NEIGRIHMS

पूर्वोत्तर इंदिरा गांधी क्षेत्रीय स्वास्थ्य एवं आयुर्विज्ञान संस्थान
North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences
(भारत सरकार, स्वास्थ्य एवं परिवार कल्याण मंत्रालय, स्वायत्त संस्थान)
(An Autonomous Institute, under Ministry of Health and Family Welfare, Government of India)
निदेशक ब्लॉक, मावड़ियांगड़ंग, शिलांग -793 018 (मेघालय) /Director's Block, Mawdiangdiang, Shillong -793 018 (Meghalaya)
Store & Procurement Section - Email: storeneigrihms@gmail.com; Tele Fax: (0364) 2538032; Website: neigrihms.gov.in

F. No: NEIGR/S&P/C -01/2018-2019/Pt I

Notice Inviting Tender
Online tendering through CPPP (https://eprocure.gov.in/cppp)

Tender Details:

Tender Enquiry No:	NEIGR/S&P/OT/E -04/2023-2024
Tender Description:	Processing of Stents, Devices, Consumables & Accessories, Implants, Guidewires, Catheters, etc, on case to case consignment basis, on rate contract for a period of two years, extendable upto 6 months or till the finalization of the next tender, whichever is later, for department of Cardiology.

Bid Document Downloading Start Date:	14:00 hours of 21.02.2024
Pre-Bid Conference and Clarification Session:	16:00 hours of 01.03.2024
Last Date and Time for Submission of Bid Document Online:	14:00 hours of 21.03.2024
Last date and Time of Receipt of Earnest Money Deposit (Hard Copy):	14:00 hours of 21.03.2024
Date and Time of Opening of Techno -Commercial Bids:	14:30 hours of 22.03.2024
Cost of Earnest Money Deposit (EMD):	Not Applicable
Tentative schedule after completion of Technical Commercial Evaluation subject to inputs from respective Committee /Authority:	60 days from the date of opening of Techno – Commercial Bid
Tentative schedule for awarding of contract including institutional requirement, justification of cost and on approval of the Competent Authority.	60 days from the date of opening of e- Price Bid /BOQ

Bidders /Tenderers can download the tender /bid document from Central Public Procurement Portal website at www.eprocure.gov.in Bidders /Tenderers are required to submit their bid online by uploading all the relevant documents through www.eprocure.gov.in. For further details regarding tender amendment /date extension, please visit website: www.eprocure.gov.in. Tender document can also be downloaded from the Institute's website at www.neigrihms.gov.in

Notice Inviting Tenders (NIT)

Online tenders, in two-bid system, are invited by Director, NEIGRIHMS, Shillong for processing of stores /items for the Institute, as per enclosed specification and related terms and conditions.

1. Bidders /Tenderers would be required to register on the Central Public Procurement Portal at www.eprocure.gov.in, using a valid Digital Signature Certificate (DSC) and valid email address to be able to participate in the bidding process. On registration with the Portal they will be provided with a user id and password by the system through which they can submit their bids online.
2. Digital Signature Certificate (DSC) may be obtained from any authorized agencies registered with the Certifying Authority (CA), through National Informatics Center (NIC) in India.
3. Bidders /Tenderers can download the bid document from Central Public Procurement Portal website at www.eprocure.gov.in Bidders /Tenderers are required to submit the bid online by scanning and uploading all the relevant documents through www.eprocure.gov.in
4. Tender document can also be downloaded from the Institute's website at www.neigrihms.gov.in For further details regarding Amendment /Addendum /Extension please visit website: www.eprocure.gov.in and www.neigrihms.gov.in
5. Earnest Money Deposit (EMD) and Performance Security:–
    - Notification No: F.9/4/2020 -PPD; dated: 12.11.2020, issued by Ministry of Finance, Department of Expenditure (Procurement Policy Division), Government of India, regarding submission of Bid Security /EMD and Performance Security Deposit.
    - In compliance to the above order by the Ministry, it is proposed that henceforth or till further orders, no provision regarding EMD /Bid Security will be kept in the bidding document and in lieu of EMD /Bid Security, a signed 'Bid Security Declaration' shall have to be submitted by the participating Bidders /Tenderers along with the techno –commercial bid. Bidders /Tenderers who violated the signed declaration, like withdraws or amends its tender or impairs or derogates from its tender in any respect, within the period of validity of the tender, or if it comes to a notice that the information /documents furnished in the tender is incorrect, false, misleading or forged, shall be suspended for a period of one year, from the date of finalization of its tender.
    - In respect of Performance Security deposit, the percentage will be taken at 3% of the total value of contract, as indicated in the order.
6. Bidders/Tenderers need to scan and upload the required documents like Goods and Service Tax (GST) registration, PAN Number/Card, other valid document regarding the existence and registration of the firm along with the Techno-commercial bid.
7. The technical bids will be opened online by a committee of members duly constituted for the purpose at the time and date as specified in the tender document. All statements, documents, certificates, Affidavits, etc uploaded by the bidders will be verified and downloaded for technical evaluation and the result of technical bid evaluation will be displayed on www.eprocure.gov.in.in which can be seen by all bidders who participated in the tender.
8. The bidders should download the **BoQ.xls** from CPP Portal and filled in the blank spaces provided for mentioning the name of bidder and rates. Bidders need not modify any other text or background shown in the BOQ template or replace it with any other copy of same **BOQ in .xls format**. NEIGRIHMS /Central Public Procurement Portal (www.eprocure.gov.in) will accept the BOQ template only and hence the rate should not be quoted in any other place except BOQ template.
9. The Financial bid (price bid) i.e. Bill of Quantity (BOQ) of only technically qualified bidders will be opened online by a committee of members and the result will be displayed on the www.eprocure.gov.in which can be seen by all bidders who participated in the tender.
10. No work will be allotted to Non-tribal bidder, contractors, Suppliers, stockists, bonded warehouse, private carriage contractors, cooperative societies etc except under a valid trading license issued by the Khasi Hills Autonomous District Council, Shillong.
11. The firm has to give an affidavit duly attested by the Notary Public (in original) on a non-judicial stamp paper of Rs. 10/= that the firm is not supplying the same item at lower rates quoted in this tender to any Government/Private organization or any other institution during past one year, as per "FALL CLAUSE" adhered by DGS & D and other Government agencies.
12. The firm has to give an affidavit duly attested by the Notary Public (in original) on a non-judicial stamp paper of Rs. 10/= that there is no vigilance/CBI /FEMA case pending against the firm/supplier.
13. At any time prior to the date of submission of bid, Director, NEIGRIHMS may, for any reason, whether at his own initiatives or in response to a clarification from a prospective bidder, modify the bidding documents by an amendment. All prospective bidders/tenderer who have received the bidding document will be

notified of the amendment in writing and the amendment shall be binding on them. In order to provide reasonable time to take the amendment into account in preparing the bid. Director, NEIGRIHMS, may at his discretion, extends the date and time for submission of bids.

14. The tendered rates and the validity of bids shall be for a period of three years, extendable upto 6 months, or till the finalization of the next tender, whichever is later.
15. With a view to encourage 'Make in India' and promote manufacturing and production of goods and services in India, preference will be given to domestically manufactured products, as per Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, Government of India Notification No: P -45021/2/2017-PP (BE-II); dated: 04.06.2020 –revised. *(Affidavit attached herewith)*
16. Bidders shall abide to the Public Procurement Order No: 1, 2 & 3, issued vide Notification No: F.No.6/18/2019 –PPO; dated: 23.07.2020 /24.07.2020, by Ministry of Finance, Department of Expenditure (Public Procurement Division), New Delhi and with amendment /modification from time to time.
17. NEIGRIHMS reserves all rights to make any changes in terms and conditions of the tender and also to reject any or all bids without assigning any reason thereof.
18. Settlement of disputes – Director, NEIGRIHMS or his authorized representative shall be the final authority in all disputes and decision will be binding on all concerned. The jurisdiction in respect of settlement of disputes in Stores & Civil contracts shall be as per the Commercial Courts, Commercial Division and Commercial Appellate Division of High Courts (Amendment) Ordinance 2018, wherein the provision for pre –institution mediation, has been made mandatory in respective cases by the parties to the disputes. The mediation shall be under the authorities constituted under Legal Service Authority Act, 1987.

For any clarification and further details please contact @ Telephone No: 0364 -2538032 or contact in person during office hours.

Sd/-
Stores & Procurement Officer,
For and on behalf of Director, NEIGRIHMS, Shillong

General Terms and Conditions (GIT)

NEIGRIHMS is a super specialty medical institution for post graduate education, research and customer care services. The Institutes hospital in the permanent complex at Mawdiangdiang, Shillong-793018, presently has a capacity of around 500 beds.

Offers should be based in 2 e-bid systems –

i) Technical and Commercial e-bid.
ii) Price E-bid (BOQ).

Technical Bid: - To qualify in the Technical Bid, the bidder should have the minimum eligibility criteria and the bidder in this regard must submit the required documents mentioned in support of their eligibility criteria.

Price e -Bid: e -Price Bid [as per BOQ] must be quoted as per format specified, failing which tender shall be summarily rejected.

Technical Evaluation:

- Detailed technical evaluation shall be carried out by Technical Evaluation Committee pursuant to conditions in the tender document to determine the substantial responsiveness. 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 required documents have been submitted and whether the bids are in order.
- 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.
- Financial bids of only those bidders who qualify the technical criteria will be opened provided all other requirements are fulfilled.
- NEIGRIHMS shall have right to accept or reject any or all tenders without assigning any reasons thereof.

1. The contract for supply of the stores /items is valid for a period of two years from the date of award. It may be made clear that the said contract period may only be extended on the option of the Director, NEIGRIHMS, if situation warrants, till the finalization of the next tender, if required. However, the Institute reserves the right to terminate the contract with one month notice.
2. The terms and conditions of the tender and the agreement executed will be binding on the bidder/contractor/agency. This offer is being issued in accordance with the terms & conditions of NEIGRIHMS /Government of India and in the manner specified herein shall operate to create a specific contract between the agency (with whom the contract referred to) on one part and NEIGRIHMS, Shillong, on the other part.
3. At any time prior to the date of submission of bid, Director, NEIGRIHMS may, for any reason, whether at his own initiatives or in response to a clarification from a prospective agency, modify the bidding documents by an amendment. All prospective bidders will be notified of the amendment online and the amendment shall be binding on them. In order to provide reasonable time to take the amendment into account in preparing the bid. Director, NEIGRIHMS, may at his discretion, extends the date and time for submission of bids.

4. **Eligible Criteria:** Essential conditions for bidders /tenderers:

- The tenderer must be a manufacturer. In case the manufacturer does not quote directly, they may authorise their authorized agent as per proforma of Manufacturer authorization form as given in the tender document to quote and enter into a contractual obligation

- The Indian agent must have adequate experience of execution of similar supplies in Government Hospitals /Private Hospitals. Necessary supporting documents like supply orders, award of contract, payment certificate, performance statement, etc. for last three years to this effect must be submitted along with the offer.

- The Tenderers quoting as authorized representative of the manufacturer shall have three years of experience and should obtain documents from principals/manufacturer fulfilling the requirements in respect of taking full responsibility of technical support, service and organizational support.

