RATE CONTRACT

FOR

SUPPLY OF CONSUMABLES & DISPOSABLES FOR CARDIO THORACIC

AND VASCULAR SURGERY (CTVS)

at

All India Institute of Medical Sciences (AIIMS), Jodhpur

NIT No.	:	Admin/RC/07/2022-AIIMS.JDH
NIT Issue Date	:	17 th November, 2022
Last Date of Submission	:	15 th December, 2022 at 03:00 PM
Date of Opening	:	16 th December, 2022 at 03:00 PM
Pre-Bid Meeting	:	Refer page No03 > Point No02

Tender documents may be downloaded from institute's web site www.aiimsjodhpur.edu.in (for reference only) and CPPP site https://eprocure.gov.in/eprocure/app



All India Institute of Medical Sciences, Jodhpur

Basni Phase – II, Jodhpur – 342 005, Rajasthan
Phone: 0291-2740741, Email: procurement@aiimsjodhpur.edu.in
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Website: http://www.aiimsjodhpur.edu.in

All India Institute of Medical Sciences (AIIMS), Jodhpur, Rajasthan, an apex healthcare institute established by an Act of Parliament of India under aegis of Ministry of Health & Family Welfare, Government of India, invites Online bids in two bid system for Rate Contact for supply of Consumables & disposables for Cardio Thoracic and Vascular Surgery (CTVS). You are requested to quote your best offer along with the complete details of specifications, terms & conditions.

Annexure - I

General Instructions to Bidders:

- Bids shall be submitted online only at CPPP website: https://eprocure.gov.in/eprocure/app.
- 2. The complete bidding process in online. Bidders should be in possession of valid digital Signature Certificate (DSC) of class II or III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. For any assistance for e-bidding process, if required, bidder may contact to the helpdesk at 0291-2740741.
- 3. Tenderer/Contractor/Bidders are advised to follow the instructions provided in the 'Instructions to the Contractors/Tenderer/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in /e-procure/app.

Sample/Demonstration: The tenderers are required to submit samples of product of the quoted items (without indicating price, clear marking of firm / agency name in each of item) when required by the <u>Institute</u> for quality/technical evaluation, all the expenses will be borne by the tenderer. Purchase will be done only after the approval of the quality of the product by the Competent Authority. **Samples should be submitted separately at central Store, AIIMS Jodhpur.** (Submitted only in Dispatch/Received section).

The firms are intimated that they should get ready for demonstration and only <u>one-week</u> time will be provided for arrangement of demonstration and no request for extending time for demonstration will be entertained. Failure to demonstrate, their offer will be summarily rejected.

- **4.** Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- **5.** Before formulating the bid and submitting the same to the purchaser, the bidder should read and examine all the terms, conditions, instructions, etc. contained in the Tender Document. Failure to provide and/or comply with the required information, instructions etc. incorporated in these Tender Documents may result in rejection of its Bid.
- **6.** The rates quoted, approved, and accepted by the Director, AIIMS, Jodhpur shall be valid for **two years** from the date of **award of contract**. (Extendable on mutual agreement, if required).
- **7.** <u>Submission of Tender:</u> The tender shall be submitted online in two part, viz., **technical bid**, and **financial bid**. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

Note:- The offers submitted by Telegram / Fax /Email shall not be considered. No correspondence will be entertained in this matter.

Annexure-II- Conditions of Contract

General Terms and Conditions

Subject: - Notice Inviting bids for Rate Contract for Supply of Consumables & disposables for Cardio Thoracic and Vascular Surgery (CTVS) at All India Institute of Medical Sciences, Jodhpur

1. Parties:

The parties to the contract are the contractor (the tenderer to whom the work have been awarded) and the Director, All India Institute of Medical Sciences, Jodhpur.

- 2. "PRE BID Meeting" with the intending bidders shall be held on 29th November, 2022 from 03:00 PM onwards at Conference Hall, Medical Superintendent Office, AIIMS Jodhpur. All the prospective bidders are requested to send comments/ representations on or before pre-bid meeting. Intending bidder will be allowed to seek clarification on specification, Conditions of Contract, etc. in writing to AIIMS, Jodhpur, within 48 hours after the pre-bid meeting. Bidders are advised to submit their representation via email on procurement@aiimsjodhpur.edu.in; or procurement.aiimsjodhpur@gmail.com on or before 26th November, 2022 representation received after this date will not be entertained.
- 3. Proposal for rate contract may be submitted in the prescribed format and all columns may be filled up. Incomplete proposals and tenders received after due date shall not be entertained. The Institute shall not be responsible for any postal delay and delay in receipt of the offer. Any bids received by the Institute which does not fulfill the desired terms and conditions shall be rejected out rightly and no communication in this regard shall be sent. Delayed / Late Bids will not be accepted, in any circumstances.
- 4. Quotations qualified by such vague and indefinite expression such as "Subject to prior confirmation", "Subject to immediate acceptance" etc. will be treated as vague offers and rejected accordingly. Any conditional tender shall be rejected summarily.
- 5. The Manufacturers (OEMs) / principals offering for the Rate Contract may furnish the name and address of their local authorized distributor / dealer, so that the copies of orders can be endorsed to them for expeditious supply. In such cases where local dealers / stockiest has been nominated by the principal; the bills raised by them against our purchase order will be accepted.
- 6. Any addition and deletion of authorized dealership / distributorship shall be intimated to the undersigned immediately on authorization of a new party.
- 7. At any time prior to date of submission of tender, Tender Inviting Authority may, for any reason or decision, modify the terms & conditions of the tender document by a corrigendum displayed on the website of AIIMS Jodhpur (http://www.aiimsjodhpur.edu.in). In order to provide reasonable time to take the amendment into account in preparing their bid, Tender Inviting Authority may or may not, at his discretion, extend the date and time for submission of tenders.
- 8. In case of supply of goods made through valid authorized dealer, their name & mail address may be declared / indicated in the tender.

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- 9. Authorization certificate in respect of foreign firms duly self-attested and showing validity period may be submitted.
- 10. The Bids are to be submitted by the manufacturers / marketers only. Bids quoted by suppliers on behalf of manufacturers / marketers will not be entertained even if they are authorized by the manufacturers. However, manufacturers can give authority letter to the local (Nearby to the Institute) supplier / distributor / stockiest for the purpose of making supplies, raising bills, collecting payment etc. only after award of tender. In such cases, the manufacturer has to accept responsibility for any lapse on the part of the distributor/supplier and an undertaking to this effect from the manufacturer will have to be submitted. Failure to submit such an undertaking will lead to rejection of authorization and manufacturer will have to supply drugs directly. Sub authorization further to any other agent for delivery of the goods or for raising bills / collecting payment etc. will not be accepted.

11. DOCUMENTS COMPRISING THE BID:

The **Two Bid System**, i.e. "Techno – Commercial Bid" and "Price Bid" prepared by the bidder shall comprise the following:

Techno – Commercial Bid (Un-priced Bid): - To qualify in the Technical Bid the firm should have the **minimum eligibility criteria** as under and the firm in this regard must submit the following documents in support of their eligibility criteria: -

- (a) Valid registration certificate of the firm of the Govt. / State Govt.
- **(b)** Scanned copy of **Tender Acceptance Form** to be uploaded.
- (c) Duly filled format of Technical Bid as per Annexure III.
- (d) All the bidders are directed to submit LIST OF QUOTED ITEMS strictly as per Annexure VI.
- (e) Copy of constitution or legal status of the bidder manufacturer / Sole proprietorship / firm / agency etc.
- (f) Manufacturer Authorization Certificate must be attached by Bidder as per the Performa.
- (g) Scanned Copy of undertakings and Other Documents as per NIT.
- (h) Financial Status: -
 - ➤ The Principal manufacturing / marketing company of pharmaceutical must have minimum turnover of **Rs. 50 Crores** for similar products in the **last three financial** years i.e. 2019-20, 2020-21, 2021-22. (Copy of Chartered Accountant **Turnover certificate** & proof of audited annual accounts duly authenticated by a Chartered Accountant must be attached).
 - ➤ Average turnover from similar job, of the Firm / Distributor / Dealer, for last three consecutive years (i.e. 2019-20, 2020-21 and 2021-22) should not be less than **Rs. 5 Crore**. Copy of Chartered Accountant **Turnover certificate** with profit & loss account and balance sheets duly authenticate by a Chartered Accountant for the last three years should be enclosed.
- (i) Copy of Income Tax Return Acknowledgement for last Three years (F.Y. ending 2020-21).
- (j) Copy of PAN Card.
- (k) Copy of GST registration certificate.
- (I) Details of clients where similar services are presently provided by the tenderer separately for govt. and private clients.

- (m) The bidders shall also be required to submit copies of any three supply orders (after concealing rates of items along with list of items provide to these organizations) and corresponding/respective inspection notes received by them during last 3 years i.e. 2019-20, 2020-21, 2021-22 for the tender items from Any Govt. Hospital/Private Hospital having minimum 500 beds capacity along with a certificate from the same hospital's concerned authority that the supplies have been satisfactorily completed without any complaint. The bidders are also required to submit list indicating the name and place of the Institutions where they have been supplying the quoted items.
- (n) The concerned firm/company whose product has been declared as of spurious or adulterated quality and any criminal cases is filled and is pending in any court shall not be eligible to participate in the bidding process. Convicted firms/company shall also not be eligible to participate in the bid. Similarly, blacklisted / banned / debarred firms / company by any central / state govt. or its organization or autonomous bodies or central drug procurement agency is not eligible to participate in the bid.
- **(o)** Brochure, original technical catalogue with detailed specification and picture of the product offered, if relevant.
- (p) The bidder must upload required quality documents in techno-commercial bid for each items along with item no. i.e., self- attested copies of CE/USFDA/ISO/BSP/USP/WHO/GMP/BIS as mentioned in the specification of tender items, failing which the offer for such items will be rejected.
- (q) Mandate form.

Price Bid:

Price Schedule(s) as per BOQ format filled up with all the details including Make, Model etc. of the goods offered to be uploaded.

Note:-

- (i) Price should be quoted as per S. No. inclusive of all item/components/accessory in that S. No.
- (ii) L1 will be decided on the basis of whole price quoted for that particular Serial No. irrespective of their components/Specification.

Schedule of price bid in the form of BOQ_XXXX.xls:

The below mentioned (Section X) price bid format is provided as BoQ_XXXX.xls along with this Tender Enquiry Document at https://eprocure.gov.in/eprocure/app. Bidders are advised to download this BoQ_XXXX.xls as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid. Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tempered / modified in any manner, tender will be completely rejected out rightly.

12. Bid Currencies

The bidder supplying indigenous goods or already imported goods shall quote only in Indian Rupees (INR). Bids, where prices are quoted in any other way shall be treated as non - responsive and rejected.

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13. Bid Prices

The Bidder shall indicate in the Price Schedule provided in BOQ all the specified components of prices shown therein including the unit prices on Free Delivery at Site basis, applicable GST, HSN Code, it proposes to supply against the requirement. The Bidders shall indicate MRP in the relevant column against each item of BOQ. The details about make & model, if applicable, may also be indicated. All the columns shown in the Price Schedule should be filled up as required.

In no case the quoted rates should be more than MRP at the time of submission of quotation. If subsequently during the currency of Rate Contract there is decreased in MRP, the bidder shall inform the purchaser promptly along with revised reduced rates on pro-rata basis. In case, if bidder quotes more than MRP and/or does not inform purchaser about reduction in MRP, it will be viewed seriously and appropriate administrative action will be taken including de-barring the firm.

14. Opening of Tender:

The tenderer is at liberty either himself or authorize not more than one representative to be present at the opening of the tender. The representative attending the opening of the tender on behalf of the tender should bring with him a letter of authority from the tenderer and proof of identification.

15. Validity of the bids:

The bids shall be valid for a period of **180** days from the date of opening of the tender. This has to be so specified by the tenderer in the commercial bid.

16. Right of acceptance:

The AIIMS, Jodhpur reserve the right to accept the whole or any part or portion of the bid; and the bidder shall provide the same at the rates quoted. The AIIMS Jodhpur reserve the right to reject any or all tenders / quotations or all offers received in response to the tender or cancel or withdraw the tender notice without assigning any reason thereof and also does not bind itself to accept the lowest quotation or any tender and no claim in this regard shall be entertained.

17. Firm Price

Prices quoted by the bidder shall remain firm and fixed during the period of the Rate Contract and not subject to variation on any account. Purchase Orders will be placed by Centers / Hospital / Departments / Store Sections against this Rate Contract till the period of Rate Contract. Statuary variation in GST will be applicable.

18. Alternative Models / Brands / Quality

Alternative Models / Brands / Quality are not permitted. The Bidders are required to quote Models/Brands/Quality of best quality meeting tender specifications. Wherever, a bidder quotes alternative Models / Brands / Quality, there bid will not be considered for that item.

19. Purchase Preference to Local Suppliers

In pursuance of Government of India Order No. P-45021/2/2017-B.E.-II dated 29th May, 2019 and (F. No.: Z. 28018/67/2017-EPW dated 12th June 2018) purchase preference shall be given to local suppliers in all procurements undertaken in the manner specified hereunder and the procurement shall be made as per terms and conditions contained in the said order.

- 20. **Minimum local content:** The minimum local content shall as per Government of India Order No. P45021/2/2017-B.E.-II dated 15/06/2017 and F.No. Z.28018/67/2017-EPW dated 12/06/2018, till the Nodal Ministry prescribes a higher or lower percentage. (Annexure-IV).
- 21. Margin of Purchase Preference: The margin of purchase preference shall be 20%. The Local supplier who's quoted price falls in the margin of purchase preference desirous of claiming benefit of the Order No. P-45021/2/2017-B.E.-II dated 29th May 2019 shall submit an undertaking within 7 days of opening of financial bid, that he would be ready to supply the product at L1 price. In case of non-receipt of the same, he would not be given purchase preference.
- 22. The bidders are required to submit the following annexure in compliance of public procumbent (Preference to Make in India) order, 2017: i) Affidavit of self-certification regarding local content (to be provided on Rs. 100/- stamp paper) **Annexure V**.
- 23. All other terms & conditions will be as per the Department of Industrial Policy and Promotion (DIPP) order No. P-45021/2/2017-B.E.-II dated 16th September 2020 (as amended from time to time).

24. Signing of Tender:

Individual signing the tender or other documents connected with contract must specify whether he sign as:

- (a) A sole proprietor of the concern or constituted attorney of such sole proprietor;
- (b) A partner of the firm, if it is a partnership firm in which case he must have authority to execute the contracts on behalf of the firm and to refer to arbitration disputes concerning the business of the partnership either by virtue of the partnership agreement or by a power of attorney duly executed by the partners of the firm.
- (c) Director or a principal officer duly authorized by the Board of Directors of the Company, if it is a company.
- 25. A person signing the tender form or any document forming part of the tender on behalf of another person should have an authority to bind such other person and if, on enquiry it appears that the person so signing had no authority to do so, AIIMS, Jodhpur may without prejudice, cancel the contract and hold the signatory liable for all costs, consequences and damages under the civil and criminal remedies available.

26. TECHNICAL EVALUATION:

(a) Detailed technical evaluation shall be carried out by Purchase Committee pursuant to conditions in the tender document to determine the substantial responsiveness of each tender. For this clause, the substantially responsive bid is one that conforms to all the eligibility and terms and condition of the tender without any material deviation. The Institute's determination of bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence. The Institute shall evaluate the technical bids also to determine whether they are complete, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are in order.

- **(b)** The technical evaluation committee may call the responsive bidders for discussion or presentation to facilitate and assess their understanding of the scope of work and its execution. However, the committee shall have sole discretion to call for discussion / presentation.
- (c) Financial bids of only those bidders who qualify the technical criteria will be opened provided all other requirements are fulfilled.
- (d) AIIMS Jodhpur shall have right to accept or reject any or all tenders without assigning any reasons thereof.

27. FINANCIAL EVALUATION:

- (a) The financial bid shall be opened of only those bidders who are found to be technically eligible. The financial bids shall be opened in presence of representatives of technically eligible bidders, who may like to be present. The Institute shall inform the date, place, and time for opening of financial bid.
- **(b)** Arithmetical errors shall be rectified on the following basis. If there is a discrepancy between the unit price and total price that is, the unit price shall prevail and the total price shall be corrected by the Institute. If there is a discrepancy between words and figures, the lesser amount shall be considered as valid. If the Supplier does not accept the correction of the errors, his bid shall be rejected.
- (c) The AIIMS Jodhpur does not bind itself to accept the lowest bid or any bid and reserves the right of accepting the whole or any part of the bid or portion of the job offered; and the bidder shall provide the same at the rates quoted. AIIMS Jodhpur, reserves the right to reject any or all offers received in response to tender or cancel or withdraw the tender notice without assigning any reason, whatsoever.

28. AWARD OF CONTRACT: PLACEMENT OF ORDER

The Institute shall consider placement of orders for jobs on those bidders whose offers have been found technical, commercially and financially acceptable. The Institute reserves the right to counter offer price(s) against price(s) quoted by any bidder. L1 will be decided on individual item basis.

- 29. The offers submitted by Telegram / Fax / Email shall not be considered. No correspondence will be entertained in this matter.
- 30. **Delivery**: Delivery of goods shall be made by the supplier within **45 days** of placing of purchase order, however, in case of emergent requirement he has to supply the required quantity of goods within 1 week of placing of order also. In few cases the items are to be delivered at a very short notice i.e. within 24 hours.
- 31. The Bidder(s)s must quote rates including freight, insurance, cartage, labour charges etc. on Door Delivery basis at AIIMS, Jodhpur
- 32. **Liquidated Damages**: Supply of material will have to be completed within **45 days** or period mentioned in the purchased order. The liquidated damages charges @ 0.5% per week shall be imposed if supply made after expiry of delivery period subject to maximum 10% of the total value of

relevant goods. Quantum of liquidated damages assessed and levied by the purchaser shall be final and not challengeable by the supplier.

- 33. **Risk Purchase**: If successful tenderer fails to supply material within the stipulated delivery date or material supplied other than specification specified in our NIT, AIIMS Jodhpur reserves the right to terminate contract for that item(s), forfeiture of security deposit and to procure same or equivalent material from alternative sources at the vendor's risk, responsibility, and cost. Any extra cost incurred in the procurement of the material from alternative source will be recovered from the Security Deposit / Bank Guarantee and Pending Bills of existing firm and if the value of the materials under risk purchase exceeds, the amount of Security Deposit and / or Bank Guarantee and Pending Bills, the same may be recovered if necessary by due legal process.
- 34. **The Payment clause:** The bill in triplicate may be sent to this office for settlement after satisfactorily delivery of the material. The bill should have full particulars of the items(s).
- 35. No payment shall be made in advance nor shall the loan from any bank or financial institutions be recommended on the basis of the order of award of work.
- 36. The contractor shall submit the bill only after supply of the material to the satisfaction of the AIIMS Jodhpur, on receipt of a pre-receipted bill invoice from the Contractor the case of issuing sanction and passing of bill for payment will be initiated. No payment will be made for goods rejected.
- 37. **Performance Security:** The bidder shall require to submit the performance security after receipt of award of notification, in the form of irrevocable Bank Guarantee (BG) / or Fixed Deposit Receipt (FDR) issued by any Scheduled Bank for an amount in multiplication of 20,000/- (Rupees Twenty Thousand Only) per awarded item subject to minimum Rs. 2,00,000/- (Rupees Two Lacs only) and maximum Rs. 6,00,000/- (Rupees Six Lacs only). The security deposit of successful bidders will be kept for the period of two and half year from the date of award of the contract and shall be refunded without any interest on it within 15 to 90 days after completion of the contract as per order, or after the expiry of contract on satisfactory completion of the same whichever is later. The security deposit can be forfeited by the Institute in the event of any breach or negligence or non-observance of any condition of contract or for unsatisfactory performance or non-observance of any condition of the contract.
- 38. No interest on security deposit money shall be paid by the Institute to the tenderer.

39. FORCE MAJEURE:

If, at any time during the subsistence of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war or hostility, act of public enemy, civil commotion, sabotage, fire, floods, explosion, epidemics, quarantine restriction, strikers lockout or act of God (hereinafter referred to as events) provided notice of happening of any such eventuality is given by party to other within 21 days from the date of occurrence thereof, neither party hall by reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance, and deliveries have been so resumed or not shall be final and conclusive.

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Further, that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may, at least option to terminate the contract.

- 40. **Insolvency etc.:** In the event of the firm being adjudged insolvent or having a receiver appointed for it by a court or any other order under the Insolvency Act made against them or in the case of a company the passing any resolution or making of any order for winding up, whether voluntary or otherwise, or in the event of the firm failing to comply with any of the conditions herein specified AIIMS, Jodhpur shall have the power to terminate the contract without any prior notice.
- 41. **Breach of Terms and Conditions:** In case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to cancel the work order/ job without assigning any reason thereof and nothing will be payable by AIIMS, Jodhpur in that event the security deposit shall also stands forfeited.
- 42. **Subletting of Work:** The firm shall not assign or sublet the work/job or any part of it to any other person or party without having first obtained permission in writing of AIIMS, Jodhpur, which will be at liberty to refuse if thinks fit. The tender is not transferable. Only one tender shall be submitted by one tenderer.
- 43. **Right to call upon information regarding status of work:** The AIIMS, Jodhpur will have the right to call upon information regarding status of work / job at any point of time. To assist in the analysis, evaluation and computation of the bids, the Purchase Committee of AIIMS, Jodhpur, may ask bidders individually for clarification of their bids. The request for clarification and the response shall be in writing but no change in the price or substance of the bid offered shall be permitted.
- 44. **Fall Clause:** If at any time during the period of contract, the price of tendered items is reduced or brought down by any law or act of the Central or State Govt. or by the tenderer himself, the tenderer shall be morally and statutorily bound to inform AIIMS, Jodhpur immediately about such reduction in the contracted prices. The AIIMS, Jodhpur is empowered to unilaterally effect such reduction as is necessary in rates in case the tenderer fails to notify or fails to agree for such reduction of rates. In case of any enhancement in TAXES due to statutory Act of the Govt. after the date of submission of the tenders and during the tender period, the additional TAXES so levied will be allowed to be charged extra as separate item without any change in price structure of the drugs approved under the tender.

