



GOVERNMENT OF ANDHRA PRADESH

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Web Site : <https://tender.approcurement.gov.in>

TENDER DOCUMENT

FOR

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

Tender Notice No. : 11.1B/APMSIDC/2022-23, Dt: 20.09.2022.

Name of the Work : Procurement and supply of Medical Equipment to 5 New Medical Colleges/ Hospitals in Andhra Pradesh with a period of Two Years Rate Contract

Name of the Agency :
.....
and Address
.....
.....

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

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INTRODUCTION

- 1.1. The Andhra Pradesh Medical Services & Infrastructure Development Corporation – APMSIDC (formerly APMHIDC) (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.msfdc.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)

Tender Notice No. **11.1B/APMSIDC/2022-23** Dt: **20.09.2022**.

1. Bids are invited on the e-procurement platform for certain medical equipment as described in the Section V- Schedule of Requirements from the eligible manufacturers/Authorized Distributors. The details of bidding conditions and other terms can be downloaded from the electronic procurement platform of Government of Andhra Pradesh i.e. <https://tender.apecurement.gov.in>.
2. Bidders would be required to register on the e-Procurement market place "www.eprocurement.gov.in" and submit their bids online. On registration with the e-Procurement market place they will be provided with a user id and password by the system through which they can submit their bids online.
3. The bidders need to scan and upload the required documents as per the Check list given in **Annexure XIV**. Such uploaded documents pertaining to technical bid need to be attached to the tender while submitting the bids on line. The attested copies of all these uploaded documents of technical bid, signed undertaking of tenderer should be submitted off line to **Managing Director, APMSIDC, Mangalagiri, Guntur on or before the next day of the last date of submission of bids**. The Corporation will consider only the bids submitted through on-line over the copies of the paper based bids.
4. a) The participating bidder/s will have to pay tender processing fee (non-refundable) **for the amounts specified in the Schedule of Requirements (Section –V)**, in the form of Demand Draft drawn in favour of Managing Director, APMSIDC, Guntur.

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

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

d) APMSIDC will not accept the tenders from blacklisted companies or undependable Suppliers whose past performance with APMSIDC was found poor due to delayed and/or erratic supplies and those with frequent product

failures, and also against whom there have been adverse reports of **Sub-Standard Quality / Poor Service** of Equipment supplies, as defined in the other parts of the Bidding document.

e) **“Complaint/s: Any complaints/representation regarding tender will be entertained only after depositing of Rs. 25,000/- in form of Demand Draft in the name of Managing director, APMSIDC, Mangalagiri, Guntur. Subsequently necessary action will be taken by the Managing Director and decision of Managing Director will be binding upon the complainant. If the complaint turns out to be 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 14-10-2022 to 28-10-2022 up to 02.59 PM
2.	Queries up to	18-10-2022 @ 11.00 A.M
3.	Due date for Receipt of tenders	28-10-2022 up to 03.00 P.M
4.	Time and date of opening of technical Bids	28-10-2022 @ 03.01 PM
5.	Time and date of opening of financial bids	28-10-2022 @ 5.00 PM

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

8. Procedure for Bid Submission

- a. The Tenderers/Bidders who are desirous of participating in e-procurement shall submit their Technical bids, price bids etc., in the Standard formats prescribed in the Tender documents, displayed at e-procurement market place.
- b. The bidders shall sign on all the statements, documents, certificates, uploaded by them, owning responsibility for their correctness / authenticity.
- c. The hard copies of all the uploaded Technical / Price bid, to be attested by a Gazetted Officer or properly notarized.
- d. The Corporation shall not hold any risk on account of postal delay. Similarly, if any of the certificates, documents, etc., furnished by the tenderer are found to be false / fabricated / bogus, the bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the EMD will be forfeited.
- e. The Corporation will not hold any risk and responsibility for the loss in transit during uploading of the scanned document, for the invisibility of the scanned document online, and any other problem(s) encountered by the Tenderers while submitting his bids online.

9. Important Instructions to the Bidders:

- 9.1 Quality of Supplied Equipment throughout its life cycle period, timely supplies and prompt maintenance support during the warranty and CMC period without default are being given paramount importance by the Corporation. The Corporation will be dealing with the defaulters with firm hand, which may lead to blacklisting for a specified period in addition to levying penalties.
- 9.2 In case of complaints on the quality and poor maintenance support of the products supplied, bills will be withheld till receipt of Satisfactory reports. Further:
- If one item of any Supplier is found of 'Sub-Standard Quality' during the Contract period, then that particular item will be blacklisted for a period of (3) three years immediately succeeding the Contract year
 - If two items of any Supplier are found of 'Sub-standard Quality' during the Contract period, then Supplier will be blacklisted for a period of (3) three years immediately succeeding the Contract year
- 9.3 The Corporation will blacklist the Supplier, who is declared as 'Undependable for two (2) items or in two (2) instances during the Contract period, for a period of one year immediately succeeding the Contract year apart from taking other penal actions under the Contract.
- 9.4 The decision of the Managing Director, APMSIDC, or any officer authorized by him in respect of the quality of the supplied Equipment and other goods etc., shall be final and binding.
- 9.5 No claims shall be allowed against the APMSIDC in respect of interest on Earnest Money Deposit or on Security Deposit or late payments.
- 9.6 Savings Clause: No suit, prosecution or any legal proceedings shall lie against APMSIDC or any person for anything, which is done in good faith or intended to be done in pursuance of bid.

SECTION - II : INSTRUCTIONS TO BIDDERS

TABLE OF CLAUSES

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17	Format & signing of Bid Bids.	33.	Notification of award
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		35.	Performance security.
		36.	Fraud and Corruption

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 28-10-2022." The envelopes shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it declared "late".

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

19. Deadline, for submission of bids.

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

- 19.2 The purchaser may, at its discretion, extend this deadline for submission of bids by amending the bid documents in accordance with clause 7, in which case all rights and obligations of the purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

20. Late Bids.

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

21. Modification and Withdrawal of Bids.

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

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

E. Bid Opening and Evaluation

22. Opening of Bids by Purchaser

- 22.1 The Purchaser/or his authorized representative will download the technical bids on **28-10-2022** at 03.01 PM.
- 22.2 The Financial Bids of the Technically responsive bidder would be downloaded subsequently from the e-platform, once the technical evaluation is completed.

23. Clarification of Bids.

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

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

- 24.1 The purchaser will examine the bids to determine whether they are complete, whether required securities have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 24.2 Prior to the financial evaluation, pursuant to clause 26, the purchaser will determine the responsiveness of each bid to the bidding documents. For purposes of these clauses, a responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. The purchaser's determination of bids responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 24.3 Further the purchaser will determine to his satisfaction whether the Bidder is qualified to satisfactorily perform the contract. The determination will take into account the Bidder's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder pursuant to clause 13 as well as such other information as the purchaser deems necessary and appropriate.
- 24.4 An affirmative determination will be prerequisite for the opening of the financial bids. A negative determination will result in rejection of the Bidder's bid.
- 24.5 A bid determined as not substantially responsive will be rejected by the purchaser.

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

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

25. Deleted.

26. Evaluation and comparison of Bids.

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

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

- a. cost of inland transportation, insurance and other costs within India incidental to the delivery of goods to their final destination;
- b. The comprehensive annual maintenance charges (inclusive of four Preventive Maintenance visits and all distress calls in a year and costs of all spares required during the repairs) for a period mentioned against equipment at section V- (Schedule of requirements) subsequent to free guarantee maintenance period mentioned against equipment at section V- (Schedule of requirements).
- c. the availability in India (Preferably in Andhra Pradesh) of spare parts and after-sales services for the equipment offered in the bid. To this extent the bidders shall give:
 - An undertaking for the uninterrupted supply of adequate spares for at least a period of 7 years shall be furnished.
 - An Undertaking Availability/ establishment of after sales service facility at least in (1) region of Andhra Pradesh to ensure uninterrupted after sales service during warranty period shall be confirmed. The details of service facility available / proposed to be set up shall be furnished with their bid.

27. Deleted

28. Contacting the purchaser.

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

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

F. Award of Contract

29. Post - Qualification

Not Applicable

30. Award Criteria

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

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

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

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

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

33. Notification of Award.

- 33.1 Prior to the expiry of the period of the bid validity, the purchaser will notify the successful Bidder in writing by registered letter or cable or telex, duly confirming that the bid has been accepted.
- 33.2 The notification of award will constitute the formation of the contract.
- 33.3 Upon the successful Bidder's furnishing of performance security, pursuant to clause 34, the purchaser will promptly notify each unsuccessful Bidder and will discharge their bid security, pursuant to clause 15.

34. Signing of contract

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

35. Performance security

- 35.1 Within 15 days of the receipt of notification of award from the purchaser, the successful Bidder shall furnish the performance security in accordance with the conditions of contract, in the performance security form provided in the Bidding documents or another form acceptable to the purchaser and signs the agreement.
- 35.2 Failure of the successful Bidder to comply with the requirement of clause 34 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the purchaser may make the award to the next lowest evaluated bidder or call for new bids.

36 Fraud and corruption

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

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

(i) "**corrupt practice**" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

(ii) "**fraudulent practice**" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) "**collusive practice**" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(iv) "**coercive practice**" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(v) "**obstructive practice**" is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(bb) acts intended to materially impede the exercise of the purchaser's inspection and audit rights provided for under sub-clause 36.2 (d) below.

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

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

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

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

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

SECTION - III: GENERAL CONDITIONS OF CONTRACT

TABLE OF CLAUSES

<u>Clause Number</u>	<u>Topic</u>
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5.	Use of contract Documents and Information
6.	Patent Rights
7.	Performance Security
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9.	Packing.
10.	Delivery and Documents
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29.	Governing Languages
30.	Applicable Law.
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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 purchaser's 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 appropriate the remoteness of the Goods final destination and the absence of heavy handling facilities at all points in transit.

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

10. Delivery and Documents

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

11. Insurance

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

12. Transportation

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

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

13. Incidental services.

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

- (a) Performance of the on-site assembly and start-up of the supplied Goods;
- (b) Furnishing of tools required for assembly and maintenance of the supplied Goods;
- (c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods;
- (d) Performance of maintenance and repair of the supplied Goods, for a period of 7 years, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (e) Training of the users and maintenance personnel, in operation, maintenance and repair of the supplied Goods.

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

14. Spare Parts:

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

- (a) Such of spare parts as the purchaser may select to purchase from the supplier providing that this selection shall not relieve the supplier of any warranty obligations under the contract and
- (b) In the event of termination of production of the spare parts;
 - (i) advance notification to the purchaser of the pending terminating in sufficient time to permit the purchaser to procure needed requirements: and
 - (ii) Following such termination, furnishing at no cost to the purchaser, the blueprints, drawing and specifications of the spare parts, if and when requested.

15. Warranty

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

specifications) or from any act or omission the supplied goods in conditions obtaining in the country of final destination.

- 15.2 This warranty shall remain valid for as specified at section V schedule of requirements against each equipment or any portion thereof as the case may be have been delivered at the final destination indicated in the contract, unless specified otherwise in the special conditions of the contract. The warranty period starts from date of commissioning after installation by the firm.
- 15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the supplier shall, with all reasonable speed, repair or replace the defective goods or parts thereof without cost to the purchaser other than, where applicable, the cost of inland delivery of the repaired or replaced goods or parts from the port of entry to the final destination.
- 15.5 If the supplier, having been notified, fails to remedy the defect (s) within a reasonable period, the purchaser may proceed to take such remedial action as may be necessary, at the suppliers risk and expenses and without prejudices to any other right which the purchaser may have against the supplier under the contract.
- 15.6 Site Visits: The successful tenderer shall visit each User Institution as part of preventive maintenance as per the frequency mentioned **under clause 5.1.3** (section-I of IFB) during the warranty period. The tenderer shall attend any number of break down/repair calls as and when informed by the Tender Inviting Authority/User Institution.
- 15.7 During every visit, a copy of the service report/break down call report, duly signed by the custodian of the equipment/head of the health care institution and stamped shall be forwarded by email/fax/post to the APMSIDC office within 10 days from the due date.
- 15.8 A warranty certificate (as per format in **Annexure III**) duly signed and with proper stamp of the institution concerned and also signed by the authorized signatory with the stamp of the successful tenderer shall be submitted to the Tender Inviting Authority for keeping it under safe custody along with the Installation Certificate. A copy of the original warranty papers has to be given to the institution head concerned.
- 15.9 The tenderer shall submit the activities to be carried out during the preventive maintenance visit as per the format in **Annexure IV**.

16. Payment

- 16.1 The method and conditions of payment to be made to supplier under the contract shall be specified in the special conditions
- 16.2 The Suppliers request (s) for payment shall be made to the purchaser in writing accompanied by an invoice describing as appropriate the goods delivered and the services performed and by shipping document, submitted pursuant to clause 10, and upon fulfillment of other obligations stipulated in the contract.
- 16.3 Payments shall be made promptly by the purchaser within sixty (60) days of submission of the invoices / claims by the supplier duly furnishing the certificate specified in the bid document from the competent authority.
- 16.4 Payment shall be made in Indian Rupees.

17. Prices

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

18. Change Orders

- 18.1 The Purchaser may at any time by written orders given to the supplier pursuant to clause 31 , make changes within the general scope of the contract in any one or more of the following;
 - (a) drawings, designs or specifications, where goods to be furnishing under the contract are to be specifically manufactured for the purchaser;
 - (b) the method of shipping or packing;
 - (c) the place of delivery; or
 - (d) the services to be provided by the supplier;
- 18.2 If any such changes causes an increase or decrease in the cost of or the time required for the suppliers performance of any part of the work under the contract, whether changed or not changed by the order, an equitable adjustment shall be made in the contract price or delivery schedule or both and the contract shall accordingly be amended. Any claims by the supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the suppliers receipt of the purchasers change order.

19. Contract Amendments

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

20. Assignment

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

21. Sub-contracts

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

22. Delays in the suppliers performance

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

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

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

23. Liquidated Damages

23.1 Subject to clause 25, if the supplier fails to deliver any or all of the goods within the time period specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price as liquidated damages, an amount as specified in the SCC for the period of delay, until actual delivery or performance, up to a maximum deduction of **10 percent of the total contract value**. Once the maximum is reached, the purchaser may consider termination of the contract.

24. Termination for Default

- 24.1 The purchaser may, without prejudice to any other remedy for breach of contract by written notice of default sent to the supplier, terminate the contract in whole or part:
- (a) if the supplier fails to deliver any or all of the goods within the time periods specified in the contract or any extension thereof granted by the purchaser pursuant to clause 22; or
 - (b) if the supplier fails to perform any other obligations under the contract.
- 24.2 In the event the purchaser terminates the contract in whole or in part, 24.1 the purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar Goods. However, the supplier shall continue the performance of the contract to the extent not terminated.

25. Force Majeure

- 25.1 Notwithstanding the provisions of clauses 22,23,24, the supplier shall not be liable for forfeiture of its performance security liquidated damages or termination or default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.
- 25.2 For purposes of this clause "Force Majeure" means an event beyond the control of the supplier and not involving the suppliers fault or negligence and not foreseeable. Such events may include but are not limited to, acts of the purchaser either in its sovereign or contractual capacity, wars or revolutions, floods, epidemics, quarantine restrictions and freight embargoes.
- 25.3 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the purchaser in writing the supplier shall continue to perform its obligations under the contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for Insolvency.

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

27. Termination for convenience.

- 27.1 The purchaser may by written notice sent to the supplier terminate the contract, in whole or in part at any time for its convenience. The notice of termination shall specify that termination is for the purchaser's 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 supplier's 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 an 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

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

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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 1)

(a) The Purchaser is : The Managing Director, APMSIDC,
Mangalagiri,

Guntur.

(b) The Supplier is : -----

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

4. Performance security (Clause 7)

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

4.2 Add clause 7.5 to the GCC as the following:

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

5. Inspection and Tests (clause 8)

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

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

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

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

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

6. Packing (Clause 9)

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

7. Delivery and Documents (Clause 10)

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

8. Insurance (Clause 11)

- i) **For delivery of goods at site, the insurance shall be obtained by the Supplier at his cost for an amount equal to 110% of the value of the goods from "warehouse to warehouse" on "All Risks" basis including war Risks and Strike clauses period in the name of consignee authorized by the purchaser i.e. M.D. APMSIDC. The supplier shall also provide insurance coverage against fire and theft in the name of consignee upto end of the warranty period.**
- ii) **To submit a copy of insurance document duly attested by the consignee to APMSIDC along with bills for making payment. Otherwise the bills may not be processed.**

9. Incidental Services (Clause 13)

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

10. Spare parts: (Clause 14)

Add as clause 14.2 to the GCC the following:

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

11. Warranty (Clause 15)

- 11.1 In partial modification of the provisions, the warranty period shall be as specified at section V schedule of requirements against each equipment, or any portion thereof, as the case may be, have been delivered at site, installed, commissioned, successfully tested and accepted by the Purchaser or its authorized representative
- 11.2 Substitute Clause 15.4 of the GCC with the following:
- Upon receipt of such notice, the Supplier shall within 3 days, repair or replace the defective goods or parts thereof, free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement.
- 11.3 If the supplier has not done repair/replacement within the time specified above the purchaser will assess the cost of having the repairs/replacements done and the supplier will pay this amount.
- 11.4 Overall an uptime guarantees of 95% shall be maintained out of total usage period of the equipment by the end users during the warranty period
- 11.5 All software updates, if any required, should be provided free of cost during Warranty period.