- The following should also be indicated /submitted by the bidders:-

- Name of the Principal /Firm or its Manufacturer – Make and Model
- Certification of FDA /CE /DCGI, etc as applicable
- Indian /Imported
- Pack size in which the item shall be supplied
- Samples submitted (Yes /No)
- Catalogue /Literature to be submitted in original (Yes /No)
- Quantity – Two sets of each item code number) as mentioned in the item name and specification

Note

"We hereby certify that if at any time, information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchaser."

The Tenderer shall furnish a brief write-up, packed with adequate data explaining and establishing his available capacity/capability (both technical and financial) to perform the Contract (if awarded) within the stipulated time period, after meeting all its current/present commitments.

Notwithstanding anything stated above, the Purchaser reserves the right to assess the Tenderer's capability and capacity to perform the contract satisfactorily before deciding on award of Contract, should circumstances warrant such an assessment in the overall interest of the Purchaser.

The Purchaser reserves the right to ask for a free demonstration of the quoted item at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications, before the opening of the Price bid.

5. Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 1 crore (Rupees One crore only) and Audited Balance Sheets /Turnover certificate from a Chartered accountant or ITCC should be submitted along with the bidding document.
6. Should have US FDA /CE /DGCI /BIS /CDSCO approved certification standard approved products or as specified in the technical specification. Brochure, original technical catalogue with detailed specification and picture of the product offered, if relevant.
7. 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.
8. Bidders/tenderer undertake to sign the contract agreement within 15 (fifteen) days from the issue of the letter of acceptance /order.
9. **Corrupt or Fraudulent Practices /Code of Integrity:**

It is required by all concerned namely the Consignee/Tenderers/Suppliers etc to observe the highest standard of ethics during the procurement and execution of such contracts and to abide by the Code of Integrity Act, as per GFR 2017. In pursuance of this policy, the Purchaser: -

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

"corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and

"fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;

Will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the purchaser if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.

10. The Goods & Services to be provided by the supplier under this contract shall conform to the technical specifications and quality control parameters mentioned in `Technical Specification' and 'Quality Control Requirements'

11. **Packing and Marking -** The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transhipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final

destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.

The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.

12. **Packing Instructions:**

Unless otherwise mentioned in the Technical Specification and Quality Control Requirements, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

a. contract number and date
b. brief description of goods including quantity
c. packing list reference number
d. country of origin of goods
e. consignee's name and full address and
f. supplier's name and address

13. If the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract /purchase order, the purchaser shall, without prejudice to other rights and remedies available to the purchaser under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached purchaser may consider termination of the contract

14. In case of Stores with life:
a. Stock should be supplied to this Institute from the latest batch and such stock should have a minimum life period of two years, depending upon the normal potency prescribed thereof.
b. In the event of such stores not being utilized within their life period, the bidder shall replace the unutilized unexpended stocks by fresh stock without any extra cost.

15. The successful bidder shall 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.

16. 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 Institute 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.

17. The "Hospital User Charges" for the services, procedure shall be remitted to the respective payment counter/ MRD, prior to the commencement of the service/ procedure, receipt / e-receipt shall be verified by the Nursing Officer/ Senior Most Technicians on duty and concerned Faculty). Copy of the financial record shall all be retained in the respective departmental and MRD records.

18. The cost of consumables, accessories, implantable devices etc "on consignment basis" shall be recovered on case-to-case basis, as per notified prevailing rates through open e-tender rate contract/ GeM, which shall be available with the department, MRD, Hospital Administration and the Institute's website.

19. The cost of consumables, accessories, Implantable devices, etc 'on consignment basis' shall be remitted by the beneficiary to Bank of Baroda, Mawdiangdiang (S/B Account no. 30270100005127; IFSC Code: BARBOMAWDIA; Name: NEIGRIHMS Hospital Revolving Fund") by Challan or RTGS, prior to the commencement of the procedure. Receipt / e-receipt shall be verified by the Nursing Officer/ Senior Most Technicains on duty and concerned Faculty. The challans under "NEIGRIHMS Hospital Revolving Fund' shall be available with the stores, user department and on the website of the Institute. The same can be deposited with the consent of user department /stores to Bank of Baroda, NEIGRIHMS campus branch by

Challan or RTGS. Copy of the receipt/ e-receipt of financial transaction shall be retained in the respective department and a copy forwarded by the department to Central Medical Store / MRD for records.

20. The Department should maintain a log book of stores, assistive devices, instrumentation set, service details, equipment, etc provided to the department by the rate contracted vendor in order to fulfill the medical procedures as may be required/ certified by the Head of department/ Faculty In charge. All details in regard to the vendor/ supplier name, address, contact no, stores provided with cost, warranty period, services provided, repair and maintenance requirement should be clearly recorded.

21. In the process of replenishment of stores thereafter, the Pharmacist / Superintendent Pharmacist , Central Medical Stores shall verify receipt/ e-receipt/challan the procedure/services performed in the respective department, cost of stores utilized from the " consignment basis /buffer stock" as per record and the inventory of the user department shall be processed for replenishment as per notified prevailing rates through open e-tender rate contract/ GeM, with certification of the concerned Faculty in charge and MS/DMS. The Pharmacist /Superintendent Pharmacist and concerned department shall ensure receipt of stores of the quantity required as per specifications, based on usage. Pharmacist/ Storekeeper will take necessary steps to replenish stocks well in time to avoid any difficulty in supply on account of any item going out of stock.

TENDER FORM

Date_____

To
_____
_____
_____

(Complete address of the purchaser)

Ref. Your TE document No. _____dated _____

We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No. _____, dated _____ (*if any*), the receipt of which is hereby confirmed. We now offer to supply and deliver_____ *(Description of goods and services)* in conformity with your above referred document for the sum indicated in the price bid, attached herewith and made part of this tender.
If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.
We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form for due performance of the contract.
We agree to keep our tender valid for acceptance as required with modification, if any or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.
We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.
We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.
We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum if any

_____
(Signature with date)
_____

(Name and designation)
Duly authorised to sign tender for and on behalf of
_____
_____

MANUFACTURER'S AUTHORISATION FORM

To,
The Director
North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences
Director's Block, Mawdiangdiang, Shillong -793 018 (Meghalaya)

Dear Sir,

Ref: Your Bid No _____ dated _____

We, _____ who are proven and reputable manufacturers of_____ (name and description of the goods offered in the bid) having factories at_____, hereby authorise Messrs_____(name and address of the agent) to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred bid for the above goods manufactured by us.

We also state that we are not participating directly in this bid for the following reason(s): _____ (please provide reason here).

We further confirm that no supplier or firm or individual other than Messrs. _____ (name and address of the above agent) is authorised to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred bid for the above goods manufactured by us.

We also hereby extend our full warranty, CAMC as applicable, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this bid.

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorized agent and the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.

We also confirm that the price quoted by our agent shall not exceed the price which we would have quoted directly"

Yours faithfully,

[Signature with date, name and designation]
for and on behalf of Messrs_____
[Name & address of the manufacturers]

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 sent.

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

I_____S/o, D/o, W/o_____, Resident of _____do hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the policy of Government of India issued vide Notification No: _____. That the information furnished hereinafter is correct to best of my knowledge and belief and I undertake to produce relevant records before the procuring entity or any authority so nominated for the purpose of assessing the local content.

That the local content for all inputs which constitute the said stores /items has been verified by me and I am responsible for the correctness of the claims made therein.

That in the event of the domestic value addition of the product mentioned herein is found to be incorrect and not meeting the prescribed value-addition norms, based on the assessment of an authority so nominated by the Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Government of India for the purpose of assessing the local content, action will be taken against me as per Order No. P45021/2/2017- PP (BE -II) dated 04.06.202.

I agree to maintain the following information in the Company's record for a period of 8 years and shall make this available for verification to any statutory authority:-

i) Name and details of the Domestic Manufacturer (Registered Office, Manufacturing unit location, nature of legal entity)
ii) Date on which this certificate is issued
iii) Medical devices for which the certificate is produced
iv) Procuring entity to whom the certificate is furnished
v) Percentage of local content claimed
vi) Name and contact details of the unit of the manufacturer
vii) Sale Price of the product
viii) Ex-Factory Price of the product
ix) Freight, insurance and handling
x) Total Bill of Material
xi) List and total cost value of inputs used for manufacture of the medical device
xii) List and total cost of inputs which are domestically sourced. Value addition certificates from suppliers, if the input is not in- house to be attached.
xiii) List and cost of inputs which are imported, directly or indirectly

For and on behalf of (**Name of Firm/Entity)** Authorized signatory
(To be duly authorized by the Board of Director)

BID SECURITY DECLARATION FORMAT

Date: _____ Tender No. _____

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because
I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed In the capacity of: : (insert signature of person whose name and capacity are shown) (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing) Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

Check List of Certificates/Documents required to be submitted along with the Techno Commercial Bid:

The tenderer are advised to submit the following certificates under the category of "**Vital documents"** invariably along-with Techno-Commercial Bid. If these documents are not submitted/ conditions not met, the quotation /bid shall be summarily rejected and no further correspondence, in this regard, shall be entertained.

a. Violation of Two-Bid System
b. Bid Security Declaration
c. GST Registration Certificate, PAN Card, Registration Certificates regarding existence of the Firm and Trading License on Award of Contract
d. Experience Certificate /Past Supply Orders
e. Manufacturer's Authorisation
f. Fall Clause Declaration
g. Performance Statement, Turnover /Financial Statement
h. Non-Black Listing /CBI Declaration
i. Affidavit regarding Local Content
j. Detailed Brochure showing specification details for Technical Evaluation by the Technical Committee

Technical Specification:

Sl. No.	Item Description	Company /Manufacturers	Remarks
1	**Group –A1 (Consumables & Accessories, etc)**		
1.02	Puncture Needle for Vascular Access • 18G • 6-7.5 cm long • 0.038 inch guide wire compatible • Should be supplied individually packed • Needle should have protected plastic tube covering		
1.02	Puncture Needle Dedicated for Radial Artery Access • 20-22G • 3-5 cm long • 0.021 or 0.025 inch guide wire compatible • Should be supplied individually packed • Needle should have protected plastic tube covering		
1.03	Doppler Puncture Needle (with facility of Detecting Doppler signals of Vascular Structures)		
1.04	Special Puncture Needle with Facility Of Detecting Ultrasound images of Vascular Structures)		
1.05	Introducer Sheath for Adults (Size 4Fr.-9Fr.) (Standard Length) • Sizes 4French/5 French /6 French /7 French /8 French /9 French. • 10-11 cm long • 0.035 or 0.038 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		
1.06	Introducer Sheath with Puncture Needle for Adults (Size 4Fr.-9Fr.) (Standard Length) • Sizes 4French/5 French /6 French /7 French /8 French /9 French. • 10-11 cm long • Pack must include 18 G, 6-7.5 cm long puncture needle • 0.035 or 0.038 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		
1.07	Introducer Sheath for Adults (Size 10Fr.-11Fr.) (Standard Length) • 10Fr.& 11 Fr. • 10-11 cm long • 0.035 or 0.038 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		
1.08	Introducer Sheath for Adults (Size 12Fr. and higher) (Standard Length) • 12Fr/13 Fr./14 Fr. and higher • 10-11 cm long • 0.035 or 0.038 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		