45. **Arbitration:**

If any conflict or difference arises concerning this agreement, its interpretation on payment to make there-under, the same shall be settled out by mutual consultation and negotiation. If attempts for conciliation do not yield any result within a period of 30 days, either of the parties may make a request to the other party for submission of the dispute for decision by an Arbitral Tribunal containing Sole Arbitrator to be appointed by the Director, AIIMS Jodhpur. Such requests shall be accompanied with a panel of names of three persons to act as the sole arbitrator. In case of such arbitrator refusing, unwilling or becoming incapable to act or his mandate having been terminated under law, another arbitrator shall be appointed in the same manner from among the panel of

three persons to be submitted by the claimant. The provision of Arbitration and Conciliation Act, 1990 and the rule framed there under and in force shall be applicable to such proceedings.

46. Legal Jurisdiction:

The agreement shall be deemed to have been concluded in Jodhpur, Rajasthan and all obligations hereunder shall be deemed to be located at Jodhpur, Rajasthan and Court within Jodhpur, Rajasthan will have Jurisdiction to the exclusion of other courts.

47. Periodicity/ Duration:

The Rate Contract is initially for a period of **Two years** and may be extended till new Rate Contract gets final. AIIMS, Jodhpur shall, however, reserve the right to terminate the contract at any time without assigning any reason.

48. Other Conditions:

The successful firm will be required to do the work / job for a period of **Two years** from the date of award the contract. AIIMS, Jodhpur shall, however, reserve the right to terminate the contract at any time without assigning any reason.

- 49. The items will have to be supplied at AIIMS, Jodhpur. No transportation/ cartage charges will be provided for the same.
- 50. All India Institute of Medical Sciences (AIIMS), Jodhpur shall be the sole authority to cancel or amend the order, as per requirement, and also to place order for supply of item beyond office hours/holidays/place of supply for which, no additional payment shall be made.
- 51. The tendering Firm/Agency/Company shall be bound by the details furnished by him/her to the All India Institute of Medical Sciences (AIIMS), Jodhpur while submitting the tender or at subsequent stage. Upon selection of the tendering Firm/Agency/Company, if at any stage, the documents furnished by him/her is found to be false or the quality of the articles or rates are found of poor quality/different specifications, it would be deemed to be a breach of terms of contract, the contract shall be cancelled at the discretion of competent authority and performance security shall be stand forfeited.
- 52. Material shall be delivered at the AIIMS, Jodhpur with remaining shelf-life of at least 75% of the stipulated total shelf-life from the date of manufacturing of that product.
- 53. If the Local Authorized Dealer of any Manufacturing Company is participating in this Tender, he will be additionally allowed to be submit the Manufacturer's Authorization Certificate, Manufacturer's Companies duly certified Audited Accounts, Copy of Income Tax Return for Last Three Financial Years.
- 54. Order shall be issued for tentative annual requirement on actual need basis. Bills in triplicate for the items supplied by the selected firm(s), should be raised for payment. Payment shall be released after it is ensured that the items/quantity and quality of items supplied are to the entire satisfaction of this office and accepted. If any item is found to be defective, or not of the desired quality, the same shall be replaced immediately, for which no extra payment shall be made by AIIMS, Jodhpur.

- 55. The selected tendering Firm/Agency/Company shall also provide the name and mobile number of a key person, who can be contacted at any time, even beyond the office hours on holidays. The person should be capable of taking orders and making arrangement for supply of the desired items even on short notice to AIIMS, Jodhpur.
- 56. In case the quality of goods supplied are not in conformity with the standard given in tender and as per the samples supplied or the supplies are found defective at any stage these goods shall immediately will be taken back by the supplier and will be replaced with the tender quality goods, without any delay. The Purchase Committee reserves all right to reject the goods if the same are not found in accordance with the required description / specifications and liquidates damages shall be charged.
- 57. The Specification of the item needed is mentioned in Technical Bid (Annexure VIII). The payment would be made for actual supply taken and no claim in this regard should be entertained.
- 58. Full description & specifications, make / brand and name of the manufacturing firm must be clearly mentioned in the tender failing which the tender will not be considered. The tendered must also mention whether the goods are imported / indigenous. Descriptive literature / catalogues must be attached with the tender in original failing which tender may be ignored.
- 59. No Bidder(s) shall be allowed at any time on any ground whatsoever to claim revision of or modification in the rates quoted by him. Clerical error, typographical error etc. committed by the Bidder(s)s in the tender forms will not be considered after opening of the Bids. Conditions such as "SUBJECT TO AVAILABILITY, SUPPLY WILL BE MADE AS AND WHEN SUPPLIES ARE RECEIVED" etc. will not be considered under any circumstances and the Bids of those who have given such conditions shall be treated as incomplete and for that reason, shall be summarily rejected.
- 60. The rate quoted by firm should be final and written in ink or typed against each item and should not be overwritten.
- 61. Each page of the Tender Notice to be signed and stamped by the bidder in token of having accepted the same.
- 62. The AIIMS, Jodhpur reserves the right to place an order for supply of any items mentioned in the Financial Bid or otherwise, to any other firm(s) in emergency/unavoidable situation.

63. **Disclaimer:**

The near relatives of employees of AIIMS, Jodhpur are prohibited from participation in this tender. The near relative for this purpose are defined as:

- (a) Members of a Hindu Undivided Family.
- **(b)** Their spouses
- (c) The one related to the other in the manner as father, son(s), Son's wife (daughter-in-law), daughter(s) and daughter's husband (sons-in-law) brother (s) and brother's wife, sister(s) and sister's husband, brother(s)-in-law.

64. The Purchase Committee of AIIMS, Jodhpur shall go into all aspects including cost factors of Consumables and then decide for awarding of the tender, by quoting lower rates in respect of items, a firm does not become entitled to awarding the contract in its favor of those item(s). In order to get selection / consideration in the panel of two or three vendors for awarding of contract (in case the contract is to be awarded to more than one vendor), the criteria of selection for awarding contract will be calculating / comparing the rate of items consumed by the AIIMS, Jodhpur throughout the year and as per the requirement in view of quality, as deemed fit by the Purchase Committee. The firm has to provide samples for the items for evaluation of Purchase Committee when required. The committee will reject the quotations of the bidders whose quotation will not found of quality required by AIIMS, Jodhpur. AIIMS, Jodhpur reserves the right to accept/ reject any quotation either in part or full without assigning any reason thereof, or award the contract to different supplier(s), for different item(s), if feasible after considering the credentials, manufacturing, capability, quality and distribution rights of the item(s). The firm are, therefore, requested to attach their credentials in regard to supply of items and experience in the field, distribution rights and their annual turnover.

Special Conditions:

- (a) Freight, insurance charges, if any will be borne by the supplier, Similarly shortage, pilferage in transit will be sole responsibility of the supplier and the same will be intimated to the supplier on receipt of goods by the purchaser for resupply. The defective supply will have to be replaced by the supplier within 10 days without additional freight / transport charge.
- **(b)** GST and other Govt. levies will be paid extra as applicable by the supplier.
- (c) Terms of Delivery: Goods shall be delivered by the supplier on "Free Delivery at Site" basis and delivered as per Delivery Period specified in the Purchase Order placed against Rate Contract. Please note that the time shall be the essence of the contract. The goods are to be supplied by F.O.R. destination and all the transit loss / expenses whatsoever, will be borne by the supplier/firm.
- (d) Payment of the bill will be made after receipt of the goods in satisfactory condition and inspection by the concern Committee.
- (e) No revision in rate (on higher side) will be accepted during contract period.
- (f) Order will be placed as per requirement, irrespective of value of the order.
- **(g)** Supply should be made in full against the order and shortage will be procured from other supplier on the risk and cost of the original supplier.
- **(h)** Supply should be made from the latest batch of production with maximum life period & original packing.
- (i) While submitting the tender document, the tenderer should sign on each page of the tender document.
- (j) The tenderer should enclose a signed copy of the terms & conditions stipulated for award of the contract, conveying his acceptance of the same.
- **(k)** AIIMS Jodhpur reserves the right to conclude more than one rate contract for the same item.
- (I) AIIMS Jodhpur has the option to renegotiate the price with the rate contract holder.

(m) AIIMS Jodhpur reserves the right to cancel rate contract for any or all items without assigning any reason thereof.

Inspection:

- (a) AIIMS, Jodhpur shall have the right to inspect and/or to test the goods to confirm their conformity to the NIT Specifications at no extra cost to the AIIMS, Jodhpur.
- **(b)** AIIMS, Jodhpur right to inspect, test and, where necessary, reject the Goods after the goods arrival at the final destination shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by AIIMS, Jodhpur prior to the goods shipment.
- (c) The Director, AIIMS Jodhpur shall be the final authority to reject full or any part of the supply which is not confirming to the specification and other terms and conditions.
- (d) No payment shall be made for rejected Stores. Rejected items must be removed by the Bidders within two (02) weeks of the date of rejection at their own cost and replaced immediately. In case these are not removed, these will be auctioned at the risk and responsibility of the suppliers without any further notice.

Documents:

- (a) All pages of the Tender should be numbered and indexed.
- (b) The bidder shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully confirm to the goods and services specified by the AIIMS, Jodhpur in the tender documents. For this purpose, the bidder shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the AIIMS, Jodhpur in the tender documents to establish technical responsiveness of the goods and services offered in its tender duly indicating relevant page numbers in the product literature.
- (c) The bidder shall provide a list of major Government and Private Institutions where its relevant bid item has been supplied during last three years.

Deputy Director (Admin)

FORMAT FOR MANUFACTURER'S AUTHORIZATION

Dated:

To, The "Director", All India Institute of Medical Sciences (AIIMS) Jodhpur Industrial Area, Basni, Phase - IInd, Jodhpur (Raj.)	
Reference: NIT No. Admin/RC/07/2022-AIIMS.JDH, Dated: Consumables and disposables for CTVS at AIIMS Jodhpur. Subject: Manufacturer Authorization Certificate Dear Sir,	_/11/2022 for Tender for Supply of
Ref. Your NIT No	, dated
We,	who are
proven and reputable manufacturers of description of the Items/Category offered in the	(name and Quotation) having factories at
authorize Messrs(name an Quotation, process the same further, against your requirement Tender Form for the above items manufactured by us. We further confirm that no supplier or firm or	nt as contained in the above referred individual other than Messrs.
agent) is authorized to submit a tender, process the same further in the above referred Quotation Form for the above items manuf	
We also hereby confirm that we would be responsible for the sat the authorized agent.	tisfactory execution of supply placed on
We also confirm that the price quoted by our agent shall not equoted directly.	exceed than that which we would have
	Yours faithfully,
[Sign	ature with date, name and designation]
For and on beh	nalf of Messrs
「Name. addres	ss & contact detail of the manufacturer]
Note:-	

- 1. This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.
- 2. Original letter may be enclosed with Quotation Form during submission in the sealed cover.

NON BLACKLISTING CERTIFICATE

[To be submitted on letterhead]

I/We hereby certify that the [Name of the company / firm] has not been ever blacklisted/debarred by any Central / State Government / Public Undertaking / Institute on any account.

I/We also certify that firm will be supplied the item as per the specification given by AIIMS Jodhpur and also abide all the terms and conditions stipulated in Contract.

I/We also certify that the information given in bid is true and correct in all aspects and in any case at a later date it is found that any details provided are false and incorrect, contract given to the concern firm or participation may be summarily terminated at any stage, the firm will be blacklisted and AIIMS Jodhpur may imposed any action as per NIT rules.

Seal of the Bidder:

Date	:	Name	:
Place	:	Business Address :	
		Signature of Bidder	:

CERTIFICATE OF NO DEVIATION

[To be given on letter head]

NIT No.:
I/We, M/s hereby certify that notwithstanding any contrary indication / conditions elsewhere in our offer documents, I/We have neither set any terms and conditions nor there is any deviation taken from the conditions of AIIMS Jodhpur's tender specification, either technical or commercial, and I/We agree to all the terms and conditions mentioned in AIIMS Jodhpur's tender specification with associated amendments & clarification
[Signatures of the Bidder with Name, Designation & Company's Seal]

AIIMS - Jodhpur

CERTIFICATE OF PRICE JUSTIFICATION

[To be given on letter head]

I/We, M/s certify that the rates provided are our best rates and we have not given these materials to any Government
provided are our best rates and we have not given these materials to any Government
Department/PSU/Institution for lesser than these rates in last one year.
SIGNATURE AND STAMP OF THE BIDDER

BANK GUARANTEE FORM FOR BID SECURITY

Whereas ______ (Name and address of

the Bidder	er) (hereinafter called the "Bidders") has	s submitted its Bid da	ted	for the
	f			
	r's ATE No.			
Know all p	persons by these present that we			
having our	ır registered office at			
(Hereinaft	ter called the "Bank") are bound unto All	IMS, Jodhpur (<i>hereina</i>)	fter called the "	Purchaser")
	m of			
	id Purchaser, the Bank binds itself, its s	=	-	
the Comm	non Seal of the said Bank this	day of	20	·
The condit	itions of this obligation are:			
	e Bidder withdraws or amends, impairs od of validity of this Bid.	or derogates from th	ne bid in any r	espect within the
2) If the its vali	Bidder having been notified of the acce lidity:	ptance of his Bid by th	ie Purchaser du	ring the period of
a.	. If the bidder fails or refuses to furnish the Rate Contract / Purchase Orders o	•	urity for the du	e performance of
b.	. If the bidder fails or refuses to accept	/ execute the Contract	: / Purchase ord	lers or
C.	If it comes to notice at any time, that false or incorrect or misleading or forg		ocuments furnis	shed in its Bid are
without th note that	rtake to pay the Purchaser up to the able to the able Purchaser having to substantiate its continuous the amount claimed by it is due to its, specifying the occurred condition(s).	lemand, provided that	in its demand	the Purchaser will
	antee will remain in force up toand any demand in respect thereof should			
	 (Sig	gnature with date of th	ne authorized o	fficer of the Bank)
		(Nam	ne and designat	ion of the Officer)
	(Seal, r	 name & address of the	Bank and addr	ess of the Branch)

14/1							RIVIANCE SECU				
Whereas								-	and addre		
	(hereinafter										NIT
											to
	for su								113		
(Hereina)	fter called "the	? Contrac	t"), to	AIIMS	Jodhpur (He	ereinat	ter called "the	e Purcha	aser")		
a bank g security	EREAS it has businessed to the compliance	schedul with its	ed cor obliga	nmerci tions ir	ial bank recondanc	ognize e with	d by you for t the contract;			-	
AND WH	EREAS we hav	e agreed	to giv	e the s	upplier such	a ban	k guarantee;				
supplier, Amount written argumen	TEREFORE we up to a total of the Perform demand declar, any sum or or to show ground.	of nance Sec aring the sums wi	curity in support	<i>n word</i> llier to le limit	ds and figure be in def s of (amoun	s), and ault u	I we undertak nder the cor uarantee) afor	e to pay itract a esaid, v	y you, upon nd withou vithout you	(<i>in</i> your t cavi	sert first I or
	by waive the r demand.	necessity	of you	ır dem	anding the s	said de	ebt from the s	upplier	before pres	sentin	g us
performe supplier	ner agree that ed there under shall in any wa nch change, ad	r or of an	ny of t e us fr	he con om an	tract docum y liability ur	nents v	vhich may be	made b	etween yo	u and	the
plus Wa	rantee will rer rrant Period (each the Bank	If applica	able) p	lus ad		nety Da	_ (<i>insert</i> last o ays) and any				
(Signatur	e with date of	the auth	norized	l office	r of the Ban	k)					
	d designation										
Seal, nan	ne & address c	of the Bai	nk and	addre	ss of the Bra	inch					

TENDER ACCEPTANCE FORM

То	
The Director All India Institute of Medical Sciences Jodhpur (Raj.)	
Ref. Your NIT No.:	due for opening on
We, the undersigned have examined the above me amendment / corrigendum (if any), the receipt of which and deliver in conformity with your above referred of Schedules (BoQ) uploaded herewith and made part of the supply the items for which Rate Contract has been concessed in the Schedule specified in the schedule of Receipt Contract has been concessed in the Schedule specified in the schedule of Receipt Contract has been concessed in the Schedule of	n is hereby confirmed. We now offer to supply document for the sum as shown in the Price his bid. If our bid is accepted, we undertake to luded, in accordance with the delivery schedule
We further confirm that, if our bid is accepted, we sharequired amount in an acceptable form as mentioned in	
We agree to keep our bid valid for acceptance as modification, or for subsequently extended period, if an to abide by this bid up to the aforesaid period and this lof the aforesaid period. We further confirm that, until a with your written acceptance thereof within the afore between us.	y, agreed to by us. We also accordingly confirm oid may be accepted any time before the expiry a formal Rate Contract is executed, this bid read
We further understand that you are not bound to accept your above-referred advertised tender enquiry.	t the lowest or any bid you may receive against
We confirm that we do not stand deregistered/banned/Departments.	blacklisted by Central / State Govt. / Ministries /
We confirm that we fully agree to the terms and co Enquiry Document, including amendment / corrigendum	·
We hereby certify that if at any time, information furnishare liable for any action as deemed fit by the purchase Performance Security.	•
	Business Address
Place:	
Date:	

AIIMS - Jodhpur

Annexure - III Contract Form

TENDER FORM - 1 - TECHNICAL INFORMATION AND UNDERTAKING

(Tenderer may use separate sheet wherever required)

S. No.	Details of the Firm / Bidder	Page No.	Remarks
1.	Name, Address, Mobile Number, E-mail ID of the Tenderer/		
	Concern/Key person, who can be contacted at any time. The		
	person should be capable of taking orders and making		
	arrangement for supply of the desired items.		
2.	Whether the Firm is located in Jodhpur (Rajasthan). (Yes/No)		
3.	State clearly whether it is Sole proprietor or Partnership		
	firm or a company or a Government Department or a Public		
	Sector Organization		
4.	List of quoted items with the Specification of the item		
	mentioned with make and complete specification along with		
	the Technical Bid without indicating price)- Annexure- VI		
5.	List of Major Customer may be given on a separate sheet and		
	proof of satisfactory supply, if any		
6.	Manufacturer Authorization Certificate as per NIT format		
7.	Non Blacklisting Certificate. Has the firm ever been debarred /		
	black-listed by any Govt. Hospital for poor quality or late supply		
	of drugs If yes, give details.		
8.	Certificate for No Deviation as per NIT format		
9.	Non-conviction Certificate as per NIT format, Has the firm been		
	convicted ever, if yes, give details.		
10.	Certificate for Price Justification as per NIT format		
11.	Detail of Income Tax Return for last 3 years i.e.		
	(2018-19, 2019-20, 2020-21)		
12.	GST Registration Number (Enclose copy)		
13.	Tender Acceptance Form as per NIT format		
14.	Have you previously supplied these items to any government /		
	private organization? If yes, attach the relevant proof. (Also		
	provide an affidavit that you have not quoted the price higher		
	than previously supplied any government institute)		
15.	Authenticated proof of turnover of the firm:		
16.	Copy of Permanent Account Number(PAN card)		
17.	Certificate of Average Annual Turnover		
18.	Experience Certificate and related documents		
19.	CE/USFDA/ISO/BSP/USP/WHO/GMP/BIS certificate as		
	mentioned in the specification of tender items		
20.	Import License		
21.	Mandate Form		
22.	Any other information, if necessary		

- Page number/serial number may be given to each and every page of Tender Documents and photocopies of the documents attached. Mention Page number, wherever the copies of the documents are kept.
- In case of non-fulfilment of any of the above information/ document(s), the Tender will be summarily rejected without giving any notice.

(Dated Signature of the Tenderer with stamp of firm)

Dated: Place:

Undertaking

- 1. That I/we have carefully studied all the terms & conditions of NIT and shall abide by it.
- 2. That I/We shall supply the items of requisite quality.
- 3. That I/We undertake that the information given in this tender are true and correct in all respect and I/We hold the responsibility for the same.
- 4. That I/We undertake that sample of items will be kept ready for inspections by the AIIMS, Jodhpur. I/We shall be responsible for the cancellation of tender if samples are not up to mark.

(Dated Signature of the Tenderer with stamp of firm)

Date: Place:

AIIMS - Jodhpur

Annexure - IV

Calculation of Local Content

Name of Calculation by Manufacturer

Manufacture

(Cost per unit of product)

Cost Component Cost (Domestic Cost (Imported Total Cost (INR/ US Percentage of Local

Component) \$) Content

A B C=a+b D=(a/c)*100

I.

II.

III. Total Cost

(Excluding tax and duties)

Note:-

- I. Cost (Domestic Component): Sum of the costs of all inputs which go into the product (including duties and taxes levied on procurement of inputs except those for which credit/ set-off can be taken) which have not been imported directly or through a domestic trader or an intermediary.
- II. Cost (Imported Component): Sum of the costs of all inputs which go into the product (including duties and taxes levied on procurement of inputs except those for which credit/ set-off can be taken).