12 Payment (Clause 16)

- 12.1 Payment for goods and services shall be made in Indian Rupees as follows:
- a) 60% of the contract value of the supply part after necessary deduction will be paid to the supplier on submission of copy of invoice with original Delivery Challan as proof of supply to destinations duly certified by the Head of the Institution and RTGS details
 - b) 30% of payment will be paid on submission of original invoice with stock entries, delivery challan and Installation Certificates (Annexure 1), warranty certificate (Annexure III), copy of insurance document duly attested by the consignee to APMSIDC, calibration, quality assurance certificate test certificate if required as per technical specification after completion of all the performance obligations.
 - c) The balance 10% will be paid after three months from the date of installation on submission of performance satisfactory report (Annexure-II), obtained from the Head of the institute or concerned authorities.
 - d) In case any difficulty is experienced by the successful tenderer in obtaining three-month performance certificate from any of the User Institution after the installation of the equipment, the same shall be

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

- 12.2 If there is a delay in installation of the equipment due to reasons not attributable to the supplier such as non readiness of site, 60% of the supply part of the contract value will be released against supply and a confirmation letter from the consignee / end user, on submission of original delivery challan & Invoice copy.
- 12.3 Cost of Comprehensive Maintenance Contract for each year will be paid, at the end of each year by the Purchaser's representatives/hospital authorities, upon submission of the service reports to the extent of the service delivered as per the contract terms.

13. Prices (Clause 17)

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

14 Sub-contracts (Clause 21)

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

15 Liquidated Damages (Clause 23)

15.1 For delays

Substitute Clause 23.1 of the GCC by the following:

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

15.2 For Short fall in Equipment Maintenance services

Any major repair intimated by the *Purchaser or the end-user* shall be rectified by the Supplier from the date of intimation within a period of 3 calendar days and repair the equipment to the satisfaction of the Purchaser or the End User. Failing which the Purchaser has a right to

levy a penalty on the Supplier a sum of Rs.10,000/- per day of delay, until the equipment is repaired and brought to the normal working condition to the satisfaction of the Purchaser.

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

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

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

- (a) In the case of dispute or difference arising between the Purchaser and a Domestic Supplier relating to any matter arising out of or connected with this agreement, such dispute or difference shall be referred to the award of two Arbitrators, one Arbitrator to be nominated by the Purchaser and the other to be nominated by the Supplier or in the case of the said Arbitrators not agreeing, then at the award of an Umpire to be appointed by the Arbitrators in writing before proceeding with the reference, and in case the Arbitrators cannot agree to the Umpire, he may be nominated by the Arbitration committee of the Indian Council of Arbitration, India. The award of the Arbitrators, and in the event of their not agreeing, of the Umpire appointed by them or by the Arbitration Council of India, India, shall be final and binding on the parties.
- (b) The Indian Arbitration Act 1996, the rules thereunder and any statutory modification or re-enactments thereof, shall apply to the arbitration proceedings.

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

17 **Notices (Clause 31)**

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

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

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

18 **Comprehensive Maintenance Contract (CMC)**

- a) The Comprehensive Maintenance Contract includes 4 visits in a year preventive maintenance visits and all the distress calls during the year and also include the probable cost of spares required towards the repairs carried out to bring a not working equipment to its normal working condition, during the year.

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

19 Actions Against the Misconduct of the Supplier

- 19.1 A Supplier found being supplied similar items with similar tender conditions to any other agency in the country during the validity of the contract with the APMSIDC, at a rate lower than the rate at which they supplied under this tender, the difference amount is liable to be recovered apart from blacklisting the firm for a minimum period of 3 years. The Supplier should furnish undertaking (Annexure-XIII) that they will remit the differential cost, if they quote lower rate than the rate quoted to the APMSIDC to any other agency or department or state, during the period of contract.
- 19.2 Any substandard supplies without meeting the quality specifications made under the contract shall also entail blacklisting of the firm for a minimum period of three years for that particular product.
- 19.3 If the bidder fails to demonstrate on asked to do so, of the products quoted with their bid, without any valid or convincing reason to the satisfaction of the Purchaser, the bids for other items offered against the bid notice will not be considered and he may be debarred for a certain period as decided by the Purchaser.

20 Progress of Supply

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

- Qty offered for inspection and date;
- Qty. accepted/rejected by inspecting agency and date;
- Qty. dispatched/delivered to consignees and date;
- Qty. where incidental services have been satisfactorily completed with date;
- Quantity where rectification/repair/replacement effected/completed, on receipt of any communication from consignee/Purchaser with date;
- Date of completion of entire Contract including incidental services, if any; and
- Date of receipt of entire payments under the Contract.

SECTION V

SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS

Sl. No	Item Name	Qty	Warra nty (in Years)	CMC (in Years)	EMD (in Rs.)	Average Annual turnover of the Authorized Bidder in the last three years i.e. 2018-19, 2019-20 and 2020-21
1.	Public Address system (2 portable for field- based activities and one each for RHTC & UHTC) (Sets)	20	1		1,200	1,00,000
2.	Horrock's Apparatus	15	3		630	52,500
3.	MUAC tapes	50	-		750	62,500
4.	Sound level meter	15	1		225	18,750
5.	Water sampling bottle from any depth	5	-		1,500	1,25,000
6.	Craft water testing kit	5	-		750	62,500
7.	Treatment kits as per national health programs	15	-		900	75,000
8.	Iodine testing kit	50	-		750	62,500
9.	Mannequins for First aid, Bandaging, splinting	20	3	-	48,000	40,00,000
10.	Mannequins for Basic Life Support (BLS), CPR (Cardio Pulmonary Resuscitation)	20	3	4	48,000	40,00,000
11.	Mannequins for Various types of injections- Subcutaneous, Intra- muscular, Intra-venous	30	3	-	72,000	60,00,000
12.	Mannequins for Ryles tube insertion	30	3	-	72,000	60,00,000
13.	Mannequins for Urine Catheter insertion	30	3	-	72,000	60,00,000
14.	Mannequins for Skin & Fascia suturing	40	3	-	24,000	20,00,000
15.	Mannequins for Breast examination	30	3	-	18,000	15,00,000
16.	Gynecological examination model/mannequin including IUCD (Intra Uterine Contraceptive Device) Training model	20	3	-	24,000	20,00,000

17.	Obstetrics mannequins including Obstetric examination, conduct and management of vaginal delivery.	20	3	-	48,000	40,00,000
18.	Neonatal & Pediatric resuscitation mannequins	20	3	-	48,000	40,00,000
19.	Whole body mannequins	20	3	-	30,000	25,00,000
20.	Trauma mannequin	20	3	-	60,000	50,00,000
21.	General instrumentation set for fracture reduction 8 sets	40	1	-	60,000	50,00,000
22.	Set for Hip Replacement	5	1	-	45,000	37,50,000
23.	Set for knee replacement	5	1	-	15,000	12,50,000
24.	Interlock nailing sets 1 each	4	1	-	4,200	3,50,000
25.	Specific fixation sets (Proximal Humerus, Distal humerus, Intertrochanter, proximal and distal tibia, pelvic fixation, pedicle screw, lateral mass screw and ACDF for cervical spine)	5	1	-	600	50,000
26.	Small Fragment and large fragment	20	1	-	9,000	7,50,000
27.	External Fixator	40	1	-	6,000	5,00,000
28.	Pneumatic drill and reamer	5	3	-	7,500	6,25,000
29.	Electrical drill and reamer set	4	3	-	240	20,000
30.	Arthroscope	5	3	4	7,500	6,25,000
31.	Multimedia Projector	5	3	-	7,500	6,25,000
32.	Plaster room equipment (sets) with plastic table.	10	3	-	600	50,000
33.	Physiotherapy and occupational Therapy equipment sets	20	3	-	6,000	5,00,000
34.	Movie Camera for demonstration of live operations	5	1	-	7,500	6,25,000
35.	Plaster tables	10	3	-	4,500	3,75,000
36.	Electric plaster cutter	20	3	-	3,600	3,00,000
37.	Reflex hammer	50	1	-	750	62,500

38.	Measure tape	100	-	-	1,500	1,25,000
39.	Goniometer	50	3	-	1,500	1,25,000
40.	Assorted surgical instrument for minor operation sets	55	1	-	8,250	6,87,500
41.	CC Camera for Student demonstration for OT	45	3	-	20,250	16,87,500
42.	General Sets including open Urological surgery (4 for each Operation Theatre)	180	1	-	2,70,000	2,25,00,000
43.	Pediatric surgical instrument set	10	1	-	15,000	12,50,000
44.	Burr hole set with electric craniotome	10	3	-	3,000	2,50,000
45.	Vascular set	10	1	-	2,100	1,75,000
46.	Cystoscope & Resectoscope	5	3	-	22,500	18,75,000
47.	Flexible Video Side viewing Gastro duodenoscope for ERCP	5	3	4	45,000	37,50,000
48.	Flexible Video Sigmoidoscope	5	3	4	22,500	18,75,000
49.	Harmonic Scalpel	10	3	4	3,000	2,50,000
50.	Assorted Open & Laparoscopic Stapling devices 2 sets	10	1	-	4,500	3,75,000

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

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

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

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

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

Technical Specifications

General Information

1. Bidders are requested to offer the equipment as per the specifications attached.
2. For each item of equipment the bidder should include all the cost associated with fixing, cables, connectors, accessories and ancillary items necessary for the satisfactory operation of that item of equipment. Bidders should make the provisions of starter packs for consumables for demonstration and three months of operation period for the supplied equipment.
3. Spare parts list, listing spare likely to be required for (7) years operations shall be attached with the Bid
4. (i) Bidders are requested to provide, referenced by given equipment code and item name, with their tender offer, the following information for all the items of equipment offered.
 - Name of the Manufacturer
 - Brand Name & Model Number
 - Country of Origin(ii) Catalogue, Pamphlet, descriptive literature, spare parts list and technical specifications for each unit of item must be forwarded with the offer.
5. Operating Environment:

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

Humidity: The unit shall be capable of operating continuously in ambient temperature of 30⁰C 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**

Technical Specifications

1. Public Address system (2 portable for field based activities and one each for RHTC &UHTC)

- Portable, Minimum area coverage up to 100 sq.m, Battery cum Mains Operated

2. Horrock's Apparatus

Should be suitable to find out the dose of bleaching powder (chlorine) required for disinfection of water.

Contents of apparatus:

1. 6 white cups with 200 ml capacity each.
2. 1 black cup
3. 2 metal spoons
4. 7 rods
5. 1 pipette
6. 2 droppers
7. Starch-iodine indicator solution

3. MUAC tapes

- Mid Upper Arm Circumference tape
Shakir's tape for measuring mid-arm circumference in children

4. Sound Level Meter

1. Multi-Function Environment Meter which has the functions of sound level meter
2. Sound level meter measuring range - 35 to 130dB, +/-3.5dB at 94db.
3. Light Meter measuring range - 20 to 20,000 lux, +/-5% reading.
4. Measuring Rate: 1.5 times per second.
5. Should have an LCD display for parameter display.
6. Should work on battery power source with charger.

5. Water sampling bottle from any depth

Sterilised sampling bottles with strings attached should be there to test samples from well, river

6. Craft water testing kit

- BDI- E26 water and soil analysis kit(7 parameters)
- 3.5" digital LCD display, covering all 7 parameters, battery operated, with complete accessories

ABS brief case

7. Treatment kits as per National Health Program

As per national health programmes

1. Drug kits for diarrhea and ORS under national diarrhea Disease control program
2. MDT drug kit for leprosy, TB AIDS under national leprosy RNTCP, National AIDS control Program.
3. Drug kits for Malaria and STD
4. CTM Drug kits for national ARI Control Programme

8. Iodine Testing kit

Testing for iodine salt in the mid day meals program in schools

9. Mannequins for First aid, Bandaging, splinting

Technical Specification

- The First Aid Training Manikin is a lifelike full-body adult manikin designed for teaching used for teaching CPR and First Aid through the use of realistic interchangeable wound modules.

It should have the following Features:

- Realistic head tilt/chin lift
- Obstructed airway
- Protection from cross-contamination
- Reusable mouthpieces may be sanitized to current regulations
- Airways are disposable
- Realistic landmarks
- Authentic chest rise and fall
- Closely simulates an actual victim when ventilating
- Abdominal thrust
- Carotid pulse simulation (manual)
- Full range of movement and rugged for indoor and outdoor scenario use

Wound Modules

- Head Wound for bandaging
- Sucking Chest Wound is made into the chest skin, simulated blood may be manually
- expelled using a pulse bulb Burn Arm simulates first, second and third degree burns illustrated with blistering in
- progressive sequence
- Compound Fracture – Radius simulates exposed proximal portion of radius
- Projectile – Entry & Exit Set simulates large and small calibre entry and exit wounds
- Exposed Viscera simulates abdominal wound with protruding abdominal contents
- Impaled Object – Leg simulates metallic object imbedded in thigh
- Compound Fracture – Femur simulates exposed fractured femur protruding from mid thigh
- Closed Fracture – Tibia & Fibula - palpation of fracture is possible First Aid Training

It should include the following standard accessories:

- Washable Jacket & pant or jogging suit
- Carrying case
- 5 CPR mouthpieces
- 100 disposable airways
- Simulated blood (2 ltr)
- Lubricant or polish

10. Mannequins for Basic Life Support (BLS), CPR (Cardio Pulmonary Resuscitation)

Cardio Pulmonary Resuscitation CPR

Technical Specification

Definition:

A specially-constructed doll with simulated respiratory and cardiovascular functions designed to demonstrate and teach resuscitation techniques that include chest compressions [cardiopulmonary resuscitation (CPR)]. GENERAL

1. USE

1.1 Clinical purpose: It is used to demonstrate nose pinch required for ventilation techniques. Head tilt/chin lift and jaw thrust allowing students to currently practice all manoeuvres necessary when resuscitating a real victim.

1.2 Used by clinical department Skill lab

2. TECHNICAL CHARACTERISTICS

2.1 Technical characteristics (specific to this type of device)

1. The material of mannequin should be of polyvinyl or silicone rubber, free from any hazardous materials.
2. The texture of the mannequin should be as close to the feel of the baby/adult skin as relevant.
3. The Internal parts of the mannequin must be realistically sculpted, anatomically accurate and feel must be smooth/resilient/bony as relevant and suitable for simulation.
4. It should have features to demonstrate opening of airway, head tilt/chin tilt and jaw thrust techniques.
5. Adult CPR Mannequin should have disposable airways.
6. Adult CPR Mannequins should have removable, reusable faces.
7. Adult CPR mannequin should have an indicator which confirms correct chest compression technique.
8. It should have compression spring for consistent resistance.

2.2 Settings

2.3 User's interface

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

3. PHYSICAL CHARACTERISTICS

3.1 Dimensions (metric) adult torso

3.2 Weight (lbs, kg)

3.3 Configuration

3.4 Noise (in dBA)

3.5 heat dissipation

3.6 Mobility, portability

4. ENERGY SOURCE (Electricity, UPS, Solar, Gas, Water, CO 2)

4.1 Power Requirements

4.2 Battery operated

4.3 Tolerance (to variations, shutdowns)

4.4 Protection NA

4.5 Power consumption

4.6 Other energy supplies

5. ACCESSORIES, SPARE PARTS, CONSUMABLES

5.1 Accessories & spare parts : 10 nos..

reusable mannequin faces. 10 nos..

reusable airways. 50 nos.

mannequin wipes.

STANDARDS AND SAFE TY

7.1 Certifications: BS EN ISO/IEC 17050-1:2010 Conformity assessment.
Supplier's declaration of conformity. EMC Directive:2004/108/EC.

8. TRAINING AND INSTALLATION

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

8.2 Requirements for sign-off Demonstration to the users while delivering the product.

8.3 Training of staff (medical, paramedical, technicians) Training of users in handling and basic maintenance shall be provided.

11. Mannequins for Various types of injections- Subcutaneous, Intramuscular, Intra-venous

Adult intramuscular Injection Training Mannequin

Technical Specification

1. The material of mannequin should be of polyvinyl or silicone rubber, free from any hazardous materials.

2. The texture of the mannequin should be as close to the feel of the baby/adult skin as relevant.

3. The Internal parts of the mannequin must be realistically sculpted, anatomically accurate and feel must be smooth/resilient/bony as relevant and suitable for simulation.

