ø 2.0/2.0 MM, 18 CM	1
33	MICRO NEEDLEHOLDER, STR., W. LOCK, 18 CM	1
34	MICRO NEEDLEHOLDER, STR., W. LOCK, 21 CM	1
35	TI-MICRO NEEDLEH., STR., W. LOCK, 18 CM	1
36	Micro needleh., str.,w.lock, 1,2mm, 18cm	1

37	Micro needleh., str.,w.lock, 1,2mm,21cm	1
38	TC-MICRO NEEDELH., STR., W. LOCK, 18 CM	1
39	TC-MICRO NEEDLEHOLDER, STR., W. LOCK, 22	1
40	TC-NEEDLEHOLDER, MAYO- HEGAR, 18.5 CM	1
41	TC-NEEDLEHOLDER, DE BAKEY, 18 CM	2
42	TC-NEEDLEHOLDER, DE BAKEY, 20.5 CM	1
43	TC-NEEDLEHOLDER, RYDER- VASCULAR, 15.5 CM	1
44	TC-NEEDLEHOLDER, RYDER- VASCULAR, 17.5 CM	1
45	TC-NEEDLEHOLDER, RYDER- VASCULAR, 20 CM	1
46	Aortic Punch, Ø 4.0 mm, 15 cm	1
47	Aortic Punch, Ø 5.0 mm, 15 cm	1
48	Ti-shunt-bulld. clamp, 45°, 12 CH, 70 mm	1
49	Ti-bulldog clamp, DeBakey, str., 8cm	2
50	BULLDOG CLAMP, GREGORY-SOFT, 11 CM	2
51	ATR. PROFUNDA CLAMP, GREGORY, 18 CM	1
52	ATR. FORCEPS, DE BAKEY, 2 MM, 20 CM	1
53	APPLYING FORCEPS F. BULLD. CLAMPS, 24 CM	1
54	BULLDOG CLAMP, GLOVER, CVD., 6.5 CM	2
55	ATR. KIDNEY/PANCR. FORCEPS, 40 MM, 20 CM	2
56	ATR. KIDNEY/PANCR. FORCEPS, 50 MM, 20 CM	2
57	ATR. KIDNEY/PANCR. FORCEPS, 60 MM, 20 CM	2

58	ATR. TANGENTIAL FORCEPS, SATINSKY, 26 CM	2
59	ATR. TANGENT. FORCEPS, SATINSKY, 27.5 CM	2
60	ATR. ANAST. FCPS., LAMBERT KAY, 22.5 CM	1
61	ATR. ANAST. FCPS., LAMBERT KAY, 20.5 CM	1
62	ATR. FORCEPS, POTTS, CVD., 26 CM	2
63	ATR. FORCEPS, DE BAKEY, ANG., 19 CM	2
64	ATR. FORCEPS, DE BAKEY, 20CM	1
65	ATR. FORCEPS, DE BAKEY, ANG., 21 CM	2
66	ATR. FORCEPS, DE BAKEY, ANG., 26 CM	2
67	ATR. FORCEPS, DE BAKEY, CVD., 20 CM	1
68	ANASTOM. FORCEPS, COOLEY- DERRA, 17 CM	2
69	ANASTOM. FORCEPS, COOLEY- DERRA, 17.5 CM	2
70	Atr. forceps, Glover, spoon-sh., 21cm	2
71	Atr. forceps, Glover, spoon-sh., 26cm	2
72	NST-RED-FCPS., ANG., BL. 2,0 MM, 23 CM	2
73	NST-RED-FCPS., STR., BL. 2,0 MM, 23 CM	2
74	NST-RED-FCPS., BAY., STR., 1,0 MM, 23 CM	1
75	MARCUT BIPOL-SCISSORS, SLIM, CVD. 23 CM	1
76	BIP.-CABLE, VALLEYL-UNIT, MARTIN-INS. 3M	5
77	SS Tray, DIN, 523x251x25 mm	1
78	SS Tray, DIN, 523x251x64 mm	1
79	Lid for trays	2