<u>Annexure - V</u>

Format for Affidavit of Self Certification regarding Local Content (To be provided on Rs. 100/- Stamp Paper)

	S/o.D/o,W/o, do hereby solemnly affirm and declare as under.
That I will agree to abide to order no. P-45021/2/2017-	by the terms and conditions of the policy of Government of India issued vide B.EII dated 15/06/2017.
undertake to produce relev	nished hereinafter is correct to best of my knowledge and belief and I vant records before the procuring entity or any authority so nominated by the e purpose of assessing the local content.
	all inputs which constitute the said drugs has been verified by me and I amness of the claims made therein.
incorrect and not meeting	domestic valve addition of the product mentioned herein is found to be the prescribed valve-addition norms, based on Government of India for the local content, action will be taken against me as per Order No. P-15.06.2017.
<u>-</u>	lowing information in the Company's record for a period of 8 years and shall fication to any statutory authorities:
location, nature of legal entii) Date on which thi iii) Medicine for which iv) Procuring entity to v) Percentage of loc vi) Name and contact vii) Sale Price of the process	ch the certificate is product. o whom the certificate is furnished. al content claimed. ot details of the unit of the manufacturer. oroduct. of the product. e and handling. rial. st valve of inputs used for manufacture of the medicine certificates from
	For and on behalf of (Name of firm/ entity)
	Authorized signatory (To be duly authorized by the Board of Director)

ANNEXURE - VI

LIST OF QUOTED ITEMS

S. No.	Item sl. No.:	Item Name	Preparation/ Make/ Model/ Company	Page No./Remarks

Date:

Place:

Annexure - VII

FINANCIAL BID

BOQ may be uploaded as per instructions given in **Tender Enquiry Document.**

S. No.	Item Name	Specification	Name of Quoted Company	Price / Unit (Excl. GST)	Applic able GST %	GST Amount Rs.	Price / Unit (Incl. GST)	MRP

Note:- Price should be quoted as per S. No. inclusive of all item/components in that S. No..

L1 will be decided on the basis of whole price quoted for that particular Serial No. irrespective of their components.

Schedule of price bid in the form of BOQ_XXXX.xls:

The below mentioned (Section X) price bid format is provided as BoQ_XXXX.xls along with this Tender Enquiry Document at https://eprocure.gov.in/eprocure/app. Bidders are advised to download this BoQ_XXXX.xls as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid. Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tempered / modified in any manner, tender will be completely rejected out rightly.

List of Items Admin/RC/07/2022-AIIMS.JDH RATE CONTRACT FOR SUPPLY OF CONSUMABLES & DISPOSABLES FOR CARDIO THORACIC AND VASCULAR SURGERY (CTVS) AIIMS, JODHPUR (Rai.)

	VASCULAR SURGERY (CTVS) AIIMS, JODHPUR (Raj.)				
S. No.	Item Name	Specification			
1	CORRUGATED TUBE CONNECTOR	Should allow connection between all breathing circuits and the ET tube connector. The corrugated tube should be expandable. Should Allow movement of breathing circuit at patient end. Should be made of medical grade PVC. Should be compatible with ETT and tracheostomy tube.			
2	CUFF INFLATOR AND PRESSURE GAUGE	 •It is used to inflate & Description •It is used to inflate of ET •It is used to inflate & Description •It is used to inflat			
3	INTUBATION PILLOW	 Reusable Intubation pillow for Head elevated laryngoscopy position (HELP) for airway management of Obese & Description (HELP) for airway management of Obese & De			
4	NEGATIVE INSIPRATORY FORCE METER	•Should be disposable, compact, Light Weight & Damp; single patient use Negative Inspiratory Force Meter to check the Negative Inspiratory Force of the Ventilated patients with the facility of memory indicator pointer to record & Damp; rset highest force achieved by the patient individually packed ready for use. •Should be CE marked.			
5	CAPNOGRAPHY CO2 SAMPLING MASK	 Should have the provision for breath to breath monitoring for both nose & Damp; Should have the facility to deliver oxygen & Damp; allow sampling of exhaled carbondioxide from mouth & Damp; nose at the same time. Should have attached micro filter at the CO2 sampling port end to protect the CO2 monitor Should be able to connect the Luer lock connector to any side stream CO2 monitor. 			

		Made up of clear medical grade soft PVC.
6	COLORIMETRIC DISPOSABLE CO2 DETECTOR	 For patients from 250gm to 15+kg. Body weight. Should have the facility of activation by pull tab Technique. Should be able to work for 24 hours once activated by pulling tab. Should be able to indicate- Blue green & amp; yellow colour. Should have larger CO2 viewing window. Should have 15mm I.D. Standard Taper at Patient End & amp; 15mm O.D. Standard Taper at Circuit End. Should be CE marked Sizes Infant, Paediatric & Adult
7	SINGLE LUMEN CATHETER (SELDINGER TECHNIQUE)	 Should be polyurethane Single Lumen catheter with J Guide-wire non kinking kit should be radio opaque with fixation wing & Damp; integral extension tube with flexible & Damp; transparent extension tube (PUR) Size – Catheter 12-22G, Lengths- 10cm-20cm
8	LA LINE CENTRAL CATHETER(ALL SIZES)	Should be long I.V Catheter with external needle and fixed proximal hub catheter in fully radiopaque polyurethane protected by a non touch-handling sleeve marking every cm 10 to 20cm. Should be made available in assorted sizes.
9	SWAN GANZ PA CATHETER INTRODUCER KIT SET:	 Percutaneous Sheath introducer set should have bonded hemostasis valve & port along with .035 x 45 cm straight & port along with .035 x 45 cm straight & port along with .035 x 45 cm straight & port along with .035 x 45 cm straight & port along with .035 x 45 cm straight & port along with .035 x 45 cm straight & port along with .035 x 45 cm straight & port along with .035 x 45 cm straight & port along with .035 x 45 cm straight & port along with .035 x 45 cm straight & should have sheath diameter of 8.5 F & port along the length of cm. It should be made of radiopaque polyurethane & port along the length of the lengt

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10	SWAN GANZ THERMODILUTION VIP CATHETER	• Flow directed 5-lumen balloon tipped pulmonary artery catheter. 7.5 Fr in diameter &≈110 cm in length• It should have a coating of Heparin as well as antimicrobial material (Benzalkonium Chloride) on entire catheter surface. • Should be able to give Cardiac output using Thermo dilution method • Should be able to give PA pressure, PAWP & RA Pressure when connected to trasducer. • Should have proximal infusion & proximal injectateports at ≈31 cm &≈30 cmrespectively. • It should come with one volume-limiting syringe of 1.5cc for balloon inflation
11	SWAN GANZ PA CATHETER	 Flow directed 3 lumen balloon tipped pulmonary artery catheter, 7 Fr in diameter & ≈110 cm in length • Should be able to give PA pressure, PAWP & Dressure when connected to transducer. Should have proximal infusion port at 30 cm. Recommended guide wire size 0.89 mm. • It should come with one volume-limiting syringe of 1.5cc for balloon inflation.
12	PRESSURE INFUSION BAG	Should be made up of durable plastic to prevent the rip & Damp; tear of bag Should have clear sleeve around the bag to see the contents of the fluid bag. Should have convenient IV pole loop hanger Should have I.V Bag holder to hang the fluid bag inside. Should have double sealing to prevent the rip or tear of pressure bag Should have stopcock valve. Should have efficient palm fitted bulb for the inflation of bag. Pressure gauge should have 360-degree window to see pressure from all sides. Should have built in bleed valve to check the over inflation of the bag. Sizes- 3000ml. Each bag should have aneroid pressure gauge with inflation capacity of 400 to 700 mmHg.
13	CLOSED CIRCUIT (PEDIATRIC):	a. ISO marked. b. Length-1.75mtr. double tubing with a Y connector with least dead space. c. Y connector adopter 15mm to 20 mm connector. d. Latex free medical plastic material, disposable, non-irritant to tissue, and should not react to anesthetic gases and volatile agents. e. Outer diameter (OD) 10-12mm. f. Bag-1L. capacity, natural latex medical grade rubber, antistatic, soft and should not react with anesthetic gases and agents. g. Expandable type, corrugated, non-kinkable tube.
14	PIECE WITH APL VALVE	Should be good quality, light weight, non conductive disposable T piece with corrugate tubing 1.8m circuit length, low resistance, 500 ml bag with APL valve with 15F/22F connector, safety cap.

15	ANESTHETIC CIRCUIT HOLDER OF ADULT, PEDIATRIC AND NEONATAL CIRCUITS	ANESTHETIC CIRCUIT HOLDER OF ADULT, PEDIATRIC AND NEONATAL CIRCUITS
16	ENDOTRACHEAL TUBES WITH CUFF (DISPOSABLE):	• Pre-sterilized, single use • Siliconized PVC non-toxic to tissues. • Implantation tested marking on the tube. • Thermo-sensitive to adapt to tracheal anatomy. • Non-kinkable. • Bevel with Murphy eye. • Radio-opaque line all along the length of the tube to detect the correct position on X-ray. • Should adopt universal connector of 15mm and should be compatible with all circuits. • Cuff should be bonded, non-herniating. • Size range- 2.5 to 8.0 mm in 0.5mm increments. • Inflation of the cuff balloon via a one-way valve with a pilot balloon and should be on the concave aspect of the tube. • Depth marker at the proximal cuff end, 3 cm from the cuff. • Cuff should be smooth, non-traumatic, low-pressure high volume. • ETT opening should be beveled type, rounded edge, facing to the left end of the tube with an angle of 38 +/- 10 0 • Markings on the tube to know the depth of insertion and fixation at mouth. • Specified mention on the tube- o Nasal/oralo Outside diameter OD in mm.o Inside diameter ID in mm.a. Made of medical grade PVCb. Left and right sided.c. All sizes.d. Bronchial cuff should be of blue color and its pilot balloon should be also of blue colorfor the ease of differentiating between tracheal & Depth should have pre-inserted stellate to help maintain the shape and curveof the tube.
17	DOUBLE LUMEN ENDOTRACHEAL TUBE:	 a. Made of medical grade PVC b. Left and right sided. c. All sizes. d. Bronchial cuff should be of blue color and its pilot balloon should be also of blue color for the ease of differentiating between tracheal & pronchial cuffs. e. Pre-sterilized, ready for use. f. Should have pre-inserted stellate to help maintain the shape and curve of the tube.
18	THERMOPLASTIC SUPRA-GLOTTIC AIRWAY DEVICE	 Should have soft non inflatable anatomical seal, epiglottis blocker; buccal cavity stabilizer, integrated bite block; integrated gastric channel for passage of nasogastric tube Size: 1, 1.5,2,3,4,5
19	PERCUTANEOUS TRACHEOSTOMY SET WITH TRACHEOSTOMY TUBE:	 Should be with tracheostomy tube. Should have multiple dilators of different sizes- 14Fr., 21Fr., 24Fr., 27Fr. Guiding catheter over which the dilator is introduced. The guide wire should have position markings. Should have introducer needle with sheath. Should be supplied with essential accessories.

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20	CORRUGATED TUBE CONNECTOR CATHETER MOUNTS WITH	 Should allow movement of breathing circuit at patient end. Should allow connection between all breathing circuits and the ET tube connector. The corrugated tube should be expandable. Should be made of medical grade PVC. Should be compatible with ETT and tracheostomy tube. Should be flexible & Draw of the ETT and tracheostomy tube.
21	BRONCHOSCOPY PORT:	Should be having bronchoscopy port.Should be 360 degree rotating head.
22	SUCTION TUBE 30M COIL, 7MM ID WITH BUBBLE NON CONDUCTIVE	
23	SUCTION TUBE 30M COIL 5MM ID WITH BUBBLE NON CONDUCTIVE	
24	HME filters for neonatal:	Low dead space, hydrophobic filtration incorporated with heat and moisture exchange filter and with retainable gas sampling port, disposable good quality.
25	ANTI MICROBIAL BREATHING SYSTEM HEATED WIRE	 Should be light weight and flexibleto minimize drag on circuits, 1.5m heated inspiratory tubing, Silver impregnated 0.5m humidifier connection tube, Auto float humidification chamber with dual float Sizes: Adult, pediatric, Neonatal.
26	SUCTION CATHETER THUMB CONTROLLED	• Working length should be at least 50cms (working length without Connector) for 10Fr.& above; should be at least 40 cm. in length below 10 Fr.• Should be color-coded and should have open end with lateral eye with length marked incentimeters with male connector with vacuum control device as ISO specifications.• Should be in straight soft blister packing.• Should have markings on the full length of the tube• Should have markings on the catheter.• Sizes 6,8,10,12,14,16, and 18 Fr.
27	LEUCOCYTE REDUCING BLOOD TRANSFUSION SET:	Blood set should have drip chamber and filter with proven leucocyte reduction properties for leucocyte free blood transfusion for organ transplant use. It should have filter size 40 microns and 180 sq. cm of filter area and should have attached IV set with a luer lock tip.
28	MEASURED VOLUME SET (ISO/CE)	 Should be made up of PVC material Should have soft cylindrical type measure volume chamber with float valve to prevent air embolism The set should have transparent tubing and chamber. Should have capacity of 100ml and 150 ml. Should have drip nozzle with reduced size of drop that has to be uniform at 60 drops/ml. Should have molded bubble latex bulb for extra medication or Y port for injection. Should be sterile ready for use. Should be double packed. Should have short bevel 23 G Vein needle.

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		Should have built in airway for bottle perforating spike (air vent).
29	SURGIAL TAPE NON WOVEN, VISCOSE RAYON POROUS BACKING (MICRO PORE TYPE PAPER TAPE) WITHOUT DISPENSER.	Sizes : • 3 X 9.10 mtrs.
30	SPIRAL (POLYETHYLENE) TUBING	 Should be spirally coiled tubing (polyethylene) for drug infusion (Drug compatible). Size – 100,150,200,300 & amp; 400cm. Should be US FDA APPROVED
31	POLYETHYLENE PRESSURE EXTENSION TUBE	 Should be polyethylene high pressure extension tube (drug compatible) Size – 11, 30,50,100,150& 200cm. ShOuld be US FDA APPROVED.
32	EXTENSION LINE FOR LIGHT SENSITIVE DRUGS	 Extension line for light Sensitive drugs (anti UV). Size – 100,150,200cm. Should be US FDA APPROVED. It should have 200 cm long multichannel tubing to ensure continuous supply.
33	BASIC PARALLEL VENTILATOR CIRCUIT:	FDA & CE marked should incorporate with in-line nebulization T Valve with Automatic closer preventing pressure drop. Must be clear construction.
34	FLEXIBLE TUBING – SILICONE:	 Highly flexible medical grade silicone tubing, autoclavable, can be sterilized by EO. Sizes: 6mm & amp; 8mm; Length of tube roll should be 60.0mtr.
35	DISPOSABLE SHOE COVER:	 Should be of good quality (thick) Made from non-toxic non-woven, thick fabric. Well stitched in universal regular size. Skid resistant & proof. Hard elasticated for better grip and easy to wear. Should cover the ankles. Size: Assorted- (Std. size of shoe from 7 to 12) & plue color.

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36	DISPOSABLE FOLEY'S CATHETER (2 WAY) – ADULT &PAED	 Disposable 2 way latex Foley catheter Should bemanufactured from natural rubber latex coated with silicone so as to eliminate the risk of encrustation. Should have symmetrical large capacity balloon to ensure a straight tip andproper flow for good sphincter action to preventbladder leakage. Should have coned distal end with burr free eyes for atraumaticinsertion. Should have hard valve to ensure easy inflation and deflation of balloon. Balloon capacity- 3-5 ml for pediatric and 30 to 50 ml for adult catheter. Length- 20-30 cm. Should have colour coded for instant size identification. Should be sterile and should be individually packed in peel-able pack. Sizes-22 only ISO 9002 CE marking, should confirm to ASTM- F623-99 Guideline specification for Foley's catheter.
37	50ml SYRINGE(with luer lock)	a) Should be made of clear PVC.b) Should have rubber seal in the pistonc) Should have a luer lock
38	ABSORBABLE DISPOSABLE PILLOW COVER FOR STANDARD SIZE 75X55CM	
39	DISPOSABLE CHAMBER FOR BAL COLLECTION WITH ADAPTER	Disposable sterile container for Bronchoscopy application.
40	Bite block size 4:	Bite block size 4 for oral fixation of ETT size 6.5-8.0mm, Laryngeal Tube size 2 & Dock for protection against occlusion.
41	Bite block size 5	Bite block size 5 for oral fixation of ETT size > 8.5mm, Laryngeal tube Size 2 & Damp; 2.5 LMA 2 & Damp; 2.5 tube should clip into the bite block for protection against occlusion.
42	Bite block Size 6	Bite block size 6 for oral fixation of laryngeal Tube size 3,4,&5 and LMAs, Tube should clip into the bite block for protection against occlusion.
43	MEDICAL GRADE SODA LIME CO2 ABSORBENT GRANULES	Medical grade best quality soda lime granules. Hardness, moisture and absorption should be international agency certified. Should be good quality for closed circuit. There should be high contrast pink to white color change after absorbent capacity is exhausted. Pack size should be 5 liter/container.
44	Disposable DVT Sleeve (Calf & Thigh)	
45	Disposable DVT Sleeve (calf)	

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46	SPECIFICATION FOR BIS SENSORS	 It should have four sensors element to capture, recognize and discard artifact. Connector should provide secure click-in connection with push button release It should include an additional above eye element, which captures critical eye motion data, along with other important physiological signals. It should have flexible design adjusts to different head sizes It should have FDA approval Should be supplied by authorized channel partner from principal company/manufacture. Electrode Gel: Potassium Chloride (KCI), latex free. Sizes ADULT and PEDIATRIC
47	NIRS SENSORS.	ADULT AND PEDIATRIC
48	DISPOSABLE PULSE OXIMETER SENSORS (SP02)	 Should be compliant with the equipment intended to continuously estimate and display non-invasively a patient's arterial blood oxygen saturation and pulse rate Proposed sensors must comply with NellcorTechnology. Digit sensors should be available in Adult, Pediatric, Neonatal and Infant sizes to accommodate diverse patient sizes, weights and needs. Seller must have all types of sensors available (e.g., finger, forehead, and ear). Sensor must be available in Adult, Pediatric, Infant and Neonatal Sizes. Sensor extension cables must be available in 4' and 9' lengths. The sensors must be compatible with all generations of NellcorOximetry Technology in NellcorOximeters and OEM/Licensee Multi-para meter systems with all generation of Nellcor technology. The sensor shall resist inadvertent displacement. The sensors shall resist interference from ambient light. The sensors shall not be adversely affected by fluid spills or common disinfectantsolutions.
49	INFANT FEEDING TUBE:	 Size: 3,4,10 Fr., color-coded. Silken smooth tube, medical grade siliconized PVC. X-ray opaque line. Fitted with female luer mount with built-in stopper/ lid. Packed in peel-off pouch, not coiled packing. Sterilized ready to use. Length of tube minimum- 50 +/- 5 cm. Smooth rounded tapered distal end with two lateral eyes.
50	URINE COLLECTION BAG WITH TRANSPARENT VOLUME CHAMBER:	 Sterile ready for use. Bag should be manufactured from clinical grade transparent PVC. Capacity- 2000ml.marked in increments of 50 ml. Fitted with non-return valve to avoid spillage. One-meter long super smooth, highly flexible non-kinkable tube which should provide approx. 6.5 mm diameter with universal male connector. Leak proof, single piece/ wielded manufacture. Provided with hanging device to be fitted on to the bed.

		Stopper drain should be attached with the bag.
51	Clinical thermometer:	Good quality.Digital
	cimear thermometer.	For oral temperature measurement.
		BSA (Bovine Serum Albumin) & glutaraldehyde in the ratio of 4:1
		surgical glue• Thrombin Free• Biodegradable and Biocompatible1•
		Simple, ergonomic design allows for unmatched preparation and ease of use. • No reconstitution or manual mixing • NO NEED OF Room
52	Surgical Adhesive GLUE	temperature storage - No warming/thawing • Open and use - Ready
		in just seconds • SHOULD BE Sets up in 20-30 seconds and reaches
		full strength in just two minutes • SHOULD BE Seals anastomoses,
		reinforces friable tissue, and adheres dissected tissues togetherused
		for sealing, adhering and reinforcing tissue
		Should have Sharp, dual cutting edge for clean, precise removal of aortic tissue
		should have a conical tip for easy insertion by straight or button-
		hole technique
53	AORTIC PUNCH	Punch should be available with tapered cutting blade to increase
		visibility.
		Should be available in all functional sizes
		Should have long and short handle configuration
		Should be designed to improve exposure to a coronary
54	Coronary artery retraction clips Sizes 3mm and 5mm	anastomosis site. Should be able to small prongs and gently hold
	Sizes 3mm and 5mm	tissues away from the vessel to improve vision.
		Should include unipolar atrial and ventricular pacing, pediatric
55	Temporary pigtail pacing wire	unipolar pacing, and the bipolar pacing lead.
	remporary pigtan pacing wire	
		Should be a low profile tissue stabilizer with auto spread feature of
56	Tissue Stabilizer for beating heart	pods.
		Should be a low profile positioner for apex and off apex position
57	Heart positioner for beating heart	use/ to lift the
	_	heart.
	Tissue Stabilizer for Minimally	Should be stabilizer to be used via thoracotomy with detachable
58	invasive beating heart surgery.	shaft and should have fully rotating pods.
59	Heart positioner for Minimally	Should be a positioner with detachable shaft for MICS via
	invasive beating heart surgery	thoracotomy.
		Should have specialized nozzle utilizing a micro orifice for fluid The special property of the special speci
60	Mist Blower	delivery and a separate orifice for gas delivery. Should have the malleable shaft and on/off
		control on the hand piece.
		control on the hand piece.