4. Intramuscular injection training model should have lifelike human torso with intramuscular injection site in upper outer quadrant of palpable gluteal region on both side(left and right)

5. Should have intramuscular injection in ventro gluteal site below iliac crest on both side(left and right)

6. Dimension:60X60X30CM

Manikins for Intravenous Training (Arm)

Technical Specification

It should be used for the following advanced training:

1. The insertion of cannulas and catheters
2. The infusion of fluids and the injection of medication
3. Draw blood sampling
4. Training arm must have design of life-like adult arm
5. Arm reproductions must have replaceable skin and multi vein system to ensure longevity of training arm
6. Venepuncture must be practiced in antecubital fossa or dorsum of the hand
7. Peripheral IV lines insertion and removal must be performed
8. Accessible veins should include median, basilic and cephalic
9. Palpable veins should have ability to enable site selection and preparation
10. Infusible veins must allow peripheral therapy with IV bolus or push injection method.

12. Mannequins for Ryles tube insertion

Technical Specification

1. Should look like 0-8 weeks old and Caucasian colour
2. Should have soft and flexible and replaceable face skin and upper body skin
3. Should offer NG exercises to demonstrate tube feeding and gastric suction
4. Placing NP/OP tubes must be possible
5. Should have markings for ear canal
6. Should have removable internal parts

13. Mannequins for Urine Catheter insertion

Technical Specification

- Manikin simulator must have a life-size adult female pelvis with interchangeable male genitalia.
- Urologic and rectal access gastrointestinal care procedures must be practice-able on manikin.
- Manikin should have realistic articulation which enables proper positioning for procedures
- Male and female genitalia, both must be usable with urinary connectors and reservoir
- Manikin genitalia must be used with anal connectors and colon reservoir
- Urologic care procedures such as perineal insertion of vaginal medications and indwelling catheter insertion, care, irrigation and removal must be practice able on manikin genitalia when used with urinary connectors and reservoir
- Enema administration can be facilitated using fluid for realistic return when manikin genitalia is used with anal connectors and colon reservoir
- Manikin abdominal plate must have single plug valve and interchangeable stoma site
- Simulation of cystostomy tube care and urinary diversion stoma care must be practiced on manikin.
- Reservoir can be pressurized during urinary catheterization procedures
- Bilateral thigh, dorsal gluteal, and ventral gluteal IM injection must be practice able on manikin
- It should be ISO certified.

Catheterization and Enema Trainer must include:

- Adult female pelvis with upper thighs Male and female genitalia with six (6) anal and urinary connectors Carry Case

14. Mannequins for Skin & Fascia suturing

Technical Specification

The model should have following features:

1. Soft skin allowing wound stitching multiple times
2. Scope of new wound creation and suturing
3. Should be Light and compact
4. Should have Transparent structures to allow the trainer to observe and access trainee competence
5. Mechanism or system to represent tissue strength
6. Parallel knotting tubes should be elastic for a realistic tissue response
7. Should be Latex free
8. 2 perioperative openings represented by: Small, shallow fixed cylinder for tying in a small opening
9. Large, deep removable cylinder, reversible for angled abdominal and gynecological depth tying
10. Skills to be gained using this model: One-handed reef knot technique, Instrument tie, Surgeon's knot slip knot, tying in a small opening, tying at depth vertically in a large opening, Tying at depth, at an angle, in a large opening
11. It should be ISO certified

15. Manikins for Breast Examination Trainer

1. Manikin should be having latex free material and also having soft tissues for real like look
2. Manikin should be wearable
3. Hard torso should be supplied with manikin as a standard package for bench top use
4. Pathologies should be changeable and should be placed in various predetermined location points

5. Clavicular & axilla pads should be there for lymph node placement
6. OSCEs should be performed
7. Skills should be gained:
 - Clinical breast examination techniques (CBE & SBE)
 - Professional-to-patient communication
 - Identification of anatomical landmarks & lymph nodes (axillary, supra & infraclavicular)
 - Location & diagnosis of pathologies
8. List of Pathology accessories should be supplied as a standard package:
 - Carcinomas: 2 cm, 3 cm, 5 cm, cyst, fibrocystic disease, fibroadenoma
 - Simulated carcinoma & fibroadenoma
 - Benign cyst
9. ISO certification should be there for quality assurance.

16. Gynecological examination model/mannequin including IUCD (Intra Uterine Contraceptive Device) Training model

&

17.Obstetrics mannequins including Obstetric examination, conduct and management of vaginal delivery.

Obstetric examination with IUCD

Technical Specification

1. Delivery manikin should be capable to provide training for normal delivery.
2. Should have manual mechanical birthing system to enable the user to control the rotation and speed of fetus delivery etc.
3. The abdominal palpation mannequin should have an articulating full-term fetus with palpable fontanelles, spine, shoulders, elbows, and knees with adaptors to fit with manual birthing system.
4. Should be versatile to change the position of the fetus during the process of birth including descend, flexion, extension, internal and external rotation, restitution.

5. The abdominal palpation mannequin should have upper and lower inflatable cushions with independent inflating devices in the abdominal part of the mannequin • Lower cushion when inflated should raise the fetus to desired position • Upper cushion when inflated should create a firm abdomen as in the ninth month of pregnancy
6. Shall have adaptive birth canal to demonstrate dystocia and deal with its relief
7. Should have features to demonstrate cord prolapsed
8. Shall allow demonstration and practice of placenta previa
9. Should have cervical dilatation attachment for closed os, 4cm, 6cm, 8cm and fully dilated cervix
10. Should have features simulating/represent conditions of the cervix and vagina prior to labor, during labor and at birth in a primgravid woman
11. The abdominal mannequin should be able accommodate the fetus in vertex, breech, or transverse positions.
12. The abdominal mannequin should have the facility to accommodate the fetus of different gestational age, demonstrate vertex / Breech / transverse position delivery, and attach the perineum to demonstrate the episiotomy repair.
13. List of training scenarios which should be there: • Normal delivery • Abnormal labour and other complicated deliveries • IUCD Insertion • Bleeding • Urine bladder catheterization • Uterine massage • Uterine compression • PPH and communication training
14. Material of the manikin should be latex-free
15. Digital examination and use of speculum should be possible in mannequin
16. Water based lubricant should be supplied for examination
17. Perineum and labia should be soft for realistic anatomical examination
18. List of accessories which should be there: • Detachable Manual mechanical birthing system with mounting flange • One fully articulating fetal baby with adaptors to fit with manual birthing system • Elevating cushion for Leopold manoeuvres • 6 detachable dilating cervixes • 6 detachable Vulva • 9 vulvar inserts • 6 placentas • 9 umbilical cords • One 48hour postpartum uterine activity assembly • One postpartum perineal insert • Reusable episiotomy repair module (set of 5 including median tears, mediolateral tears and standard • mediolateral episiotomy) • 10 – 12 Weeks Pregnant • 14 – 16 Weeks Pregnant • 2 sets cervical dilatation attachment for closed os, 4cm, 6cm, 8cm and fully dilated cervix • Manikin should come with carry bag

19. ISO certification should be there

Gynaecological examination simulator

Technical Specification

Manikin should be used for accurate anatomical and tactile representation of the female pelvis for diagnosis of pathologies and abnormalities. Different pelvic modules should be changeable during the training

- 1 Abdominal wall should be removable and should be able to make palpation
2. Material of the manikin should be latex-free
- 3.. Digital examination and use of speculum should be possible
4. Water based lubricant should be supplied for examination
- 5.. Perineum and labia should be soft for realistic anatomical examination
6. Interchangeable uterine modules should be available with different complications
7. Different modules should include anus and lower bowel
8. List of modules should be part of standard set of manikins: - Normal Nulliparous Cervix - Large Fibroid – Nulliparous Ectropion Cervix - Small Fibroid – Nulliparous Polyp Cervix - Ovarian Cyst – Multiparous Cervix - Retroverted - Multiparous Cervix
9. List of skills to be trained on manikin: - Recognition of perineal and pelvic anatomy including bony landmarks - Digital vaginal examination - Bi-manual examination - Cervical smear procedure including use of speculum - Digital rectum examination
10. Carry case should be supplied
11. ISO certification should be there

18. Neonatal & Pediatric resuscitation mannequins

Pediatric resuscitation mannequins

Technical Specification

- The manikin should be realistic in appearance with half body child torso.

- The manikin should have a soft nose which can be occluded using the nose pinch technique.
- The manikin should be able to facilitate a head tilt/chin lift technique to open the airway and have an articulating jaw to facilitate a modified jaw thrust manoeuvre.
- The manikin should have visible chest raise and wireless feedback during ventilation.
- The manikin should have a disposable lower airway with an integral one-way valve.
- The manikin should have a compression clicker which provides audible feedback.
- Feedback The pediatrics BLS Torso should be able to connect with wireless tablets, smart phones and/or LCD wired feedback providing both student and instructor feedback.
- Wireless Instructor Feedback
- Software shall be available for free downloads as many times as required providing real-time wireless feedback on compressions and ventilations It shall be able to monitor and connect to get the live feedback from more than 5 individual BLS Torso mannequins simultaneously for group training.
- It shall help provide improvement tips based on CPR performance
- Compression depth, rate release, time and chest compression fraction
- Indication of too little, OK or excessive ventilation volumes
- Wireless Student Feedback
- Wireless Student Feedback Software shall also be available for free downloads as many times as required providing real-time wireless feedback on compressions and ventilations, students can view and monitor their own performance for the following points
- Compression Depth and Rate
- Incomplete Release
- Ventilation volume
- It also provides with a summative feedback on the:
- Overall CPR score
- Improvement suggestions
- CPR duration

19. Whole body mannequins

Technical Specification

1. The Manikin should allow for high- quality airway management with supraglottic airway device.

2. Oral & Nasal airway insertion.

3. Oral and nasal fiberoptic intubation
4. Realistic airway anatomy including cricoid cartilage (oral- and Nasopharyngeal airway , Salick maneuver)
5. Auscultation of lung sound during ventilation
6. Lung sound synchronized with breathing rate
7. Individual lung or bilateral sound selection
8. Airway complication (instructor controlled)
9. Brachial pulses & Radial Pulses : Pulse strengths dependent on blood pressure,
10. Heart sound , synchronized with programmable ECG.
11. Control physiological responses Scenario event registration & detailed event log.
12. Intuitive touchscreen interface to run both preprogrammed and custom scenarios for standardized training.
13. Instructors real-time performance indication for compressions, ventilation and hands-off time , as well as event logs for structure and objective debriefing.
14. Automatic breathing with realistic chest rise & fall
15. Automatically generated carotid pulses synchronized with ECG.
16. Live defibrillation and synchronized ECG
17. Blood Pressure auscultation (Korotkoff sounds synchronized with ECG)
18. 4 leads ECG monitoring
19. Pulse monitoring.
20. Voice lung (Crackles , Pneumonia, Stridor, Wheeze, Rhonchi) and heart (Aortic Stenosis, Friction Rub Austin Flint Murmur , Diastolic, Murmur) sound for basic sound training
21. Detailed information about chest compression and release compression rate , ventilation volume feedback to measure and improve CPR performance.
22. The Manikin should be supplied with simulated patient monitor
23. Pulse monitoring
24. Voice , lung and heart sound for basic sound training

25. Detailed information about chest compression and release, compression rate, ventilation volume feedback to measure and improve CPR performance

26. The Manikin should be supplied with simulated patient monitor

27. Manikin should have European CE/USFDA Certification.

20.Trauma mannequin

1. Mounted to a base but can be easily transfer to adults mannequin for use in full body trauma scenarios.

2. Recognition and assessment of the following

- Palpable fractures.
- Open depressed skull fracture.
- Le Fort I & III
- Nasal fracture,
- Mandibular fracture (Left)
- Fracture of C-6 Vertebra.
- Unequal pupils,
- Hemotympanum.

21.General instrumentation set for fracture reduction

- 1. Osteotom (All sizes)
- 2. Chisel (All sizes)
- 3. Gauge (All sizes)
- 4. Nebular straight (All sizes)
- 5. Nebular angular (All sizes)
- 6. Spinal punch (All sizes)
- 7. Spine Retractor (All sizes)
- 8. Bone scoop (All sizes)
- 9. Bone hammer (All sizes)

- 10. Blunt dissectors spinal (All sizes)
- 11. Bone holding forceps (Different type and all sizes)
- 12. Bone cutter (All sizes)
- 13. Hand drill
- 14. Bone Pliers
- 15. Crocodile forceps
- 16. Periosteotom elevator (All sizes)
- 17. Bone lever (Different types All sizes)
- 18. Intramedullaryremur set (Solid &Canulated) (All sizes)
- 19. Wire passer (All Size)
- 20. Awl with eye (All Size)
- 21. Plate holding foreceps (All Size)
- 22. Pointed Reduction Clamp(All Size)

22.Set for Hip Replacement

- a) Greater Shaft
- b) Greater Cups - 44, 46, 48, 50, 52, 54, 56 mm (E - 1)
- c) Trial Cups - 44, 46, 48, 50, 52, 54, 56 mm (E - 1)
- d) Muller Rasp - 7.5, 10.0, 12.5
- e) Cup Inserting Device
- f) Positioning Guide
- g) T- Handle
- h) Muller Stem Inspector
- i) Stem Holder
- j) Trial Heads - -3, 0, +3
- k) Trial Stems - 7.5, 10.0, 12.5

I) Aluminium Graphic Case

General instrument for total hip replacement

Name of the instrument	Qty.
Scalpel Handle #4	2
Scalpel Handle #7	1
Yankauer Suction Tube	3
Mayo Dissecting Scissors Str 6 3/4"	2
Mayo Dissecting Scissors Cvd 6 3/4"	1
Halsted Mosquito Forceps Str 5"	6
Rochester-Pean Forceps Cvd 8"	2
Rochester-Ochsner Forceps Str 8"	2
Crile Forceps Cvd 6 1/4"	6
Tissue Forceps 1 x 2 Teeth 5 1/2"	2
Tissue Forceps 3 x 4 Teeth 5 1/2"	2
Russian Tissue Forceps 8"	2
Crile-Wood Needle Holder (DeBakey) 7"	2
Mayo-Hegar Needle Holder 8"	2
Allis Tissue Forceps 5 x 6 Teeth 7 1/2"	2
Beyer Rongeur Cvd 7"	1
Stille-Luer Bone Rongeur Str 8 1/2"	1
Stille-Luer Bone Rongeur Cvd 8 1/2"	1
Gerzog Bone Mallet 7 1/2"	1
Hibbs Osteotome 6 mm 9 1/2"	1
Hibbs Osteotome 10 mm 9 1/2"	1
Hibbs Osteotome 13 mm 9 1/2"	1
Bone Hook "T" Handle Large	1
Mini Hohmann Bone Elevator 8 mm 6 1/2"	1
Hohmann Bone Elevator 43 mm 10 3/4"	1
Hohmann Bone Elevator 20 mm 10 3/4"	1
Putti Bone Rasp Flat End / Conic End 12"	1
Weitlaner Retractor 3 x 4 Prongs Sharp 6 1/2"	2
Backhaus Towel Clamp 3 1/2"	6
Backhaus Towel Clamp 5 1/4"	2
Adson Forceps Cvd 7 1/4"	4
	64

Hibbs Retractor 2" x 5/8" Blade 9"	2
Metzenbaum Scissors Cvd 8"	1
Richardson-Eastman Retractor Double End Small	1
Volkman Retractor 4 Prong Sharp 8 1/2"	2
Volkman Retractor 6 Prong Sharp 8 1/2"	2
Gelpi Retractor 7"	1
Metzenbaum Scissors Cvd 7"	1
Foerster Sponge Forceps Str Serr 9 1/2"	2
Mayo Dissecting Scissors Cvd 9"	1
Micro Adson forceps 1 x 2 Teeth 4 3/4"	2

23.Set for knee replacement

Tkr Patellar Clamp (New) =1 No.

Drill

- TkrDrillwith Stopper Dia.8 Mm 1 No.
- TkrDrillwith Stopper Dia. 10.6 Mm 1 No.

Tkr Patellar Positioning Jig

- Small 1 No.
- Medium 1 No.
- Large 1 No.

Tkr Trial Patellar

- Small 1 No.
- Medium 1 No Large 1 No.
- Tkr Ankle Holder 1 No.

Spring

- Tkr Spring 75 Mmfor Ankle Holder 1 No.
- Tkr Spring 90 Mmfor Ankle Holder 1 No.