80	Silicon mat	2

KIDNEY TRANSPLANTATION INSTRUMENT SET – Recipient

1	**KIDNEY TRANSPLANTATION INSTRUMENT SET - Recipient**	1
2	CORONARY SCISSORS, 125°, 10 MM, 18 CM	1
3	CORONARY SCISSORS, 125°, 10 MM, 18 CM	1
4	SCALPEL HANDLE, NO. 4, 13.5 CM	1
5	SCALPEL HANDLE, NO. 3, 12 CM	1
6	KLING-EX, SCALPEL BLADE REMOVER	1
7	CORONARY SCISSORS, 45°, 10 MM, 18 CM	1
8	SC-Scissors,Dietrich- Potts,10mm,45°,18cm	1
9	SC-Scissors,Dietr.- Potts,10mm,125°,18cm	1
10	SC-Dissect.Scissors,Metzenb.cvd. 18 cm	1
11	SC-Scissors, Reynolds, cvd., 15,5 cm	1
12	SC-Scissors, Reynolds, cvd., 18 cm	1
13	TC-SCISSORS, MAYO, CVD., 23 CM	1
14	TC-Dissecting Scissors, cvd., 18 cm	1
15	TC-SCISSORS, MAYO-LEXER, CVD., 16 CM	1
16	TC-DISS. SCISSORS, FINE, CVD., 18 CM	1
17	TC-DISS. SCISSORS, FINE, CVD., 23 CM	1
18	TC-Dress. forceps, Potts-Smith, 18.5 cm	1
19	TI-ATRAUMA-FORCEPS, 1.5 MM, 16 CM	1
20	Forceps, Resano, 23 cm	1
21	RING FORCEPS, STR., Ø 1.0X0.5 MM, 18 CM	1
22	RING FORCEPS, STR., Ø 1.0X0.5 MM, 21 CM	1
23	TI-RING FORCEPS, STR., 1.0X0.5 MM, 21 CM	1
24	TI-ATR. MICRO FCPS., STR., 1.2 MM, 18 CM	1
25	Tying forceps, w. plateau, 0.3 mm,12 cm	1
26	BULLDOG CLAMP, DIETHRICH, CVD., 8 MM	2
27	BULLDOG CLAMP, DIETHRICH, CVD., 12 MM	2
28	BULLDOG CLAMP, DIETHRICH, CVD., 20 MM	2
29	ATR. BULLDOG CLAMP, STR., 20 MM	2
30	Atr. bulldog clamp, cvd., 20 mm	2
31	ATR. ORGAN SEIZING FORCEPS, 25 CM	1

32	PERITONEAL FORCEPS, MIKULICZ, 18.5 CM	4
33	PROBE, BUTTON END, Ø 2.0/2.0 MM, 18 CM	1
34	MICRO NEEDLEHOLDER, STR., W. LOCK, 18 CM	1
35	MICRO NEEDLEHOLDER, STR., W. LOCK, 21 CM	1
36	TI-MICRO NEEDLEH., STR., W. LOCK, 18 CM	1
37	Micro needleh., str.,w.lock, 1,2mm, 18cm	1
38	Micro needleh., str.,w.lock, 1,2mm, 21cm	1
39	TC-MICRO NEEDELH., STR., W.LOCK, 18 CM	1
40	TC-MICRO NEEDLEHOLDER, STR., W. LOCK, 22	1
41	TC-NEEDLEHOLDER, MAYO- HEGAR, 18.5 CM	1
42	TC-NEEDLEHOLDER, DE BAKEY, 18 CM	2
43	TC-NEEDLEHOLDER, DE BAKEY, 20.5 CM	1
44	TC-NEEDLEHOLDER, RYDER- VASCULAR, 15.5 CM	1
45	TC-NEEDLEHOLDER, RYDER- VASCULAR, 17.5 CM	1
46	TC-NEEDLEHOLDER, RYDER- VASCULAR, 20 CM	1
47	Aortic Punch, Ø 4.0 mm, 15 cm	1
48	Aortic Punch, Ø 5.0 mm, 15 cm	1
49	Ti-shunt-bulld. clamp, 45°, 12 CH, 70 mm	1
50	Ti-bulldog clamp, DeBakey, str., 8 cm	2
51	BULLDOG CLAMP, GREGORY- SOFT, 11 CM	2
52	ATR. PROFUNDA CLAMP, GREGORY, 18 CM	2
53	ATR. FORCEPS, DE BAKEY, 2 MM, 20 CM	2
54	APPLYING FORCEPS F. BULLD.CLAMPS, 24 CM	1
55	BULLDOG CLAMP, GLOVER, CVD., 6.5 CM	2
56	ATR. KIDNEY/PANCR. FORCEPS, 40 MM, 20 CM	2
57	ATR. KIDNEY/PANCR. FORCEPS, 50 MM, 20 CM	2
58	ATR. KIDNEY/PANCR. FORCEPS, 60 MM, 20 CM	2
59	ATR. TANGENTIAL FORCEPS, SATINSKY, 26 CM	3
60	ATR. TANGENT. FORCEPS, SATINSKY, 27.5 CM	3
61	ATR. ANAST. FCPS., LAMBERT KAY, 22.5 CM	3
62	ATR. ANAST. FCPS., LAMBERT KAY, 20.5 CM	2
63	ATR. FORCEPS, POTTS, CVD., 26 CM	2
64	ATR. FORCEPS, DE BAKEY, ANG., 19 CM	2
65	ATR. FORCEPS, DE BAKEY, 20 CM	2
66	ATR. FORCEPS, DE BAKEY, ANG., 21 CM	3