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61	Arteriotomyshunts(Intra Coronary Shunts)	 Sizes 1.0,1.25,1.5,1.75,2.0,2,5,2.5, 2.75 & amp; 3.0mm. Should be beveled tip. Should have fully transparent body.
62	ACT Cartridges	 a. Should have double cell measurement to increase accuracy of results, b. Should use liquid kaolin activator for real time efficient clot detection, c. Should allow room temperature storage
63	SPECIFICATION FOR INTRA AORTIC BALLOON CATHETER	 IAB Catheter should be of 7.5 Fr with displacement volume of 24cc, 34cc & Dec. It should be more abrasion resistant and have good fatigue resistance Should immediate inflate at start up without manual filling of the catheter. It should be compatible with Data scope /Arrow pumps It should have exact 7.5Fr size sheath and dilator set. It should have 0.025 3mm J PTFE stainless steel guide wire. It should be approved by US FDA.
64	EMERGENCY CRICOTHYROIDOTOMY SET :	 Should have a conical introducer, Dilators should be made of stainless steel, Cricothyroidotomy tubes should be of medical grade plastic. With 15 mm connector, flexible tube extension made of silicone, scalpel, one way syringe, comfort neck band Sizes 2mm, 4mm.
65	MICRO AGGREGATE BLOOD FILTER FOR RED CELL TRANSFUSION	 Filter media should be 40 micron rated polyester screen media with uniform pore size Should have total filter surface area of > 170 Sq.cm Should have average capacity of filtering 10 units of blood.
66	PACKED RED CELL & WHOLE BLOOD LEUCOCYTE REDUCTION FILTERS.	a. Bedside filtration of one & Done &
67	SPECIFICATION FOR FORCED WARMING BLANKET	• Should be disposable and two layered; • Should consist of non woven propylene fabric for body warming.• Should be usable with forced air warming units.• Material should be latex free and should meet flammability standard 16 CPR 1610 for safety.• The manufacturer must have all the below listed types of blankets and should quote the prices separately for separate blankets• Full Body Adult• Underbody Adult with Arm and Head Openings• Pediatric Full body• Pediatric underbody Blanket.• Should be compatible with common machines.• Should be CE certified

68	LV Vent:	Left ventricular vent should consist of round tipped dual lumen tube with lateral eyes, suture collars & proximal funnel connectors used for emptying the Left Ventricle for clearer view during surgery. All sizes.
69	AntegradeOstialCardioplegia Cannula - All Size:	Antegrade-cardioplegia cannula should be made of soft 100% silicone conduit with distal bulbous end & Damp; should have luer lock connector at the proximal end for administration of cardioplegia solution into the coronary ostia. Sizes: 3.5, 4, 4.5, 5, 5.5, 6 mm.
70	Cardioplegia Cannula Size Infant:	• Cardioplegia cannula should be made of soft 100% silicone & silicone & should be tapered conduit with distal open tip having adjacent lateral eyes, followed by a flange for secure positioning. It should have proximal luer lock & samp; a SS needle with hub. Size: Infant.
71	Arterial cannula for arch cannulation Sizes 20FR -24 Fr.	Should have elongated one piece wire wound body with radiopaque suture ring and dilator with depth markings.
72	Axillary artery one piece cannula with central arterial pressure measurement	Sizes 18 Fr24Fr.Should have elongated one piece wire wound body with radiopaque suture ring and dilator with depth markings. Should have integrated pressure monitoring port at tip
73	One piece Pediatric Aortic cannula Size 6FR-16 Fr Vented	Should be beveled with thin wall tips and should be elongated one piece.
74	Straight Tip Arch cannula Sizes 8Fr-24 Fr vented and Non vented; Pediatric and Adult	Should be beveled thin wall tips attached to tapered cannula bodies. Should be available in pediatric and adult sizes.
75	Angled tip Arterial cannula Sized 8 Fr - 24 Fr	Should be beveled thin wall tips attached to tapered cannula bodies. Should have kink resistant wire wound bodies.
76	Arterial cannula angled with diffused flow tip Sizes 18 Fr-24Fr	Should be one piece wire wound body with integrated flutes for diffused flow.
77	Femoral one piece Arterial and venous cannula kit	 Sizes 8-21 Fr. arterial and 8-29 Fr. Venous cannula Should be one piece wire wound body.
78	Femoral Multistage venous cannula	 Sizes: 29/29/29 Fr and 29/46/37 Fr Should be one piece wire wound multiple side holes body with percutaneous kit.
79	Standard insertion kit for femoral cannulation	a. Kit for femoral cannulation should contain 12-14 Fr, Scalpel # 11 blade, Introduce needle 18 ga, vessel dilator 8-10 Fr, vessel dilator Guidewire .038 in X 180 cm, catheter tip , Syringe
80	Carpentier Bi-caval femoral venous cannula	 Sizes: 24/29 Fr, 30/33Fr Should have wire wound kink resistant two stage design.
81	Single stage venous cannula with Metal tip Sizes 12-31 Fr	Should have kink resistant wire wound taper body with beveled metal tip.
82	Single stage Venous cannula with right angle Sizes 12-40 Fr	Should have kink resistant wire wound taper body with tapered multiport tips. be right angled with plastic tip.
83	Single stage straight venous cannula malleable Sizes 12-40 Fr	Should have kink resistant malleable wire wound taper body with tapered multiport tips

84	Double-stage venous cannula round and oval shape Sizes 28/36,36/46,32/46, 36/51, 32/40, 36/46 Fr.	Should be two-stage cannula with oval body in various sizes. Should be two-stage cannula with round body in various sizes. Should have cannula body with thin walled with depth markings.
85	Three stage venous cannula Sizes 29/29/29 Fr 29/46/37 Fr	Should be three stage venous cannula for VacuumAssisted Venous Drainage(VAVD)/Kinetic Assisted Venous Drainage(KAVD)
86	Multiple Stage Venous cannula Sizes 23 Fr and 29 Fr	Should have polyurethane wire wound body with radiopaque markers and multiple holes at distal end.
87	Aortic root cannula Sizes 4 Fr-11 Fr	Should have radiopaque tips attached to clear PVC bodies. Additional features: aortic root pressure monitoring and left heart venting. Can be used to aspirate air emboli as well administer cardioplegia.
88	Aortic root cannula with Vent line Sizes 5 Fr-11 Fr	Should have radiopaque tips attached to clear bodies with separate vent line.
89	Aortic root cannula pediatric Neonatal Sizes 4 Fr	• Should be able to aspirate air from Aorta, Should have radiopaque tip and standard 50.5 in length or a shortened 2.5 in.
90	Cardiopleiga needles: Neonatal, Pediatric and Adult Sizes. 5Fr and 8 Fr	Should have stainless steel tip with plastic depth stop, Needle should be attached to Flexible PVC tubing which should include a drape clamp and female luer.
91	Silicon Ostial cannula for continuous perfusion Sizes 15 Fr,17Fr and 20 Fr	Should have a silicon body with soft bulb shaped tips, should have a female luer connection site.
92	Ostial perfusion cannula with basket tip and soft convex tip Sizes 10 Fr, 12 Fr and 14 Fr.	Should have flanged, radiopaque basket tips/soft tips attached to malleable stainless steel shafts.
93	Minimally invasive Aortic root cannula with length more than 30 cm	Should have more than 30 cm long body to allow insertion during MICS
94	Minimally invasive retrograde cardioplegia cannula with deflecting tip Sizes 13 and 15 Fr	Should have tip deflecting models for sinus placement through thoracotomy should be able to allow minimum 10mm sweep. Should be auto/ manual inflatable.
95	Retrograde cardioplegia cannula with Auto inflate Sizes 13 Fr and 15 Fr	Should have silicon/ PVC bodies with auto inflatable cuff and pressure monitoring lines; should have multiport tip/ integral stopcock.
96	Multiple perfusion set	Should have silicon/ PVC bodies with auto inflatable cuff and pressure monitoring lines; should have multiport tip/ integral stopcock.
97	Distal perfusion kit	Should be able to perform simultaneous perfusion of Aortic root and upto 3 or more vein grafts.
98	Left Heart Vent Catheters Sizes 10 Fr,13Fr,15Fr,16Fr,18Fr,20Fr,24Fr	Should be of PVC or silicon, could be used for direct and indirect venting, should have perforated tip, malleable bodies with depth mark. Should have a choice of either PVC or Silicone along with straight body with depth marking. All ventsshould terminate with a vented or non vented ¼ in connector.

99	Pericardial Sumps Sizes 20 Fr	Should feature a fluted tip, should be encased in a stainless steel spring and should have weight at the end.
100	Intra-cardiac sump Size 20 Fr	Should feature a perforated pool tip to maximize suction and minimize tissue trauma. The tip design should be ideal for atraumatic suction within the heart chambers.
101	Suction Tube Sizes 6 Fr,10Fr and 20 Fr	Should have variety of cardiac suction tubes, intracardiac suction tubes & tubes & amp; rigid suction tubes.
102	Micro Suction tubes Sizes 9 Fr	• Should have a vacuum control port, malleable shaft, should equipped with a length of tubing and clamp terminating with a ¼ in (0.64cm) connector.
103	Macro Rigid suction tubes Sizes 20 Fr	• Should have tip made up of stainless steel, should have fluted pool tip to maximize suction and minimize tissue trauma, should offer gentle suction.
104	PA vent cannula	Should have a soft, pliable tip with female luer end; should have movable depth marker and an introducer needle should be included.
105	Tourniquet Sets Sizes 12 Fr, 16 Fr and 19 Fr.	Should have color coded tubes with varying lengths for adults and pediatric, should have wire snares included with the tube set.
106	Vessel cannula with and without valve sizes 2mm,3mm, 4mm	Should have clear and radiopaque bodies. These should terminate with a female luer. Should have tips in various sizes and shapes.
107	ArteriotomyCannula Sizes 2mm,3mm,4mm,5mm,6mm	Should have polyurethane tube with a bulb shaped tip connected to winged female luer.
108	Rapid priming set Length 35cm and 40cm	These should facilitate the transfer of fluid during the priming of the circuit. Should have large bore spikes attached to flexible tubing with a clamp. Should terminate with either an open end tube or a male luer.
109	Rapid Priming"Y" Set Length around 1 m	These should facilitate the transfer of fluid during the priming of the circuit. Shouldhave large bore spikes attached to flexible tubing with a clamp. Should attach to a "Y"adapter with a length of tubing and another clamp.

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110	SPECIFICATION FOR ADULT OXYGENATOR	 Priming volume should be less than 300 ml. Blood flow range should be 0-7lts/min. Oxygen transfer should be atleast 400ml/min. Heat exchange efficiency should not be less than 0.50. Housing material should be of polycarbonate. Surface area of the fibers should be from 1.8m 2 to 2.4m 2 Heat exchanger should be made of stainless steel and surface area should be approx. 20cm 2 Blood inlet port (from pump) 3/8 Blood outlet port 3/8 Cardioplegia port ¼ GasInlet port 1/4 Gas Outlet port 1/4 Water Ports ½ Maximum Pressure Blood inlet 1000 mmHg water Inlet 42 PSI Blood storage capacity of hard shell reservoir should be approx. 4000ml Minimum operating volume of reservoir should be 200ml. Hard shell reservoir should have cardiotomy filter and de-foaming part Hard-shell reservoir should have venous filter with pore size 452mm The hard-shell reservoir should have Venous blood inlet port ½ Blood outlet port (to pump) ¾ Suction ports (six) ¼ Water Inlet 42 PSI Vertical port to CR Filter ¼ Quick Prime port ¼ Auxiliary port ¼-¾ Sustainable negative pressure should be 15010mmHg
111	SPEICIFICATION FOR PEDIATRIC OXYGENATOR	 Priming volume should beless than 150ml. Blood flow range should be 0.40.01ltrs/min. Oxygen transfer should not be less than 250ml/min. Pressure drop should be least-up to 100mmHg or less. Heat exchange efficiency should not be less than 0.65. Housing material should be of polycarbonate. Surface area of the fibers should be approx 1.0m 2. Heat exchanger should be made of stainless steel and surface area should be approx 1300cm 2. Blood inlet port 3/8 Blood outlet Port 3/8 Cardioplegia port 1/4 Gas Inlet Port 1/4 Gas Outlet port 1/4 Water Port ½ Maximum Pressure Blood inlet 1000mmHg, Water Inlet 42 PSI Blood Storage capacity of hard shell reservoir should be max 3000ml. Minimum operative volume of hard shell reservoir should be 100ml. Hard-shell reservoir should have cardiotomy filter and defoaming part. Hard-shell reservoir should have venous filter with pore size should be 20mm The hard-shell reservoir should have Venous blood inlet port 3/8 rotatable Blood outlet port (to pump) 3/8 Suction port(six) ¼ Vertical port to CR filter 3/8 Quick prime port ¼ Auxiliary port 3/8 Water Inlet 42 PSI

112	SPECIFICATION FOR NEONATAL OXYGENATOR	 Blood flow range should be 0.1 – 2 liters/min. Priming Volumes should be around 40 ml. Oxygen transfer should be minimum 100 ml/min. Pressure drop should be least up to 100mmHg or less. Heat exchange efficiency should not be less than 0.65. Housing material should be of polycarbonate. Surface area of the fibers should be ≈0.5m 2 and material should be micro porous polypropylene. Heat exchanger should be made of stainless steel and surface area should be approx 0.035m 2. Blood inlet port (from pump) ¼ Blood outlet port ¼ Luer port (for recirculation or blood cardioplegia) one luer lock on blood outlet Gas inlet port ¾ Gas outlet port 5/16 Water ports ½ Maximum pressure Blood inlet 1000mmHg Blood storage capacity of hard shell reservoir should be 1000ml Minimum operating volume of hard-shell reservoir should be 15ml Hard-shell reservoir should have cardiotomy filter and defoamer The hard-shell should have Venous blood inlet port ¼ Blood output port (to pump) ¼ Suction port (five) 3/16 Quick prime port ¼ Vent port ¼ Auxiliary port ¼-3/8 Maximum sustainable negative pressure in reservoir -150mmHg Water inlet 2Kgf/cm 2
113	SPECIFICATIONS FOR PEDIATRIC ARTERIAL FILTER WITH BYPASS LOOP	The Arterial Filter should be for pediatric use. Priming volume should not be more than 90ml Filter pore size should be 30- 40 micron. The outlet and inlet blood posts should be 3/8 or ¼". The filter should allow maximum blood flow rate of 5.0L/min. The filter should be provided with a bypass loop at the inlet and outletport.
114	SPECIFICATIONS FOR CARDIOPLEGIA HEAT EXCHANGER(BCD)	It should have priming volume less than 50 ml. Blood flow rate should be between 0-600 ml/min Filter screen should be around 100 um. Inlet connection should be ¼and outlet connection should be 3/16. Heat exchange surface area should be ≈.20m 2 . Heat exchange should be of stainless steel corrugated/ convoluted pipes. Bubble trap should be integrated for highly efficient de-bubbling Integrated by pass manifold for easy de-bubbling Exchangeable water in /water out Blood flow path bottom up It should have a Stopcock Prime/ Perfusion for easy priming. It should have tip in the surgeon pack so that it can be connected to cardioplegia cannula. It should be available both in 4:1 and 1:4 configurations.

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115	SPECIFICATION FOR PEDAITRIC HEMOCONCENTRATOR	It should have priming volume approx 35ml. • Effective surface area of the Fibers should be approx 0.5m 2. • Blood port should be ¼with Luer locks. • Filtrate port should be ½. • Maximum Trans-membrane Pressure should be 500mm Hg. • It should have tubing lines along with reservoir Bag.
116	SPECIFICATION FOR ADULT HEMOCONCENTRATOR	 The priming volume should be 70 ml Effective surface area of the fibers should be ≈1m 2. Blood port should be ¼ With Luer locks Filtrate port should be ½ (1/4adapter). Blood flow range should be 100-500ml. Maximum Trans-membrane pressure should not be more than 500mm Hg. It should have tubing with reservoir bag.
117	SPECIFICATION FOR NEONATAL HEMOCONCENTRATOR	It should have priming volume less than 20 ml. • Membrane surface area should be ≈0.2m 2 . • Max Membrane pressure should not be more than 600mm Hg. • Capillary wall thickness should be ≈50um. • It should have inlet/outlet lines, male luer lock connections, filter safety cap, filtrate line and additional filtrate bag (200ml).
118	SPECIFICATION FOR CUSTOM TUBING PACK	 Custom Tubing Pack Adult. Custom Tubing Pack with arterial filter with PVC tubing medical grade -6 as per AlIMS C.N.Centre design. Filter/Tubing should be CE/USFDA Approved. Custom Tubing Pack pediatric with PVC tubing medical grade – 6Filter/Tubing should be CE/US FDA Approved Custom Tubing Pack with neonatal arterial filter with PVC tubing medical grade- 6Filter/Tubing should be CE/USFDA Approved Custom tubing packs with 3/16arterial and ¼ venous lines for small neonates. Made from medical grade-6 PVC. Filter/Tubing should be CE/USFDA approved
119	EXTRA CORPOREAL MEMBRANE OXYGENATOR (NEONATAL)	 ECMO should have a validation for 14 days and should be phthalate free (NO DOP). Membrane used should be of polymethylpentene fibers. Priming volume should be 100 ml. Should have contact surface area ≈0.70 square meters. Should cater for blood flow from 0.2 to 1.5 L/min. Heat exchanger surface area should be ≈0.4 square meter. Heat Exchanger performance factor should be of 0.77 (1.5 liter /min). Oxygenator and tubing should have coating of Phosphorylcholine. Inlet and outlet connector preferred is 1/4 (6.35 mm).
120	EXTRA CORPOREAL MEMBRANE OXYGENATOR (PAEDIATRIC)	ECMO should have a validation for 14 days and should be phthalate free (NO DOP). • Membrane used should be of polymethylpentene fibers. • Should have priming volume 200 ml. • Should have contact surface area of around1.4 square meters. • Should cater for blood flow from 0.3 to 4 liter /min. • Heat exchanger should have surface area of ≈0.8 square meter. • Heat exchanger performance factor should be of ≈0.6 (@ 4 liter /min).

		 Oxygenator and tubing should have coating of Phosphorylcholine(PC). Inlet and outlet connections preferred is 3/8(9.53 mm)
121	EXTRA CORPOREAL MEMBRANE OXYGENATOR (ADULT)	ECMO should have a validation for 14 days and should be phthalate free (NO DOP). • Membrane used should be of polymethylpentene fibers. • Should have priming volume of≈250ml. • Should have contact surface area of 1.7-1.9 square meters. • Should cater for blood flow from 0.4 to 7 liters/ min. • Heat exchanger should have surface area of ≈0.8square meter. • Heat exchanger performance factor should be ≈0.6 (@ 4 liters /min). • Oxygenator and tubing should have coating of Phosphorylcholine.(PC) • Inlet and outlet connections preferred is 3/8 (9.53 mm)
122	SPECIFICATION FOR ADULTOXYGENATOR (Integrated with arterial filter & Description of the second of th	Oxygenator should have integrated arterial filter with cardiotomy/ venous reservoir. Should have integrated arterial filter with self venting technology. Heat exchanger surface area should be no more than 0.2m 2. Venous filter should be 50micro meter. Priming volume should not be more than 300ml. Blood flow range should be 0.5 to 7 LPM. Heat exchange efficiency should not be less than 0.50 at max flow. pressure drop should be minimum, up to 110 mmHg or less. Arterial filter should be 35micron meter. Membrane surface area should be 2-2.5 m 2.
123	SPECIFIAITON FOR SMALL ADULT OXYGENATOR (Integrated Filter and Heat Exchanger)	Oxygenator should have integrated arterial filter with cardiotomy/venous reservoir. • Should have integrated arterial filter with self venting technology. • Heat exchanger surface area should be no more than 0.14m 2. • Venous filter should be 50micro meter. • Priming volume should not be more than 150ml • Blood flow range should be 0.5 to 5 LPM. • Heat exchange efficiency should not be less than 0.5 max flow @ 5 LPM • Pressure drop should be minimum up to 110 mmHg or less. • Arterial filter should be35micro meter.
124	SPECIFICATION FOR PAEDIATRIC INFANT OXYGENATOR(Integrated Filter and Heat Exchanger)	 Oxygenator should have integrated arterial filter with cardiotomy/venous reservoir. Should have integrated arterial filter with self venting technology. Heat exchanger surface area should be no more than 0.035m 2. Venous filter should be50micro meter. Priming volume should not be more than 45ml. Blood flow range should be 0-1.5Ltrs/min. Heat exchange efficiency should not be less than 0.6 at max flow. Pressure drop should be minimum up to 100mmHg or less @ 1.5 LPM

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		Arterial filter should be35micro meter.
		Non-wire reinforced beveled tip Size 18Fr, 20Fr, 22Fr and 24 Fr.
125	Arterial Perfusion CannulaeAdult.	Overall length should be approx.15cm with suture bump.
126	Arterial Perfusion Cannulae	Sizes: 8Fr, 10Fr, 12Fr,14Fr and 16Fr. Non wire reinforced bevel tip.
120	Pediatric	Overall length 18cm with suture bump.
127	Venous Cannulae Single Stage.	Thin Flexible wire reinforced straight open light house tip. Overall length approx.28cm with ¼ acceptance size 12Fr, 14Fr and 16Fr
	(neonate)	length approx.20th with 4 acceptance size 12FF, 14FF and 10FF
405	Venous Cannulae Single	Thin Flexible wire reinforced straight open light house tip. Overall
128	Stage(pediatric)	length approx.
	Venous Cannulae Single	35cm with ¼and 3/8 acceptance Size 18Fr, 20Fr, 22Fr and 24Fr. Thin flexible wire reinforced straight open lighthouse tip. Overall
129	Stage(small adult)	length 35cm with 3/8 acceptance Size 26Fr and 28Fr.
		Thin Flexible wire reinforced straight open lighthouse tip. Overall
130	Venous Cannulae Single	length should be
	Stage(adult)	approx.40cm with 3/8 acceptance Size 30Fr, 32Fr, 34Fr, 36Fr, 38Fr and 40Fr.
		Wire reinforced 90 0 angled plastic tip 10Fr, overalllength
131	Venous Cannulae Right Angled	approx.28cm and ¼
		acceptance.
132	Venous Cannulae Right Angled	Wire reinforced 90 0 angled plastic tip 12Fr, 14Fr and 16Fr. Overall
132	venous caminalae Night Angleu	length should be approx. 33cm with ¼& 3/8 acceptance
133	Venous Cannulae Right Angled	Wire reinforced 90 0 angled plastic tip 18Fr and 20Fr. Overall length
	venous cumuluc mgne / mgneu	should be approx. 35cm with 3/8 acceptance
134	Venous CannulaeRight Angled	Wire reinforced 90 0 angled plastic tip 22Fr, 24Fr and 28Fr. Overall length should be approx.38cm with 3/8 acceptance.
		Self-inflating smooth balloon with preshapedstylet and handle 14Fr.
135	Retrograde Cannula catheter	Overall length should be approx. 27cm & Double length sho
		sized smooth balloon.
425	A cath Deaf at a C	Wire reinforced dispersion tip Sizes: 21Fr and 24Fr overall length
136	Aortic Perfusion Cannulae;	approx.35cm and vent.
		Wire reinforced 32/40Fr and 36/51Fr. Overall length should be
137	Dual Stage Venous Cannulae;	approx. 40cm and
		½acceptance.
138	Femoral Arterial Cannulae;	Wire reinforced overall length should be 19.5.2 cm with ¼ vented
		connector sizes: 8Fr, 10Fr, 12Fr and 14Fr. Wire reinforced overall length should be approx. 24cm with 3/8
139	Femoral Arterial Cannulae;	vented connector sizes: 16Fr, 18Fr and 20Fr.
		Wire reinforced overall length should be approx. 24cm with ¼ non
140	Femoral Venous Cannulae;	vented
		connector.Sizes 8Fr, 10Fr, 12Fr and 14Fr.