- Tkr Spring 105 Mm for Ankle Holder 1 No.
- Tkr Tibial Hole Guide 1 No.
- Tkr Alignment Rod 2 Nos.
- Tkr Tibial Impactor 1 No.
- Tkr Tibial Cutting Jig 1 No.
- Tkr Tibial Stylus 10 Mm/ 8 Mm 1 No.

Tkr Tibial Tray Positioning Jig

- Small 1 No.
- Medium 1 No.
- Large 1 No.
- Tkr Tibial Rasp 1 No.
- Tkr Tibial Retractor 1 No.
- Tkr Spacer 16 Mm 1 No.
- Tkr 2 Mm Detachable Plate For 16 Mm Spa 1 No.
- Tkr 3 Mm Detachable Plate For 16 Mm Spa 1 No.
- Tkr 6 Mm Detachable Plate For 16 Mm Spa 1 No.

Tkr Trial Tibial Base Plate

- Small 1 No.
- Medium 1 No.
- Large 1 No.

Tkr Trial Tibial Spacer

- Small 8 Mm 1 No.
- Small 11 Mm 1 No.
- Small 14 Mm 1 No.

- Medium 8 Mm 1 No.
- Medium11 Mm 1 No.
- Medium14 Mm 1 No.
- Large 8 Mm 1 No.
- Large 11 Mm 1 No.
- Large 14 Mm 1 No.
- Tkr Multi Fema.G.Mainpart 1 No.
- Tkr Handles For Multi Fema.G. 2 Nos.
- Tkr 3" Deg. External Rotation Guide Plate (L) 1 No.
- Tkr 3" Deg. External Rotation Guide Plate (R) 1 No.

Tkr Valgus Rotatory Tube

- 3" Deg 1 No
- 5" Deg 1no 7" Deg 1 No.
- Tkr Distal FemorcutJig(New) 1 No.
- Tkr Femoral Stylus For Multi Fema.G. 1 No.

Tkr Fem Ant Post & Chamfer Cut Jig.

- Ex-Small 1 No.
- Small 1 No.
- Medium 1 No.
- Large 1 No.
- Tkr Handle ForFema/P.&Cham.Cut Jig 8 Nos

Tkr Fem Notch Cut Jig

- Ex-Small 1 No.
- Small 1 No.

- Medium 1 No.
- Large 1 No.
- TkrFemoralimpactor 1 No.
- TkrFemoralintramedullary Rod 1 No.
- TkrSawcapt -Ant. Post Chamfer Jig 1 No

Tkr Trial Femoral

- Ex-Small 1 No.
- Small 1 No.
- Medium 1 No.
- Large 1 No.
- Tkr Epicondylar Axis Plate 1 No.

Tkr Osteotome (15 Mm) Fibre Handle 1 No.

- Tkr Plier 1
- TkrPinremovinginstrument 1 No.
- TkrHohmannretractor 1 No.
- TkrInor Scale 6" 1 No.
- Tkr Bone Spike 1 No
- Smith Peterson Gouge St 8 Mm 1 No.
- Hexagonal Screwdriver 3.5 Mm 1
- Soft Tissue Tensioner 1 No
- Bone File 1 N

Tkr Patellar Bone Holder 1 No.

3 Groove Retractor 2 Nos.

24. Interlock nailing sets

Instruments Set with qty.:

- 1 Drill Bit, 3.2mm dia., L 225/200mm for quick coupling 2
- 2 Holding Sleeve, large, L 120mm 1
- 3 Screwdriver, hexagonal, large, L 280mm 1
- 4 Pin Wrench, 4.5mm, L 120mm 1
- 5 Combination Wrench, 11/14mm, L 150mm 1
- 6 Awl, small, L 210mm 1
- 7 Tissue Protector, L 140mm 1
- 8 T-Handle with quick coupling, L 85mm 1
- 9 Removing Tool for SynReam 1
- 10 Hand Reamer, 8.0mm dia., for predrilling in pseudarthroses 1
- 11 Reaming Rod, 2.5mm dia., L 950mm, 3.5mm olive 1
- 12 Flexible Shaft, 7.0mm dia., reaming depth to 470mm 1
- 13 Cleaning Brush for 3.6mm Flexible Shaft, L 600mm 1
- 14 Reduction Head, straight 1
- 15 Reduction Head, displacement 2.5mm 1
- 16 Reamer Head, 8.5mm dia. 1
- 17 Reamer Head, 9.0mm dia. 1
- 18 Reamer Head, 9.5mm dia. 1
- 19 Reamer Head, 10.0mm dia. 1
- 20 Reamer Head, 10.5mm dia. 1
- 21 Reamer Head, 11.0mm dia. 1
- 22 Reamer Head, 11.5mm dia. 1
- 23 Reamer Head, 12.0mm dia. 1
- 24 Reamer Head, 12.5mm dia. 1
- 25 Reamer Head, 13.0mm dia. 1
- 26 Reamer Head, 13.5mm dia. 1
- 27 Guide Rod, 3.0mm dia., with flat tip 1
- 28 Socket Wrench 11mm, cannulated, L 180mm 1
- 29 Driving Piece, curved, L 120mm 1
- 30 Driving Head 1

- 31 Guide Rod, cannulated, L 455mm 1
- 32 Ram 1
- 33 Grip, flexible, L 170mm 1
- 34 Insertion Handle, for Tibial Nails 9.0 to 14.0mm dia. 1
- 35 Threaded Bolt, conical, for Tibial Nails 9.0 to 14.0mm dia. 1
- 36 Knurled Nut for Tibial Nails 9.0 to 14.0mm dia. 1
- 37 Insertion Handle, for Femoral Nails 9.0 to 12.0mm dia. 1
- 38 Threaded Bolt, conical, for Femoral Nails 9.0 to 12.0mm dia. 1
- 39 Knurled Nut for Femoral Nails, 9.0 to 12.0mm dia. 1
- 40 Protection Sleeve 11.0/8.0, L 96mm 1
- 41 Drill Sleeve 8.0/4.5 1
- 42 Insert Drill Sleeve 3.2 1
- 43 Trocar 8.0mm dia., L 110mm 1
- 44 Depth Gauge for Locking Bolts 1
- 45 Drill Bit, 4.0/4.5mm dia., L 225/200mm, for quick coupling 2
- 46 Holding Forceps for Reaming Rod 2.5mm 1

25. Specific fixation sets

(Proximal Humerus,
 Distal humerus,
 Intertrochanter,
 proximal and distal tibia,
 pelvic fixation,
 pedicle screw,
 lateral mass screw and ACDF for cervical spine)

26. Small Fragment and large fragment

Small Fragment set

- Aluminium Case, perforated 1 No
- Drill Bit, 2.5mm dia., approx. L 110/85mm for quick coupling 2 No
- Drill Bit, 3.5mm dia., approx. L 110/85mm, for quick coupling 2 No
- Countersink Shaft 3.5, approx. L 72mm 1 No
- Tap for 3.5mm Cortex Screws 2 No
- Tap for 4.0mm Cancellous Bone Screws 2 No
- T-Handle with quick coupling, approx. L 80mm 2 No

- Double Drill Sleeve 3.5/2.5 1 No
- Insert Drill Sleeve 3.5/2.5, approx. L 42mm Drill Bit 2.5mm dia. 1 No
- Screwdriver, hexagonal, small, with Holding Sleeve 1 No
- Screwdriver Shaft, hexagonal, small, approx.L 100mm, for quick coupling 1 No
- Screwdriver, hexagonal, small, with groove, approx.L 200mm 1 No
- Holding Sleeve, approx. L 80mm 1 No
- Depth Gauge for 2.7mm to 4.0mm Screws 1 No
- Sharp Hook, approx.L 155mm 1 No
- Holding Clip 4.5 - 7.0mm 2 No
- Screw Forceps, self-retaining, approx.L 85mm 1 No
- DCP Drill Sleeve 3.5 for neutral and load position 1 No
- Bending Iron, slit widths 4.5/2.5mm, approx.L 150mm, for Plates 2.7 and 3.5 1 No
- Bending Iron, slit widths 2.5/4.5mm, approx.L 150mm, for Plates 2.7 and 3.5 1 No
- Bending Pliers for Plates 2.4 to 4.0mm 1 No
- Bending Template for DCP 3.5 and LC-DCP 3.5 approx.L 80mm 1 No
- Bending Template for DCP 3.5 and LC-DCP 3.5 approx.L 110mm 1 No
- Wire Bending Pliers, approx. L 150mm 1 No
- Bending Iron, for Kirschner Wires 1.25 to 2.5mm dia., approx.L 120mm 1 No

Large fragment set

- Aluminium Case, perforated 1
- Drill Bit, 3.2mm dia., approx. L 145/120mm for quick coupling 2
- Drill Bit, 4.5mm dia., approx.L 147/120mm for quick coupling 2
- Countersink, large, approx.L 180mm 1
- T-Handle with quick coupling, approx.L 80mm 2
- Tap for 4.5mm Cortex Screws 2
- Tap for 6.5mm Cancellous Bone Screws 1
- Double Drill Sleeve 4.5/3.2 1
- Double Drill Sleeve 6.5/3.2 1
- Screwdriver Shaft, hexagonal, large, approx. L 100mm 1
- Screwdriver, hexagonal, large, with groove, approx.L 240mm 1
- Holding Sleeve, large, approx.L 120mm 1
- Depth Gauge for 4.5 to 6.5mm Screws 1
- Sharp Hook, approx.L 155mm 1
- DCP Drill Sleeve 4.5 1
- Universal Drill Sleeve 4.5 1
- LC-DCP Drill Sleeve 4.5 1
- Bending Template for DCP 4.5 and LC-DCP 4.5 approx.L 210mm 1
- Bending Template for DCP 4.5 and LC-DCP 4.5 approx.L 120mm 1
- Bending Template for DCP 4.5 and LC-DCP 4.5 approx.L 155mm 1

Standards:

- Instruments quality should meet the international standard.
- Company should have European CE certificates and USFDA certificates of International standard.
- Company should provide material certificates.
- Material – Stainless Steel
- Grade- ISO 5832-1

27.External Fixator

- Single Pin Clamp
- Double Pin Clamp
- Open double Pin Clamp
- Twin adjustable Clamp- straight
- Twin adjustable Clamp-curved
- Transverse Clamp
- Connecting Clamp
- Single Pin Clamp with extension plate
- Double Pin Clamp with extension plate.
- Connecting rod 5mm
- Spanner 11mm
- Spanner 13mm
- T-Wrench 11mm
- Box Spanner 11mm
- Triple tocar set with Handle
- Tubular rod 4"
- Tubular rod 6"

- Tubular rod 8"
- Tubular rod 10"
- Tubular rod 12"
- Tubular rod 14"
- Tubular rod 16"
- Tubular rod 18"
- Tubular rod 20"
- Tube to tube clamp
- Threaded Schanz pins (Self Tapping) 3.5mm Dia., shaft 4mm, Short Threaded, L 125mm.
- Threaded Schanz pins (Self Tapping) 4mm Dia., Short Threaded, L 100-200mm
- Threaded Schanz pins (Self Tapping) 4mm Dia., Long Threaded, L 100-200mm
- Threaded Schanz Pins (Self Tapping) 4.5mm Dia., Short Threaded, L 100-200mm
- Threaded Schanz Pins (Self Tapping) 4.5mm Dia., Long Threaded, L 100-200mm
- Threaded Schanz Pins (Self Tapping) 5mm Dia., Short Threaded, L 100-200mm
- Threaded Schanz Pins (Self Tapping) 5mm Dia., Long Threaded, L 100-200mm
- Cancellous front threaded 5 mm Schanzpins, Thread Length 16mm, L 100-200mm
- Cancellous front threaded 5mm Schanz pins, Thread Length 32mm, L 100-200 mm

- Cancellous front threaded 5mm Schanzpins , Thread Length 50mm, L 100-200 mm

28.Pneumatic drill and reamer

1 The Cannulated Pneumatic Drill handpiece - Compatible with existing attachments

- Cannulation with 3.2 mm diameter
- Operating pressure : 6 - 7 bars (maximum 10 bars)
- Weight of handpiece 600-800grams without any attachments
- Power 120 w
- Variable Speed from 0-900 rpm
- Noise Level of max 75 db
- Separate forward and reverse triggers
- Safety Device to cut off air supply to drill on handpiece
- Handpiece is compatible with radiolucent drive
- Instant change between clockwise and counterclockwise rotation
- Offers reliable protection of soft tissues with oscillating drill attachment
- Fully Autoclavable
- Fully machine washable
- All Attachments can be fitted on single handpiece
- The reverse trigger automatically locks when the oscillating saw and the reduction drive attachments are attached to handpiece

2 Adapter for Lubrication

- For oiling of hand piece
- Autoclavable
- Should be made of Stainless Steel

3 Double Air Hose

- Length 5 meters.
- Autoclavable
- Should have cocentric inlet and outlet pipes

4 Radiolucent Drive

- Precise aiming and drilling under image intensifier control for locking intramedullary nails
- Drill Bit diameter 2.0 to 4.5 mm, Length 100 to 150 mm, Usable length 80 to 120 mm
- Reduced exposure to x-rays

5 Jacob's Chuck attachment

- Chuck capacity up to 0 to 6.5 mm
- Cannulation of 3.2 mm diameter
- Maximum Speed of 900rpm
- Torque of 4-5 Nm

6 Quick Coupling attachment

- Cannulation 3.2 mm
- Maximum Speed: 900 rpm
- Torque of 4-5 Nm

7 Reduction Drive for Intramedullary / Acetabular Reaming with reverse option

- Reaming Speed of 300-350 rpm
- Reaming Torque of 12-14 Nm
- Option of attachment with reverse rotation

8 Quick Coupling for K-wire

- Continous adjustment facility for wire diameter from 0.6 to 3.2 mm
- Speed up to 900 rpm

9 Oscillating Saw attachment with key

- It can operate on an oscillating frequency of 0 to 14,000 osc/min.
- Attachment can be locked in 8 different positions

10 Quick Coupling for drill bits

- Speed: 0–900 rpm
- Torque: 0–4.7 Nm
- Cannulation: 1.3 mm

11 Quick coupling for DHS / DCS triple reamers

12 Oscillating Saw Blades (All Sizes)

- For Trauma
- For Joint replacement 6

13 Aluminium case for Pneumatic Drill system, Perforated, Autoclavable

14 Aluminium Box for accessory attachment, Perforated, Autoclavable

15. Physical demo may preferably be arranged at the time of requirement.

16. Instruments quality should meet the international standard.

17. Company should have European CE/USFDA certificates of International standard.

18. Company should provide material certificates.

29. Electrical drill and reamer set

Drill and Reamer Hand Piece:

- Selection of Drilling and Reaming with the built in Switch option DRILL/REAM in same hand piece.
- Selection of the drilling and reaming with the same attachment .
- Should have dual trigger for forward/ reverse and oscillation mode .
- Maximum speed of 1200 rpm in drilling, 270 RPM in reaming .
- Should have variable speed control on the hand piece .
- Should deliver maximum torque of 150 in/lbs Drill torque should be 35 in/lbs
- Should have DC brush less motor for low maintenance With appropriate adaptors for drilling, reaming and pin placement and wire placement .
- Future up gradation compatible for Navigation interface for Joint replacement surgeries .
- Micro processor controlled Hand piece Can be calibrate for the consistence performance Weight of hand piece with battery should be not more then 3.5 lbs o Fully Cannulated 4.0 mm hand piece .
- Should have Pistol grip Hand piece .
- Tool less 360 degree attachments insertion .
- Should be autoclavable o Dedicated Forward and Reverses switch with safe mode Can be calibrating for the consistence performance

Sagital Saw piece:

- Should have two speed controls with standard and fast mode.
- Free speed of 10000-12000 cycles per minute .
- Micro processor controlled Hand piece Can be calibrate for the consistence performance .

- Saw Noise level should not more than 89 db o Weight of hand piece with battery
- should be not more than 3.5 lbs r Blade mount should be adjustable to different angles with 360 degree rotation .
- Should have tool less mounting of accessories .
- Should have DC brush less motor .
- Should be autoclavable o Should have safe mode

Drill and reaming Attachments:

- ¼ inch Jacobs Drill Attachment with
- key Keyless Chuck
- Quick Connect attachment
- Reamer Attachment .
- Hudson Modified Trinkle attachment
- Pin Collet Attachment
- K Wire Collet Attachment

Battery Charger:

- 220-240 volts charger and should have the feature to count the charging cycle for a particular battery.
- Should have capability to identify the worn out battery
- Should have to charge four batteries at a time
- Should have an indicator to provide battery status for charging
- Should be able to check over autoclaved battery cycles (Number of Time and Total time)
- Should have reconditioning features for battery
- Should be able to charge different batteries with same charger

Batten' Kit:

- Ni Mh& Ni Cd batteries with low internal impedance to deliver higher current than other battery types. .
- Ni Mh cells with capacity to produce more torque and non autoclavable with life of 300 approximate charging cycles.
- Should have a run time of minimum 21 minutes .
- Should include Autoclavable outer housing
- Shield to protect battery from the housing .
- 180 degree opening of battery housing for easy insertion battery .
- Should have option for autoclavable batteries

- Should have Safe Mode .
- Should have minimum 13500 CPM .
- Weight of hand piece with battery should be not more than 3.5 lbs .
- Micro-processor controlled Hand piece Can be calibrate for the consistence performance .
- Should have Pistol grip Hand piece
- Should have tool less mounting of accessories for all blades or attachments
- Saw noise level should not more then 93 db
- Should be autoclavable .