1.09	LONG INTRODUCER SHEATH (20-30 cm long) (Size 5Fr.-9Fr.) • Sizes 5 French /6 French /7 French /8 French /9 French. • Sheath should be between 20-30 cm long • 0.035 or 0.038 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		
1.1	Long Introducer Sheath (20-30 cm long) (Size 10Fr.-11Fr.) • 10French & 11 French • Sheath should be between 20-30 cm long • 0.035 or 0.038 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		
2	**Group –A2**		
2.01	Long Introducer Sheath (20-30 cm long) (Size 12Fr. and higher) • 12Fr./13 Fr./14 Fr. and higher • Sheath should be between 20-30 cm long • 0.035 or 0.038 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		
2.02	Long Introducer Sheath (30-50 cm long) (Size 5Fr.-9Fr.) • sizes 5 French /6 French /7 French /8 French /9 French. • between 30-50 cm long • 0.035 or 0.038 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		
2.03	Long Introducer Sheath (30-50 cm long) (Size 10 Fr.-11Fr.) • sizes of 10 French & 11 French • between 30-50 cm long • 0.035 or 0.038 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		
2.04	Long Introducer Sheath (30-50 cm long) (Size 12 Fr. and higher) • sizes of 12 French/13 French/ 14 French and higher • Between 30-50 cm long • 0.035 or 0.038 inch guide wire compatible with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		
2.05	Extra Long Introducer Sheath (> 50 cm) (Size 5Fr.-9Fr.) • 5 French /6 French /7 French /8 French /9 French. • more than 50 cm long • 0.035 or 0.038 inch guide wire compatible with haemostatic valve to prevent back leak and airaspiration • integral side port with attached 3-way stopcock • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		
2.06	Extra Long Introducer Sheath (> 50 cm) (Size 10 Fr.-11Fr.) • sizes of 10Fr.& 11 Fr. • more than 50 cm long • 0.035 or 0.038 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • integral side port with attached 3-way stopcock • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • with smooth and resistance free insertion		

2.07	Extra Long Introducer Sheath (> 50 cm) (Size 12Fr.and higher) • sizes of 12Fr./13 Fr./14 Fr. and higher • more than 50 cm long • 0.035 or 0.038 inch guide wire compatible with haemostatic valve to prevent back leak and airaspiration • integral side port with attached 3-way stopcock • kink resistant • with dilator-hub lock mechanism to prevent		
2.08	Introducer Sheath Dedicated For Trans radial Access • sizes from 4French/5French/ 6 French/7 French • between 7-11 cm long • 0.021 or 0.025 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • with integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • Should have smooth and resistance free insertion		
2.09	Long Introducer Sheath Dedicated for Transradial Access • sizes from 4French/5French/ 6 French/7 French • between 16-24 cm long • 0.021 or 0.025 inch guide wire compatible • with haemostatic valve to prevent back leak and air aspiration • with integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • Should have smooth and resistance free insertion		
2.1	Transradial Introducer Kit • includes 21 G puncture needle • 0.021 inch introducer guide wire • introducer sheath sizes from 4French/5French/ 6 French/7 French • sheath size between 10-24 cm long		
3	**Group - A3**		
3.01	PTFE Coated Diagnostic Guide Wire - (Regular Length, Regular Stiffness) • Should be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should be between 145-180 cm long • Should be available as straight & J-Shaped tip • Should be available in variable lengths of flexible/floppy end • Should be available in variable J tip sizes • Should be available in fixed as well as movable core		
3.02	PTFE Coated Diagnostic Guide Wire - (Exchange Length, Regular Stiffness) • Should be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should be 240-300 cm long • Should be available as straight or J-Shaped tip • Should be available in fixed as well as movable core		
3.03	PTFE coated diagnostic 0.032 inch guide wire - (Regular Length, Extrastiff Shaft Strength) -Amplatz type • Should be available in 0.032 inches size • Should be between 145-180 cm long • Should be available as straight & J-Shaped tip		
3.04	PTFE Coated Diagnostic Guide Wire - (Regular Length, Extra-Stiff Shaft Strength) -Amplatz Type • Should be available in 0.035 inches size and higher • Should be 145-180 cm long • Should be available as straight & J-Shaped tip		
3.05	PTFE Coated Diagnostic Guide Wire - (Exchange Length, Extra-Stiff Shaft Strength) -Amplatz Type • Should be available in 0.035 inches size and higher • Should be 240-300 cm long • Should be available as straight or J-Shaped tip		
3.06	PTFE Coated Diagnostic Guide Wire - (Regular Length, Ultra-Stiff Shaft Strength) - Amplatz Super Stiff Type • Should be available in 0.032, 0.035 and 0.038 inches size • Should be between 145-180 cm long • Should be straight or J tipped • Should have extra ordinary or exceptional shaft strength		
3.07	PTFE Coated Diagnostic Guide Wire - (Exchange Length, Ultra-Stiff Shaft Strength) - Amplatz Super Stiff Type • Should be available in 0.032, 0.035 and 0.038 inches size • Should be 240 -300 cm long • Should have extra ordinary or exceptional shaft strength		
3.08	Pigtail Catheter • 4French/5French/6French/7French/8French size • Should be available in various lengths		

3.09	Angled Pigtail Catheter • 4French/5French/6French/7French/8French size • Should be available in various lengths		
4	**Group-A4**		
4.01	Pigtail Catheter with Marker • 4French/5French/6French/7French/8French size • Should be available in various lengths		
4.02	Judkins Catheter • 4French/5French/6French/7French/8French size Left and Right Judkins catheters in various standard curves and lengths.		
4.03	Multipurpose Catheter • 4French/5French/6French/7French/8French size multipurpose catheter in various standard curves and lengths.		
4.04	Amplatz Catheter- 4French/5French/6French/7French/8French Amplatz left (AL) and Amplatz right (AR) catheter in various standard curves and lengths.		
4.05	Internal Mammary Catheter – • 4French/5French/6French/7French/8French in various standard curves and lengths		
4.06	By- Pass Graft Catheters- • 4French/5French/6French/7French/8French in various standard curves and lengths.		
4.07	Transradial Diagnostic Coronary Catheters - • 4French/5French/6French/7French diagnostic coronary catheters of various curves and lengths dedicated for trans radial coronary angiography		
4.08	NIH Catheter- • 4French/5French/6French/7French/8French in various standard curves and lengths.		
4.09	Cournard Catheter- • 4French/5French/6French/7French/8French in various standard curves and lengths.		
4.1	Thermo Dilution Catheter • Should be compatible with the available system		
5	**Group –B1**		
5.01	PTCA Inflation Device • efficient locking system to maintain high pressure • rapid inflation and deflation • clear barrel for easy visualization of de-bubbling • luminescent analog pressure gauge (up to 30 atm) • ergomatric and user friendly hand held design		
5.02	TUOHY BORST (Haemostatic Y-Connector) FOR PTCA- Rotating Mechanism • Should accommodate virtually all interventional devices • large thumb wheel for easy maneuverability • luer connector at the guiding catheter end • rotating adapter at the guiding catheter end		
5.03	TUOHY BORST (Haemostatic Y-Connector) for PTCA- Push Mechanism • Should accommodate virtually all interventional devices • luer connector at the guiding catheter end • rotating adapter at the guiding catheter end • Should have bleed back safety mechanism • stepwise control for open, semi-open and closed position		
5.04	TUOHY BORST- Double (Haemostatic Y-Connector) for bifurcation PTCA • two ports for insertion of interventional devices • luer connector at the guiding catheter end • rotating adapter at the guiding catheter end		
5.05	Large Bore TUOHY BORST (Haemostatic Y-Connector)		
5.06	PTCA Guide Wire Torquer • should hold guide wires from 0.009-0.018 inches • ergomatric and user friendly design		
5.07	PTCA Guide Wire Insertion Needle • 20 G size • 10 -12 cm long • Should hold up to 0.018 inch guide wire		
5.08	PTCA Guide Wire Accessory Kit Containing • Haemostatic Y connector • PTCA guide wire torquer • PTCA guide wire insertion needle		
5.09	PTCA Inflation Device with Accessory Kit Containing • PTCA inflation device • Haemostatic Y connector • PTCA guide wire torquer • PTCA guide wire insertion needle		
5.1	Control Syringes for PTCA • clear, glass-like plastic syringe • markings up to 10 or 12 ml • palm and finger assisted easy maneuverability		

	• Plunger should have resistance free movement • Should have a stopper with 0.5 ml reserve		
6	**Group -B2**		
6.01	Connector Tubing (Connecting between TOUHY BORST and manifold) • Should be between 20- 50 cm • Should have large I.D for easy flow of contrast • Should take high pressure • Should be flexible • Should have male and female hubs		
6.02	Manifold for PTCA with two side ports • large I.D for easy flow of contrast • smooth resistance free unidirection handle/knob		
6.03	Manifold for PTCA with three side ports • large I.D for easy flow of contrast • smooth resistance free unidirection handle/knob		
6.04	Manifold with Attached Tubings • Two side port manifold • One connector tubing for connecting Manifold to TuohyBorst • One luer lock control syringe (10 or 12 ml) for contrast injection • One large bore tubing (with flow regulating knob) for withdrawing contrast • One three way stop-cock		
6.05	PTCA Kit: Should contain the following items • One TuohyBorst (Haemostatic Y- connector) • One two side-port Manifold • One connector tubing for connecting Manifold to TuohyBorst • One luer lock control syringe having markings up to 10 or 12 ml for contrast injection • One PTCA guide wire insertion needle • One PTCA guide wire Torquer • One large bore contrast tubing (with flow regulating knob) for attachment between contrast bottleand manifold side port • One pressure monitoring line (150 cm) • One three way stop-cock		
6.06	Femoral Compression Devices- Disc/Dome based Compression		
6.07	Domes of Femoral Compression Device		
6.08	PTCA Guiding Catheter- • Sizes of 5Fr, 6Fr, 7Fr and 8Fr. • all possible shapes including catheters: Judkins/Femoral left and right, Extra back up support,Amplatz, Voda, Multipurpose, Hockey stick, Transradial interventions, Bypass-graft/LIMAinterventions and others • Should also have availability of smaller length catheters (90 cm) • Should also have availability of catheters with side holes • Should also have short tip catheter		
6.09	Large Lumen (I.D) PTCA Guiding Cathete (6 french size) • Must have I.D of more than 0.070 inch • Should have all possible shapes including catheters: Judkins/Femoral left and right, Extra back upsupport, Amplatz, Voda, Multipurpose, Hockey stick, Transradial interventions, Bypassgraft/LIMA interventions, short tip catheters and others		
6.1	Large Lumen (I.D) PTCA Guiding Cathete (7 french size) - • Must have I.D of more than 0.080 inch • Should have all possible shapes including catheters: Judkins/Femoral left and right, Extra back upsupport, Amplatz, Voda, Multipurpose, Hockey stick, Transradial interventions, Bypassgraft/LIMA interventions, short tip catheters and others		
7	**Group -B3**		
7.01	PTCA Guiding Catheter for DCA		
7.02	PTCA Guide Wire -Regular Length, Regular Shaft Support and Floppy Tip		
7.03	PTCA GUIDE WIRE -REGULAR LENGTH, EXTRA- SUPPORT SHAFT AND FLOPPY TIP		
7.04	PTCA GUIDE WIRE - EXCHANGE LENGTH		
7.05	PTCA GUIDE WIRE- HYDROPHILIC COATED, REGULAR LENGTH		
7.06	PTCA GUIDE WIRE- HYDROPHILIC COATED, EXCHANGE LENGTH		