141	Venous Femoral Cannulae;	Wire reinforced overall lengthshould be 752 cm with 3/8 non vented connector sizes 18Fr, 20Fr, 22Fr, 24Fr and 28Fr.
142	Antegrade CardioplegiaCannulae	12/14/16 Fr. with vent and without vent.
143	Cardiotomy Venous Reservoir Adult, Paediatric, Neonatal	
144	Disposable connector all sizes; Y, Straight with and without leur lock	
145	Disposable Single Tubing all sizes (½,3/8,¼,3/16)	
146	Wire enforced Arterial Cannula (6 Fr to 20 Fr)	
147	Pruitt(Distal Limb arterial perfusion cannula)	
148	Long, Flexible, wire-enforced cannula for ascending aortic & amp; arch cannulation with obturator	
149	Long Flexible, wire-enforced cannula for ascending aorta & Description with guide wire.	
150	Long Flexible wire enforced cannula for ascending aorta and arch cannula angled With side holes.	
151	Balloon tip antegrade cerebral perfusion cannula.	
152	Complete Bovine Aortic Pericardial Valve	Should be bio engineered, computer optimized to ensure uniform thickness of leaflets and have tissue deflection test to ensure uniform flexibility in all three leaflets Long term clinical data should be available, establishing more than atleast 15 years expected durability in clinical study, long term follow up data on hemodynamic performance establishing consistency in low gradients. Should have standard low- pressure fixation &adequate treatment of tissues to preserve natural leaflet dimensionality & flexibility, while extracting phospholipids. Should have more than 20 yrs. Experience globally. Scalloped sewing ring for Aortic annulus conformity is preferable. • Aortic Sizes 19/21/23/25/27 • Should be FDA APPROVED

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153	COMPLETE BOVINE MITRAL PERICARDIAL VALVE	Bio- engineered: Computer optimized to ensure uniform thickness, with Tissue deflection tests to ensure uniform flexibility in all three leaflets, unique design mounting feature such as flexible stent& optimal tissue stent compatibility for greater reliability. Long term clinical data available, establishing more than & consistency in hemodynamic performance. Low-pressure fixation & chemical treatment of tissue to preserve natural leaflet dimensionality & flexibility, while extracting maximum phospholipids. Should have more than 20 yrs experience globally. Should have convenient deployment and LVOT markers for ease of Implantation at Mitral position. MITRAL SIZE 25/27/29/31/33 Should be FDA APPROVED
154	COMPLETE BOVINE MITRAL SUPRA ANNULAR PERICARDIAL TISSUE VALVE.	 Bio mechanically engineered tissue valve with three leaflets of identical thickness, and identical Flexibility. Should be a True supra annular valvewith a saddle shaped sewing ring with posterior flexibility & anterior rigidity for optimal conformity at Mitral position, Should have LVOTO markers for correct orientation, preventing any LVOT obstruction, with convenient deployment system to prevent suture looping and ease of deployment. Low profile tissue valve with asymmetrical sewing ring should preserve sub valvularapparatus and prevent LV impingement. Should have Tissue treatment to irreversibly extract both calcium binding sites Phospholipids, residual glutraldehyde, should have a flexible stent & optimal tissue stent compatibility for greater reliability. Clinical data to be available establishing long term durability and consistency in hemodynamic performance. Sizes: 25 to 33mm Should be FDA APPROVED
155	COMPLETE BOVINE AORTIC SUPRA ANNULAR PERICARDIAL TISSUE VALVE	Bio-mechanically engineered tissue valve with three Leaflets of identical thickness and identical flexibility. Should be a true supra annular valve. Scallop shaped sewing ring for aortic position. Should be Low profile tissue valve. Should have Tissue treatment to irreversibly extract both calcium binding sites phospholipid, and residual glutraldehyde, should have Flexible and Durable Stent. Short term and long term clinical data should be available, establishing Durability & consistency in hemodynamic performance. Should have a sizer (barrel and replica end) for optimum sizing and placement. Size 19 to 29mm Should be FDA approved
156	COMPLETE BOVINE PERICARDIAL LOW PROFILE AORTIC TISSUE Valve.	• Bio-Mechanically engineered tissue valve with three leaflets of identical thickness, and Identical Flexibility. • Should be a true supra annular valve. • Should have a Scallop shaped sewing ring consistent with Aortic annulus. • Should have tissue treatment to Irreversibly extract both calcium binding sites phospholipid residual glutraldehyde, • Should have a flexible stent & optimal tissue stent compatibility for greater reliability. • Short and long term clinical data should be available, establishing Durability & consistency in hemodynamic performance. • Should have Low profile height for optimizing Coronary Ostial&sino- tubular junction clearance. Should have Three Mid commissure markers for correct orientation of the

		valve. Should have a slick stent post & stent base allowing ease of implantation in small aortic root. SIZES: 19/29mm Should be FDA APPROVED
157	Tricuspid Repair Ring	 Sterile double packed tricuspid rigid ring with an anterior gap with polyester of PTFE cloth with marking for commissures. Should have an oval shape and opening for AV node. Sizes 26mm 28mm 30mm 32mm.
158	Mitral Repair Ring	 Sterile double packed rigid ring complete or with anterior gap with polyester or PTFE cloth with marking for commissures. Kidney shaped for mitral position. Cover sizes 26mm, 28mm, 30mm, 32mm, and 34mm
159	IMR annuloplasty ring:	 Should have a complete rigid ring. To be constructed of a strong, durable alloy. Should have a increased sewing margin in the P2-P3 region, Should be marked with suture and designed to accommodate a double suture row. Should have a Dipped P3 region to accommodate higher stresses from downward LV displacement. Should have a convenient holder/handle to increase ease of use & operative efficiency Sizes 24,26,38,30,32mm Should be FDA APPROVED
160	3-D Tricuspid Annuloplasty Ring:	 Should be a rigid annuloplasty ring with three-dimensional shape and with an incomplete ring shape to avoid the sensitive conduction system. Should have a downward angle in septal region to help reduce the stress on sutures and the risk of ring dehiscence. Sizes 26, 28, 30,32,34mm. Should be FDA approved.
161	ARTIFICIAL MECHANICAL HEART VALVE BILEAFLET MITRAL	 Rotatable design, leaflets made up of pyrolytic carbon / standard durable alloy and polyester sewing cuff. Should have low profile height. Should have minimum vertical leaflet exposure to result in NO LVOT obstruction Should have greater posterior wall clearance Wide range of sizes from 23/24mm – 34/37mm Should have both CE and FDA approval
162	ARTIFICIAL MECHANICAL HEART VALVE BILEAFLET MITRAL (for supra- annular implant)	 Rotatable design, leaflets made up of pyrolytic carbon / standard durable alloy and polyester sewing cuff. Should have low profile height. Should have minimum vertical leaflet exposure to result in NO LVOT obstruction Should have greater posterior wall clearance

		Wide range of sizes from 24 mm – 34 mm
		Should have both CE and FDA approval
		Rotatable design, leaflet made up of pyrolytic carbon and polyester
		sewing cuff, with pivot guard design.
163	ARTIFICAL HEART VALVE	Should have low profile height.
103	BILEAFLET AORTIC	Should have minimum vertical leaflet exposure.
		Wide range of sizes from 19mm-31mm.
		Should have both CE and FDA approval
		Aortic Sizes 16mm,18mm,20mm,22mm,24mm,26mm
		• Mitral sizes 19mm, 21mm,22mm,23mm,24mm, 25mm, 26mm,
		27mm,28mm,29mm,31mm,33mm
1.6.4	BI LEAFLET MECHANICAL HEART	•Should have Open Pivot Bi leaflet mechanical Heart valve with 75-
164	VALVE	90 degrees opening angle, should be in single place, solid carbon
		orifice design with strengthening band. Should have no recess or cavities in the hinge area.
		Valves should be available in all the sizes as mentioned above.
		Should be rotatable and should be FDA approved
		Rotatable design, leaflet made up of pyrolytic carbon and polyester
	A DTIFICAL LIFA DT MALME	sewing cuff, with pivot guard design.
1.00	ARTIFICAL HEART VALVE	Should have low profile height.
165	BILEAFLET	Should have minimum vertical leaflet exposure. Wide range of sizes
	AORTIC for Supra-annular implant	from 16 mm- 28mm
		Should have both CE and FDA approval
	ARTIFICAL HEART VALVE	Rotatable design, leaflet made up of pyrolytic carbon and polyester
166	BILEAFLETAORTIC (for Supra-	sewing cuff, with pivot guard design. Should have low profile
	annular –intra- annular implant)	height. Should have minimum vertical leaflet exposure. Wide range of
		sizes from 17mm- 25mm.Should have both CE and FDA approval
		Should have double velour woven graft.Should be collagen impregnated to control hemostasis and reduce
		the hemorrhagic complications.
		Should have mechanical heart valve with low-pressure gradients.
		With pivot guard design and leaflet opening and >75 degrees.
4.5-	BILEAFLET AORTIC VALVE WITH CONDUIT	Cuff design should enhance implantability.
167		Should have minimum taper conduit to facilitate strong coronary
		anastomosis.
		Should not have any pleats to allow easier positioning and
		attachment of the coronary arteries.
		Wide range of sizes from 19mm- 33mm.
		Should have both CE and FDA approval.
168	PORCINE TISSUE HEART VALVE MITRAL / AORTIC	Should have stented, triple composite design with separate porcine leaflets to entimize leaflets separately and reduce stress.
		leaflets to optimize leaflets cooptation and reduce stress.Should have anti-calcification treatment to reduce calcification.
		Should have anti-calcinication treatment to reduce calcinication. Low profile height.
		In aortic position should be available in sizes 19mm-31mm.
		In mitral position should be available in sizes 25mm to 33mm.
		Should have both CE and FDA approval.
		Chicago nate doin of ana i bri approvan

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169	PERICARDIAL EXTERNALLY MOUNTED TISSUE HEART VALVE(AORTIC)	 Should have stented, pericardial single layered leaflet externally mounted to optimize hemodynamics. Should have tissue to tissue interface adding to durability. Should have anti calcification treatment to reduce calcification. Supra annular design. In aortic position should be available in sizes 19mm-29mm. Should have both CE and FDA approval.
170	ANNULOPLASTY RINGS MITRAL	 Titanium alloy core with polyester woven cloth. 3 D motion. Should have both CE and FDA approval. Wide range of sizes 24mm- 34mm
171	ANNULOPLASTY RING FLEXIBLE	 Fully flexible ring/band. Should have X-ray visibility. Should have both CE and FDA approval. Wide range of sizes - 25mm-35mm
172	Rigid remodeling ring for mitral valve repair	 Size 24mm,26mm,28mm,30mm,32mm,34mm,38mm,40mm Should be fully rigid remodeling ring. Should have physiologic mitral valve shape. 25% annular height to commissural width ratio anterior, 15% annular height to commissural width ratio posterior. Should have saddle shape and polyester knit covering with Titanium/silicone core
173	Annuloplasty ring for tricuspid valve repair	 Low profile Ring, Sizes 26mm,28mm,32mm,34mm,36mm Should be incomplete ring to avoid interference in conduction system, height should be less than 3.5mm. Should have titanium core encapsulated with silicone and covered with polyesterfabric.
174	Composite Annuloplasty ring for Mitral repair	 Septal lateral compression. Sizes 24mm,26mm,28mm,30mm,32mm,34mm,36mm,38mm Should have semi rigid posterior remodeling with anterior flexibility, should have polyester knit covering with MP-35N/ silicone core
175	Full Aortic Root Bioprosthetic Stentless Valve	Sizes: 19 mm, 21mm, 23 mm, 25 mm, 27 mm • Should be third generation stentless Native asymmetrical Porcine aortic root, • Should have more than 12 years durability and hemodynamic clinical data, • Should have AOA tissue treatment to mitigate calcification & Physiological fixation to preserve leaflet function which facilitates open leaflet in systolic position
176	Bio prosthesis Stented Porcine Aortic with thin sewing ring	Aortic Sizes:19mm,21mm,23mm,25mm,27mm,29mm • Should be third generation Native asymmetrical Porcine tissue valve, • Should have thin sewing ring • Should have more than fifteen years durability clinical data, • Should have AOA tissue treatment to mitigate calcification & Physiological fixation to preserve leaflet function which facilitates open leaflet in systolic position, • Should have Flexible acetyl homopolymer stent,

		should have unique implant facilitating system for conduction of minimally invasive surgeries with automated deflection of stent posts
177	Composite Annuloplasty Band for Mitral repair	Sizes:24mm,26mm,28mm, 30mm,32mm, 34mm,36mm,38mm • Should have Semi-rigid posterior remodeling, • Should not have any anterior part • Should cover trigones • Should have Polyester knit covering with MP-35N/silicone core, • should have trigone islets for anchoring at Trigones
178	Flexible Annuloplasty ring for Mitral and Tricuspid repair	Sizes:23mm,25mm,27mm, 29mm,31mm, 33 mm,35mm • Should have Low profile system, • Should have Chordal guide feature to facilitate chordal repair • Should have flexible shape to freely allow mitral and tricuspid annular motion
179	Flexible Annuloplasty band for Mitral and Tricuspid repair	Sizes:23mm,25mm,27mm, 29mm,31mm, 33 mm,35mm • Should have Low profile system, • Should have Chordal guide feature to facilitate chordal repair, • Should have flexible shape to freely allow mitral and tricuspid annular motion, • Band length should extend beyond Trigone
180	OPEN PIVOT BI LEAFLET MECHANICAL HEART VALVE WITH FLEXI CUFF	 Aortic Sizes 16mm,18mm,20mm,22mm,24mm,26mm Mitral sizes Should have wide range of sizes Should have Open Pivot Bi leaflet mechanical Heart valve with >80degrees opening angle, Should be in single place, solid carbon orifice design with strengthening band. Should have no recess or cavities in the hinge area. Should have flexible cuff to fit easily in asymmetric annulus. Should be supra annular design for both aortic and mitral positions. Should be rotatable and should be FDA approved
181	COMPOSITE BILEAFLET AORTIC VALVE WITH DACRON GRAFT CONDUIT	Should have rotatable, bileaflet, Should have no recess or cavities in the hinge area Should have woven, double velour graft. Graft should be collagen impregnated. Should have expanded cuff for easy suturing. Should be available in wide range of sizes.
182	MONOLEAFLET MECHANICAL HEART VALVE	Mitral sizes 21-33 mm, Aortic 17-31 mm Should have smooth movement monoleaflet configuration with minimum 70 degrees opening angle. Should be easily implantable and rotatable. Should preferably be premounted on a handle. Sewing ring should be low profile; leaflet and housing should be made of strong, durable alloy.
183	Dacron straight woven Grafts	6mm to 16 mm, 30-35 cm long, Collagen coated.
184	Dacron straight woven Grafts	18mm to 28 mm, 30-35 cm long, Collagen coated.
185	Dacron straight woven Grafts	30mm to 38 mm, 30-35 cm long, Collagen coated.

186	Dacron straight woven Grafts	6mm to 16 mm, 60-70 cm long,Collagen coated.
187	Dacron straight woven Grafts .	18mm to 28 mm, 60-70 cm long,Collagen coated
188	Dacron straight woven Grafts.	30mm to 38 mm, 60 cm-70 long, Collagen coated
189	Dacron bifurcated woven grafts	12mmX6 mm, 14mmX7mm, 16mmX8mm,. 18mm X9mm with 40-50. cmslength,Collagen coated.
190	Knitted Dacron straight graft	6mm to 16 mm with 30-35 cm length, Collagen Coated
191	Knitted Dacron straight graft	18mm to 24 mm with 30-35 cm length, Collagen Coated
402	Knitted Dacron straight graft	6mm to 16 mm with 60-70 cm length, Collagen Coated
192	coated.	
193	Knitted Dacron straight graft	18mm to 24 mm with 60-70 cm length, Collagen Coated
194	Dacron bifurcated knitted grafts	12mmX6 mm, 14mmX7mm, 16mmX 8mm,. 18mm X 9mm with 40-50 cms
195	Dacron Woven 3 branch arch grafts	20mm to 34 mm,Collagen coated.
196	Dacron Woven 4 branch arch grafts	20mm to 34 mm,Collagen coated.
197	Dacron Woven Thoraco- abdominal grafts	20mm to 30mm, Collagen coated.
198	Dacron Woven graft 20 to 34mm with 8mm and 10 mm perfusion side branch, 40-50 cm length, Collagen coated.	
199	Dacron Woven extra length graft with offset branch graft 22 to 32 mm with 8mm perfusion side branch, Collagen coated.	
200	Dacron Woven pre-curved graft 22 mm to 32 mm with 8mm perfusion side branch, Collagen coated.	
201	Woven Trifurcate 12mm X 6mm X 7mm, 14 mm X7mm X 7mm, 16mm X 8mm X 7mm, 40-50 cm in length,Collagen coated	
202	Dacron Knitted axillo-bifemoral bifurcated graft with extended support, Collagen coated.	
203	Dacron Knitted Axillo-bifemoral graft 90 degrees angle with 60 cm side branch 8mm and 10 mm,Collagen coated.	
204	Dacron Knitted Femoral-Femoral grafts 6mm and 8 mm 30cm and 40 cm long, Collagen coated	
205	Dacron Knitted straight Peel able support 6mm, 8mm and 10 mm, Collagen coated.	

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206	Dacron straight woven Grafts	
206	6mm to 16 mm, 30-35 cm long , Gelatin coated.	
	Dacron straight woven Grafts	
207	18mm to 28 mm, 30-35 cm long,	
	Gelatin coated.	
	Dacron straight woven Grafts	
208	30mm to 38 mm, 30-35 cm long,	
	Gelatin coated.	
200	Dacron straight woven Grafts	
209	6mm to 16 mm, 60-70 cm long, Gelatin coated.	
	Dacron straight woven Grafts	
210	18mm to 28 mm, 60-70 cm long,	
210	Gelatin coated.	
	Dacron straight woven Grafts	
211	30mm to 38 mm, 60 cm-70 long,	
	Gelatin coated.	
	Knitted Dacron straight graft	
212	6mm to 16 mm with 30-35 cm	
	length, Gelatin coated.	
	Knitted Dacron straight graft	
213	18mm to 24 mm with 30-35 cm	
	length, Gelatin	
	coated.	
	Knitted Dacron straight graft 6mm to 16 mm with 60-70 cm	
214	length, Gelatin	
	coated.	
	Knitted Dacron straight graft	
245	18mm to 24 mm with 60-70 cm	
215	length, Gelatin	
	coated.	
	Dacron bifurcated knitted grafts	
	12mmX6 mm, 14mm X 7mm,	
216	16mmX 8mm,.18mm X 9mm with	
	40-50 cms	
	length, Gelatin coated. Dacron Woven 3 branch arch	
217	grafts 20mm to 34 mm, Gelatin	
21/	coated.	
	Dacron Woven 4 branch arch	
218	grafts 20mm to 34 mm, Gelatin	
	coated.	
	Dacron Woven Thoracoabdominal	
219	grafts 20mm to 30mm, Gelatin	
	coated.	
	Dacron Woven graft 20 to 34mm	
220	with 8mm and 10 mm perfusion	
	side branch, 40-50 cm length,	
	Gelatin coated.	