- With different blades it should have maximum speed of 13500CPM

30.Arthroscope System**High Definition Camera System for Arthroscopic Surgerie****Full High Definition Digital Camera Head**

Specification

- Scanning Pattern: 1920x1080 interlaced (1080i) x3 CCD = 6220800 Pixels
|
- Pixels Quantity: 1920 x 1080i
- Digital ,Triple chip, full high definition, microlens CCD Camera (Charged Couple device).
- Leakage current not more than 25 microamps in control unit and not more than 10 microamps in camera head
- SDI Output, BNC, S-VHS and RGB outputs.
- Minimum Signal to Noise ratio of 60 decibels (dB).
- White balancing possible from the CCU as well as from the sterile field.
- Digital signals processing, modes of operation automatic and manual, PAL compatible. Automatic optimization of all settings. inbuilt zoom facility, regardless of telescope used.
- 3 buttons for remote control of the CCU and accessories.Able to control 6 functions on the menu using these 3 buttons
- Compatible with Video Arthroscopes as well as direct view scopes.
- Aspect Ratio: Capable of displaying wide screen 16:9 format. Standard definition television(SDTV) has a 4:3 aspect ratio.
- C-Mount Zoom coupler 19.5 mm.
- Weight not exceeding 165 grams, Camera head cable minimum 12ft.

Full High Definition Camera Control Unit

- ACG Microprocessor controlled
- Video Inputs : S-Video, (Y/C), Composite, HD-SDI, IEEE-1394
- USB 2.0 Ports : Type A receptacle, software compatible with NS16C550
- Video Formats : NTSC and PAL
- Video Outputs : S-Video, (Y/C), Composite, HD-SDI, DVI
- Parallel Port : Bidirectional Input / output with female DB-25 Receptacle
- Video recording: on pendrive through USB port
- Serial Port : UART Port with male DB- 9 receptacle
- VGA Port : 15-Pin female
- Ethernet Ports : Auto select 10Base-T/100 Base-TX
- Still Image File Formats : 24-bit RGB bitmap, 24-bit JPEG

- Storage : Supports read/ write of USB flash media of different sizes; CD-R/RW; 650 MB or 700MB.
- Still Image Resolution : NTSC / PAL
- Motion Video File Format : MPED1, MPEG2, MPEG4
- 1920 x 1080i@ 24 bit color depth 16.77 million True Colour
- Power Requirements : Input Voltage: 100-240 VAC, 50/60 Hz @ 90VA
- Operating System : Microsoft® embedded Windows® XP or advanced
- Processor : Intel® Pentium® M 1.6 GHz

High Definition Medical Grade Monitor

- The system should have:
- Medical grade LCD monitor, flat screen
- Wide Screen and aspect ratio of 16:9
- Ability to display High Definition Resolution of 1920 X 1080i
- Monitor stand compatible with monitor
- Screen diagonal 24"
- Compact control buttons on the sides of the panel

LED Light Source Specs

- Color Temperature 7000° K
- Light Source Type LED (Light Emitting Diode)
- Light Guide Adaptor Turret type to fit your choice of light cable
- LED Life 30,000 hours (typical)
- Brightness Control 0-100% Dimming
- Dimensions 11.22" W x 4.49" H x 13.23" D
- Rated Power 90 watt
- Input Voltage 100-240V AC, 50/60 Hz
- Weight 8.05 lbs / 3.42 kg

Fiber Optic Light Cable Qty-2

- Universal fibre optic cable with adapters. Not less than 5mm thick and 10 ft long

Arthroscopy Set(Arthroscopic, Sheath and Obturator)

- Working Length of Not more than 160mm

- Light Guide insertion on opposite side of the direction of view with a J-lock fixation for cannula.
- Wide Angle, Direct View High Definition Arthroscopic
- Angle of view: 70 degree
- Optimal centre-to-edge resolution for enhanced picture quality
- Diameter 4mm
- Fiber optic light transmission incorporated
- Standard ocular window for coupling the camera head
- Advanced Rod lens system for optimum brightness, contrast and definition
- Scratch resistance sapphire quoted tip lens
- Arthroscopies should be supplied with compatible cannulas high flow, double valve, fully rotatable with fenestrated tip & conical and blunt tip obturator.
- Trocar-4.5mm conical obturator to fit with cannula.
- Sheath- 5.95 to 6.0mm, high flow diagnostic cannula, double valve, fully rotatable cannula with fenestrated tip.

Arthroscopy Set(Arthroscopic, Sheath and Obturator)

- Working Length of Not more than 120mm
- Light Guide insertion on opposite side of the direction of view with a J-lock fixation for cannula.
- Wide Angle, Direct View High Definition Arthroscopic
- Angle of view: 30 degree
- Optimal centre-to-edge resolution for enhanced picture quality
- Diameter 2.7
- Fiber optic light transmission incorporated
- Standard ocular window for coupling the camera head
- Advanced Rod lens system for optimum brightness, contrast and definition
- Scratch resistance sapphire quoted tip lens

- Arthroscopies should be supplied with compatible cannulas high flow, double valve, fully rotatable with fenestrated tip & conical and blunt tip obturator.
- Trocar-3mm to 4mm conical obturator to fit with cannula.
- Sheath- 3mm to 4mm, high flow diagnostic cannula, double valve, fully rotatable cannula with fenestrated tip.

Arthroscopy Set(Arthroscopic, Sheath and Obturator) Qty-2 Each

- Working Length of Not more than 160mm
- Light Guide insertion on opposite side of the direction of view with a J-lock fixation for cannula.
- Wide Angle, Direct View High Definition Arthroscopic
- Angle of view: 30 degree
- Optimal centre-to-edge resolution for enhanced picture quality
- Diameter 4mm
- Fiber optic light transmission incorporated
- Standard ocular window for coupling the camera head
- Advanced Rod lens system for optimum brightness, contrast and definition
- Scratch resistance sapphire coated tip lens
- Arthroscopies should be supplied with compatible cannulas high flow, double valve, fully rotatable with fenestrated tip & conical and blunt tip obturator.
- Trocar-4.5mm conical obturator to fit with cannula.
- Sheath- 5.95 to 6.0mm, high flow diagnostic cannula, double valve, fully rotatable cannula with fenestrated tip.

Arthroscopic Resection Shaver System Qty-1 Each

- The Shaver system should comprise of Controller Console, Shaver Hand-piece, and Foot pedal.

Controller Unit

- The Controller console should have receptacles for both Shaver and-piece, Foot Pedal and also other powered instrumentation
- The Motor should offer Forward, Reverse and Oscillation Mode for Resection.
- The Console should provide variable rpm ranging between 100rpm to 10,000 rpm as per the blade or burrs used.
- The Unit should have 2 Modes for Normal and Aggressive Resection so as to balance efficacy with safety.
- Should provide control for momentary push switches for increasing and decreasing speed setting.
- The console screen should capture all information pertaining to minimum, maximum and set speeds for installed blade type; horizontal bar graph of blade speed relative to range;

Shaver Hand Piece

- The Shaver Hand piece should have safety mechanism of Blade Window Lock to avoid any unintentional tissue damages on pull out.
- The hand piece should have suction control lever.
- The hand piece should be not more than 8 Inches length and 460gms.
- The connecting cable should be autoclavable and replaceable with length of approx. 10Ft.
- The autoclavable shaver hand piece, which is compact, lightweight and ergonomically designed, with hand control.

- The Shaver should offer Maximum torque not be less than 32oz.in
- The Shaver hand piece should have push-button motor controls: Forward, Reverse Oscillate, and Blade and Window Lock.
- The Safety feature for window locking should be accessible and controllable from shaver handpiece.
- Input voltage of 100 to 240V, 50/60 Hz power consumption not more than 350VA
- The Shaver should be able to use any electro Blades, if desired.
- The shaver should be supplied with compatible shaver sterilization case.

foot pedal

- The Foot Pedal should offer a blade window locking mode for enhanced safety during withdrawal of hand piece from joint space with blade mounted
- The foot pedal controls should include three standard operating modes, i.e. Forward, Reverse and Oscillation.
- The variable speed foot pedal should be sturdy with a long connecting cable.

Optional Items: Powered Instrumentation

- Power drill with cable and drill hand piece, Jacobs chuck with key
- Sagittal Saw hand piece and wire driver

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Consumables-Blades & Burs

- Shaver System Should be supplied with 2 pieces of single use shaver blades of each of the diameter for knee and shoulder

Arthroscopy Fluid Management System Qty-1

- The Fluid management System offers to maintain & control intra-articular pressure regardless of varying outflow rates. The system can also be used with any arthroscopic inflow cannula and should include main control unit, disposable tubing sets, a wireless remote control, two Fluid Level Sensors
- The control unit should not require the user to increase distension pressure to achieve high flow rates. Outflow may be adjusted while maintaining the lowest distension pressure needed
- Flow rate should be change as per operating cannula connection
- The Unit should have a LCD Display and should clearly depict High flow, Medium flow and Low Flows.
- Maximum flow rate of not less than 2.5 ltr/min for procedural speed and efficiency
- Automatic Joint pressure maintenance up-to 150 mmHg
- The unit should have receptacles for Remote and Irrigation Set Insertions.
- Should be supplied with remote foot pedal for easy operation of wash function.
- Must be supplied with Disposable tube sets for inflow only (30pcs).
- Must be supplied with Disposable Tube sets for inflow and outflow (30pcs.).
- Wireless remote control for full system control from the sterile field. Should be stop, start, lavage start/Stop, increase & decrease flow limit, increase & decrease pressure.
- Operating System: Microsoft® embedded Windows® XP

Hand Instruments

- Basket punch Duckbill upbiter curved left – 2.52mm, Bite Width-3.17mm, Tip Width-5.05mm
- Basket punch Duckbill upbiter curved right – 2.52mm, Bite Width-3.17mm, Tip Width- 5.05mm
- Basket punch Duckbill upbiter Tip Profile – 2.52mm, Bite Width-3.17mm, Tip Width-5.05mm
- Basket Punch Duckbill straight Tip Profile – 2.52mm, Bite Width-3.17mm, Tip Width-5.05mm
- Posterior Punch Straight 2.46mm, Bite width-2.18mm, Tip width-4.0mm
- Posterior Punch Upbiter Tip Profile -2.46mm, Bite width-2.18mm, Tip width-4.0mm
- Basket Punch Narrowline Straight 1.9mm, Bite width- 1.67mm, Tip width- 2.89mm
- Basket Punch – Stingrey backbiter Left – Tip profile – 3.93mm, Bite width- 2.38mm, Tip width- 5.58mm
- Basket Punches, 90 deg. Rotary, cigar handle with a 3.4mm bite in left and Right.

- Basket Punch - scoop 1.5mm Upbiter Tip profile-2.28mm, Bite width-1.59mm, Tip Width-3.88mm
- Basket Punch – Stingray backbiter Right – Tip profile – 3.93mm, Bite width-2.38mm, Tipwidth- 5.58mm
- Suction Punch – 2.5mm, straight with long handle

Grasper

- All grasper should have an infinite position sliding lock mechanism that hold tissue firmly without tearing and slipping – even in the tightest area slipping – even in the tightest area.
- Pitbull Loose body Grasper with sliding lock mechanism

Scissors

- Scissor Punches should be straight, loop handle
- Scissor Punches should be 20deg. Hooked Right
- Scissor Punches Should be 20deg. Hooked Left
- 3.0mm Heavy hook with handle
- Probe Straight
- Linear Instruments Fifteen-Unit Sterilization Tray

Technical Specifications for controlled tissue ablator for Arthroscopy

- Controlled ablation based on low temperature bi-polar radio frequency technology. Should not have any need for the secondary patient grounding pad.
- The RF probes should have multi-electrodes that will allow a uniform production of plasma
- The plasma temperatures should be between 40°C and 70°C
- The output voltage settings should be controlled by regulation on the generator from setting 1-9. Output voltage of the RF current should vary from 0-320Vrms @100 kHz frequency depending on the above settings
- The generator should have a feature of Automatic scope saver, i.e. when the probe comes too close to endoscope the controller pauses radiofrequency output and resumes radiofrequency output when the probe is returned to safe distance.
- The generator should have facility to use a foot control or a wireless footswitch for convenience and ease of use
- The generator should also have the facility to use a finger switch controlled probes.
- There should be facility to adjust ablation as well as coagulation with different settings
- There should be compatibility for probes that are used for minimally invasive treatments of Tendons and Fascia as well as probes used for sculpting articular cartilage
- The generator should be able to take over 40 different types of probes for open and minimally invasive arthroscopic procedures

- The controller should be have the ability to tell the ambient temperature of the arthroscopic fluid (in the range of 20°C to 60°C) when connected with probes that have a thermocouple present near their tip

Technical Specifications of 90° ablation probe

- The ablation probes should have a tip angle of 90°, maximum tip diameter of 5.5mm and shaft diameter of 3.75mm
- They should be capable of ablating at 1.5g/minute

Technical Specifications of 50° ablation probe

- The ablation probes should have a tip angle of 50°, maximum tip diameter of 5.5mm and shaft diameter of 3.75mm
- They should be capable of ablating at 1.5g/minute

Technical Specifications of hooked dissection probe

- The probe should have 30° angle at the distal end for easy access and should have a hook like electrode for cutting and coagulation purposes

Technical Specifications of articular cartilage debridement probe

- The probe should have a dye around the tip that changes color at 50°C with a 10% error margin
- The probe should have a shaft diameter of 3mm, a 2.3mm circular annulated tip and a 15° angle

Technical Specifications of probes used for tendon & fascia treatments

- The probes should not be more than 0.8mm tip
- There should be two probes with two different lengths of 3 inches & 5 inches for open tendon & fascia surgeries and arthroscopic tendon surgeries respectively
- The probe used for open surgeries must come with built in saline delivery mechanism
- Technical Specifications of probe used for separation of soft tissue from bone
- The probe should be a bipolar radiofrequency probe capable of producing plasma in presence of a saline conductive medium
- It should be capable of producing an even and continuous plasma formation
- The probe should have capability for precise targeted tissue cutting as well as coagulation
- It should be able to operate at different settings to increase and decrease both the ablation and coagulation effects
- It should be recognized by the RF generator and default settings should be applied automatically on detecting the probe

- The probe should automatically stop ablating if it gets too close to the arthroscope and start ablating again when a safe distance is attained (intelligent scope saver feature)
- The probe should have 20° angle at the distal end for easy access and should have a hook-like electrode for cutting and coagulation purposes

31. Multimedia Projector

- DLP FULL HD Projector
- Brightness: 4000 lumens or above
- Contrast ratio: 3000:1 (Minimum)
- Resolution: Native WXGA or better
- Zoom ratio: 1.3:1 manual (optical)
- Keystone correction : Automatic (Both Vertical and Horizontal +/-30)
- Lamp life: 2000 Hours full brightness mode 2

32. Plaster room equipment (sets) with plastic table.

Orthopedic Table:

1. Should be USFDA or European CE by notified body approved model.
2. Tables should consist of a rectangular top made of carbon-fiber composite supported by a fixed base (pedestal) or a movable, swivel-caster base.
3. Top should be transferred to trolleys to transport patients to and from the OR.
4. Orthopedic tables also have padding for upper-body support, a perineal post, an apparatus for lower body support, and any number of orthopaedic accessories.
5. Should allow the conversion of the orthopedic table to a full-length surgical table.

Plaster Cutter:

1. Should be USFDA or CE certified.

2. The plaster cutter hand piece should be light weight and ergonomic design.
3. The cutter should have two speed control and with less noise
4. RPM of atleast 15,000rpm or more.
5. The cutter should have impact resistant housing and it should be versatile i.e can be used with vacuum or directly plugged into the wall/point.
6. The vacuum should have mobile on 5 castors for stability and easy transportation.
7. The vacuum should have easy facility to connect the hose with the cast cutter.
8. Locking mechanism should be there in the system to lock the hose with the cutter.
9. The length of the hose should be 6 feet.
10. One complete system should be supplied with following items/accessories
 - I. Cast cutter hand piece-1 no.
 - II. Cast cutter blades-20 nos(different sizes)
 - III. Cast vacuum with hose and mobile stand-1 no.
 - IV. Blade mounting toll-2 nos
 - V. Small cast spreader-1 no
 - VI. Large cast spreader-1 no.