7.07	SPECIAL PTCA GUIDE WIRES WITH ELASTINITE CORE AND STAINLESS STEEL		
7.08	SHAFT SUPPORT • both regular and exchange length wires • Should have wires with varying degree of shaft support		
7.09	SPECIAL PTCA GUIDE WIRE WITH DUAL COATING • Should have distal hydrophilic coating and proximal hydrophobic coating • Should have wires with variable tip stiffness and variable shaft support		
7.1	SPECIAL PTCA GUIDE WIRE WITH MULTIPLE MARKERS FOR MEASURING THE LENGTH OF STENOTIC SEGMENT		
7.11	PTCA GUIDE WIRES FOR CHRONIC TOTAL OCCLUSION (CTO)		
8	**Group -B4**		
8.01	SPECIAL NON-TAPERING PTCA GUIDE WIRES FOR CTO WITH PLATINUM IRIDIUMDISTAL SPRING COIL • Wires available in variable distal tip stiffness, measured in terms of grams		
8.02	SPECIAL TAPERING PTCA GUIDE WIRES FOR CTO WITH PLATINUM IRIDIUMDISTAL SPRING COIL • Wires available in variable distal tip stiffness, measured in terms of grams		
8.03	SPECIAL TAPERING PTCA GUIDE WIRES FOR CTO WITH HYDROCOATHYDROPHILICCOATING • Wires available in variable distal tip stiffness		
8.04	• SPECIAL HYDROPHILIC PTCA GUIDE WIRES FOR CTO WITH SUPER ELASTICALLOY (Ni-Ti) CORE Polyurethrane hydrophilic distal coating		
8.05	SPECIAL PTCA GUIDE WIRES FOR CTO, DEDICATED FOR RETROGRADEAPPROACH		
8.06	EXTENSION (DOC) WIRE FOR APPROVED REGULAR LENGTH PTCA GUIDE WIRES		
8.07	PENETRATION CATHETERS FOR CTO HAVING ROTATIONAL BLUNTPENETRATION		
8.08	PENETRATION DEVICES FOR CTO BY BLUNT DISSECTION USING ACUATING JAWS		
8.09	PTCA GUIDE WIRE WITH BIDIRECTIONAL DEFLECTABLE DISTAL TIP		
8.1	PTCA CATHETER WITH DEFLECTABLE DISTAL END • should guide the direction of PTCA guide wire		
9	**Group -B5**		
9.01	PTCA BALLOON (SEMI-COMPLIANT) - • monorail (rapid exchange) and over-the-wire (OTW) balloons • available in all sizes and lengths		
9.02	PTCA BALLOON (NON-COMPLIANT) - • quote both monorail (rapid exchange) and OTW balloons • available in all sizes from 2- 4.0 mm, variable lengths • should have a very high rated burst pressure		
9.03	SPECIAL LARGE PTCA BALLOONS OF MORE THAN 4 MM • variable lengths		
9.04	SPECIAL PTCA BALLOON CATHETER WITH LOW CROSSING PROFILE • Must have crossing balloon profile of less than 0.025 inches		
9.05	SPECIAL PTCA BALLOON CATHETER OF LESS THAN 1.5 MM • Should be available in variable balloon lengths		
9.06	SPECIAL OTW PTCA BALLOON FOR SEPTAL ABLATION FOR HOCM		
10	**Group -B6**		

10.01	PTCA BALLOON FOR RETROGRADE APPROACH OF CTO • Should be available in both regular and long lengths for retrograde approach		
10.02	CUTTING BALLOON FOR PTCA HAVING MICROSURGICAL ATHEROTOMES(BLADES)		
10.03	SCORING BALLOON CATHETER FOR PTCA		
10.04	DUAL WIRE PTCA DILATATION CATHETER		
10.05	DRUG ELUTING PTCA BALLOON USING MATRIX TECHNOLOGY		
10.06	PTCA BIFURCATION BALLOON		
10.07	STAINLESS STEEL CORONARY STENTS, PREMOUNTED ON BALLOON –		
10.08	STAINLESS STEEL CORONARY STENTS, PREMOUNTED ON BALLOON -		
10.09	STAINLESS STEEL CORONARY STENTS PREMOUNTED ON BALLOON		
10.1	COBALT CHROMIUM BALLOON CORONARY STENTS, PREMOUNTED ONBALLOON –		
10.11	Coronary Stents : Non-Medicated Coronary Stent Balloon mounted , Non-Medicated Stent on Stainless Steel platform Balloon mounted , Non-Medicated Stent on Non-Stainless Steel platform with uniform ultrathin struts (up to 60 Microns) Balloon mounted , Non-Medicated Stent on Non-Stainless Steel platform with uniform thin struts (61 to 80 Microns) Balloon mounted , Non-Medicated Stent on Non-Stainless Steel platform with struts thickness (> 80 Microns) Balloon mounted , Non-Medicated Stent on Non-Stainless Steel platform for coronary artery diameters all sizes including 4.5mm or more. Balloon mounted , Non-Medicated Stent on Non-Stainless Steel platform for coronary artery disease all lengths including 8mm or less.		

10.12	Coronary Stents : Medicated Coronary Stent -Sirolimus Eluting Balloon mounted, Sirolimus eluting stent with biodurable polymer on stainless steel platform. Balloon mounted, Sirolimus eluting stent with biodurable polymer on a Non-stainless steel platform. Balloon mounted, Sirolimus eluting stent with biodegradable polymer on stainless steel platform. Balloon mounted, Sirolimus eluting stent with biodegradable polymer on CoCr Platform with hybrid stent design and uniform thin struts upto 65 micron, and diameter from 2.25 to 4mm of varying lengths from 10 to 40 mm. Balloon mounted, Sirolimus eluting stent with biodegradable polymer on Non-stainless steel platform with uniform thin struts (61-80 microns) Balloon mounted, Sirolimus eluting stent with biodegradable polymer on Non-stainless steel platform with uniform strut thickness greater than 80 microns. Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform ultrathin struts (upto 60 microns) and diameters of 2.0mm to 4.00 mm of varying lengths. Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform thin struts (61 -80 microns) and diameters of 2.0mm to 4.00 mm of varying lengths. Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform strut thickness greater than 80 microns and diameters of 2.0mm to 4.00 mm of varying lengths. Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform ultrathin struts (upto 60 microns) and diameters of 2.25mm to 4.5 mm of varying lengths. Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform ultrathin struts (61-80 microns) and diameters of 2.25mm to 4.5 mm of varying lengths. Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform strut thickness greater than 80 microns and diameters of 2.25mm to 4.5 mm of varying lengths. Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform ultrathin struts (upto 60 microns) of varying lengths including stent length of 8mm or less. Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform ultrathin struts (61-80 microns)of varying lengths including stent length of 8mm or less Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform strut thickness greater than 80 microns and of varying lengths including stent length of 8mm or less Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform ultrathin struts (upto 60 microns) of varying lengths including stent length of 48mm or more Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform ultrathin struts (61-80 microns) of varying lengths including stent length of 48mm or more Balloon mounted, Sirolimus eluting stent on Non-stainless steel platform with uniform strut thickness greater than 80 microns and of varying lengths including stent length of 48mm or more Balloon mounted , polymer free, Sirolimus eluting stent		
10.13	Coronary Stents : Medicated Coronary Stent -Evorolimus/Zotarolimus Eluting Balloon mounted, Everolimus/Zotarolimus eluting stent with biodurable polymer on stainless steel platform. Balloon mounted, Everolimus/Zotarolimus eluting stent with biodurable polymer on Non-stainless steel platform. Balloon mounted, Everolimus/Zotarolimus eluting stent with biodurable polymer on Non-stainless steel platform and diameters of 2.25mm or less to 4.00mm or more of varying lengths. Balloon mounted, Everolimus/Zotarolimus eluting stent with biodegradable polymer on Non stainless steel platform. Balloon mounted, Everolimus eluting stent with biodegradable polymer on CoCr platform with hybrid stent design and uniform ultrathin struts (upto 63 micron) and diameters of 2.25 to 4.00mm. Balloon mounted, Everolimus/Zotarolimus eluting stent with biodegradable polymer on Non-stainless steel platform with uniform thin struts (61-80 microns) Balloon mounted, Everolimus/Zotarolimus eluting stent with biodegradable polymer on Non-stainless steel platform with struts thickness greater than 80 microns. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with ultra thin struts (upto 60 microns) and diameters of 2.0mm to 4.0mm of varying lengths. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with uniform thin struts (61-80 Microns) and diameters of 2.0mm to 4.0mm of varying lengths. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with uniform strut thickness greater than 80 microns and diameters of 2.0mm to 4.0mm of varying lengths. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with ultra thin struts (upto 60 microns) and diameters of 2.25 mm to 4.5mm of varying lengths.		

	Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with uniform thin struts (61-80 Microns) and diameters of 2.25 mm to 4.5mm of varying lengths. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with uniform strut thickness greater than 80 microns and diameters of 2.25 mm to 4.5mm of varying lengths. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with ultra thin struts (upto 60 microns) of varying lengths including stent length 8mm or less. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with uniform thin struts (61-80 Microns) of varying lengths including stent length 8mm or less. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with uniform strut thickness greater than 80 microns and of varying lengths including stent length 8mm or less. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with ultra thin struts (upto 60 microns) of varying lengths including stent length 48mm or more. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with uniform thin struts (61-80 Microns) of varying lengths including stent length 48mm or more. Balloon mounted, Everolimus/Zotarolimus eluting stent on Non-stainless steel platform with uniform strut thickness greater than 80 microns and of varying lengths including stent length 48mm or more. Balloon mounted , polymer free, Everolimus/Zotarolimus eluting stent		
10.14	Coronary Stents : Medicated Coronary Stent -Paclitaxel Eluting Balloon mounted, Paclitaxel eluting stent with biodurable polymer on stainless steel platform. Balloon mounted, Paclitaxel eluting stent with biodurable polymer on Non-stainless steel platform. Balloon mounted, Paclitaxel eluting stent with biodegradable polymer on stainless steel platform. Balloon mounted, Paclitaxel eluting stent with biodegradable polymer on Non-stainless steel platform. Balloon mounted, Paclitaxel eluting stent on Non-stainless steel platform and diameters of 2.0mm to 4.0mm of varying lengths. Balloon mounted, Paclitaxel eluting stent on Non-stainless steel platform and diameters of 2.25 mm to 4.5 mm of varying lengths. Balloon mounted, Paclitaxel eluting stent on Non-stainless steel platform of varying lengths including stent length of 8mm or less. Balloon mounted, Paclitaxel eluting stent on Non-stainless steel platform of varying lengths including stent length of 48mm or more.		
10.15	Coronary Stents : Medicated Coronary Stent -Newer Limus analogue (Other than Sirolimus, Everolimus, Zotarolimus) Balloon mounted, newer limus analogue with biodurable polymer on stainless steel platform. Balloon mounted, newer limus analogue with with biodurable polymer on Non-stainless steel platform. Balloon mounted, newer limus analogue with with biodegradable polymer on stainless steel platform. Balloon mounted, newer limus analogue with with biodegradable polymer on Non-stainless steel platform. Balloon mounted, newer limus analogue eluting stent on Non-stainless steel platform and diameters of 2.0mm to 4.0mm of varying lengths. Balloon mounted, newer limus analogue eluting stent on Non-stainless steel platform and diameters of 2.25 mm to 4.5 mm of varying lengths. Balloon mounted, newer limus analogue eluting stent on Non-stainless steel platform of varying lengths including stent length of 8mm or less. Balloon mounted, newer limus analogue eluting stent on Non-stainless steel platform of varying lengths including stent length of 48mm or more. Balloon mounted ,newer limus analogue with abluminal drug coating.		