67	ATR. FORCEPS, DE BAKEY, ANG., 26 CM	3
68	ATR. FORCEPS, DE BAKEY, CVD., 20 CM	1
69	ANASTOM. FORCEPS, COOLEY- DERRA, 17 CM	2
70	ANASTOM. FORCEPS, COOLEY-DERRA, 17.5 CM	2
71	Atr. forceps, Glover, spoon-sh., 21 cm	2
72	Atr. forceps, Glover, spoon-sh., 26 cm	2
73	NST-RED-FCPS., ANG., BL. 2,0 MM, 23 CM	2
74	NST-RED-FCPS., STR., BL. 2,0 MM, 23 CM	2
75	NST-RED-FCPS., BAY., STR., 1,0 MM, 23 CM	1
76	MARCUT BIPOL-SCISSORS,SLIM, CVD. 23 CM	1
77	BIP.-CABLE, VALLEYL-UNIT, MARTIN-INS. 3M	5
78	SS Tray, DIN, 523x251x25 mm	1
79	SS Tray, DIN, 523x251x64 mm	1
80	Lid for trays	2
81	Silicon mat	2

1. All Instruments should have a European CE marking certificate 4-digit notify body number or USFDA certificate.
2. The Manufacturer should have ISO 13485 certification.
3. One year replace warranty. should be submitted along with the tender documents.

2. Vascular Access Instruments

1	**Vascular Access Instruments**	Qty
2	SCALPEL HANDLE, NO. 4, 13.5 CM	3
3	SCALPEL HANDLE, NO. 3, 12 CM	3
4	SCISSORS, ANGLED 60°, 18 CM	3
5	SCISSORS, ANGLED 25°, 19 CM	3
6	SCISSORS, LOCKLIN, ANGLED, SERR., 16 CM	3
7	TC-Ligature sciss., cvd., serr., 14,5cm	3
8	DISSECTING SCISSORS, CVD., 18 CM	3
9	DISSECTING SCISSORS, CVD.,20.5 CM	3
10	DISSECTING SCISSORS, LEXER, CVD., 16 CM	3
11	DISSECT. SCISSORS, FINE, CVD. 14.5 CM	3
12	DISSECT. SCISSORS, FINE, CVD.,20.5 CM	3
13	DRESSING FORCEPS, MEDIUM WIDE, 14.5 CM	6
14	Diss. forceps, Semken, 1x2 T., 15 cm	6
15	FORCEPS, POTTS-SMITH, 1X2 T.,21 CM	6
16	ATR. BULLDOG CLAMP, STR., 10 MM	6
17	ATR. BULLDOG CLAMP, STR., 20 MM	6