Instruments Set with qty.:

- Drill Bit 3,2 mm/ 145 mm 3
- Drill Bit 4,5 mm/ 145 mm 2
- Countersink 4,5 mm/ 6,0 mm T-Handle 1
- Tap 6,5 mm Calibrated, 3.5 mm—& 4.5mm 1 Each
- Reduction ForcepAsymmetric 1
- Reduction Forcep 3 pointed balls 400mm 1
- Stille-Luer Bone rounger 230mm 1
- Boheler Bone RoungerStriaght- 150mm 1
- Mallet 500gm 1

- T-Handle with Jacob Chuck 1
- Tap 4,5 mm Calibrated 2
- Insert Drill Sleeve 4,5 mm/ 3,2 mm 1
- Double Drill Sleeve 4,5 mm / 3,2 mm 1
- Double Drill Sleeve 6,5 mm/ 3,2 mm 1
- Universal Drill Guide 4,5 mm 1
- Drill Guide Neutral & Load 4,5 mm 1
- T-Handle, small 1
- Screwdriver Shaft 3.5 mm Hex-& 4.5mm 1 Each
- Screwdriver 3,5 mm Hex 1
- Holding Sleeve 4,5/6,5 mm, large 1
- 110 mm Depth Gauge 1
- Bending Template 4,5 mm 7 holes 1
- Bending Template 4,5 mm 9 holes 1
- Bending Template 4,5 mm 12 holes 1
- Sharp Hook, 150 mm 1
- Tension Device 1
- Wrench 11 mm 1
- Aluminum Case, Red
- Tray (Lower) Instruments 1
- Tray (Upper) Instruments 1
- LISTON amputation knife, approx. 170 mm 1
- BECKMANN retractor, sharp, approx. 310 mm 1

- Hammer, steelm 510 gr., approx. 260 mm 1
- LANGENBECK bone holding forceps, approx. 210 mm 1
- HIBBS osteotome, straight, 6 mm, approx. 240 mm 1
- HIBBS osteotome, straight, 13 mm, approx. 240 mm 1
- HIBBS osteotome, straight, 19 mm, approx. 240 mm 1
- HIBBS osteotome, straight, 24 mm, approx. 240 mm 1
- HIBBS osteotome, straight, 32 mm, approx. 240 mm 1
- HIBBS bone chisel, straight, 6 mm, approx. 240 mm 1
- HIBBS bone chisel, straight, 13 mm, approx. 240 mm 1
- HIBBS bone chisel, straight, 19 mm, approx. 240 mm 1
- HIBBS bone chisel, straight, 25 mm, approx. 240 mm 1
- HIBBS bone chisel, straight, 32 mm, approx. 240 mm 1
- HIBBS gouge, straight, 6 mm, approx. 240 mm 1
- HIBBS gouge, straight, 13 mm, approx. 240 mm 1
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- HIBBS gouge, straight, 19 mm, approx. 240 mm 1
- HIBBS gouge, straight, 25 mm, approx. 240 mm 1
- HIBBS gouge, straight, 32 mm, approx. 240 mm 1
- FARABEUF periosteal elevator, straight, approx. 150 mm 1
- LANGENBECK elevatotr, 8 mm, approx. 200 mm 1
- LANGENBECK Raspatories with hollow handle, approx. 195 mm 1
- BENNETT bone lever, approx. 45 x 260 mm 1

- PUTTI bone rasp, double ended, approx. 270 mm 1
- PERCY retractor for amputation 1
- SATTERLEE amputation saw, approx. 310 mm 1
- RALK bone hand drill 1
- Forceps tissue, 1x2 teeth, approx. 145 mm 2
- ADSON forceps, serrated, approx. 120 mm 1
- SENN retractor, double, sharp, approx. 170 mm 2
- SENN retractor, double, blunt, approx. 170 mm 1
- ALM retractor, sharp, approx. 70 mm 1
- WEITLANER retractor, sharp, approx. 115 mm 2
- WEITLANER retractor, blunt, approx. 115 mm 1
- Probe, buttoned with eye, 2 mm, approx. 145 mm 1
- Grooved director, approx. 145 mm 1
- HALSEY needle holder, smooth, approx. 130 mm 2
- RUSKIN rongeur, curved, approx. 180 mm 1
- LISTON bone cutting forceps. approx. 140 mm 1
- MARTIN cartilage holding forceps, approx. 190 mm 1
- LOWMAN bone holding clamp, approx. 185 mm 1
- VOLKMANN bone curette, fig 0000 1
- VOLKMANN bone curette, fig 000 1
- VOLKMANN bone curette, fig 3 1
- Osteotome, 12 mm, approx. 135 mm 1
- Bone Chisel, 12 mm, approx. 135 mm 1

- Gouge, 12 mm, approx. 135 mm 1
- KIRK hammer, 750 g, approx. 190 mm 1
- LANGENBECK Raspatories, with hollow handle, approx. 195 mm 1
- Bone rasp, approx. 245 mm 1
- CHARRIERE amputation saw, length of blade 200 mm, approx. 300 mm 1
- STILLE Hand drill, with 9 twist drills, approx. 205 mm 1
- Frazier aspiration cannula, 30°, 8 Fr., approx. 190 mm 1
- Frazier aspiration cannula, 30°, 10 Fr., approx. 190 mm 1

33. Physiotherapy and occupational Therapy equipment sets

1. 4 Channel Transcutaneous Electric Nerve Simulator
2. Ankle Exerciser
3. Heal Pads
4. Infra Red Radiation Therapy
5. Muscle Simulator
6. Ultra Sound Therapy
7. Equipment Trolleys
8. Shoulder Ladder DLX
9. Continuous Passive Motion unit (Knee)
10. Interferential Therapy
11. Traction Unit

12. Couches for treatment (with cushion)

13. Laser Therapy

14. Wax Bath

15. PEG Board (1 set)

16. Rotatory Wrist machine

Should Wheel

34.Movie Camera for demonstration of live operations

Specification:

35 .Plaster table

- Complete Stainless Steel construction.
- Top section with 6 movable panels.
- Dimensions 180Lx65Wx80cm.

Movable Container is available for waste collection & can be adjustable at any panel.

36.Electric plaster cutter

Specification

1. Should have a fiber body.
2. Should be able to cut fiber gauzes.
3. Blades should be corrosion resistant and highly durable.
4. Blades should have hexagonal mounting hole.
5. Should be supplied with 84mm, 74mm, and 64mm diameter blades.
6. Should be supplied with required tools for replacing the blades, brush and duster.

7. Should be supplied with carrying case to accommodate the plaster cutter and other accessories.
8. Should have a protective guard
9. Should be oscillating type
10. Should work with input 200 to 240Vac 50 Hz supply.

Additional Accessories

1. Blades (84mm) - 6Nos
2. GYP SONA 6 inch – 100 Nos
3. GYP SONA 4 inch – 100 Nos
4. Roller Bandages 6 Inch – 200 Nos
5. Roller Bandages 4 Inch – 200 Nos

Certificates: Notified CE/BIS/FDA and ISO 13485

1. Tourniquet Pneumatic – 4 Nos

Accessories

- a. Esmarch 4 inch – 10 Nos

Esmarch 6 inch – 10 Nos

37. Reflex hammer

- reflex hammer made of aluminium / brass
- optimal weight distribution
- powder coating with neurological sensor tip
- length: 230 mm | weight: 245 g
- without brush due to hygienic reasons

38. Measuring Tape (Steel Tape Roll)

- Minimum 5 M Steel Tape Roll

39.Goniometer

- Stage Size 2 x 3 inches (51 x 76mm)
- Sample Size 3 inches (76mm) deep x unlimited
- Contact Angle Range 0 to 180°
- Resolution 0.1°
- Accuracy +/- 0.10°
- Camera IEEE1394a FireWire, 60 fps
- Stage Precision 3-Axis Locking with Levelling Specimen Stage
- Dimensions 19 x 20 x 10 in (480x500x250mm)
- Power Supply 110 or 220 VAC

40.Assorted surgical instrument for minor operation sets

Technical Specification:

- 1 Kidney Tray Large
- 2 Ss Bowl
- 3 Towel Clip
- 4 Bp Handle No. 7
- 5 Suction Tip 2mm
- 6 Suction Tip 5mm
- 7 Yankaur Suction Tip 10 Mm-31 Cm
- 8 Ss Scale
- 9 Dissecting Tooth Forcep 16 Cm
- 10 Adson Tooth Forcep 12 Cm
- 11 Adson Plain Forcep 15 Cm
- 12 Dissecting Plain Forcep 18 Cm
- 13 Dissecting Plain Forcep Fine Tip 15 Cm
- 14 Dissecting Plain Forcep 23 Cm

- 15 Dissecting Plain Forcep 30 Cm
- 16 Debakey Forcep 20 Cm
- 17 Mosquito Artery Forcep Cvd 12 Cm
- 18 Mosquito Artery Forcep Cvd 14 Cm
- 19 Mosquito Artery Forcep St. 12 Cm
- 20 Mosquito Artery Forcep St. 14 Cm
- 21 Artery Forcep Cvd 16 Cm
- 22 Artery Forcep Fine Cvd 18 Cm
- 23 Artery Forcep Fine Cvd 19 Cm
- 24 Artery Forcep Heavy Cvd 20 Cm
- 25 Allis Forcep 15 Cm
- 26 Allis Forcep 20 Cm
- 27 Babcock Forcep 18 Cm
- 28 Babcock Forcep 20 Cm
- 29 Kochers Clamp Cvd 20 Cm
- 30 Kochers Clamp St. 20 Cm
- 31 Metz Scissor 20 Cm (1 Golden Handle)
- 32 Metz Scissor 15 Cm
- 33 Metz Scissor Heavy Tip 19 Cm
- 34 Mayo Scissor St. 17 Cm
- 35 Mayo Scissor St. 19 Cm
- 36 Needle Holder 18 Cm Fine Tip
- 37 Needle Holder 18 Cm Heavy
- 38 Needle Holder 20 Cm
- 39 Needle Holder 27 Cm
- 40 Rider Needle Holder 20 Cm
- 41 Intestinal Clamp Cvd (Atraumatic)

42 Intestinal Clamp St. (Atraumatic)

Retractor tray

- 1 Dever Retractor Small
- 2 Dever Retractor Medium
- 3 Dever Retractor Large
- 4 Doens Retractor
- 5 Skin Hook
- 6 Lengan Bag Retractor M
- 7 Lengan Bag Retractor Small
- 8 C Zerney Retractor
- 9 Vein Retractor
- 10 Mastoid Retractor
- 11 Peristom Elevator
- 12 Bowl Large
- 13 Maliable Copper Retractor S/M/L 6 EACH

Fine Vascular Tray

- 1 S.S Tray With Lid
- 2 Pot"S Scissors (Forward) 19 Cm Tc
- 3 Rider Needle Holdre 18 Cm
- 4 Fine Forceps Adsons 12 Cm
- 5 Micro Scissors St 15 Cm
- 6 Micro Scissors Cvd 15 Cm
- 7 Castro Needle Holder 15 Cm St
- 8 Castro Needle Holder 15 Cm Cvd
- 9 B.P Handle 7 No

Vascular Tray

- 1 Aortic Clamp 27 Cm

- 2 Cross Clamp 24 Cm
- 3 Aortic Clamp 20 Cm
- 4 Aortic Clamp 15 Cm
- 5 Aortic Clamp 24 Cm
- 6 Bulldog Clamp Curv 7 Cm
- 7 Bulldog Clamp Curv 10 Cm
- 8 Bulldog Clamp St. 8 Cm
- 9 Bulldog Clamp St. 10 Cm
- 10 Bulldog Clamp Angled 7 Cm
- 11 Debakey Forcep 24 Cm
- 12 Vein Retractor 23 Cm
- 13 Needle Holder 27 Cm
- 14 Potss Scissor
- 15 Rider Needle Holder 20 Cm

41.CC Camera for Student demonstration for OT

Specification:

42.General Sets including open Urological surgery

1.Urethroplasty Instruments

- Mastoid retractor medium and large size-2each
- KILLIAN nasal septum Specula self retaining total length 5", blade length 2",2.5",3"-one each
- Turner Warwick retractor with six blades(7-8")-one
- Hey Groove metal Dilator Set(16Fr to 28Fr)-one set
- Female urethral dilator set metallic(16Fr-32Fr)-one set .
- Boyle Davis Mouth Gag(BDG) with tongue depressing blades(all sizes)-one
- Bone harmer medium size-one e Urethroplasty gouge-one
- Bone nibbler both blades cutting-one
- Dissecting forcep 6"-one
- Dissecting forcep 9"-one
- Fenestrated forcep 6"-one

2.Arteriovenous Fistula set

- Petit point mixerforcep 4-3/q curved-2
- Mattox pott scissors 5-Yz" 45 degree-2
- Stevens tenotomy scissor 4-t/2" cuwed-Z
- Petit point mixer 5-V+"-one
- Debakey vascular tissue forceps fine 6"-2
- Westcott tenotomy scissor]/z-two
- Converse skin hooks large-2
- Metzenbaum Tenotomy Scissors, curved blades 6" and 8"-2each
- A-V Fistula Tunneler, malleable, removable slotted bullet tip 9"-1 .
- Bulldog Clamps, angled, 12mm,-four.
- A-V Fistula Tunneler, malleable, removable slotted bullet tip 9,,-1
- Bulldog Clamps, angled, 12mm,-four
- Mosquito Forceps, delicate, curved, Length 3-718"(99mm)-4e
- Vascular Needle Holders, bayonet, TITANIUM, with catch, working distance 2 -(63 mm), Length 8 -3/a" (222mm) -One Straight tip and one Curved tip(Tip-0.6mm)
- Castroviejo MICROSURGICAL CLASSIC PLUS Needle Holders, smooth tungsten carbide jaw inserts with catch length 5.5" &7"- leach
- CASTROVIEJO Corneal Scissors 4.5"-one
- Micro forcinted tip 0.3mm 5.5" abd 7"-two each

43.Pediatric surgical instrument set

1. Trocar- 02 in no.

- Diameter – 3.5mm
- Working length – 50mm
- Pyramidal tip
- Cannula with luer-lock connector
- Silicone leaflet valve

2. Trocars – 02 in no.

- Diameter – 3.5mm
- Working length – 100mm
- Pyramidal tip
- Cannula with luer-lock connector
- Silicone leaflet valve

3. Right Angle Dissector-02 in no.

- Diameter – 3mm
- Working length – 220mm
- Double action jaw
- Luer-lock connector
- Blade length 10mm

- Rotating with locking mechanism
- Connector-pin for electro-cautery

4. Grasping forceps-02 in no.

- Diameter – 3mm
- Working length – 220mm
- Double action jaw
- Luer-lock connector
- Blade length 10mm
- Rotating with locking mechanism
- Connector-pin for electro-cautery
- Fenestrated with atraumatic serrations

5. Bowel grasping forceps-02 in no.

- Diameter – 3mm
- Working length – 220mm
- Double action jaw
- Luer-lock connector
- Blade length 20mm
- Rotating with locking mechanism
- Fenestrated with atraumatic serrations

6. Scissors-01 in no.

- Diameter – 3mm
- Working length – 220mm
- Double action jaw
- Luer-lock connector
- Blade size 6mm
- Rotating without locking mechanism
- Connector-pin for electro-cautery
- Micro-hook scissors

7. Allis grasping forceps-02 in no.

- Diameter – 3mm
- Working length – 220mm
- Double action jaw
- Luer-lock connector
- Blade length 10mm
- Rotating with locking mechanism
- Connector-pin for electro-cautery

8. Spoon biopsy forceps – 01 in no.

- Diameter – 3 mm
- Working length – 220mm

- Double action jaw
- Luer-lock connector
- Blade length – 10 mm
- Rotating with locking mechanism
- Connector pin for electro-cautery

9. Fan Liver Retractor-01 in no.

- Diameter – 3mm
- Working length – 220mm
- Luer-lock connector
- Blade length 60mm
- Rotating with locking mechanism
- Articulating, 3-5 fingers

10. Articulating Liver Retractor-01 in no.

- Diameter – 3mm
- Working length – 220mm
- Luer-lock connector
- Rotating with locking mechanism

11. Traumatic grasper-02 in no.

- Diameter – 3mm
- Working length – 220mm
- Double action jaw
- Luer-lock connector
- Blade length 10mm
- Rotating with locking mechanism
- Connector-pin for electro-cautery
- 2×3 teeth

12. Luer Lock Cap – 02 packets of 10 pieces

13. Laparoscopic Satinsky clamp – 04 in nos.

- Diameter – 3mm
- Working length – 220mm
- Double action jaw
- Luer-lock connector
- Blade length – 30-50mm
- Rotating with locking mechanism
- Connector pin for electrocautery
- Shapes will be chosen by the user

14. Laparoscopic Bull-dog clamp applicator – 01 in no.

- Diameter – 3mm
- Working length – 220mm
- Double action jaw
- Luer-lock connector

- Ten Bull-dog of different shapes & sizes should be supplied
15. De Bakey Tissue Forceps-02 in no.
- Diameter – 3mm
 - Working length – 220mm
 - Double action jaw
 - Luer-lock connector
 - Blade length 22mm
16. Knot pusher/tier-01 in no.
- Diameter – 3mm
 - Working length – 220mm
 - Open-end design
17. Menghini Liver Biopsy Needle-01 in no.
- Diameter – 3mm
 - Working length – 220mm
18. Suction Irrigation Cannula-01 in no.
- Diameter – 3mm
 - Working length – 220mm
 - Trumpet type
 - Adaptors for use with handles
19. Puncture needle with aspiration-01 in no.
- Diameter – 3mm
 - Working length – 220mm
 - 15 Gauge
20. Monopolar suction/irrigation electrode-01 in no.
- Diameter – 3mm
 - Working length – 220mm
 - With valve
 - Connector-pin for electro-cautery
 - L-hook
 - Two way stop cock
 - With monopolar HF cord
21. Pyloric Spreader -01 in no.
- Diameter – 3mm
 - Working length – 220mm
 - Rotating
 - Luer lock adaptor
 - Inside and outside serrated, double action jaws
22. Pyloric grasper-01 in no.
- Diameter – 3mm

- Working length – 220mm
- Rotating
- Luer lock
- Double action jaws

23. Pylorotome-01 in no.

- Diameter – 3mm
- Working length – 220mm
- Including blades- 10 in nos.