10.16	Other Coronary Stents Self - expanding Drug Eluting Coronary stent dedicated for bifurcation lesion. Self - expanding Drug Eluting Coronary stent dedicated for side branch access. Balloon mounted Drug Eluting , tapered coronary stents. Balloon mounted Coronary Stents covered with flexible mesh sleeve. Self Expanding drug eluting coronary stents. Balloon mounted, Dual drug coated Drug Eluting Stents. Bioresorbable Coronary vascular scaffold. Coronary Stent graft/Coronary covered stent with sandwich design of variable diameters and lengths. Coronary stent graft/Coronary covered stent of variable diameters and lengths, with single stent design and 5 French guide catheter compatibility. Biodurable Polymers include SIBS(Poly Styrene-b-isobutylene -b styrene), PBMA(Poly-n-butyl methacrylate,PEVA (polyethelene covinyl acetate), PVDF-HFP(Poly vinlidine fluoride hexafluropropylene,0 PC(Phosphoryicholine) Siloxane Copolymer and any other commercially approved biodurable polymer.		
11	**Group-B10**		
11.01	Rotalink Plus (advancer and burr)		
11.02	Rotational Atherectomy Guide Wires		
11.03	Rotaglide Lubricant		
11.04	IVUS Catheter • Should be compatible with available machine		
11.05	Catheter For Virtual Histology • Should be compatible with available machine		
11.06	Catheter For Optical Coherence Refractometry • Should be compatible with available machine		
11.07	Drug Delivery/Infusion Catheter		
11.08	Coronary Probing Catheter		
11.09	Coronary Perfusion Catheter		
11.1	Coronary Trapeer Catheter		
12	**Group--B11**		
12.01	Special Micro -Catheter for CTO Retrograde Approach		
12.02	Catheters with Manual Suction during PTCA		
12.03	Thrombectomy Catheters with Distal Balloon Occlusion Andautomated Suction during PTCA		
12.04	Thrombectomy Catheters with Motorized Cutting and Suction during PTCA		
12.05	Doppler Wire for PTCA		

12.06	Presssure Wire for PTCA		
13	**Group-B12**		
13.01	Embolic protection devices based on filter technology/mechanism		
13.02	Embolic protection devices with distal balloon occlusive technology		
13.03	Embolic protection devices with proximal balloon occlusive technology		
13.04	Arterial puncture closure devices - collagen plug based		
13.05	Arterial puncture closure devices - suture based		
13.06	Disposable femoral compression devices- balloon based compression		
13.07	Compression devices for radial artery- balloon based compression		
13.08	Compression devices for radial artery- strap based compression		
13.09	PTCA guide wire re-entry catheter for CTO		
13.1	Coronary micro catheter-		
14	**GROUP –C** **(Drugs used in Cath Lab during Coronay Interventios)**		
14.01	Injection Nikorandil (2 mg)		
14.02	Injection Bivaluridin		
14.03	Injection Tirofiban		
14.04	Injection Eptifibatide		
14.05	Injection Abciximab		
15	**Group– D1**		
15.01	Puncture Needle for Vascular Access for Paediatric / Neonatal Use • 20-22G • 3-5 cm long • 0.021 or 0.025 inch guide wire compatible • Should be supplied individually packed • Needle should have protected plastic tube covering		
15.02	Intravenous Cannula 'Medicut' Type For Vascular Access • Available in 16, 18, 20, 22 G • Supplied with an attached Luer-lock 2 ml syringe • Individually packed with easy peel off		

15.03	INTRAVENOUS CANNULA FOR VASCULAR ACCESS • Available in 16, 18, 20, 22 G • 20 G should allow the passage of 0.025 hydrophilic guide wire • Individually packed with easy peel off		
15.04	INTRAVENOUS CANNULA FOR VASCULAR ACCESS IN NEONATES • Available in 24, 26 G • Individually packed with easy peel off		
15.05	INTRODUCER SHEATHS FOR PEDIATRIC USE (Size 4-6Fr.) WITH STRAIGHT INTRODUCER WIRE • Sizes 4French/5French/6 French • Between 5.5-7.5 cm long • 0.021 inch straight introducer guide wire • with haemostatic valve to prevent back leak and air aspiration • with integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with dilator-hub lock mechanism to prevent its back-out during insertion • Should have smooth and resistance free insertion		
15.06	INTRODUCER SHEATHS FOR PEDIATRIC USE (Size 4-6Fr.) WITH J TIP INTRODUCER WIRE • sizes 4French/5French/6 French • between 5.5-7.5 cm long • with 0.021 inch introducer guide wire with J tip on one end and straight tip on the other end (bothends should be soft) • with haemostatic valve to prevent back leak and air aspiration • Should have integral side port with attached 3-way stopcock • with suture eye for securing sheath • kink resistant • with a dilator-hub lock mechanism to prevent its back-out during insertion • Should have smooth and resistance free insertion		
15.07	INTRODUCER SHEATH OF 3 FRENCH (Fr.) SIZE (FOR NEONATAL/ PEDIATRIC USE)		
15.08	PIGTAIL CATHETER (PEDIATRIC) - • 4French/5French/6French size • smaller length for neonatal and pediatric use • Must be FDA approved		
15.09	JUDKINS CATHETER (PEDIATRIC) - • 4F/5F/6F size Left and Right Judkins catheters in various standard curves and lengths. • Must be FDA approved		
15.1	SPECIAL JUDKINS CORONARY CATHETER WITH 2.5 CM CURVE (PEDIATRIC) • 4F/5F/6F		
16	**Group-D2**		
16.01	MULTIPRPOSE CATHETER (PEDIATRIC) • 4F/5F/6F in various standard curves and lengths		
16.02	3- FRENCH' DIAGNOSTIC CATHETERS FOR NEONATAL USE • Pigtail, Judkins, Multipurpose, Cobra and other diagnostic catheters of 3 Fr. size • Varying lengths and shapes		
16.03	SWAN GANZ CATHETER		

16.04	Special Swan Ganz Catheter with: • 4F catheter should allow the passage of at least 0.021 inch, 5F – 0.025 inch, 6F – 0.035 inch and 7F,8F – 0.038 inch hydrophilic guide wire • Must be available in 4F, 5F, 6F and 7F and 8 Fr. sizes • Catheter should be tapered at tip to ensure uniform diameter of the whole catheter • 10 cm marking along catheter body to confirm insertion depth		
16.05	BALLOON TIPPED ANGIOGRAPHY CATHETER		
16.06	BERMAN CATHTER • Must be available in 4F, 5F, 6F and 7F sizes • Should have 6 - 8 holes proximal to the balloon for dye injection • Catheter should be tapered at tip to ensure uniform diameter of the whole catheter • 10 cm marking along catheter body to confirm insertion depth		
16.07	REVERSE BERMAN CATHETER • Should be available in 4F, 5F, 6F & 7F sizes • Catheter should be tapered at tip to ensure uniform diameter of the whole catheter • Should have holes proximal to the balloon for dye injection • Should have a hole at the proximal tip to allow the passage over the wire		
16.08	MULLINS SHEATH WITHOUT SIDE ARM • Should be available in 6 Fr./7 Fr./ 8Fr. sizes • Thick and stiff dilator for guiding septal puncture		
16.09	MULLINS SHEATH WITH SIDE ARM • Should be available in 6 Fr./7 Fr./ 8Fr. sizes		
17	**Group-D3**		
17.01	PTMC BALLOON 'INOUE TYPE' WITH ACCESSORIES		
17.02	PTMC BALLOON OF 'INOUE TYPE' WITHOUT ACCESSORIES		
17.03	PTMC BALLOON 'INOUE TYPE' WITH ACCESSORIES		
17.04	PTMC BALLOON OF 'INOUE TYPE' WITHOUT ACCESSORIES-		
17.05	PTMC BALLOON 'INOUE TYPE' WITH ACCESSORIES –		
17.06	PTMC BALLOON 'INOUE TYPE' WITHOUT ACCESSORIES –		
17.07	TRANSSEPTAL PUNCTURE NEEDLE • Infants, pediatric and adult sizes • Tapering tip • Standard curve • Hub with angle indicator		
18	**Group-D4**		
18.01	ASD CLOSURE DEVICES WITH DELIVERY SYSTEM - • Approved for pediatric/adult use • Device made of biologically inert material • Self-centering, detachable device with delivery cable • Available in all the sizes (6 mm – 40 mm)		
18.02	ASD CLOSURE DEVICE WITHOUT DELIVERY SYSTEM		

18.03	DELIVERY SHEATH FOR ASD CLOSURE DEVICE- • • Should be compatible with the available system		
18.04	PRELOADED ASD CLOSURE DEVICES - • Approved for pediatric/adult use • Device made of biologically inert material • Preloaded device with delivery cable		
18.05	ASD CLOSURE DEVICES WITH DELIVERY SYSTEM – • Device made of biologically inert material • Available in all the sizes		
18.06	ASD CLOSURE DEVICE WITHOUT DELIVERY SYSTEM -		
18.07	DELIVERY SHEATH FOR ASD CLOSURE DEVICE- • • Should be compatible with the available system		
18.08	ASD CLOSURE DEVICE WITH DELIVERY SYSTEM – • Device made of biologically inert material • Available in all the sizes		
18.09	ASD CLOSURE DEVICE WITHOUT DELIVERY SYSTEM –		
18.1	DELIVERY SHEATH FOR ASD CLOSURE DEVICE– •• Should be compatible with the available system		
18.11	FENESTRATED ASD CLOSURE DEVICES		
19	**Group-D5**		
19.01	VSD CLOSURE DEVICES WITH DELIVERY SYSTEM - • Approved for pediatric/adult use • Device made of biologically inert material • Self-centering, detachable device with delivery cable • Available in all the sizes		
19.02	VSD CLOSURE DEVICES WITHOUT DELIVERY SYSTEM		
19.03	DELIVERY SHEATH FOR VSD CLOSURE DEVICE - • Should be compatible with the available system		
19.04	VSD CLOSURE DEVICES WITH DELIVERY SYSTEM - • Device made of biologically inert material • Available in all the sizes		
19.05	VSD CLOSURE DEVICES WITHOUT DELIVERY SYSTEM -		
19.06	DELIVERY SHEATH FOR VSD CLOSURE DEVICE- CE MARKED • Should be compatible with the available system		
19.07	VSD CLOSURE DEVICE WITH DELIVERY SYSTEM – • Device made of biologically inert material • Available in all the sizes		
19.08	VSD CLOSURE DEVICE WITHOUT DELIVERY SYSTEM –		
19.09	DELIVERY SHEATH FOR VSD CLOSURE DEVICE– • Should be compatible with the available system		
19.1	PDA CLOSURE DEVICES WITH DELIVERY SYSTEM - • Approved for pediatric/adult use • Device made of biologically inert material • Self-centering, detachable device with delivery cable • Available in all the sizes		
20	**Group-D6**		
20.01	PDA CLOSURE DEVICES WITHOUT DELIVERY SYSTEM -		