18	ATR. BULLDOG CLAMP, ANG., 10 MM	6
19	ATR. BULLDOG CLAMP, ANG., 20 MM	6
20	FORCEPS, MOSQUITO, 1X2 T., CVD., 12.5 CM	12
21	HAEM. FORCEPS, MOSQUITO, CVD., 20.5 CM	3
22	FORCEPS, KOCHER, 1X2 T., STR. 14 CM	12
23	DISS. FORCEPS, OVERH.-MARTIN, S, 20.5 CM	3
24	DISS. FORCEPS, HEISS, STRONG CVD., 21 CM	3
25	DISS. FORCEPS, OVERHOLT, NO.1, 20.5 CM	3
26	DISS. FORCEPS, OVERHOLT, NO.2, 20 CM	3
27	DISS. FORCEPS, OVERHOLT, NO.3, 21.5 CM	3
28	DISS. FORCEPS, GEMINI, STR. CVD., 13 CM	3
29	DISS. FORCEPS, GEMINI, STR. CVD., 21 CM	3
30	TOWEL FORCEPS, BACKHAUS, SHARP, 11 CM	12
31	FORCEPS, GROSS-MAIER, CVD. 26,5 CM	12
32	HOOKLET, DESMARRES, 12 MM,16 CM	6
33	RETRACTOR, DELIC., SHARP, 4- PR., 16.5 CM	6
34	RETR., VOLKMANN, SEMISH., 4-PR., 22.5 CM	6
35	RETRACT., KOCHER-LANG., 25X6 MM, 21.5 CM	3
36	RETRACT., KOCHER-LANG., 40X11 MM, 21.5CM	3
37	RETRACT., KOCHER-LANG., 55X11 MM, 21.5CM	3
38	RETRACTOR, DOUBLE, ROUX, NO. 1, 14,5 CM	6
39	RETRACTOR, DOUBLE, ROUX, NO. 2, 16 CM	6
40	RETRACTOR, DOUBLE, BABY- ROUX, 12.5 CM	6
41	SPREADER, ADSON, BLUNT, 3X4 T., 26 CM	3
42	Spreader, Adson, bl., 4X5 T., 33 cm	3
43	PROBE, BUTTON END, Ø 2.0/2.0 MM, 18 CM	3
44	NEEDLEHOLDER, CRILE-WOOD, GROOVED, 15 CM	3
45	NEEDLEHOLDER, MAYO- HEGAR, 20.5 CM	6
46	NEEDLEHOLDER, MAYO- HEGAR, SLIM, 19 CM	3
47	BULLDOG CLAMP, GLOVER, ANGLED, 6.5 CM	3
48	ATR. FORCEPS, DE BAKEY, 2 MM, 16 CM	6
49	ATR. FORCEPS, DE BAKEY, 2 MM, 20 CM	6
50	ATR. FORCEPS, DE BAKEY, 2 MM, 25 CM	6
51	BULLDOG CLAMP, GLOVER, STR., 8 CM	3
52	BULLDOG CLAMP, GLOVER, CVD., 9 CM	3
53	ATR. FORCEPS, LELAND-JONES, ANG., 18 CM	3
54	ATR. FORCEPS, DE BAKEY, MED. ANG., 16 CM	3
55	ANASTOM. FORCEPS, DERRA, NO. 3, 17.5 CM	3

56	Dissector, Davis, double-ended, 24.5 cm	3
57	ATR. TISSUE FORCEPS, ALLIS, 15.5 CM	3
58	ATR. TISSUE FORCEPS, ALLIS, 20 CM	3
59	SEPTUM ELEVATOR, FREER, SH/BL, 18 CM	3
60	BOWL, METAL, H = 40, Ø 80 MM, 0.14 L	3
61	BOWL, METAL, H = 50, Ø 116 MM, 0.25 L	3
62	KIDNEY DISH, 250X140X40 MM	3
63	SS Tray, DIN, 523x251x25 mm	2
64	SS Tray, DIN, 523x251x64 mm	2
65	Lid for trays	4
66	Silicon mat	4

1. All Instruments should have a European CE marking certificate 4-digit notify body
number or USFDA certificate.
2. The Manufacturer should have ISO 13485 certification.
3. One year replace warranty. should be submitted along with the tender documents.

3. <u>kidney biopsy equipment:</u>

s.no.	Renal biopsy equipment	quantity
1	BARD max core disposable core biopsy instrument 18G * 20cm	30
2	BARD max core disposable core biopsy instrument 18G * 10cm	20

1. All Instruments should have a European CE marking certificate 4-digit notify body number or USFDA certificate.
2. The Manufacturer should have ISO 13485 certification.
3. One year replace warranty. should be submitted along with the tender document**.**

4. **<u>CAPD equipment</u>**

S.No	CAPD equipment	Quantity
1	Tenckhoff dual cuff CAPD catheter	20
2	Titanium adapter	60
3	Transfer set	20
4	Mini caps/transfer set caps	300
5	Sterile drain bags 3litres	200
6	1.5% dextrose (2litres)	100 boxes

7	2.5% dextrose (2litres)	200 boxes
8	4.25% dextrose (2litres)	50 boxes
9	Icodextrin (2litres)	50 boxes

1. All Instruments should have a European CE marking certificate 4-digit notify body number or USFDA certificate.
2. The Manufacturer should have ISO 13485 certification.
3. One year replace warranty. should be submitted along with the tender documents.

SECTION – VI

PRE - QUALIFICATION CRITERIA

(Referred to in clause 13.3 of ITB)

I. Terms of Qualification for Equipment:

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

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

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

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

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

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

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

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

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

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

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

SECTION – VII (A): BID FORM

(Name and Address of Purchaser)

Date_____

To
The Managing Director,
APMSIDC, Mangalagiri, Guntur.

Contract No._____

Gentlemen:

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

We undertake, if our bid is accepted, to commence delivery within 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.