221	Dacron Woven extra length graft with offset branch graft 22 to 32 mm with 8mm perfusion side branch, Gelatin coated.	
222	Dacron Woven pre-curved graft 22 mm to 32 mm with 8mm perfusion side branch, Gelatin coated.	
223	Woven Trifurcate 12mm X 6mm X 7mm, 14 mm X7mm X 7mm, 16mm X 8mm X 7mm, 40-50 cm in length, Gelatin coated.	
224	Dacron Knitted axillo-bifemoral bifurcated graft with extended support, Gelatin coated.	
225	Dacron Knitted Axillo-bifemoral graft 90 degrees angle with 60 cm side branch 8mm and 10 mm, Gelatin coated	
226	DACRON MARKING PATCH (Filamentous Fabric)	 Should be Nominal Thickness; around 0.6 mm Water permeability; approximately 1800ml Popularly known as "MARKING PATCH" Markings arrow should indicate, in which direction the patch is to be stitched. Sizes 2" x 2", 4 x4" and 6x6 ' inches
227	Double Velour Fabric	 Should have Nominal Thickness; 1.4-1.6mm. With Water permeability of approximately 3800 ml. Should have No Reference markings. Used for Repair of Intracardiac defects and for VSD repair in Adults. SIZES: - 4"X4" & 6"X6"
228	Outflow Tract Fabric	 PTFE. Should have Nominal Thickness: around 0.9mm. with Water Permeability: 250ml. Used for Aortic repair, Pulmonary Outflow tracks patching & other Intracardiac Defects. SIZES: - 4X4 & 6"X6"
229	Thin Wall Patch of PTFE	 Should have multidirectional node fiber structure, to accommodate cellular in growth & give uniform strength throughout the patch Surface. Should be soft & pliable for easy surgical positioning. No Pre clotting should be required. Should have excellent biocompatibility for cardiac& vascular repairs and peripheral vascular reconstruction. Should have Thicknessaround 0.4mm suitable for Aortic & Vascular repair SIZES:- 1CMX9CM,2X9CM & 3CMX6CM (OVAL SHAPED)

230	Regular Wall Patch of PTFE	• Should have multidirectional node fiber structure to accommodate cellular in-growth. • Should be soft & pliable for easy surgical positioning. • No Pre clotting should be required. • Should have excellent biocompatibility for cardiac& vascular repairs and peripheral vascular reconstruction. • Thickness – 0.6mm • SIZES:- 3CM X 3CM,5CMX7.5CM,2.5CMX15CM & 10CMX15CM(RECTANGULAR)
231	Low Porosity FELTS of PTFE	 Should have Thickness 1.5 to 1.8mm. Should have Low Porosity to control bleeding and for buttress for sutures. SIZES:-2' X 2", 4"X4' & 6"X6'
232	PTFE Normal felt;	 Should have Thickness 1.5 to 1.8mm. To be used as a buttress for sutures and Friable tissue SIZES:- 2"x2 ,4"x4 & 6"x6
233	PTFE Hard (Thick) FELTS	 Should have Thickness around 3 mm to provide added support to tissue. SIZES:- 4"X4" & 6"X6"
234	PTFE FELTS PLEDGETS	 Shape:-Rectangle, Square Oval &Round. Should have Thickness around 1.6mm Sizes:- 4.8mm x 6.0mm (Rectangle), 9.5mmx4.8mm (Rectangle), 6.0x6.0mm (Square) & 4.8mm x 6.0mm (Oval)
235	Regular & Thin wall e-PTFE graft all sizes and length	
236	Regular & Small Beadings (Rings) PTFE graft all sizes and length.	
237	BT Shunt PTFEgrafts all sizes and length	
238	Large Diameters e PTFE Grafts all sizes and length	
239	e-PTFE Stretch Large Diameter Reinforced Aortic Vascular Graft of all diameters and length	
240	e-PTFE Cardiovascular Patch	• Sizes:- 5cm x 15cm x 0.6mm x10cm x 15cm x 0.6mm, 3cmx 6cm x 0.4mm
241	e-PTFE Pericardial Membrane 0.1mm thick	• Sizes:- 5cm x 15cm x 0.6mm x10cm x 15cm x 0.6mm, 3cmx 6cm x 0.4mm
242	e-PTFE Pericardial Membrane 0.1mm thick	• Size 6cm x 12cm/12cmx12cm/15cm x 20cm
243	e-PTFE Stretch Reinforced Thin Wall Heparin Bonded Vascular Graft	10cms length Size: 3mm/3.5mm/4mm/5mm/6mm diameter
244	e PTFE Stretch Reinforced Thin wall Non Ringed Heparin Bonded Vascular Graft	40/80cms length Size: 6/7/8/mm diameter
245	e- PTFE Stretch Reinforced Removable Ringed Thin Wall Heparin Bonded Vascular Graft	50/70/80cm length size: 6/7/8mm diameter

	e-PTFE Stretch Reinforced Thin	14/7x40cm/50cm; 16/8x50cm; 18/9x50cm; 20/10x50cm; 22/12
246	Wall limbed Bifurcated Vascular Graft Size :	x40cm; 24/12x40cm
	12/6x50cm	
247	e PTFE Suture	Size CVO/CV2/CV3/CV4/CV5/CV6/CV7/CV8
248	e-PTFE Stretch re-in forced removable ringed thin wall pre configured axillo bi femoral vascular graft.	Size: i) 8mm diameter x 70cm/40cm length ii) 8mm diameter x 90cm/40cm length
249	e PTFE stretch re- in forced low profile integrated radially supported thin wall vascular graft	Size 6mm/7mm/8mm diameter 40cm/60cm/80cm length
	e PTFE stretch re-in forced	Size: 6mm/8mm diameter x 50cm/70cm/80cm length
250	removable ringed thin wall vascular graft	Size: Simily Simil didirector & Sectify 7 Serily Sectify Coloring
251	Ascending aortic reconstruction graft	 One piece design collagen coated VALSALVA graft for repair or reconstruction of the ascending aorta. Should mimic the anatomy and blood flow dynamics of the natural sinuses of Valsalva Unique un-crimped section that does not stretch should allow easy sewing of valve remnants or prosthetic valve Should facilitate estimation of the length required for optimal placement of valve remnants or prosthetic valve to ensure optimal clinical outcomes. Should have the ability to be precisely trimmed and shaped in case of remodeling technique procedures. At least 3 References line should act as a guide for prosthetic valve. Coated polyester fabric Cross linked Type I bovine collagen Water permeability < 5m * cm -2 min-1 @ 120mmHg
252	I.V. Set with flow controller (DEHP Free)	 Specially designed I.V. set for controlling the flow rate of fluid made of medical grade DEHP free polymer nonreactive to watersoluble materials. Gravity drive infusion set with wide dial, which operates as thumb wheel like roller clamp. Security door to prevent the accidental change of flow rate. Low cost disposable set. Sterile, individually packed in blister pack
253	Snugger Set	All sizes: Three pairs of smooth snuggers with Yellow, Blue & Pink colors for vessel identification. Each snare set consists of thumb holder handle for easy maneuverability. Specially designed for putting purse string sutures, made of medical grade PVC. Sizes Adult & Pediatric.
254	Disposable Suction Tube & Tip	Medical grade PVCmolded handles with kink resistant tube for per operative suctioning. Tip of Handle should be crown/ standard shape. Vent port to be provided in handle which should be closed with tight sleeve. Soft flexible adaptors at both end of the tube for connection with secure fitment between suction source& handle. Tube Length 2500mm, OD: 9 mm, ID: 6 mm. Sterile packed in poly pouch pack.

255	Thoracic catheter	All Sizes: Extra soft thoracic drainage catheter, made of DEHP free medical grade polymer, gentle to body tissues & most suitable for thoracic drainage. Catheters are marked at every 2cm from the last eye. Sterile, double (straight) packed in peel able pouch pack. Sizes required: Sizes: 16, 20, 24, 28, 32, 36, 40 FG
256	Thoracic catheter Right Angled (900)	All Sizes: Extra softangledthoracic drainage catheter, made of DEHP free medical grade polymer, gentle to body tissues & most suitable for thoracic drainage. Catheters are marked at every 2cm from the last eye. Sterile, double packed in peelable pouch pack. Sizes: 16, 20, 24, 28, 32, 36, 40 FG
257	Thoracic catheter with trocar – All Sizes	Thoracic drainage catheter with trocar for thoracic drainage purpose. Catheters to be marked at every 5, 10, 15 & 20 cm from the last eye. Fitted with tapered connector. Sterile, packed in peelable pouch pack. Sizes: 12, 16, 20, 24, 28, 32, 36 FG
258	Chest Drainage Bottle – 2000 ml	Under water seal drainage system. Double chamber compact unit with 2000 ml capacity. Easy to read graduation on bottle to determine the drainage volume precisely. Clearly marked initial level to ensure the underwater seal. Separate suction port for connection with suction unit. Should have valve to prevent excess suction. Kink resistant large bore tubing to facilitate unrestricted flow. Unit to be provided with metal hangers and floor stand. Sterile, packed in peelable pouch pack.
259	Chest Drainage Bottle – 1200 ml:	Under water seal drainage system. Single chamber compact unit with 1200 ml capacity. Easy to read graduation on bottle to determine the drainage volume precisely. Should have valve to prevent excess suction. Clearly marked initial level to ensure the underwater seal. Specially designed positive pressure relief valve. Separate suction port for connection with suction unit. Kink resistant large bore tubing to facilitate unrestricted flow. Unit to be provided with metal hanger/floor stand. Sterile, packed in peelable pouch pack
260	Chest Drainage Bottle – 500 ml	Under water seal drainage system. Single chamber compact unit with 500 ml capacity. Easy to read graduation on bottle to determine the drainage volume precisely. Clearly marked initial level to ensure the underwater seal. Separate suction port for connection with suction unit. Kink resistant large bore tubing to facilitate unrestricted flow. Should have valve to prevent excess suction. Unit to be provided with metal hanger/ floor stand. Sterile, packed in peelable pouch pack
261	FOGARTY ARTERIAL EMBLECTOMY CATHETER	 Vinyl Latex Balloon tipped catheter for Arterial Emblectomy procedure. Usable length 60-80 cm, Size 2F to 8F. Recessed winding technique for balloon attachment for maintaining balloon symmetry for uniform contact with vessel wall, providing consistent clot removal

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262	THRU LUMEN FOGARTY CATHETER	 Vinyl Latex Balloon tipped catheter for Arterial Embolectomy procedure. Usable length 80 cm. Size 2F-8F. Second lumen for guide wire compatibility facilitating crossing occluded, tortuous &stenotic arterial wall OR to be used for drug delivery & blood sampling. Stainless steel bushes under proximal & distal balloon windings for visualization under fluoroscopy. Recessed winding technique for balloon attachment for maintaining balloon symmetry for uniform contact with vessel wall, providing consistent clot removal
263	ELECTRO CAUTERY RETURN PLATE WITH CORD	 All sizes should be available Disposable Sticky patient return split monitoring style. Pre attached cable (US FDA approved)
264	ELECTRO CAUTERY RETURN PLATE WITHOUT CORD	 All sizes should be available Disp. Sticky patient return split monitoring style. Cord should be provided separately. US FDA approved
265	Disposable surgical drape	 Made up of reinforced spun-bond film composite material, blue laminate of polypropylene non-woven fibers and polyethylene film. Highly absorbent yet impervious across entire drape. Low-linting, non-breathable, abrasion resistant, durable, strong tear resistant, conformable, with self adhesive containing hypoallergenic acrylate type adhesive with a silicone coated paper liner. ETO Sterilized.
266	CABG drape Pack	4 Self adhesive cautery bags(30cmx35cm),3 Op tapes(10cmx55cm),4 Lint free hand towels(23.5cmx38cm),4 Self adhesive towel drapes(91.5cmx100cm),1 Self Adhesive Medium drape(183cmx183cm),1 Self Adhesive Large drape(150cmx250cm),1 Instrument table drape(150cmx200cm),1 Large Instrument table drape(183cmx240cm),1 Self Adhesive Bilateral Split drape(183cmx200cm),2 Triangular drape(91.5cmx91.5cmx129cm).
267	CAUTREY LEAD	• Disposable. • Hand control button switch with PTFE coated blade electrode. • Should be light weight • US FDA approved • Should be compatible with all standard brands of cautery machines.
268	TITANIUM LIGATING CLIPS "SIZE – SMALL"	 Wire of the clip should be 'Heart shaped for a firm grip on Vessels Clips should be of 'Chevron' shape for better closure Cartridge should have adhesive backing for better control while loading. Clips should be easy to lad with soft loading technique. Clip cartridges should be color coded for better identification. Clips quoted should be registered in India for selling. Should have all required documentations like from 10 A and Form 41 etc. Should be US FDA approved with clinic data backing for the same

269	TITANIUM LIGATING CLIP " SIZE MEDIUM	 Wire of the clip should be 'Heart shaped' for a firm grip on vessels Clips should be of 'Chevron' shape for better closure. Cartridge should have adhesive backing for better control while loading. Clips should be easy to load with soft loading technique. Clip cartridges should be color coded for better identification. Clips quoted should be registered in India for selling. Should have all required documentations like from 10A and form 41 etc. Should be US FDA approved with clinic data backing for the same
270	TITANIUM LIGATING CLIPS"SIZE- MEDIUM LARGE"	 Wire of the clip should be 'Heart shaped' for a firm grip on vessels. Clips should be of "Chevron' shape for better closure. Cartridge should have adhesive backing for better control while loading. Clips should be easy to load with soft loading technique. Clip cartridges should be color-coded for better identification. Clips quoted should be registered in India for selling. Should have all required documentation like form 10A and form 41 etc. Should be US FDA approved with clinic data backing for the same
271	TITANIUM LIGATING CLIPS" SIZE- LARGE	 Wire of the clip should be 'Heart shaped for a firm grip on Vessels. Clips should be of 'Chevron' Shape for better closure Cartridge should have adhesive backing for better control while loading. Clips should be easy to load with soft loading technique. Clip cartridges should be color-coded for better identification. Clip quoted should be registered in India for selling. Should have all required documentation like from 10A and form 41 etc. Should be US FDA approved with clinic data backing for the same.
272	APPLICATOR FOR TITANIUM CLIPS (Small, Medium, Large)	Should be available in three shapes :CURVED, ANGLED & RIGHT ANGLED • Device to be compatible for titanium clips listed in the tender
273	Aortic punch Long handle	 Size: 2.5cm to 6cm Should have sharp dual cutting edge for clean, precise removal of aortic tissue. A conical tip should be there for easy insertion by straight or button hole technique. Ten blade sizes for trimming to desired size and shape 2.5mm – 6.0mm
274	Pediatric bronchial blocker	• Should have a catheter with a bifurcated distal end resembling the bifurcation of the trachea. During insertion through a standard endotracheal tube, both distal ends easily find their way into the two main stem bronchi. Under bronchoscopic vision the lung can be isolated by inflating the balloon. The inflated balloon will always be located at the entrance of the main bronchus. The EZ-Blocker should not dislocate after inflation of the isolated lung. If renewed isolation is required the balloon can be re-inflated without the need to reposition the balloon. Size -7mm.

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275	DISPOSABLE CAMERA SLEEVE	 Transparent, plastic disposable, sterile camera sleeves, for use during MICS, robotis, for epicardial echo. Circular diameter-6inches . Lengthmore than 1meter
276	Specifications for tyvek roll	 Tyvek sheet in rolls, backed with a strong plastic top layer suitable for both Ethylene oxide and plasma sterilization. Should be compatible with all standard brands of plasma and steam sterilization systems Should have STERILISATION PROCESS indicator to confirm effective sterilization Sizes required 50cm x 70mtrs 7.5cm x 70mtrs 10cm x 70mtrs 15cm x 70 mtrs 17.5cm x 70 mtrs 20cm x 70 mtrs 25cm x 70 mtrs 30cm x 70 mtrs 35cm x 70 mtrs 40cm x 70mtrs 45cm x 70mtrs 50cm x 70mtrs 60cm x 70mtrs
277	SURGICAL BRUSH with IODINE POVIDONE AND CHLOROHEXIDINE	 Should be sponge impregnated 12% povidone-iodine in a 15ml solution of Teepol, P.E.G and water supplied with nail cleaner. Should be sponge impregnated 20% chlorohexidine-iodine in a 15ml solution of ISO PROPYLE Alcohol and water supplied with nail cleaner. Should be US FDA APPROVED
278	Vacuum Drainage Sets	 Device for close wound drainage under negative pressure post operatively with option to use one or two catheters. Drain catheters should be provided with radio opaque line and smooth eyes. Connecting tube should be kink resistant and should be provided with additional strength to withstand the suction. Chamber should be easy to depress so as to activate the suction of bellow unit. Should be available with different catheter. Should be sterile and individually packed. Sizes of 10, 12, 14, 16, 18 FG.
279	DRESSING ALL SIZES	• Adhesive, surgical site dressing.• Sterile.• Individually packed.• All sizes
280	ADHESIVE TRANSPARENT DRAPE (SURGICAL SITE FILM) ALL SIZES	 Should be equivalent to Dermincise. Should be self-adhesive sterile drape for surgery and wound dressing incise drape. Should be available in assorted sizes.
281	Bedsores prevention air mattress with pump	Air mattress for prevention and treatment of bedsores stage. • Should be low air loss and alternating pressure mattress. • Should have unique strip type design, which can change shape with the elevation of bed of the patient. • Should prevent bed sores/ accelerate healing of existing bedsores. • Should keep the interface pressure against patient's skin at a level below capillary occlusion. • The pump should operate at very low sound level. • Pump should have provision to hang to the end of the bed by means of 2 hooks. • Mattress should resist a temperature of -30 degree Celsius and should support weight of 110kg. • Dimensions should be approx.180 x 80 x 7.5 cms.

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		Should be individually packed.
		Kit should consist of mattress, motor & spare cell.
		(Inspiratory muscle trainer device)
		Should incorporate a flow-independent, one-way valve to ensure
		consistent resistance,
		Should feature an adjustable specific pressure setting to be set at
		a particular time.
202	Posniratory musels aversing	It should work via inhalation to exercise the respiratory muscles. It should have flow independent one way valve, which should work
282	Respiratory muscle exerciser	• It should have flow independent one-way valve, which should work at constant pressure regardless of patient's airflow.
		It should be easy to set at adjustable pressure, whichcan be
		used/held in any position.
		It should be easy to clean & should have the capacity to be used
		with mouthpiece.
		It should be individually packed in poly bag.
		Reusable Gel packs for pain management.
		It should be able to be kept in freezer for cold therapy.
		It should be able to be microwaved (for appx. 2mintues) / kept in
		boiling water to provide hot fomentation.
202	Davisable Cal Davis	Gel packs must be of a superior quality and non-toxic filling should be seen and held to represent the seen department.
283	Reusable Gel Pack	be safe and hold temperatures for longer duration.Should be durable, burst & puncture resistant.
		Should be durable, burst & puncture resistant. Should have been designed to ensure even spread of gel inside the
		pack.
		• Two sizes: Large: 15 x 30cm (6" x 12") & Medium: 10 X 25 cm (4"
		x10").
		Should have A Wide selection for Carotid Endartrectomy
284	Carotid Shunts :	procedures. SHUNTS should be available in various sizes and lengths,
254	Carotta Sharts .	including
		Straight, Tapered and "T" Design to add versatility in use.
22-	DISP. BULL DOG CLAMPS ALL	Disposable' bull dog' clamps for temporary occlusion of vascular
285	SIZES	structures. Atraumatic.Made with standard quality plastic. Should be ETO sterlisable for repeated use.
		Should be able to scape fat away from the coronary artery.
286	Vessel Scraper	Should be light weight.
	vessei sciapei	Should be pre mounted on a disposable handle
		Should have high quality, sharp pointed blade for precise incision.
287	Arteriotomy Knife	Should be suitable to make incision in 1mm artery.
	•	Should be pre mounted on a disposable handle.
288	Sternal band	Polyethero-ether ketone material pack of 5

289	Polypropylene Blue Monofilament with Tungsten Rhenium alloy needle	8-0 3/8 Circle, 8mm Double Needle Taper point 60-70CM
290	Polypropylene Blue Monofilament with Tungsten Rhenium alloy needle	6-0 3/8 Circle 13 MM DA Taper point 60-70CM
291	Polypropylene Blue Monofilament with Tungsten Rhenium alloy needle	7-0 3/8 Circle 9.3 MM DA Taper point 60-70CM
292	Polypropylene blue monofilament , Suture with 1:1 suture needle thickness ratio	5-0 3/8 Circle 9mm-10 DA Taper point 60cm
293	Polypropylene blue monofilament , Suture with 1:1 suture needle thickness ratio	5-0 3/8 Circle 9-10mm Taper point 60cm
294	Polypropylene blue monofilament , Suture with 1:1 suture needle thickness ratio	4-0 3/8 Circle 13mm Taper point 60-70CM
295	Polypropylene blue monofilament ACC BI-curve needle	7-0ACC BI-Curve 9-10mm , DABI-curve contrast needle60-70CM
296	Undyed Coated Polyglactin 910 coated with Irgacare MP (purest form of triclosan) , braided	3-0 3/8 Circle 24mm Cutting ETHALLOY MULTI-PASS 70-75cm
297	Undyed Coated Polyglactin 910 coated with Irgacare MP (purest form of triclosan) , braided	2-0 1/2 Circle 36mm Taper point CT-1 90-100cm
298	Undyed Coated Polyglactin 910 coated with Irgacare MP (purest form of triclosan) , braided	1 1/2 Circle 36mm Taper point CT-1 90-100cm
299	Braided Polyster green coated with Polybutylate 4 Sutures Per Pack per foil PTFE Pledgets (6mmc3mmx1.5mm)	2-0 1/2 Circle 17MM DA Taper cut 90-100cm
300	Braided Polyster green coated with Polybutylate, 4 Sutures Per Pack per foil PTFE Pledgets (6mmc3mmx1.5mm)	2-0 1/2 Circle 26MM DA taper cut 90-100cm
301	Braided polyester with polybutylate coating ,, Braided Multistrand 5 Green & 5 White strands in a foil PTFE POLYMER	2-0 1/2 Circle 17mm DA Taper cut 75-90cm