20.02	DELIVERY SHEATH FOR PDA CLOSURE DEVICE - • Should be compatible with the available system		
20.03	PDA CLOSURE DEVICES WITHOUT DELIVERY SYSTEM -		
20.04	DELIVERY SHEATH FOR PDA CLOSURE DEVICE- • • Should be compatible with the available system		
20.05	PDA CLOSURE DEVICE WITH DELIVERY SYSTEM – Device made of biologically inert material • Available in all the sizes		
20.06	PDA CLOSURE DEVICE WITHOUT DELIVERY SYSTEM –		
20.07	DELIVERY SHEATH FOR PDA CLOSURE DEVICE – • • Should be compatible with the available system		
20.08	PFO CLOSURE DEVICES WITH DELIVERY SYSTEM - • Approved for pediatric/adult use • Device made of biologically inert material • Available in all the sizes		
20.09	PFO Closure Devices Without Delivery System		
21	**Group-D7**		
21.01	DELIVERY SHEATH FOR PFO CLOSURE DEVICE – • • Should be compatible with the available system		
21.02	PFO CLOSURE DEVICES WITH DELIVERY SYSTEM - • Device made of biologically inert material • Available in all the sizes		
21.03	PFO CLOSURE DEVICES WITHOUT DELIVERY SYSTEM -		
21.04	DELIVERY SHEATH FOR PFO CLOSURE DEVICE- • • Should be compatible with the available system		
21.05	PFO CLOSURE DEVICE WITH DELIVERY SYSTEM – • Device made of biologically inert material • Available in all the sizes		
21.06	PFO CLOSURE DEVICE WITHOUT DELIVERY SYSTEM –		
21.07	DELIVERY SHEATH FOR PFO CLOSURE DEVICE– • • Should be compatible with the available system		
21.08	SIZING BALLOON FOR DEVICE CLOSURE – CIRCULAR SHAPE		
21.09	SIZING BALLOON FOR DEVICE CLOSURE – OVAL SHAPED		
21.1	SIZING PLATE FOR DEVICE CLOSURE		
22	**Group-D8**		
22.01	DELIVERY CABLES FOR ASD/VSD/PDA DEVICES		
22.02	RETRIEVERS FOR ASD/VSD/PDA DEVICES		

22.03	SHEATH FOR RETRIVAL OF DEVICES		
22.04	WIRE 0.018" REGULAR LENGTH, REGULAR SHAFT STIFFNESS • Floppy Tip • Straight / J Shaped tip • 140-180 cm long		
22.05	WIRE 0.018" REGULAR LENGTH, EXTRA- STIFF SHAFT • Floppy Tip • Straight / J Shaped tip • 140-180 cm long		
22.06	WIRE 0.018" EXCHANGE LENGTH, REGULAR SHAFT STIFFNESS • Floppy Tip • Straight / J Shaped tip • 240-300 cm long		
22.07	WIRE 0.018" EXCHANGE LENGTH, EXTRA- STIFF SHAFT • Floppy Tip • Straight / J Shaped tip • 240-300 cm long		
22.08	VALVOPLASTY BALLOON CATHETERS • Varying sizes and diameters • Approved for pediatric/adult use		
22.09	SPECIAL BALLOON CATHETER COMPATIBLE WITH 4 FRENCH SHEATH • Compatible with 0.018 inch guide wire • Varying length and diameter		
22.1	SPECIAL PEDIATRIC VALVOPLASTY BALLOON CATHETERS COMPATIBLE WITH 4 FRENCH SHEATH • Compatible with 0.025 inch guide wire • Varying length and diameter		
23	**Group-D9**		
23.01	VALVOPLASTY BALLOON CATHETERS (sizes 10 – 22 mm) • Approved for pediatric/adult use • Varying length and diameter • Nominal pressure < 4 ATM		
23.02	BALLOON CATHETERS (sizes 10 – 22 mm) • Approved for pediatric/adult use • Varying length and diameter • Nominal pressure > 8 atm		
23.03	BALLOON IN BALLOON CATHETER • Quote in all sizes		
23.04	FOGARTY EMBOLECTOMY CATHETER • 4Fr/5Fr/6 Fr sizes • Metal rod at tip of the catheter to enable angulations up to 60 degrees		

23.05	ATRIAL SEPTOSTOMY CATHETER • 4Fr/5Fr/6Fr sizes		
23.06	DETACHABLE BALLOON		
23.07	VASCULAR PLUGS- FDA APPROVED		
23.08	VASCULAR PLUGS- CE MARKED		
23.09	VASCULAR PLUGS- APPROVED BY DCGI		
23.1	RADIOFREQUENCY PERFORATION ACCESSORIES • Compatible with Beyliss system		
24	**Group-D10**		
24.01	PDA COILS MADE OF STEEL • 0.035, 0.038 Inches • Sizes ranging from 2 x 2 to 15 x 15		
24.02	PDA COILS MADE OF NITINOL • 0.035, 0.038 Inches • Sizes ranging from 2 x 2 to 15 x 15		
24.03	PDA COILS MADE OF PLATINUM • 0.035, 0.038 Inches • Sizes ranging from 2 x 2 to 15 x 15		
24.04	0.052 INCH PDA COILS MADE OF NITINOL • Sizes ranging from 2 x 2 to 15 x 15		
24.05	0.052 INCH PDA COILS MADE OF PLATINUM • Sizes ranging from 2 x 2 to 15 x 15		
24.06	EMBOLISATION COILS (0.018 INCH) • Sizes ranging from 2 x 2 to 15 x 15		
24.07	EMBOLISATION COILS (0.035 INCH) • Sizes ranging from 2 x 2 to 15 x 15		
24.08	EMBOLISATION COILS (0.052 INCH) • Sizes ranging from 2 x 2 to 15 x 15		
24.09	PARK BLADE SEPTECTOMY CATHETER		
25	**Group-D11**		
25.01	BALLOON EXPANDABLE PULMONARY ARTERY AND AORTIC STENTS – Approved for pediatric/adult use • Available in various sizes		

25.02	SELF EXPANDING PULMONARY ARTERY AND AORTIC STENTS- • Approved for pediatric/adult use • Available in various sizes		
25.03	SELF EXPANDING PULMONARY ARTERY AND AORTIC STENTS- • Approved for pediatric/adult use • Available in various sizes		
25.04	SELF EXPANDING PULMONARY ARTERY AND AORTIC STENTS- Approved for pediatric/adult use • Available in various sizes		
25.05	HYDROPHILIC DIAGNOSTIC GUIDE WIRE - RADIFOCUS (REGULAR LENGTH, REGULAR STIFFNESS) • MUST be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should have superelastic alloy core • Should have super flexible wire tip • Should be available in straight and angled tip • Should be between 120-150 cm long		
25.06	HYDROPHILIC DIAGNOSTIC GUIDE WIRE -'RADIFOCUS' (EXCHANGE LENGTH, REGULAR STIFFNESS) • MUST be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should have superelastic alloy core • Should have super flexible wire tip • Should be available in straight and angled tip • Should be 260 cm long		
25.07	HYDROPHILIC DIAGNOSTIC GUIDE WIRE - RADIFOCUS (REGULAR LENGTH, EXTRA-STIFF) • MUST be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should have superelastic alloy core • Should have super flexible wire tip • Should be available in straight and angled tip o Should be between 120-150 cm long		
25.08	HYDROPHILIC DIAGNOSTIC GUIDE WIRE - RADIFOCUS (EXCHANGE LENGTH, EXTRA-STIFF) • MUST be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should have superelastic alloy core • Should have super flexible wire tip • Should be available in straight and angled tip • Should be 260 cm long		
25.09	EXCHANGE LENGTH 0.035 INCH GUIDEWIRE DEDICATED FOR VSD DEVICE CLOSURE– NOODLE TYPE		
25.1	SPECIAL INTRODUCER SHEATH FOR TRANSSEPTAL PUNCTURE • Should include a dilator and sheath • Dilator should provide smooth transition with septal puncture needle • Should be available in varying sizes • Radio-opaque tip marker for precise visualization of sheath • Should be kink and collapse resistant • Should be flexible		
25.11	SPECIAL LONG SHEATH WITH SIDE ARM HAVING HAUSDORF-LOCK CURVE FOR ASD DEVICE CLOSURE • Variable lengths and sizes		

25.12	SPECIAL LONG SHEATHS WITH SIDE ARM HAVING MULLINS CURVE, BALKANS CURVE, 180 CURVE AND OTHER CURVES • Variable lengths and sizes		
25.13	PTCA INFLATION DEVICE- (MAXIMUM PRESSURE UPTO 10 ATM) • luminescent analog pressure gauge with maximum pressure up to 10 atm • efficient locking system to maintain high pressure • rapid inflation and deflation • clear barrel for easy visualization of de-bubbling • ergomatric and user friendly hand held design		
26	**Group -F1**		
26.01	Hydrophilic Dignostic Guide Wire - (Regular Length, Regular Stiffness) • Should be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should be available in straight and angled tip • Should be between 120-180 cm long • Short floppy tip 3-8 cm long		
26.02	Hydrophilic Diagnostic Guide Wire - (Exchange Length, Regular Stiffness) • Should be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should be available in straight and angled tip • Should be 260 cm long • Short floppy tip 3-8 cm long		
26.03	Hydrophilic Diagnostic Guide Wire - (Exchange Length, Regular Stiffness) • Should be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should be available in straight and angled tip • Should be 300 cm long • Short floppy tip 3-5 cm long		
26.04	Hydrophilic Diagnostic Guide Wire - (Regular Length, Extra-Stiff) - • Should be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should be available in straight and angled tip • Should be between 120-180 cm long • Short floppy tip 3-8 cm long		
26.05	Hydrophilic Diagnostic Guide Wire - (Exchange Length, Extra-Stiff) • Should be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should be available in straight and angled tip • 3-5 cm long tip • Should be 260 cm long		
26.06	Hydrophilic Diagnostic Guide Wire - (Exchange Length, Extra-Stiff) • Should be available in 0.025, 0.032, 0.035 and 0.038 inches size • Should be available in straight and angled tip • 3-5 cm long tip • Should be 300 cm long		
26.07	PTFE Coated Extrastiff Shaft Strength Wire- Backup Meier(Regular Length) • Extremely Stiff stainless steel shaft core • Flexible short length 'J' Shaped tip which should be highly radio-opaque . • 0.035 inches • 185 cm long		
26.08	PTFE Coated Extra stiff Shaft Strength Exchange Wire- Backup Meier (Exchange Length) • Extremely Stiff stainless steel shaft core • Flexible short length 'C' Shaped tip which should be highly radio-opaque . • 0.035 inches		