24. Laparoscopic instrument boxes -04 in nos.

- Size 550cm×300cm×150cm
- Non-perforated side walls and bottom
- Perforated lid
- Should have an insert or stand for atleast 15 laparoscopic instruments

25. Needle Holde-01each in no. (CV & ST)

- Size – 3mm
- Length – 220mm
- Axial handle with Ratchet
- Blade - Curved to right & Straight
- Tungsten coated jaw

26. Self righting needle holder-01 in no.

- Size – 3mm
- Length – 220mm
- Axial handle with Ratchet
- Tungsten coated jaw

27. Telescope-01 each in no.

- Size – 3 mm
- Length – 300mm
- Angle of view 30 degree
- Full HD & Autoclavable
- Should be compatible with all standard Full HD Camera Head
- Should be supplied with safety-box to accommodate at least 5 telescopes

28. Scope Protectors, 44cms length – 05 in no.

29. HF monopolar cable (3 mtrs)-03 in nos.

30. HF bipolar cable (3 mtrs)-03 in nos.

31. Silicone tube (3 mtrs, 30 Fr) with adaptors for suction & irrigation cannula-03 in nos.

32. Telescope holder – 01 in no.

- Should be able to hold 3, 5, and 10mm telescope
- Should be articulating type
- Infinite height rail clamp with 01 cam joint should be provided
- Should provide all the accessories to make it functional

33. Hem-o-lock polymer clip applicator-01each in no.

- Endoscopic manual load applier for medium-large (green), large (purple) and extra-large (brown) clips
- Working length – 35-40 cms
- Diameter – 5mm (ML) & 10mm (L, XL)
- Should be supplied with 25 cartridges of 5-10 clips each

34. Hydatid cannula with trocar (10-13mm dia.) – 01 in no.

35. Hem-O-Lock polymer locking ligation system – 01 each in no.

- Open manual load applier for large (purple) and extra-large (brown) clips
- Length – 11 inches
- Jaw – Curved
- Should be supplied with 25 cartridges of 5-10 clips of each size

NOTE:

- All the items should be REUSABLE.
- All the items should be from the same manufacturer except item no. 24, 28, 32, 33, 34 and 35.
- All the items which are to be used with electro-cautery should be fully insulated (ceramic coated tip).
- On-site demonstration of instruments is essential.
- All the items should be US FDA or European CE certified.

All the items should be autoclavable.

44.Burr hole set with electric craniotome

- Hudson brace Standard size 10 inches
- Cerebellar Extension
- Hudsons Perforator 10 mm
- Hudsons Conical bur 11 mm
- Hudsons spherical bur 11 cm
- Trepine 3.5 cm
- Jefferson self-retaining retractor Curved 3x4 blunt pointed blades 5 1/2 inches
- Jansen self retaining retractor With blunt blades 114 mm (4 1/2) inches

- Cairns Rake Retractor 4 prong sharp 19 mm wide 210 mm long
- Towel clips 10 inches
- Cushing Artery Forceps- Fine serrated jaws box joint 5 1/2 inches
- Cushing Artery Forceps- Curved on flat Fine serrated jaws box jointing 5 1/2 inches
- Cushing Artery Forceps- Curved on flat Fine serrated jaws box joint curved to side 5 1/2 inches
- Adson skull drill guide and brain protection forceps
- Cushing Periosteal elevator Slightly curved end
- Cone skull punch for fixing osteoplastic flap
- Penfield double ended elevator with broad curved dissector 7.5 mm sharp round spoon 7 1/2 inches long
- Penfield double ended elevator with 7.5mm sharp round spoon & wax packer 7 inch long
- Penfield double ended elevator with full curved dissector and wax packer
- Penfield blunt ended dissector Slightly curved 4 mm wide and handle 8 1/2 inches long
- Penfield double ended dissector very light 11 1/2 inches long
- Bowls –Big
- Bowls- small
- Needle Holder – Small
- Needle Holder – Large
- Bard Parker Knife Handle 11 inch blade 8 inch blade
- Taylor Dural Scissors Curved 5 1/2 inches
- Frazier Suction Tube 7FG Angled
- Frazier Suction Tube 7FG Angled
- Container for storing and sterilization for each set with Autoclave compatibility
- The instrument/set should be US FDA/CE/BIS & ISI approved.

45.Vascular set

- **Technical Specification:**
- 1. B.P. Handle 7L
- 2. Dissecting Forceps Russian 8"
- 3. Dissecting Forceps Angled Atr. 8"
- 4. Cardipegia Cannula Lt. & Rt.
- 5. Needle Holder Vascular 10" TC
- 6. Heavy Duty Castroviejo Needle Holder For 2-0 Needle, 19 CM Idpc
- 7. Heavy Duty Castroviejo Needle Holder For 2-0 Needle, 23 CM Idpc
- 8. Valsellum
- 9. Blunt Hook10"
- 10. Valve Ronguers Assorted Upward
- 11. Valve Ronguers Down Ward

- 12. Valve Ronguers Straight
- 13. Ross Aortic Valve Retractors Assorted
- 14. V.S.D. Retractor Set of 5
- 15. Cooley Retractor, Sizes, Small, Medium, Large, One Each
- 16. Scissors Calcified Tissue CD, 9"
- 17. Chest Tube Holding Forceps
- 18. Four Prong (Rake) Retractors Volkmann
- 19. Langenback Retractor Small
- 20. Langenback Retractor Medium
- 21. Czerne's Retractor
- 22. Allis Forceps 8"
- 23. Scissors Calcified Tissue CD, 9"
- 24. Self Retaining Retractor 4 Pronged, Small
- 25. Self Retaining Retractor 4 Pronged, Medium
- 26. Self Retaining Retractor 4 Pronged, Large
- 27. Four Bladed Chest Spreader, Morse, Large
- 28. Four Bladed Chest Spreader, Morse, Medium
- 29. Needle Holderr, Ryder, TC, 7"
- 30. Needle Holderr, Ryder, TC, 8"
- 31. Needle Holderr, Mayo Hegar, TC, 8"
- 32. Needle Holderr, Mayo Hegar, TC, 9"
- 33. Debakey Forceps, 1 mm Tip, 8"
- 34. Debakey Forceps, 2 mm Tip, 8"
- 35. Wire Holder Twister 8" TC
- 36. Wire Cutter 7" SS
- 37. Scissor, Curved, TC Mayo, 7"
- 38. Scissor, Curved, TC Metzenbaum, 7"
- 39. Scissor, Curved, TC Metzenbaum, 8"
- 40. Scissor, Straight, TC, Mayo 7"
- 41. Scissor, Straight, TC, Mayo 8"
- 42. Kidney Tray 12"
- 43. Forward Scissor" 45 Degree, Spring Action, Round Handle, TC 7"
- 44. Backward Scissor 125 Degree, Spring Action, Round Handle, TC7"

46.Cystoscope &Resectoscope

Specifications

- Cystoscope with Light source, camera & Monitor
- Sheath with obturator outer Diameter- 20 Fr
- Working channel- 04-05Fr

- Working length- 22cms
- Self-dilating tip for ease of entry
- Compatible 30degree an 0-degree HD telescope – 01 each
- Telescope bridge – 01
- Stone crushing forceps compatible with above sheath and telescope – 01 in no
- Resectoscope sheath compatible with above mentioned telescope – 01 in no., with
- Moveable thumb ring (working element) – 01 in no.
- Spring loaded action with electrodes inside the sheath in rest position
- Telescope Bridge – 01 in no.
- Cutting loop – 10 in nos.
- Coagulating hook electrode – 10 in nos
- Monopolar high frequency cord – 05 in no.
- Protection tube for electrodes – 05 in no
- Fiber optic cold light source: 1no. 300 watt Xenon bulb /LED (Bulb life 500 hrs minimum for xenon & LED Life 10000 hrs.
- Should have 3 cheap camera
- Should have 21" Medical grade HD Monitor.
- Power supply 220VAC +/- 10 %, 50Hz.
- On-line UPS with 60 minutes back up Entire system.

Only USFDA (510 K) Approved model should be Offered

47.Flexible Video Side viewing Gastroduodenoscope for ERCP

Specifications:

A. High-Definition Duodenoscope

1. Built in latest HD CCD/ Megapixel CMOS.
2. Should have Image enhancement facility.

3. In build Scope identification memory chip for monitor display of scope's model No. and other scope details.
4. Scope should be the latest available in the world Market.
5. Should have locking mechanism Dual Lock/G-Lock for guide wire exchange with 15-degree/5-Degree backward viewing.
6. Should have Advance/High Force Transmission - 1:1 transfer of pushing & rotating forces.
7. Should have removable distal cover for ease of cleaning.

Field of view	100° or more
Direction of view	Retro viewing 15°/5 °
Observation range	4–60mm or better
Bending capability	Up 120° /Down 90° Right 110°/Left 90° or better
Distal end diameter	13.5 mm or less
Insertion tube diameter	11.5 mm or less
Working channel diameter	4.2 mm or more
Working length	1200 mm or more
Total length	1500 mm or more

B. Full HD Video Processor Module:

- Should be compatible with Analog, HD-SDI/3G-SDI/DVI-D(Any two HD Outputs), RGB-TV x 1, S VIDEO x 1, VIDEO x 1(Any two SD Outputs) for a HDTV monitor should be available.
- Should contain the electronics to operate Multi optical zoom for clear visibility of near & far objects.
- Suitable for Optical enhancement technology to provide high Contrast Images while performing Optical Magnifying Endoscopy and while observing microvascular and micro surface patterns of the mucosal layer.
- System should support Close focus up to 1.5 mm to get enhanced image for diagnosis
- Should have LCI (Linked Colour imaging) /RDI & TXI – Advance Image Enhancement Endoscopy, Special light function for detection of surface patterns and vessels and slight color difference should be visualized with natural tone using Red Component.
- Suitable for BLI/BLI-Bright/ NBI/ISCAN-OE, Optical enhancement technology to provide high Contrast Images while observing microvascular and micro surface patterns of the mucosal layer.

- Should be compatible with Optical zoom with provision of Step wise & continuous zoom.
- System should be compatible and upgradable with AI (Artificial Intelligence) in future.
- Equipped with high resolution HDTV Imaging capacity and have stand by option to exchange the Scopes.
- No white balance compulsion.
- Compact, lightweight (10-15 kg) and ergonomically designed.
- Recording of both still & moving images.
- Should be compatible and upgradable with Endoscopy scopes & EUS system for future up gradation.
- System should be equipped with one touch connection of scopes and should have Contact free technology with Power feed should be through Wireless electrical supply, Image Transmission should be through high-speed optical fiber.
- Portable Memory & USB Slot for image recording with 4 GB internal memory and external USB (2GB) Automatic IRIS control & automatic white balance
- Electronic Zoom 2.0 X or more with Recording of both still & moving images.
- Equipped with automatic light adjustment forced air cooling, regulated air feeding pump and fan with low noise.
- Light weight not more than 12 kg.
- Processor should be latest launch in India at the time of quoting the tender.

C. Light Source (Quantity 1):

- Long life Multi LED light source (3 or more LED bulb) with minimum lamp life of 6000 hours/Xenon 300 watt (additional 5 bulbs to supplied to equate lamp life)
- Backlit front panel indicators.
- Equipped with automatic light adjustment forced air cooling, regulated air feeding pump and fan with low noise.
- Compatible for waterproof one touch connector.
- Compact & light weight design weight up to 15 Kg.
- Integrated/Separate, light weight and ergonomically designed.
- Should be latest launch in India at the time of quoting the tender.

D. Medical Grade Monitor (Quantity 2)

- 26" or more medical grade monitor compatible with the above quoted system.
- Screen size 26 inches or more.
- Medical Grade monitor
- Full HD display (1920x1080)

- Compatible picture in picture display with compatible video processor and endoscopes.

E. System should be supplied with below mentioned items -

- Compatible trolley to mount the system
- HD Reporting and Reporting Software
- Computer system with i5 processor, 8GB RAM & 1 TB HDD or higher
- Laser color printer.

ERCPC Standard accessories - (2 No. Each)

- Guidewires
- Sphincterotome
- Cannula
- Wire Guided Balloons
- Reusable Lithotripter

Terms and conditions:

- The system must have standard comprehensive warranty of 5 years and should quote CMC for next 5 years.
- Should be European CE/US FDA certified/BIS/CDSCO/Indian Standards.
- CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
- CMC offered for the quoted equipment must be on OEM letterhead for further years. CMC offered on distributors / vendor letterhead will not be considered
- Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.
- The installation process must be completed by the OEM/ Service provider within 30 days of supply.
- The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
- The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility; all supporting documents must be provided.
- Equipment should have brand name / model number embossed/ etched on the equipment.

- In case of technical snag/ failure/ breakdown, the response time for Inspection should be within 72 Hour and repair within 10 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the INSTITUTE (Uptime guarantee of 95%).

48.Flexible Video Sigmoidoscope

Specifications:

A. Flexible Video Sigmoidoscope -

- Should have built in Full HD Endoscopy with Close observation capacity up to 3.0mm.
- Should be equipped with auxiliary water jet function for flushing (mucosal cleaning).
- Suitable for FICE/BLI/BLI-Bright/ NBI/ISCAN-OE, Digital/Optical enhancement technology to provide high Contrast Images while observing microvascular and micro surface patterns of the mucosal layer.
- In built scope identification memory chip for monitor display of scope's model no. serial no., white balancing memory, no. of connections/cumulative uses etc.

Field of view	140° or more
Observation range	3.0mm-100mm
Bending capability	Up 180° /Down 180°
	Right 160°/Left 160°
Distal end diameter	12.8 mm or less
Insertion tube diameter	12.8 mm or less
Working channel diameter	3.8 mm or more
Working length	790 mm or less
Total length	1090 or less

B. Full HD Video Processor Module:

- Should be compatible with Analog, HD-SDI/3G-SDI/DVI-D(Any two HD Outputs), RGB-TV x 1, S VIDEO x 1, VIDEO x 1(Any two SD Outputs) for a HDTV monitor should be available.
- Should contain the electronics to operate Multi optical zoom for clear visibility of near & far objects.
- Suitable for Optical enhancement technology to provide high Contrast Images while performing Optical Magnifying Endoscopy and while observing microvascular and micro surface patterns of the mucosal layer.