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	PLEDGET 6mm x 3mm x 1.5mm (10 Suture - Per Foil)	
302	Braided polyester with polybutylate coating, , Braided Multistrand 5 Green & 5 White strands in a foil PTFE POLYMER PLEDGET 3mm x 3mm x 1.5mm (10 Suture - Per Foil)	2-0 1/2 Circle 17mm DA Taper cut 75-90cm
303	Braided polyester with polybutylate coating, , Braided Multistrand 5 Green & 5 White strands in a foil PTFE POLYMER PLEDGET 6mm x 3mm x 1.5mm (10 Suture - Per Foil)	2-0 1/2 Circle 26mm DA Taper cut 75-90cm
304	PROLENE Blue Monofilament 75 cm Firm POLYMER PLEDGETS 3mm x 3mm x 1.5 mm	5-0 1/2 Circle Needle 13mm DA round body 75-90cm
305	PROLENE Blue Monofilament 75 cm Firm POLYMER PLEDGETS 3mm x 3mm x 1.5 mm	4-0 1/2 Circle Needle 17mm DA round body 90-100cm
306	CABG On Pump Procedure Kit for single Procedure – repacked, Include Sutures :-	2 foils of 7-0 Polypropylene 3/8 Circle CC DA 60 cm 9.3 mm, 2 foils of 6-0 Polypropylene 3/8 Circle 75 cm 13 mm, 1 foil of 5-0 Polypropylene 1/2 Circle RB DA 90 cm 17 mm, 1 foil of 4-0 Polypropylene 1/2 Circle RB DA 90 cm 17 mm, 1 foil of 6 no STEEL 1/2 Circle Cutting CCS, 3 Blunt point 4x45 cm 48 mm 1 foil of BONE WAX 2.0 gm, 1 foil of 0 no Silk 1/2 Circle RB Black Braided 90 cm 30 mm, 2 foil of 4-0 Silk 1/2 Circle RB Black Braided 90 cm 16 mm, 2 foil of 2-0 Undyed Polyglactin 910 1/2 Circle RB Braided 100cm 36 mm, 1 foil of 1 Undyed polyglactin 910 1/2 Circle RB Braided 100cm 36 mm, 1 foil of 3-0 Undyed polyglactin 910 1/2 circle RB Braided 75 cm 24 mm

307	CABG Off Pump Procedure Kit for single Procedure – repacked, Include Sutures :-	1 Foil of 8-0 Polypropylene 3/8 Circle TP DA 60 cm 8 mm, 1 Foil of 7-0 Polypropylene 3/8 Circle CC DA 60 cm 9.3 mm, 2 foils of 6-0 Polypropylene 3/8 Circle 75 cm 13 mm, 1 foil of 5-0 Polypropylene 1/2 Circle RB DA 90 cm 17 mm, 1 foil of 4-0 Polypropylene 1/2 Circle RB DA 90 cm 17 mm, 1 foil of 6 no STEEL 1/2 Circle Cutting CCS, 3 Blunt point 4x45 cm 48 mm 1 foil of BONE WAX 2.0 gm, 1 foil of 0 no Silk 1/2 Circle RB Black Braided 90 cm 30 mm, 2 foil of 4-0 Silk 1/2 Circle RB Black Braided 90 cm 16 mm, 2 foil of 2-0 Undyed Polyglactin 910 1/2 Circle RB Braided 100cm 36 mm, 1 foil of 1 Undyed polyglactin 910 1/2 Circle RB Braided 100cm 36 mm, 1 foil of 3-0 Undyed polyglactin 910 1/2 circle RB Braided 75 cm 24 mm
308	Suture pledget	Polyvinylidene Fluoride Monofilament 3/8 circle tapercut/roundbody, 6/0, double armed, 10mm, 60cm, with pledget 2x3.5x0.4
309	Suture pledget	Polyvinylidene Fluoride Monofilament 3/8 circle tapercut/roundbody, 6/0, double armed, 10mm, 75cm, with pledget 2x3.5x0.4
310	Suture pledget	Polyvinylidene Fluoride Monofilament 1/2tapercut/roundbody, 5/0, double armed, 13mm, 75cm, with pledget 2x3.5x0.4
311	Suture	Polymide 6.6 treated monofilament 3/8 circle taper point 5/0 double armed ,16mm, 80cm
312	Suture	Polymide 6.6 treated monofilament 3/8 circle taper point 6/0 double armed ,16mm, 80cm
313	Clips micro	Titanium clips micro, white, one cartridge 9 clips, 2.6mm
314	Clips small	Titanium clips small, yellow,one cartridge 9 clips,3.6mm
315	Clips medium	Titanium clips medium, blue, one cartridge 9clips, 5.6mm
316	Clips Medium large	Titanium clips medium large , green, one cartridge 6clips, 9.0mm
317	Clips large	Titanium clips large, orange, one cartridge 6 clips, 12.3mm
318	Applicator	Applicator micro, Small, Medium, Medium large, Large with various length And angles At tip
319	Oxygenator infant- Paeditric	Infant- paeditric oxygenator totally coated phosphorylcholine coating, prime volume 99ml, surface0,84m2, blood flow 0.5-3.0 l/min
320	Oxygenator infant- Paeditric with filter	Infant- paeditric oxygenator totally coated phosphorylcholine coating with modular cascade filtration (with interated arterial filiter) prime volume 130ml, surface0,84m2, blood flow 0.5-3.0 l/min
321	Oxygenator Adults	THE LOWEST PRIME ADULT OXYGENATOR phosphorylcholine coating, Oxygenator is specially designed to have the lowest priming volume (190 ml) surface area 1,35m2, max blood flow 7,0 l/min with low contact surface area, combining excellent gas transfer performances with clinical flexibility for small adult and adult Patients. OPTIMAL ERGONOMIC DESIGN FOR PERFUSION COMFORT. Improved ease of use thanks to the top venous inlet port and a large variety of connector adapters for enhanced customization capabilities.

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322	CARDIOPLEGIA DELIVERY SYSTEM	The Cardioplegia Heat Exchanger aims to meet all the performance expectations with the following product features: a) Priming between 20-30 ml b) k) A flow dynamic engineering system which can effectively mix the blood and crystalloid solution to the desired preparations (1:4& 4:1 ratios) Complete blood for warm shot also Allows delivery in any ratio either Delnido 4 part Crytalloid:1 blood) or Microplegia(1 part crystalloid and 4 part blood) c) Portsareavailableforinfusion,sampling,temperaturereading,andthe inlet/outlet connector easily adapt 1/4" tubes for infant, paediatric and adult patient use. d) While priming, the perfusionist can easily purge air through the one port between the inlet and outlet with minimal holdup volume. e) The pleated anodized aluminium heat exchanger hasminimum surface area ,delivery froth –free, to allow the excellent mixing of blood with cardioplegia. f) An air trap column at the entry port provides additional safety by trapping any micro air bubbles going out. g) Thebottom-in,top-outflowpathenablescompletedrainagewith minimal blood holdup volume. h) The PVC recirculation lines are preconnected with their respective connectors to ensure easy setup and use. i) Available individually packed or preconnected with recirculation line j) Product has double protective packing that can be pealed easily when assembling k) A cardioplegia Heat exchanger which can infuse the contents to the patient as and when the surgeons wantsinstantly without any delay . l) An in-built 200 μ Filter to prevent micro air bubbles.
323	Four Lumen Central Line Catheter 8.5 Fr. (13Cm Length)	It should have Four (4) lumen Central Venous catheter with Straight Needle. Catheter Size 8.5 Fr. It should have Nitonol Guide wire (45/60 cm * 3 mm) and (Diameter Distal 16 G Medial 1 14 G, Medial 2 18 G, Proximal 18 G). Length of catheter 13 cm.
324	central venous catheter single lumen 16 G	It should be sterile Single packing Single lumen catheter 16g set for cauterization of the vena cava according to the catheter through cannula technique, Length 40 cm Dilator 4/5 Fr, Guide wire
325	central venous catheter Tripe lumen 4.5 f	It should have Four (4) lumen Central Venous catheter with Straight Needle. Catheter Size 4.5 Fr. It should have Nitonol Guide wire (45/60 cm * 3 mm) and (Diameter Distal 23G, Medial 20 G, Proximal 23 G). Length of catheter 6cm cm.
326	central venous catheter Tripe lumen 5.5 f	It should have Four (4) lumen Central Venous catheter with Straight Needle. Catheter Size 5.5 Fr. It should have Nitonol Guide wire (45/60 cm * 3 mm) and (Diameter Distal 22G Medial 18 G, Proximal 22 G). Length of catheter 8 cm.
327	Bulldog Clamp	Novaclip atraumatic spring clip,17mm straight,Blue
328	Bulldog Clamp	Novaclip atraumatic spring clip,12mm straight,Magenta
329	Bulldog Clamp	Novaclip atraumatic spring clip, 12mm angled, Yellow
330	Bulldog Clamp	Greyhound Adjustable spring clip, 6mm straight
331	Applier	Applicator for Sofia / Greyhound® Spring Clips

332	Applier	Applicator for NOVACLIP® spring clips
333	Enclose II	Proximal Anastomosis Assist Device (with Aortic Punch 3.5 mm)
334	Enclose II	Proximal Anastomosis Assist Device (with Aortic Punch 4.0 mm)
335	Enclose II	Proximal Anastomosis Assist Device (with Aortic Punch 4.5 mm)
336	Antimicrobial Incise Drapes	* It Should be GAMMA sterilize only. * For covering incision area(Overall size 66cm X 45cm OR Adhesive area 56cm X 45cm). * Adhesive with povidone lodine. * It Should be USFDA approved. * It Should be effective against methicillin-resistant Staphylococcus aureus (MRSA) at a depth of 1000 microns.
337	Antegrade Ostial Cardioplegia Cannula- Neonatal	Antegrade-cardioplegia cannula should be made of soft 100% silicone conduit with distal bulbous end & amp; should have luer lock connector at the proximal end for administration of cardioplegia solution into the coronary ostia, suitable for doing neonatal arterial switch surgery
338	ePTFE Conduit	length 35 cm, sizes 16, 18, 20, 22 ringed
339	ePTFE Conduit	length 35 cm, sizes 16, 18, 20, 22 non ringed
340	BT Shunt ePTFE made m	sizes 3.0mm, 3.5mm, 4.0mm, 4.5mm, 5.0mm
341	Bovine Pericardial Patch	Ready-to-use, rinseless preparation, glutaraldehyde fixed/ glutaraldehyde free, anticalcification treatment, size 8x8 cm, preferably USFDA approved
342	Non Absorbable monofilament	5-0, 1/2 circle, taper point, 13mm needle, 60-75 cm, non pledgeted,
J42	polypropylene surgical suture	double arm
343	Non Absorbable monofilament	5-0, 1/2 circle, taper point, 17mm needle, 60-75 cm, non pledgeted,
343	polypropylene surgical suture	double arm
344	Non Absorbable monofilament	6-0, 1/2 circle, taper point, 8-10mm needle, 6-75 cm, non pledgeted,
344	polypropylene surgical suture	double arm
345	ECMO PLS Kit Adult	A. Centrifugal Pump.Max flows: 0 to 10 lits/min.Channel type.Priming volume: 20 - 32 ml.Diffusion membrane.Oxygenator.Hollow fiber Polymethylpentene.Max Flows: 0.5 to 7 lits/min.Surface area: 1.8 sq. mts.Heat exchanger: Integrated into oxygenator. Heat exchanger membrane type: Polyurethane.Coated with Bioline (Albumin + Heparin)
346	ECMO PLS Kit Adult MECC	A. Centrifugal Pump.Max flows: 0 to 10 lits/min.Channel type.Priming volume: 20 - 32 ml.Diffusion membrane.Oxygenator.Hollow fiber Polymethylpentene.Max Flows: 0.5 to 7 lits/min.Surface area: 1.8 sq. mts.Heat exchanger: Integrated into oxygenator. Heat exchanger membrane type: Polyurethane.Coated with Bioline (Albumin + Heparin)
347	ECMO PLS Custom Pack Adult	A. Centrifugal Pump.Max flows: 0 to 10 lits/min.Channel type.Priming volume: 20 - 32 ml.Diffusion membrane.Oxygenator.Hollow fiber Polymethylpentene.Max Flows: 0.5 to 7 lits/min.Surface area: 1.8 sq. mts.Heat exchanger: Integrated into oxygenator. Heat exchanger membrane type: Polyurethane.Coated with Bioline (Albumin + Heparin)
348	Ecmo canulas Venous	Bioline coated Sizes 19, 21, 23, 25, 29
349	Ecmo canulas Arterial	Bioline coated Sizes 13, 15, 17, 19, 21
350	Heart –Stabilizer	Thin mount with a constant low profile design for an optimized work area. Stabilizer allows a vertical drop of the FLEXLINK arm into the chest cavity. Proprietary technology provides 180° side-to-side range of motion of the arm. Integrated channels secure tubing away from

		the work area
351	IAB Catheters	The balloon must have a co-lumen design The balloon membrane has to be of durathathane material 7.5 french catheter with no step down
352	Heart positioner	Active suspension technology allows normal cardiac motion and maintains stable hemodynamics. Tissue-conforming suction cup uses gentle vacuum to securely lift and hold the heart. Designed for apical or nonapical placement
353	Knitted Graft	Collagen-coated polyester .Reverse locknit knitting technique.radial tensile strength.No suture hole bleeding.bovine collagen.Cross-linked Type.Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg.Wall thickness** 0.49 mm Sizes 40 CM 6,7,8,10,
354	Knitted Graft	Collagen-coated polyester .Reverse locknit knitting technique.radial tensile strength.No suture hole bleeding.bovine collagen.Cross-linked Type.Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg.Wall thickness** 0.49 mm Sizes 40 CM ,12,14,16,18,20,22,24
355	Knitted Graft	Collagen-coated polyester .Reverse locknit knitting technique.radial tensile strength.No suture hole bleeding.bovine collagen.Cross-linked Type.Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg.Wall thickness** 0.49 mm Sizes 70 CM 6,7,8,10
356	Silver Knitted Graft	Silver acetate collagen-coated polyester graft. Knitted, Woven.antimicrobial.reduce the risk of graft-related infection Silver acetate does not promote bacterial resistance Validated intended use with rifampicin loading.bovine collagen.Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg Sizes 40 CM 6,7,8,10,
357	Silver Knitted Graft	Silver acetate collagen-coated polyester graft. Knitted, Woven.antimicrobial.reduce the risk of graft-related infection Silver acetate does not promote bacterial resistance Validated intended use with rifampicin loading.bovine collagen.Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg Sizes 40 CM 12,14,16,18,20,22,24
358	Silver Knitted Graft	Silver acetate collagen-coated polyester graft. Knitted, Woven.antimicrobial.reduce the risk of graft-related infection Silver acetate does not promote bacterial resistance Validated intended use with rifampicin loading.bovine collagen.Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg Sizes 70 CM 6, 7, 8, 10
359	Knitted Bifurgated Graft	Collagen-coated polyester .Reverse locknit knitting technique.radial tensile strength.No suture hole bleeding.bovine collagen.Cross-linked Type.Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg.Wall thickness** 0.49 mm Sizes 12x6, 14x7, 16x8, 18x9
360	Silver Knitted Bifurgated Graft	Silver acetate collagen-coated polyester graft. Knitted, Woven.antimicrobial.reduce the risk of graft-related infection Silver acetate does not promote bacterial resistance Validated intended use with rifampicin loading.bovine collagen.Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg Sizes 12x6, 14x7, 16x8, 18x9
361	Woven Graft	Collagen-coated external-velour polyester .minimize thrombus formation.weave design.Coated polyester fabric Cross-linked Type I bovine collagen.Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg.Wall thickness** 0.38 mm. Sizes

		12,14,16,18,20,22,24,26,28,30,32
362	Silver Woven Graft	Collagen-coated external-velour polyester .minimize thrombus formation.weave design.Coated polyester fabric Cross-linked Type I bovine collagen.Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg.Wall thickness** 0.38 mm. Sizes 12,14,16,18,20,22,24,26,28,30,32
363	INTERGARD WOVEN AORTIC ARCH Graft	Pre-sewn and Anatomically correct angle of branches designed for total replacement allow reduced cardiac ischemic time.Coated polyester fabric Cross-linked Type I bovine collagen.Water permeability* ≤ 5ml • cm-2 • min-1@120 mmHg.Wall thickness** 0.38 mm.45°suture retention** 2.53 kg. Sizes 20,22,24,26,28,30,32,34
364	CARDIOROOT	one piece-design collagen-coated VALSALVA. For ascending aorta. Should mimic the anatomy and blood flow dynamics of the natural sinuses of Valsalva. Anatomically correct shape. Unique uncrimped section that does not stretch:can be precisely trimmed and shaped. Water permeability ≤ 5ml • cm-2 • min-1@120 mmHg. Coated polyester fabric Cross-linked Type I bovine collagen. sizes 24,26,28,30,32,34
365	Endoscopic Vessel Harvesting System	The Endoscopic Harvesting System should be designed for use in conjunction with the 7mm Endoscope. Harvesting Cannula should have four lumens to house the Endoscope, C-Ring, Distal Lens Washer Tube & Distal Sector Bipolar Ligating Forceps for ligation & Distal Sector Bipolar Ligating Forceps for ligation washer; division of vessel branches. C-Ring/Distal lens washer should be independently controlled by a C-Bisector can be extended/retracted through the main cannula by inserting it into the Tool Adapter Port, and rotated independently. Bipolar coagulation should be achieved using electrosurgical energy. Short Port Blunt Tip Trocar (BTT) should be provided which is used to provide a port of access for insertion of endoscopic instruments into an incision site. Syringe should be provided for inflation/deflation of the Balloon.
366	7mm Extended Length Endoscope vasio view Hemopro-2	The 7 mm Endoscope (Zero Angle) should be a reusable product, which consist of a stainless steel Shaft housing optical and illumination components.proximal end should have an Eyepiece for camera adapter attachment,7 mm Endoscope should be designed to be used in conjunction with the removable Dissection Tip for blunt dissection of tissue and isolation of structures in the cavity.
367	Plastic Bulldog	All sizes, Curved or streight, one piece design
368	PiCCO Catheter	PiCCO technology is based on two principles namely, trans pulmonary thermodilution and pulse Global End Diastolic Functioncontour analysis. Stroke Volume Variation(SVV). Pulse Pressure Variation(PPV), Global Ejection Fraction(GEF), Extravascular Lung water index (ELWI) Pulmonary Vascular Permiability Index (PVPI).