	• 300 cm long		
26.09	NITINOL 0.014 inch Guidewire (Exchange Length) Straight and angled • With hydrophilic coating • 260-300 cm long • With and without flexible tip		
26.1	NITINOL 0.018 inch Guidewire (Exchange Length) • Straight and angled • With hydrophilic coating • 260-300 cm long • With and without flexible tip		
27	**Group -F 2**		
27.01	Heavy Duty Nitinol Alloy Extra Support Wire (Regular Length) • 0.014 inches • Nitinol alloy • With Angled tip-3-5 cm long • Tip with platinum/platinum alloy for optimum visualisation • With TFE coating • 180 cm long		
27.02	Heavy Duty Nitinol Alloy Extra Support Wire (Exchange Length) • 0.014 inches • Nitinol alloy • With Angled tip-3-5 cm long • Tip with platinum/platinum alloy for optimum visualisation • With TFE coating • 270-300 cm long		
27.03	Heavy Duty Nitinol Extra Support Wire(Regular Length) • 0.018 inches • Nitinol alloy • With Angled tip-3-5 cm long • Tip with platinum/platinum alloy for optimum visualization • With TFE coating • 180 cm long		
27.04	Heavy Duty Nitinol Extra Support Wire (Exchange Length) • 0.018 inches • Nitinol alloy • With Angled tip: 3-5 cm long • Tip with platinum/platinum alloy for optimum visualisation • With TFE coating • 270-300 cm long		
27.05	Steerable High Support .014 inch Guidewire • PTFE/duraglide coated • Distal radiopaque tip 3 cm long • Straight and J curve • 180cm long		
27.06	Steerable High Support .014 inch Guide wire (Exchange) • PTFE/duraglide coated • Distal radiopaque tip 3 cm long • Straight and J curve • 260-300cm long		
27.07	Cobra Catheter • 4French/5French/6French • 65-125 cm long • 021-038 compatible • in various standard curves .		
27.08	SOS Omni Catheter • 035-038 compatible • 80 cm long		
27.09	Tapered Straight Catheter • 4French/5French/6French • 70,100 cm long • .035 inch compatible		
27.1	Picard Catheter • 4French/5French/6French • 035-038 compatible • in various standard lengths.		
28	**Group -F3**		
28.01	Renal Double Curve Catheter • in various standard lengths and curves		
28.02	Head Hunter Catheter • in various standard lengths and curves • 035-038 compatible • 100cm long		

28.03	Simmons/ Sidewinder Catheter • in various standard lengths and curves • 035-038 compatible • 100cm long		
28.04	Pre -shaped Catheter for Uterine Artery Embolisation • in various standard lengths and curves		
28.05	Vertebral Catheter • in various standard lengths and curves		
28.06	Coeliac Axis Catheter • in various standard lengths and curves		
28.07	Shepherd's Hook Catheter • in various standard lengths and curves		
28.08	Micro Catheters (Coiled Stainless steel construction) • in various standard lengths and curves • 2-3.8F size • .010-.022 inch wire compatible • With radioopaque marker at tip		
28.09	Micro Catheters (Braided Nitinol construction) • in various standard lengths and curves • 2-3.8F size • .010-.022 inch wire compatible • With radioopaque marker at tip		
28.1	Straight Introducer Sheath (Standard Length) With Hydro philic introducer Guide Wire • sizes from 4French/5French/ 6 French/7 French/8Frenc/9French • between 7-11 cm long • with 0.035 or 0.038 inch hydrophilic mini guide wire • with plastic cannula for arterial puncture		
29	**Group -F4**		
29.01	Straight Long Introducer Sheath with Hydrophilic Introducer Guide Wire • sizes from 4French/5French/ 6 French/7 French/8Frenc/9French • 16 cm long • with 0.035 or 0.038 inch hydrophilic guide wire • with plastic cannula for arterial puncture		
29.02	Straight Reinforced Sheath with Hydrophilic Coating • sizes from 6French /7French /8Frenc/9French/10French/11French • between 7-11 cm long • with 0.035 or 0.038 inch guide wire compatible • with Radio-opaque tip		
30	**Group -F5**		

30.01	Guiding catheter for Peripheral Vascular Use – – should be braided with low friction inner layer - should have atraumatic soft tip - should be available in various tip shapes and curves for access to different parts of the peripheral vasculature, including renal double curve, cobra, multi-purpose and other shapes - should have OD of 6F-8F available - should have the largest ID for each OD - should have lengths ranging from 55-90 cm		
30.02	Guiding catheter for Peripheral Vascular Use – – should be braided with low friction inner layer - should have hydrophilic coating - should have atraumatic soft tip - should be available in various tip shapes and curves for access to different parts of the peripheral vasculature. - should have OD of 6F-10F available - should have the largest ID for each OD - should have lengths ranging from 55-125 cm		
30.03	Guiding catheter for Peripheral Vascular Use – – should be braided with low friction inner layer - should have hydrophilic coating - should have atraumatic soft tip - should be available in various tip shapes and curves for access to different parts of the peripheral vasculature. - should have OD of 5F available with the largest OD - should have a minimum length of 55 cm or more		
30.04	Long sheath for peripheral vascular access– - should be kink resistant with a reinforcement mechanism - should be low friction with inner coating to allow catheter manipulation - should have distal radio-opaque tip for enhanced visibility on fluoroscopy - should have smooth transition from dilator to sheath - should have a proximal hemostasis valve/provision for tuohyborst valve - should be color coded for size identification - should be available in various sizes of inner diameters and various lengths and have the largest ID available		
30.05	Long sheath for carotid access – - should be kink resistant with a reinforcement mechanism - should be low friction with inner coating to allow catheter manipulation - should have distal radio-opaque tip for enhanced visibility on fluoroscopy - should have smooth transition from dilator to sheath - should have a proximal hemostasis valve/provision for tuohyborst valve - should be color coded for size identification - should be available in 4F-8F size with the largest ID - should have a minimum length of 90 cm or more		
30.06	Long sheath for contra-lateral iliac/femoral access – - should be kink resistant with a reinforcement mechanism - should be low friction with inner coating to allow catheter manipulation - should have distal radio-opaque tip for enhanced visibility on fluoroscopy - should have smooth transition from dilator to sheath - should have a proximal hemostasis valve/provision for tuohyborst valve - should be color coded for size identification - should be available in 4F-9F size with the largest ID - should have lengths ranging from 40- 110 cm		
31	**Group -F6**		

31.01	Long sheath for renal access – - should be kink resistant - should be low friction with inner coating to allow catheter manipulation - should have distal radio-opaque tip for enhanced visibility on fluoroscopy - should have smooth transition from dilator to sheath - should have a proximal hemostasis valve/provision for tuohyborst valve - should be color coded for size identification - should be available in 5F-7F size with the largest ID - should be at least 55 cm long		
31.02	High Pressure Angioplasty Balloon for peripheral vascular use – - should have rated burst pressure > 14 atmosphere - should have hydrophilic coating - Should be available in various outer diameters and balloon lengths and various shaft lengths		
31.03	High Pressure Angioplasty Balloon for peripheral vascular use – - should have rated burst pressure > 14 atmosphere - should have hydrophilic coating - Should be available in various outer diameters and balloon lengths		
31.04	High Pressure Angioplasty Balloon for peripheral vascular use – - should have rated burst pressure > 14 atmosphere - should have hydrophilic coating - Should be available in various outer diameters and balloon lengths - should be available in various shaft lengths		
31.05	High Pressure Angioplasty Balloon for peripheral vascular use – - should have rated burst pressure > 14 atmosphere - should have hydrophilic coating - Should be available in 4-10 mm (in 1 mm increments) and 12 mm diameters and 2-10 cm balloon length - should have a shaft size of 75-135 cm		
31.06	High Pressure Angioplasty Balloon for peripheral vascular use– - should have rated burst pressure > 14 atmosphere - should have hydrophilic coating - Should be available in 4-12 mm diameter and 2-10 cm balloon length - should have a shaft size of 75-135 cm		
31.07	High Pressure Angioplasty Balloon for peripheral vascular use– - should have rated burst pressure > 14 atmosphere - should have hydrophilic coating - Should be available in 4-12 mm diameter and 2-10 cm balloon length - should have a shaft size of 75-135 cm		
31.08	Peripheral Balloon catheter – - should be 0.035” compatible - should be over the wire - should have a burst pressure of at least 10 atmosphere (at least 6 atmosphere for larger balloons) - should have hydrophilic coating - should be available in various sizes of OD and balloon lengths - should be available in various shaft lengths		
31.09	Peripheral Balloon catheter – - should be 0.035” compatible - should be over the wire - should be non-compliant or semi-compliant - should have hydrophilic coating - should be available in all ODs of 3-10 mm and 12 mm and balloon length of 2-10 cm. - should have burst pressure of at least 10 atmosphere (the 12 mm OD balloon should have a burst pressureof at least 6 atmosphere) - should pass through a maximum 6F sheath (the 12 mm OD balloon should pass through a maximum 7Fsheath) - should have a shaft length 80-135 cm		
32	**Group -F7**		
32.01	Peripheral Balloon catheter – - should be 0.035” compatible - should be over the wire - should have a burst pressure of at least 10 atmosphere (at least 6 atmosphere for larger balloons) - should have hydrophilic coating - should be available in various sizes of OD and balloon lengths - should be available in various shaft lengths		

32.02	Peripheral Balloon catheter – - should be 0.035" compatible - should be over the wire - should be non-compliant or semi-compliant - should have hydrophilic coating - should be available in OD of 3-10 mm and 12 mm and balloon length of 2-10 cm. - should have burst pressure of at least 10 atmosphere (the 12 mm OD balloon should have a burst pressureof at least 6 atmosphere) - should pass through a maximum 6F sheath (the 12 mm OD balloon should pass through a maximum 7Fsheath) - should have a shaft length 80-135 cm		
32.03	Peripheral Balloon catheter – - should be 0.035" compatible - should be over the wire - should have a burst pressure of at least 10 atmosphere (at least 6 atmosphere for larger balloons) - should have hydrophilic coating - should be available in various sizes of OD and balloon lengths - should be available in various shaft lengths		
32.04	Peripheral Balloon catheter – - should be 0.035" compatible - should be over the wire - should be non-compliant or semi-compliant - should have hydrophilic coating - should be available in all ODs of 3-10 mm and 12 mm and balloon length of 2-10 cm. - should have burst pressure of at least 10 atmosphere (the 12 mm OD balloon should have a burst pressureof at least 6 atmosphere) - should pass through a maximum 6F sheath (the 12 mm OD balloon should pass through a maximum 7Fsheath) - should have a shaft length 80-135 cm		
32.05	Peripheral balloon catheter with large diameter - should be 035" compatible - should be over the wire - should have hydrophilic coating - should have OD of 14 mm and more - Various lengths of the balloon should be available - should be mounted on various shaft lengths		
32.06	Peripheral balloon catheter with large diameter – - should be 035" compatible - should be over the wire - should have hydrophilic coating - should an OD of at least 14 mm - Various lengths of the balloon should be available - should be mounted on various shaft lengths		
32.07	Peripheral balloon catheter with large diameter – - should be 035" compatible - should be over the wire - should have hydrophilic coating - should an OD of at least 14 mm - Various lengths of the balloon should be available - should be mounted on various shaft lengths		
32.08	Peripheral balloon catheter – - should be .014/.018" compatible - should be over the wire - should have hydrophilic coating - should be available in various balloon diameters - should be available in various lengths of the balloon - should be available in various shaft lengths		