- System should support Close focus up to 1.5 mm to get enhanced image for diagnosis
- Should have LCI (Linked Colour imaging) /RDI & TXI – Advance Image Enhancement Endoscopy, Special light function for detection of surface patterns and vessels and slight color difference should be visualized with natural tone using Red Component.
- Suitable for BLI/BLI-Bright/ NBI/ISCAN-OE, Optical enhancement technology to provide high Contrast Images while observing microvascular and micro surface patterns of the mucosal layer.
- Should be compatible with Optical zoom with provision of Step wise & continuous zoom.
- System should be compatible and upgradable with AI (Artificial Intelligence) in future.
- Equipped with high resolution HDTV Imaging capacity and have stand by option to exchange the Scopes.
- No white balance compulsion.
- Compact, lightweight (10-15 kg) and ergonomically designed.
- Recording of both still & moving images.
- Should be compatible and upgradable with Enteroscopy scopes & EUS system for future up gradation.
- System should be equipped with one touch connection of scopes and should have Contact free technology with Power feed should be through Wireless electrical supply, Image Transmission should be through high-speed optical fiber.
- Portable Memory & USB Slot for image recording with 4 GB internal memory and external USB (2GB) Automatic IRIS control & automatic white balance
- Electronic Zoom 2.0 X or more with Recording of both still & moving images.
- Equipped with automatic light adjustment forced air cooling, regulated air feeding pump and fan with low noise.
- Light weight not more than 12 kg.
- Processor should be latest launch in India at the time of quoting the tender.

c. Light Source (Quantity 1):

- Long life Multi LED light source (3 or more LED bulb) with minimum lamp life of 6000 hours/Xenon 300 watt (additional 5 bulbs to supplied to equate lamp life)
- Backlit front panel indicators.
- Equipped with automatic light adjustment forced air cooling, regulated air feeding pump and fan with low noise.
- Compatible for waterproof one touch connector.
- Compact & light weight design weight up to 15 Kg.

- Integrated/Separate, light weight and ergonomically designed.
- Should be latest launch in India at the time of quoting the tender.

D. Medical Grade Monitor (Quantity 2)

- 26" or more medical grade monitor compatible with the above quoted system.
- Screen size 26 inches or more.
- Medical Grade monitor
- Full HD display (1920x1080)
- Compatible picture in picture display with compatible video processor and endoscopes.

E. System should be supplied with below mentioned items -

- Compatible trolley to mount the system
- HD Reporting and Reporting Software
- Computer system with i5 processor, 8GB RAM & 1 TB HDD or higher
- Laser color printer.

Standard accessories - (2 No. Each)

- Biopsy forceps

Terms and conditions:

- The system must have standard comprehensive warranty of 5 years and should quote CMC for next 5 years.
- Should be European CE/US FDA certified/BIS/CDSCO/Indian Standards.
- CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
- CMC offered for the quoted equipment must be on OEM letterhead for further years. CMC offered on distributors / vendor letterhead will not be considered
- Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.
- The installation process must be completed by the OEM/ Service provider within 30 days of supply.
- The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.

- The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility; all supporting documents must be provided.
- Equipment should have brand name / model number embossed/ etched on the equipment.

In case of technical snag/ failure/ breakdown, the response time for Inspection should be within 72 Hour and repair within 10 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the INSTITUTE (Uptime guarantee of 95%).

49.Harmonic Scalpel

1. System should have a universal connector to connect Ultrasonic energy and Advanced RF energy instruments.
2. Ultrasonic and bipolar energy in the system must work separately and at no point in combination.
3. System should have automatic instrument recognition.
5. System should have a touch screen display for fast and setup, operation and on-screen diagnostics.
6. System should have a high-resolution display with wide viewing angles.
7. System should have the ability for software updates via USB memory stick.
8. System should be a single generator that provides Ultrasonic energy and Advanced RF energy technology for soft tissue dissection and vessel sealing
9. System should have a potential equalization terminal for compatibility with other medical systems requiring such connections
10. System should conform to the following international standards EN (IEC) 60601-1, EN (IEC) 60601- 1-2, EN (IEC) 60601-2-2, EN (IEC) 60601-1-8
11. System should provide Class 1 protection against electric shock
12. System should have a single footswitch for operating ultrasonic energy or advanced RF energy instruments
13. System should have the ability to select hand switch or footswitch activation or both for Ultrasonic and advanced RF energy instruments and the ability to change selection during use

14. System should have English language as default No change
15. System should not have minimal lateral thermal spread more than 1 mm. No change
16. System should not have an auto switch off mechanism. No change
17. System should have standby mode to ensure safety. No change
18. System should come equipped with system diagnostics and troubleshooting guide to pin point any problems in the systems. No change
19. System should have onscreen warning display system for generator overheating, generator software upgrade, handpiece errors and instrument errors
No change
20. System should be able to power ultrasonic energy instruments with 55.5 KHz frequency and can power ultrasonic energy instruments in the frequency range of 30- 80 KHz in future No change
21. The hand piece for the system should come with an inbuilt transducer. No change
22. System should be compatible for open surgery and for laparoscopic surgery.
No change
23. System should be compatible with both 5mm and 10mm instruments. No change
24. System should have atleast 5 power settings levels with power level display for ultrasonic energy instruments. No change
25. System should be able to power energy instruments with microprocessor controlled bipolar electrosurgical radiofrequency technology with a quasi-sinusoidal forced impedance output. No change
26. System should be equipped with smart advanced RF energy technology to measure the tissue impedance and control the power delivery. No change
27. System should be equipped with advanced RF energy technology that can simultaneously seal and transect vessels up to and including 7mm, large tissue pedicles and vascular bundles. No change
28. System should be equipped with advanced RF energy technology that provides temperature- controlled energy delivery which should maintain tissue temperature approximately at 100 degree Celsius. No change
29. System should have Advanced RF Energy hand instruments with a unique electrode configuration to minimize the lateral thermal spread. No change

30. System should have Advanced RF Energy hand instruments with technology to deliver high compression uniformly across seal area.

31. System should have Advanced RF Energy hand instruments that provide tissue / vessel seal strength to withstand bursting pressure of 7 times the systolic pressure.

32. All hand probes for open and lap procedures should be able to simultaneously cut and coagulate tissues.

33. System should be able to power advanced RF energy hand instruments of 5mm shaft diameter for both open & laparoscopic procedures with round trip (5mm tip width) in the following shaft lengths (14cm, 25cm , 35cm & 45cm) and should be both hand & foot activated.

34. Systems should be able to power ultrasonic energy hand instruments of 5mm shaft diameter for both open & laparoscopic procedures with the following specifications

System should comprise of the following Hardware: No change

1 Generator

2 Footswitch & Cable Accessories: No change 1 Handpiece (Transducer) 2 Handpiece (Blue)

3 Generator Cart

4 Adaptors for ultrasonic

5 advanced RF energy instruments

Open Surgery Instruments (Ultrasonic cutting and coagulation device):

1. 9cm shaft, curved, tapered tip for precise dissection, seals 5 mm vessels, as well as lymphatic with 16 mm active blade & 240-degree activation, triggers support multiple hand positions.

2. 17cm shaft, curved, tapered tip for precise dissection, seals 5 mm vessels, as well as lymphatic with 16 mm active blade & 240-degree activation, triggers support multiple hand positions.

3. 5mm Hand Activated Curved Coagulating Shears capable of sealing blood vessels upto 5mm in diameter, 23 cm shaft length, ergonomic handle

4. Curved Blade having telescoping shaft (10cm-14cm) with integrated hand activation control buttons.

5. Dissecting Hook having telescoping shaft (10cm-14cm) with integrated hand activation control buttons.

Open Surgery Instruments (Bipolar vessel sealing device):

1. Hand probes with 5mm shaft diameter, 14cm long with 5mm tip width.
2. Hand probes with 5mm shaft diameter, 25cm long with 5mm tip width.
3. Hand probe with, 22cm long shaft and 40mm jaw length

Laparoscopic Surgery Instruments (Ultrasonic cutting and coagulation device):

1. 5mm Lap Hand Activated Curved Coagulating Shears capable of sealing blood vessels upto 5mm in diameter, 36 cm shaft length, ergonomic handle.
2. 5mm Lap Hand Activated Curved Coagulating Shears capable of sealing blood vessels upto 5mm in diameter 45 cm shaft length, ergonomic handle.
3. 5mm Lap Dissecting Hook, 32 cm long

Laparoscopic surgery instrument (Bipolar vessel sealing device):

1. Laparoscopic probe probes with 5mm shaft diameter, 35cm long with 5mm tip width.
2. Laparoscopic probes with 5mm shaft diameter, 45cm long with 5mm tip width.
3. Articulating Laparoscopic probe probes with 5mm shaft diameter, 35cm long with 5mm tip width, Probe should have ability to articulate 45- 50* both sides.

Only USFDA (510 K) approved model should be offered.

50.Assorted Open & Laparoscopic Stapling devices 2 sets

Specification:

SECTION – VI

PRE - QUALIFICATION CRITERIA

(Referred to in clause 13.3 of ITB)

I. Terms of Qualification for Equipment:

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

- (a). at least equal of the quantity offered or 25, whichever is lowest, if the tender quantity is ≤ 49 (or)
 - (b). at least 50% of the quantity offered or 70, whichever is lowest, if the tender quantity is between 50 and 199
 - (c). at least 35% of the quantity offered or 125, whichever is lowest, if the tender quantity is between 200 and 499
 - (d). at least 25% of the quantity offered, if the tender quantity is > 500
- The bidder should furnish the information on past supplies and satisfactory performance in the proforma given under Section XI- Format B1, duly attested by the Bid signatory
 - Bidders shall invariably furnish documentary evidence (End-user Certificate) in support of the satisfactory operation of the equipment as specified or a CA/Statutory auditor Certificate to that extent as per the format provided in the Section XI- Format B2
 - The Bidder shall have an Avg. annual turnover in the last three financial years of not less than the amount specified against each item in the Schedule of the Requirements and also to have a positive net worth as per the latest Annual Accounts.
 - Towards the above, the bidder should furnish data as per the Format (B3) given in Section- XI, to support that he has the financial capacity to perform the contract. Further the bidder as to submit the corresponding Balance Sheets and Profit and Loss Accounts for verification
- a) The Manufacturer, must have necessary quality certifications for both processes and products such as ISO 9001 (Quality Management System for Organization) and ISO 13485 (Quality Management System for Medical Devices).
 - b) Full Quality Assurance System Approval certificate Management System Certification for Medical Devices and their equivalent International Standards certificates as BIS/CE/USFDA etc.

II. Terms of Disqualification:

1. The Bidders who has withdrawn their bids in any of the previous tenders of APMSIDC
2. A bidder who is placed on the black-list by either APMSIDC or by any other State /Central government's department or organization for the product offered with his bid in the last 3 years
3. A bidder who is placed on the black-list by either APMSIDC or by any other State / Central government's department or organization in the last 3 years
4. A bidder who is currently blacklisted / debarred either by APMSIDC or by any State Government or Central Government Department or Organization
5. The bidder who has been declared as 'undependable supplier' for two (2) items or in two (2) instances in the last one year by the APMSIDC and
6. The bidders against whom there have been reports of substandard Equipment and/or service are liable for disqualification.

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

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

SECTION – VII (A): BID FORM

(Name and Address of Purchaser)

Date _____

To
The Managing Director,
APMSIDC, Mangalagiri, Guntur.

Contract No. _____

Gentlemen:

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

We undertake, if our bid is accepted, to commence delivery within 60 (Number) days and to complete delivery of all the items and perform incidental services as specified in the contract within 60 (Number days calculated from the date of receipt of your Notification of Award/Letter of credit.

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

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

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

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

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

Dated this _____ day of _____

Signature: _____

(in the Capacity of) : _____

Duly Authorized to sign bid for and on behalf of

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

Information Technology Electro - (P4) | <https://tender.apcprocurement.gov.in/ViewItemFormatX.html#>

Current Tender Details

Tender ID: 1230	IFB Number / Tender Notice Number: 2.1/AFMSDC/2016-17, Dated: 07.05.2016
Tender Category: PRODUCTS	Tender Evaluation Type: L1 - Use
Tender Type: OPEN	Estimated Contract Value: 0
Tender Opening Date: 17/05/2016 05:15 PM	Bid Submission Closing Date: 01/06/2016 05:15 PM

Schedule Details

Schedule Name: Miscellaneous	Schedule Description: Divers items
------------------------------	------------------------------------

Item Details

Item Code: Surg001	Item Name: GRAM STAINING KIT
Item Description: As per tender document	Item Specification: As per tender document

Add / Edit Cost Component Details

ID	Component Name	Type	Percentage / Amount
B001	CST	--SELECT--	
B002	Customs Duty	--SELECT--	
B003	Discount	--SELECT--	
B004	Entry Tax	--SELECT--	
B005	Excise Duty Including Cess	--SELECT--	
B006	Freight Charges	--SELECT--	
B007	Insurance Charges	--SELECT--	
B008	Other Charges if any	--SELECT--	
B009	Packaging & Forwarding Charges	--SELECT--	
B010	VAT	--SELECT--	

Remarks

Total KIT Quantity	Offered Quantity (A)	Brand/Make/Model	Basic price Unit (INR) (B)	Basic price Unit(s) Words	Total Cost Component Unit (INR) (C)	Landed Price Per Unit (B+C)

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 THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the conditions of Contract referred to;
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) The Technical and Price bid of the Supplier
 - (b) The approved Technical Specifications,
 - (c) The General Conditions of Contract,
 - (d) The Special Conditions of Contract, and
 - (e) The Purchaser's Notification of Award.
3. In consideration of the payments to be made by the purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provision of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. Brief particulars of goods and services which shall be supplied/provided by the Supplier are as under.

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

TOTAL VALUE:

DELIVERY SCHEDULE:

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

Signed, Sealed and Delivered by the

Said _____ (For the Purchaser)

in the presence of _____

Signed, sealed and Delivered by the

Said _____ (For the supplier)

In the presence of _____

SECTION- X: PERFORMANCE SECURITY FORM

To

The Managing Director
APMSIDC,
Mangalagiri, Guntur.

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

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

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

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

This guarantee is valid until the _____ day of _____.

Signature and seal of Guarantors

Date _____

Address _____

SECTION XI

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

(Please see Section VI: Qualification Criteria)

Bid No. _____ Date of Opening _____ Time _____
Hours

Name of the Firm

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

Signature and seal of the Bid Signatory

SECTION XI

FORMAT B2

CA (STATUTORY AUDITOR) CERTIFICATE

(Please see Section VI: Qualification Criteria)

Certificate from the Statutory Auditor

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

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

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

Name of Authorized Signatory(CA):

Designation:

Name of firm:

(Signature of the Authorized Signatory)

Seal of the Firm

SECTION XI

B3- FINANCIAL CAPACITY OF THE MANUFACTURER

A. Details of Annual Turnover for Preceding 3 Years.

	Year 1 (2018-19)	Year 2 (2019-20)	Year 3 (2020-21)	Average Annual Turnover
Turn Over (In Rs. Crores)				

B. Details of Net Worth

	Year1 (Last Financial Year i.e. as on 31 st March 2021)
Paid up Capital (Rs. Cr)	
(Add) Free Reserves (Rs. Cr)	
Total Net Worth (Rs. Cr)	
<hr/> (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/warranty/CMC/AMC as
agreed by the tenderer in the event the tenderer is changed as the dealers
or the tenderer fails to provide satisfactory after sales and service during
such period of comprehensive warranty/CMC/AMC and to supply all the
spares/ reagents during the said period.

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

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

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

(Name of manufacturers)

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

SECTION - XIII

DECLARATION FORM

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

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

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

Signature :

Date :

Name of the
Firm and address :

SECTION XIV

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

I. Documents with the Technical Bid

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

Sl. No	Document Description	Documents to be submitted
21	DPIIT Approval, if required	Online & Offline

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

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

Notes to Bidders

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

(On Firm letter Head)

Annexure - I

ANDHRA PRADESH MEDICAL SERVICES CORPORATION LTD

INSTALLATION CERTIFICATE

(to be filled 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 <i>(tick one)</i>
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 <input type="checkbox"/> NO <input type="checkbox"/>		The equipment is working satisfactorily YES <input type="checkbox"/> NO <input type="checkbox"/>	
The equipment was installed and handed over on <i>(Installation date to be filled in by the Head of the institution or by the end user)</i>			
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.

On Consignee letter Head

Dt: _____

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE
DEVELOPMENT CORPORATION (APMSIDC)
THREE MONTHS PERFORMANCE CERTIFICATE
(to be filed 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 <input type="checkbox"/>	NO <input type="checkbox"/>
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 <input type="checkbox"/> Not working satisfactorily <input type="checkbox"/>		
Recommended to settle the final payment		YES <input type="checkbox"/> NO <input type="checkbox"/>		
Recommend for trial run for one more month		YES <input type="checkbox"/> NO <input type="checkbox"/>		
Performance of accessories supplied				
Further Training		Required <input type="checkbox"/> Not required <input type="checkbox"/>		
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 :		

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

WARRANTY CERTIFICATE
*(to be filed 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:
--	---

**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.	<input type="checkbox"/>	Public Ltd.	<input type="checkbox"/>	Proprietorship	<input type="checkbox"/>
	Partnership	<input type="checkbox"/>	Society	<input type="checkbox"/>	Others, specify	<input type="checkbox"/>
	Registration No. & Date of Registration.					
Nature of Bussiness (-lease <input type="checkbox"/> relevant box)			
5	Original Equipment Manufacturer	<input type="checkbox"/>	Authorized Dealer /Representative		<input type="checkbox"/>	
	Direct Importer	<input type="checkbox"/>	Others, specify.		<input type="checkbox"/>	

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.	