		Systemic Vascular Resistance index(SVRI)Temperature sensor at the catheter tip for trans pulmonary thermodilution
369	Pericardial Patch	Cardiac and great-vessel reconstruction and repair and pericardial closure.soft, pliable tissue conforms to uneven surfaces and minimizes suture hole leaks for more reliable repairs.Glutaraldehyde and EnCap™ anti-calcification technology,promote host endothelialization . bovine pericardium resists shrinkage and aneurysm formation. Rinse less Preparation, Ready to use.Thinner
370	Mechnical Heart Valves Rotatable	patch Mechanical Heart Valves for both Aortic and Mitral Heart position available in sizes 17 mm to 31mm. Bi-leaflet and rotatable. protrusion of leaflets from the housing is 3.4mm.wall clearance – 6.6mm 85°. U.S FDA approved.Pyrolytic carbon. Patented butterfly upstream pivot design
371	AGFN-756 (Regent Flex cuff)- Aortic Mechanical heart valve	Mechanical Heart Valves for Aortic position.Individually sterilized and ready for use in individual patients. Five years from the date of manufacturing. Bi-leaflet and rotatable. Supra-annular placement. Maximum protrusion of leaflets from the housing is 3.4mm.84% orifice to annulus ratio. 85 degrees. Significantly larger EOA's than other mechanical heart valves. Significant reduction in LV mass. Pyrolytic carbon. Patented butterfly upstream pivot design. U.S FDA approved. MRI conditional. sizes 17 mm to 29mm. The Flex Cuff is flanged and more pliable than the standard cuff.
372	Conduit	Double-velour woven fabric offers excellent sealing handling and healing characteristics. Collagen impregnation provides uniform tissue in-growth and biocompatibility. Rotatable valve attached. Cuff Configuration. US. FDA approved. sizes: 19mm to 33 mm
373	Aortic Tissue Heart Valve	Biological tissue heart valves for Aortic Heart position available in sizes 19mm-27mm. Triple composite porcine valves. Anticalcification treatment. U.S FDA approved.Low Pressure glutarldehyde fixation
374	Mitral Tissue Heart Valve	Biological tissue heart valves for Mitral Heart position available in sizes 25mm-33mm. Triple composite porcine valves. Anticalcification treatment. U.S FDA approved.Low Pressure glutarldehyde fixation
375	Valve Annuloplasty Rings - Tricuspid	Available in sizes 25mm to 35mm. tricuspid and mitral repair. double velour cuff . Full flexible ring can be tailored.Posterior support.Flexible design.Secure ergonomic holder and handle.Open holder facilitates.US. FDA approved
376	Repair options for Heart Valves (Rigid)	Repair solutions available in both flexible as well as rigid forms. rigid ring is a full 3D ring which creates natural saddle shape. titanium alloy core.polyester cuffunique triangular core.U.S FDA approved rings.sizes 22mm to 34mm.
377	SEMI-RIGID SEGUIN RING	Semi-rigid ring has three-dimensional Flexibility. preserve the physiologic movement of the valve annulus. Sewing ring fabric: Polyester Double Velour. Core: Polyethylene. sizes 24mm-40mm. Secure ergonomic holder and handle quickly attach and detach to save time during implant. Solid, one-piece inner core resists needle

		penetration and reduces the potential for suturing through the core.USFDA
378	Trifecta GT	valve is bovine pericardial bioprosthesis for the aortic position called the next generation Trifecta™ valve designed for improved ease of placement.FDA approved.leaflets made from a single strip of pericardiumexternally mounted over a titanium stent and this allows complete opening of the leaflets and aids in proper coaptation.polyester sewing cuff with a scalloped shape, without a silicone insert; and there is the presence of 3 suture markers.Minimizes suture drag and parachuting forces- Hence the valve 'GLIDES' onto the annulus with ease.annulus shape. Conical, streamlined.A Pericardial cover on the stent helps in mitigating the tissue abrasion with tissue to tissue contact.sizes 19mm, 21mm,23mm,25mm,27mm and 29mmA propriety fixation procedure aids in proper leaflet shaping for proper leaflet coaptation.
379	Titanium clip	Metal ligation clip 1.91 mm width and 2.24 closed length with 30% smaller than small clips, USFD and CE approved, heart shapped wire with inner locking grooves f chevron shape for more vessel engulfing, Transverse Grooves, Micro white Cartidge of 6 Clip
380	Titanium clip	Metal ligation clip with 1.98 mm width and 3.63 closed length, USFD and CE approved, heart shapped wire with inner locking grooves, chevron shape for more vessel engulfing, Transverse Grooves, Lateral Clip-restraining springs, small yello Cartidge of 24 Clip
381	Titanium clip	Metal ligation clip with 2.08 mm width and 3.63 closed length, USFD and CE approved, heart shapped wire with inner locking grooves, chevron shape for more vessel engulfing, Transverse Grooves, Lateral Clip-restraining springs, small wide Red Cartidge of 24 Clip
382	Titanium clip	etal ligation clip with 3.02 mm width and 5.89 closed length, USFD and CE approved,heart shapped wire with inner locking grooves, chevron shape for more vessel engulfing,Transverse Grooves,Lateral Clip-restraining springs, medium blue Cartidge of 24 Clip
383	Applier	High quality stainless steel applier, compatible only with Weck Horizon clips, opens at box lock for cleaning purpose, jaws alignment to avoid clip fallout Angle shape and Straight shape
384	Advance IV Kit for positive patient.	Peripheral IV line kit consisting of 1 pc of reinforced IV dressing advance size 7cm x 8.5cm, 1 pc of 2% w/v Chlorhexidine gluconate and 70% v/v isopropyl alcohol skin prep swab, 1 pc of Latex free disposable tourniquet and 1 pc of sterile gauze swab / 1 ml Sting Barrier Film. 20 Pcs in Pkt. It should be comfortable for positive patient.
385	Peripheral IV dressing for neonates.	Polyurethane film peripheral IV dressing for neonates reinforced with soft cloth border and notch with pattern coated acrylic adhesive. It has a picture frame delivery system with 3 extra sterile tape strips for additional secure and complies with ISO-10993 standards for biocompatibility. Size: 3.8cm x 4.5cm. It Should be approved by HRIPT and HCIPT Test

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386	Peripheral IV dressing for pediatric.	Polyurethane film peripheral IV dressing for pediatric reinforced with soft cloth border and notch with pattern coated acrylic adhesive. It has a picture frame delivery system with 3 extra sterile tape strips for additional secure and complies with ISO-10993 standards for biocompatibility. Size: Size: 5cm x 5.7cm. It Should be approved by HRIPT and HCIPT Test
387	Transparent Film Dressing Frame	Dressings are made with a thin, semi-permeable film that enables long wear time and full site visibility to minimize unnecessary dressing changes. Size 4 inch x 10 inch (10 cm x 25 cm)
388	Antimicrobial Incise Drape With Pouch	Antimicrobial Incise Drapes effectively help prevent wound contamination, Size - 87 cm x 74 cm, Incise area 30 cm x 30 cm
389	Antimicrobial Incise Drape With Pouch.	Antimicrobial Incise Drapes effectively help prevent wound contamination, Size - 74 cm x 87 cm, Incise area 42 cm x 52 cm.
390	Canister 500 ML	500 ml Canister with Gel Company Should be having manufacturing or import License It should be DCGI and FDA & CE Certified Shoul be compatible to burst abdominal vac dressing veraflow and Abthera
391	Vac Dressing Granufoam	NPWT Dressing kits containing Small Polyurethane foam Dressing (10 x 7.5 x 3.2cm) with drape, ruler, trac tubing and 1-ltr canister for exudate collection. It should be DCGI and FDA & CE Certified & company having manufactutring or import license
392	Vac Dressing Granufoam	NPWT Dressing kits containing Medium Polyurethane foam Dressing (18 x 12.5 x 3.2cm) with with drape, ruler, trac tubing and 1-ltr canister for exudate collection. It should be DCGI and FDA & CE Certified & company having manufactutring or import license
393	Vac Dressing Granufoam	NPWT Dressing kits containing Large Polyurethane foam Dressing (26 cm x 15 cm x 3.2cm) with drape, ruler, trac tubing and 1-ltr canister for exudate collection. It should be DCGI and FDA & CE Certified & company having manufactutring or import license
394	Pressure Garment	Custom made Pressure Garment below Knee stockings Pair.
395	Pressure Garment	Custom made Pressure Garment Full Knee stockings Pair.
396	Pressure Garment	Custom made Pressure Garment Fore arm
397	Pressure Garment	Custom made Pressure Garment Full arm
398	Pressure Garment	Custom made Pressure Garment Fore arm with Guantlet
399	Pressure Garment	Custom made Pressure Garment Full arm with guantlet
400	Membrane Oxygenator Efficient Heat Exchanger with Surface coating with Hardshell Venous Reservoir, Cardiotomy Filter and Integrated Arterial Filter. 7 Ltr	Recommended Max Blood flow rate: 5001 to 8000 ml/min, Static priming vol: 180 to 350 ml, Maximum Hardshell Reservoir Capacity: 4000 to 4500 ml, Minimum Hardshell Reservoir Capacity: 200 to 300ml, Venous Reservoir filter: 20 to 47 μ, Suction inlet No.: minimum 4, Filtered quick prime No.: minimum 1, Filter luer No.: minimum 2, Venous blood flow: 7000 to 8000 ml/min, Membrane Surface area: 1.8 to 2.5 m². Specifications of Arterial Filter: Maximum Blood flow rate: 6 to 8 lit/min, Low Priming Volume, Inlet and Outlet 3/8 For Adult
401	Membrane Oxygenator Efficient Heat Exchanger with Surface coating. Small Adult 5 Ltr	Cardiotomy filter and integreated arterial filterRecommended Max Blood flow rate: 4000 to 5000 ml/min, Static priming vol: 120 to 175 ml, Maximum Hardshell Venous Reservoir Capacity: 3000 to 4200 ml, Minimum Hardshell Reservoir Capacity: 70 to 150 ml, Venous Reservoir filter: 20 to 47 μ , Suction inlet No.: minimum 4, Filtered quick prime No.: minimum 1, Filter luer No.: minimum 2, Venous blood flow: 4000 to 5000 ml/min, Membrane Surface area: 1.0 to 1.5 m². Specifications of Arterial Filter: Maximum Blood flow rate: upto 5

		lit/min, Low Priming Volume, Inlet and Outlet 3/8 For Small Adult CE Approved
402	Membrane Oxygenator Efficient Heat Exchanger with Surface coating. Ped. 4 Ltr	Cardiotomy filter Recommended Max Blood flow rate: 2000 to 3000 ml/min, Static priming vol: 90 to 145 ml, Maximum Hardshell Reservoir Capacity: 1600 to 3000 ml, Minimum Hardshell Reservoir Capacity: 15 to 70 ml, Venous Reservoir filter: 20 to 47 μ, Suction inlet No.: minimum 4, Filtered quick prime No.: minimum 1, Filter luer No.: minimum 2, Venous blood flow: 2000 to 3000 ml/min, Membrane Surface area: 0.6 to 1.5 m². Specifications of Arterial Filter: Maximum Blood flow rate: 3.2 to 5 lit/min, Low Priming Volume, Inlet and Outlet 3/8 For Paediatric CE Approved
403	Membrane Oxygenator Efficient Heat Exchanger with Surface coating with Hardshell Venous Reservoir, Cardiotomy Filter and Integrated Arterial Filter. Neonatal 1.5 Ltr	Recommended Max Blood flow rate: 800 to 2000 ml/min, Static priming vol: 35 to 70 ml, Maximum Hardshell Reservoir Capacity: 700 to 1500 ml, Minimum Hardshell Reservoir Capacity: 15 to 30 ml, Venous Reservoir filter: 20 to 47 μ, Suction inlet No.: minimum 4, Filtered quick prime No.: minimum 1, Filter luer No.: minimum 2, Venous blood flow: 800 to 2000 ml/min, Membrane Surface area: 0.3 to 0.7 m². Specifications of Arterial Filter: Maximum Blood flow rate: 0.7 to 2.5 lit/min, Low Priming Volume, Inlet and Outlet 1/4 For Infant and Neonatal CE Approved
404	Tissue Stabilizer With Canister Tubing Set (For Off pump CABG) - Metallic	Titan Flex and Titan Stabilizers provide optimal positioning, stabilization and coronary artery isolation durning beating heart. USFDA Approved
405	Arm forTissue Stabilizer With Canister Tubing Set (For Off pump CABG) - Metallic	Arm Titan Flex and Titan Stabilizers provide optimal positioning, stabilization and coronary artery isolation durning beating heart. USFDA Approved
406	Dacron Graft Straight Tube	dilatation resistant ,gelatin sealed , Koper knitted polyester vascular graft 40 cm 6,7,8,10,12
407	Dacron Graft Straight Tube	dilatation resistant ,gelatin sealed , Koper knitted polyester vascular graft 70 cm 6,7,8,10,12
408	Dacron Graft Silver coated Straight tube	40 CM 6,,7,,8
409	Hemofilter Adult .8 m square	
410	Hemofilter Ped3m square	
411	Coronary Shunt All sizes	
412	Custom Tubing Pack Adult	Made from non-toxic medical grade PVC tubing. It is used exclusively in combination with heart lung machine and other devices of the system such as oxygenator and blood cardioplegia delivery system. Options of clear or colorful stripes tubing i.e. RED/BLUE/YELLOW/GREEN and with arterial line filter and withour
		filter is available.

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413	Custom Tubing Pack Semi Adult	Made from non-toxic medical grade PVC tubing . It is used exclusively in combination with heart lung machine and other devices of the system such as oxygenator and blood cardioplegia delivery system. Options of clear or colorful stripes tubing i.e. RED/BLUE/YELLOW/GREEN and with arterial line filter and withour filter is available.
414	Custom Tubing Pack Paediatric	Made from non-toxic medical grade PVC tubing. It is used exclusively in combination with heart lung machine and other devices of the system such as oxygenator and blood cardioplegia delivery system. Options of clear or colorful stripes tubing i.e. RED/BLUE/YELLOW/GREEN and with arterial line filter and withour filter is available.
415	Custom Tubing Pack Neonatal	Made from non-toxic medical grade PVC tubing . It is used exclusively in combination with heart lung machine and other devices of the system such as oxygenator and blood cardioplegia delivery system. Options of clear or colorful stripes tubing i.e. RED/BLUE/YELLOW/GREEN and with arterial line filter and withour filter is available.
416	Blood Cardiolplegia Delivery Set Adult	Adult and Paediatric Delivery system configurations Flow engineer with Axial, non turbulent, eddy free design prevents bubble formation and eliminates need for downstream filters Shortest blood flow path over smooth surfaces, yet best cooling efficiency Core flow without thinning of blood, reduces stress Priming Volume is just 40 ML, Mixing propositions of blood and cardioplegia 1:1,2:1 and 4:1
417	Blood Cardiolplegia Delivery Set Paediatric	Adult and Paediatric Delivery system configurations Flow engineer with Axial, non turbulent, eddy free design prevents bubble formation and eliminates need for downstream filters Shortest blood flow path over smooth surfaces, yet best cooling efficiency Core flow without thinning of blood, reduces stress Priming Volume is just 40 ML, Mixing propositions of blood and cardioplegia 1:1,2:1 and 4:1
418	Hemofilter Adult	Surface Area (Sq.m): 0.8 Priming Volume (cb.m): 58 Max. Trans pre (mm/Hg): 500 Max. Flow (ml/min): 150 Blood Inlet & Outlet: 1/4"
419	Hemofilter Paediatric	Surface Area (Sq.m): 0.4Priming Volume (cb.m): 58Max. Trans pre (mm/Hg): 500Max. Flow (ml/min): 150Blood Inlet & Outlet: 1/4"
420	Pressure Transducer Kit Double	Consists of high pressure monitoring lines, transducer domes with built in flushing device and three way stop cock. Close system design reduces the risk of leakage and infection to operators. Consistent and accurate reading during monitoring.

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421	Aortic Cannula Reinforced straight and Angled	One piece body with straight or curved tip available with vented or non-vented connector. An adjustable or xed depth ring together with tip and depth line permits precise position of all cannula. Size 12, 14,16,18,20,22,24
422	Aortic Cannula non-reinforced St.	One piece body with straight or curved tip available with vented or non-vented connector. An adjustable or xed depth ring together with tip and depth line permits precise position of all cannula. Size 12, 14,16,18,20,22,25
423	Aortic Cannula non-reinforced Curved Plastic Tip	One piece body with straight or curved tip available with vented or non-vented connector. An adjustable or xed depth ring together with tip and depth line permits precise position of all cannula. Size 12, 14,16,18,20,22,26
424	Aortic Cannula non-reinforced Curved Metal Tip	One piece body with straight or curved tip available with vented or non-vented connector. An adjustable or xed depth ring together with tip and depth line permits precise position of all cannula. Size 12, 14,16,18,20,22,27
425	Venous Cannula straight	One piece body with wire reinforced walls and MULTIPORT LIGHTHOUSE TIP. Sizes available: 12 FR-38 FR.
426	Venous Cannula angled metal tip	Venous cannula with right angled metal tip features kink resistant wire reinforced bodies. with beveled angled metal tip. This construction allows for higher flow rates with minimum pressure di erential. Metal tip orientation permits precise positioning of the cannula. Sizes 12-38 Fr
427	Two Stage Venous Cannula	These cannulae feature multiport tips with atrial baskets and kink- resistant, wirewound bodies with depth markings. The oval body presents a lower profile in the surgical field. All Sizes
428	Arterial Line Filter	Filter: 40 micron. Flow: 7 LPM. Priming: 179 ml. Port: 3/8"
429	Arterial Line Filter	Filter: 40 micron. Flow: 5 LPM. Priming: 90 ml. Port: 3/8"
430	Arterial Line Filter	Filter: 40 micron. Flow: 3.2 LPM. Priming: 35 ml. Port: 1/4"
431	Aortic root Cannula / Antegrade	These cannulae feature radiopaque tips attached to clear bodies with separate vent lines. Additional features available with these cannulae. include aortic root pressure monitoring and left heart venting. All cannulae are supplied with a stainless steel introducer needle. Sizes 12,14,16,18
451	Cardiac Sump with steel tube tip	This sump features a weighted perforated pool tip to minimize the possibility of tissue occlusion while maintaining an opportunity for drainage. The perforated steel tube tip is inside the tubing that terminates with a 1/4 inch (0.64 cm) connector. Adult, Paed. Infant
433	L. V. Vent with stylet	These vent catheters are for direct and indirect venting of the left ventricle and feature perforated tips. Catheter material is PVC, along with straight, preformed, or malleable bodies with depth markings. These vents are available in pediatric and adult sizes. Straight body models come with a malleable or stiff guidewire style introducer for easy insertion and placement. All vent catheters terminate with a vented or non-vented 1/4 inch (0.64 cm) connector. 12, 14, 17, 18, 20 Fr
434	Femoral Aortic Cannula	Features an introducer with blunt tip configuration that allows safe insertion for additional arterial access sites such as the aorta, axillary and subclavian A lock feature reduces push-back of the introducer during insertion Vent cap reduces back-bleed when no guidewire is used in the procedure Depth markings aid in placement 8 to 24 Fr

435	Femoral Venous Cannula single stage	Venous femoral cannulae, designed to drain from superior and inferior vena cava, available in given sizes, with full flow drainage capability. A high quality soft introducer features a smooth transition to the cannula to improve insertion and reduce vascular damage. Available for percutaneous insertion via Seldinger technique. 16 to 30 FR
436	Femoral Venous Cannula Dual stage	Dual Stage Femoral Venous cannulae, designed to drain from superior and inferior vena cava, available in given sizes, with full flow drainage capability. A high quality soft introducer features a smooth transition to the cannula to improve insertion and reduce vascular damage. Available for percutaneous insertion via Seldinger technique. 16 TO 30 Fr
437	Femoral Venous Cannula three stage	Multiple Stage Femoral Venous cannulae, designed to drain from superior and inferior vena cava, available in given sizes, with full flow drainage capability. A high quality soft introducer features a smooth transition to the cannula to improve insertion and reduce vascular damage. Available for percutaneous insertion via Seldinger technique. 16,18,24,26,28 Fr
438	CVC Tripple Lumen chlorhexidine and silver sulfadiazine- Antimicrobial Adult	Radiopaque Polyurethane with Blue FlexTip.Raulerson Spring-Wire Introduction Syringe.Size 7Fr X 16CM
439	CVC Four Lumen chlorhexidine and silver sulfadiazine-Antimicrobial Adult	Radiopaque Polyurethane with Blue FlexTip.Raulerson Spring-Wire Introduction Syringe.Size 7Fr X 16CM
440	CVC Tripple Lumen chlorhexidine and silver sulfadiazine-Antimicrobial Ped.	Radiopaque Polyurethane with Blue FlexTip.Raulerson Spring-Wire Introduction Syringe.Size 4Fr X 8CM
441	CVC Tripple Lumen chlorhexidine and silver sulfadiazine-Antimicrobial Ped.	Radiopaque Polyurethane with Blue FlexTip.Raulerson Spring-Wire Introduction Syringe.Size 5.5Fr X 8CM
442	Bain circuit Adult	
443	Bain Circuit Ped.	
444	Ventilator circuit Plain	
445	Ventilator circuit 1 WATER TRAP	
446	Ventilator circuit Double water Trap	
447	Cytokine Adsorber	Maximum Blood Flow Rate: 700 mL/min Minimum BloodFlow Rate: 100 mL/min Blood Priming Volume: 150 mL Adsorbent Material should ideally be crosslinked Divinylbenzene or polyvinylpyrrolidone. Should be compatible with CRRT, VV and VA ECMO Should be FDA approved.
448	Suture Organiser	Valve suture to VSD sutures can be easily organised. In nontramatic. Way.
449	Powder dressing(Altrazeal)	Should be non resorbable. Should be oxygen permeable Impenetrable to exogenous bacteria and toxins Should be long lasting (>3 weeks)

450	Aortic Valve Neocuspidisation Sizer Multiuse System	 Sizer Number 21, 23, 25, 27, 29, 31, 33, 35 (1 each- 9 total) Plates for fixation and trimming- One Petri Dish- One 0.6% Glutaraldehyde Soaking Tray- One Sterilization Container- one
451	Aortic Valve Neocuspidisation Pediatric Sizer MultiuseSystem	Sizer No. 13, 15, 17 (One each- 3 total)
452	Aortic Valve Neocuspidisation Sterile Templet	Single-Use, individually packaged (Pack of 10)
453	Aortic Valve Neocuspidisation Sizer Common Kit	 Disposable, Sizers 19, 21,23, 25, 27, 29 (Total 6 sizes) Templates for molding leaflets (one Each) Pericardium Fixation Plates (one) Petri Dish- One 0.6% Glutaraldehyde Solution Tray- One Leaflet Size Mark Sheet (One)
454	Aortic Valve Neocuspidisation Sizer Disposable Kit	AVNeo Small Sizer 13, 15, 17 (3 sizes) One each
455	Aortic Valve Neocuspidisation Sizer Disposable Kit	AVNeo Large Sizer 31, 33, 35 (3 sizes) one each
456	Gauze Pieces with American Folding	Sterile, Cotton Gauze swab with pack of 5 swab, 12 Ply, Folded in such a way that no loose thread should be found, Bleached with HydrogenPeroxide. Radio-opaque Thread must be woven in the Gauze piece Size 7.5x7.5 cm
457	Gauze Pieces with American Folding	Sterile, Cotton Gauze swab with pack of 5 swab, 12 Ply, Folded in such a way that no loose thread should be found, Bleached with HydrogenPeroxide. Radio-opaque Thread must be woven in the Gauze piece Size 10x10 cm
458	Gauze Pieces with American Folding	Sterile, Cotton Gauze swab with pack of 5 swab, 12 Ply, Folded in such a way that no loose thread should be found, Bleached with HydrogenPeroxide. Radio-opaque Thread must be woven in the Gauze piece Size5x5 cm