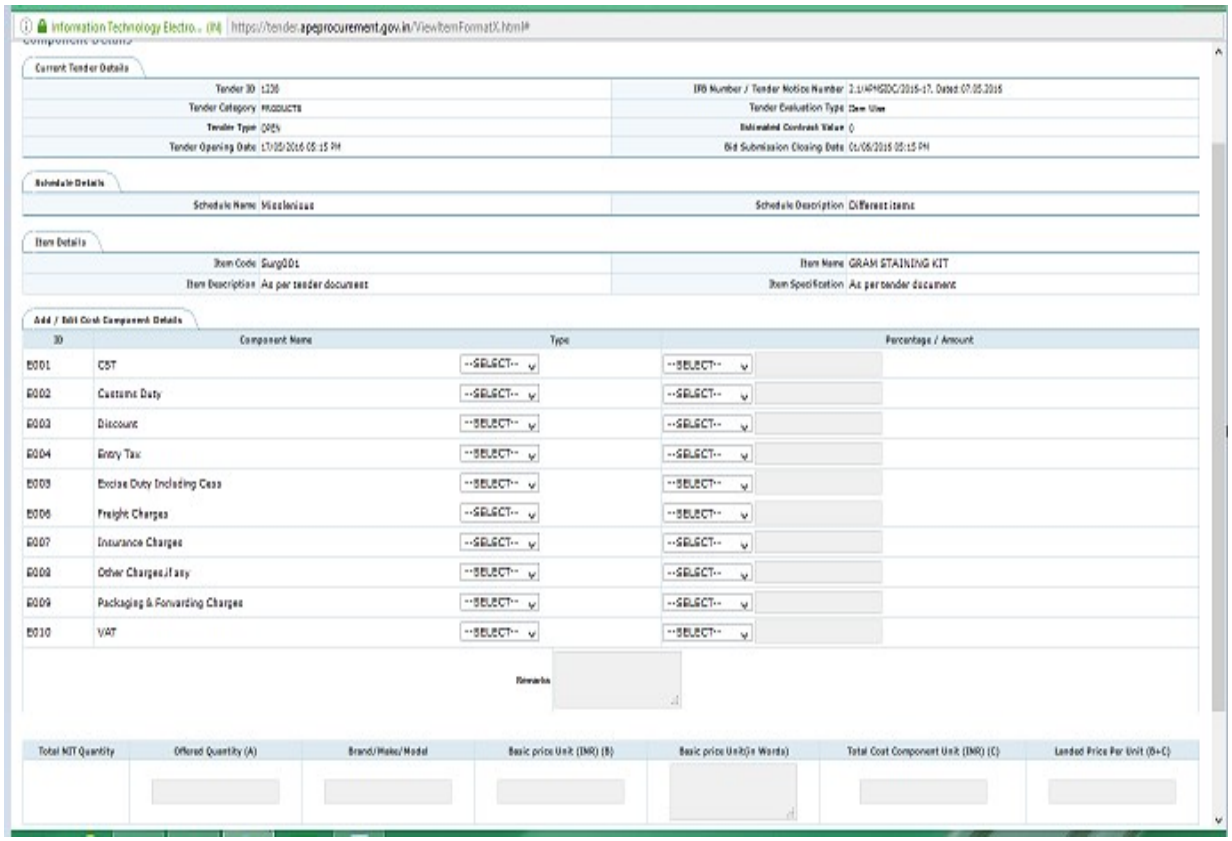
Dated this _____ day of _____

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 (2021-22)	Year 2 (2022-23)	Year 3 (2023-24)	Average Annual Turnover
Turn Over (In Rs. Crores)				

B. Details of Net Worth

	Year1 (Last Financial Year i.e. as on 31st March 2024)
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 (2021-22)	Year 2 (2022-23)	Year 3 (2023-24)	Average Annual Turnover
Turn Over (In Rs. Crores)				

B. Details of Net Worth

	Year1 (Last Financial Year i.e. as on 31st March 2024)
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 29,500/-	Online
2	EMD	Online & Offline
3	Bid Form Section VII-A	Online & Offline
4	List of items offered with Make and Model details without prices	Online & Offline
5	Manufacturers Authorization, wherever required	Online & Offline
6	Past Performance Details Format B1 along with supporting documents	Online & Offline
7	End-User Certificates or CA Certificate as per Format B2	Online & Offline
8	Financial Capability Details Format B3 for Manufacturer	Online & Offline
9	Financial Capability Details Format B3-A Distributor	Online & Offline
10	Details 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 applicable)	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.	