33	**Group -F9**		
33.01	Peripheral compliant balloon with Large diameter – - should be .035" compatible - should have OD ranging from 10-46 mm - should have shaft length >90 cm - should have shaft of not more than 8F size - should pass through a 12F sheath		
33.02	Peripheral Stent Balloon mounted – - should be .014/.018" compatible - should be over the wire - should be made of stainless steel alloy - should have balloon OD in the range of 4-7 mm - should have balloon/stent lengths in the range of 12-25 mm - should have shaft lengths of 80-150 cm		
33.03	Peripheral Stent Balloon expandable – - should be .014/.018" compatible - should be over the wire - should be made of stainless steel alloy - should have balloon OD in the range of 4-7 mm - should have balloon/stent lengths in the range of 12-25 mm - should have shaft lengths of 80-150 cm		
34	**Group -F10**		
34.01	Peripheral Stent Balloon expandable - - should be .014/.018" compatible - should be for rapid exchange - should be made of Stainless steel alloy - should have balloon OD in the range of 4-7 mm - should have balloon/stent lengths in the range of 12-25 mm - should have shaft lengths of 80-150 cm		
34.02	Peripheral Stent Balloon expandable – - should be 035" compatible - should be made of Stainless steel or cobalt chromium - should be quoted either in open cell or closed cell design - should be available in various balloon ODs - should have various balloon/stent lengths available - should have a shaft length of 75-135 cm		
34.03	Peripheral Stent Balloon mounted – - should be 035" compatible - should be made of Stainless steel or cobalt chromium - should be quoted either in open cell or closed cell design - should be available in various balloon ODs - should have various balloon/stent lengths available - should have a shaft length of 75-135 cm		
34.04	Peripheral Stent Balloon expandable – - should be .035" compatible - should be made of Stainless steel or cobalt chromium - should be quoted either in open cell or closed cell design - should be available in various balloon ODs - should have various balloon/stent lengths available - should have a shaft length of 75-135 cm		

34.05	Peripheral Stent Balloon expandable – - should be .035" compatible - should be made of stainless steel - should have a tandem architecture design - should have all balloon ODs from 5-10 mm in 1 mm increments - should have available various balloon/stent lengths of 20 to 55mm - should have a shaft length of 75 -135 cm		
34.06	Peripheral Stent Balloon expandable – - should be .035" compatible - should be made of stainless steel - should have a tandem architecture design - should have all balloon ODs from 5-10 mm in 1 mm increments - should have available various balloon/stent lengths from 20 to 55 mm - should have a shaft length of 75 -135 cm		
34.07	Peripheral Stent Balloon expandable - should be .035" compatible - should be made of stainless steel - should have a tandem architecture design - should have all balloon ODs from 5-10 mm in 1 mm increments - should have available various balloon/stent lengths from 20 to 55 mm - should have a shaft length of 75 -135 cm		
34.08	Peripheral Stent Balloon expandable – - should be .035" compatible - should be made of stainless steel - should be laser cut slotted tube with closed cell design - should have balloon ODs from 5-25 mm, bare or balloon mounted - should have available various balloon stent/lengths from 2-6 cm - should have a shaft length of up to 135 cm		
34.09	Peripheral Stent Balloon expandable – - should be .035" compatible - should be made of stainless steel - should be laser cut slotted tube with closed cell design - should have balloon ODs from 5-25 mm, bare or balloon mounted - should have available various balloon stent/lengths from 2-6 cm - should have a shaft length of up to 135 cm		
34.1	Peripheral Stent Balloon expandable – - should be .035" compatible - should be made of stainless steel - should be laser cut slotted tube with closed cell design - should have balloon ODs from 5-25 mm, bare or balloon mounted - should have available various balloon stent/lengths from 2-6 cm - should have a shaft length of up to 135 cm		
35	**Group- F11**		

35.01	Self-Expanding peripheral stent – - should be .014/018" compatible - should be over the wire - should be made of nitinol - should have the least lesion crossing profile for all stent diameters - should be available in various stent diameters of 6-10 mm - should be available in various stent lengths from 20-40 mm - should have a shaft length of at least 110 cm		
35.02	Self-Expanding peripheral stent – - should be .014/.018" compatible - should be over the wire - should be made of nitinol - should have the least lesion crossing profile for all stent diameters - should be available in various stent diameters of 6-10 mm - should be available in various stent lengths from 20-40 mm - should have a shaft length of at least 110 cm		
35.03	Self-Expanding peripheral stent – - should be .014/.018" compatible - should be over the wire - should be made of nitinol - should have the least lesion crossing profile for all stent diameters - should be available in various stent diameters of 6-10 mm - should be available in various stent lengths from 20-40 mm - should have a shaft length of at least 110 cm		
35.04	Self-Expanding peripheral stent – - should be .014/.018" compatible - should be over the wire - should be laser cut open cell nitinol tube - should have a low lesion crossing profile - should be available in all stent diameters of 6-10 mm - should be available in stent lengths of 2-6 cm - should be on a shaft length of 110-140 cm		
35.05	Self-Expanding peripheral stent – - should be .014/.018" compatible - should be over the wire - should be laser cut open cell nitinol tube - should have a low lesion crossing profile - should be available in all stent diameters of 6-10 mm - should be available in stent lengths of 2-6 cm - should be on a shaft length of 110-140 cm		
35.06	Self-Expanding peripheral stent – - should be .014/.018" compatible - should be over the wire - should be laser cut open cell nitinol tube - should have a low lesion crossing profile - should be available in all stent diameters of 6-10 mm - should be available in stent lengths of 2-6 cm - should be on a shaft length of 110-140 cm		

35.07	Self expanding peripheral stent – - should be .014/.018" compatible - should be of rapid exchange type - should be made of nitinol - should be available in stent lengths of 3-4 cm - should have a minimum shaft length of 110 cm		
35.08	Self expanding peripheral stent – - should be .014/.018" compatible - should be of rapid exchange type - should be made of nitinol - should be available in stent lengths of 3-4 cm - should have a minimum shaft length of 110 cm		
35.09	Self expanding peripheral stent – - should be .014/.018" compatible - should be of rapid exchange type - should be made of nitinol - should be available in stent lengths of 3-4 cm - should have a minimum shaft length of 110 cm		
35.1	Self-Expanding peripheral stent – - should be .035" compatible - should be over the wire - should be made of nitinol - should be available in various outer diameters - should be of various stent lengths - should be on a shaft length of 80-140 cm		
36	**Group -F12**		
36.01	Self-Expanding peripheral stent – - should be .035" compatible - should be over the wire - should be made of nitinol - should be available in various outer diameters - should be of various stent lengths - should be on a shaft length of 80-140 cm		
36.02	Self-Expanding peripheral stent – - should be .035" compatible - should be over the wire - should be made of nitinol - should be available in various outer diameters - should be of various stent lengths - should be on a shaft length of 80-140 cm		
36.03	Self-Expanding peripheral stent – - should be .035" compatible - should be over the wire - should be laser cut from single nitinol tube with no welds - should be available in outer diameters of 5-14 mm - should be available in stent lengths of 2-15 cm - should be on a shaft length of 80-140 cm - should be available in various lengths of 20-100 mm		

36.04	Peripheral bio-degradable or absorbable metal stent - should be balloon mounted or self-expanding type - should be available in outer diameters of 4-8 mm - should be available in various lengths of 20-100 mm		
37	**Group -F13**		
37.01	Dedicated peripheral vascular bifurcation stent - should be balloon mounted - should be available in different diameters and lengths of the stent		
37.02	Self expanding peripheral covered Stents – - should be .035" compatible - should be over the wire - should be made of nitinol with fabric coating - should be available in various outer diameters - should be available in various stent lengths - should be on a shaft length of 80-140 cm.		
37.03	Self expanding peripheral covered Stents – - should be .035" compatible - should be over the wire - should be made of nitinol with fabric coating - should be available in various outer diameters - should be available in various stent lengths - should be on a shaft length of 80-140 cm		
37.04	Self expanding peripheral covered Stents – - should be .035" compatible - should be over the wire - should be made of nitinol with fabric coating - should be available in various outer diameters - should be available in various stent lengths - should be on a shaft length of 80-140 cm.		
37.05	Self expanding peripheral covered Stents – - should be .035" compatible - should be over the wire - should be made of nitinol with PTFE coating on the inner lumen - should be available in outer diameters of 5-13 mm - should be avaiable in stent lengths of 2-15 cm - should be on a shaft length of 75-140 cm.		
37.06	Self expanding peripheral covered Stents – - should be .035" compatible - should be over the wire - should be made of nitinol with PTFE coating on the inner lumen - should be available in outer diameters of 5-13 mm - should be avaiable in stent lengths of 2-15 cm - should be on a shaft length of 75-140 cm.		

37.07	Self expanding peripheral covered Stents - should be .035" compatible - should be over the wire - should be made of nitinol with PTFE coating on the inner lumen - should be available in outer diameters of 5-13 mm - should be avaiable in stent lengths of 2-15 cm - should be on a shaft length of 75-140 cm.		
37.08	Covered stent for transjugular intrahepatic porto-systemic shunt - should be .035/038" compatible - should be made of nitinol with fabric coating - should be with or without a distal uncovered portion - should be available in various outer diameters and stent lengths - should be compatible with the quoted TIPS set		
37.09	Covered stent for transjugular intrahepatic porto-systemic shunt - should be .035/038" compatible - should be made of nitinol with PTFE coating on inner lumen - should be with a distal at least 2 cm uncovered portion - should be available in all outer diameters of 8,10,12 mm - should be available in all stent lengths of 4,5,6,7,8 cm - the delivery system should be at least 75 cm long - should be compatible with the quoted TIPS set		
37.1	Embolisation Coils - should be .014/018" compatible - should be made of platinum with synthetic fibres - should be non tapering/straight - should be MR compatible - should be available in any or more of the following diameters: 2-10 mm - should be of various lengths; the length of the coil at each diameter should be stated		
38	**Group- F14**		
38.01	Embolisation coils -should be .014/018" compatible - should be made of platinum with synthetic fibres - should be MR compatible - should taper from a larger to a smaller end - should be available in any or more of the following diameters: 3-10 mm - the diameter to tapered end for tapering type coils should be stated - should be of various lengths; the length of the coil at each diameter should be stated		
38.02	Embolisation Coils - should be .035/038" compatible - should be non tapering/straight - should be made of platinum with synthetic fibres - should be MR compatible - should be available in the following sizes: diameter 3-15 mm and length 2-15 cm		

38.03	Embolisation Coils - should be .035/038" compatible - should be made of platinum with synthetic fibres - should be MR compatible - should be tapering from a larger to a smaller end - should be available in following sizes: diameter 5-10 mm and length 2-15 cm - the diameter to tapered end for tapering type coils should be mentioned		
38.04	Embolisation Coils - should be .035/038/052" compatible - should be non tapering/straight - should be made of stainless steel with synthetic fibres - should be available in the following sizes: diameter 3-15 mm and length 2-15 cm		
38.05	Coil pusher wire for 0.014/0.018" coils, compatible with the quoted microcatheters		
38.06	Polyvinyl alcohol particles for peripheral vascular embolization - should be of non-uniform size - should undergo rapid clumping in the vessels - should cause non-uniform vessel occlusion - should be available in a broad range of sizes (90 microns- 1400 microns)		
38.07	Microspheres for peripheral vascular embolization - should be hydrophilic - should be micro-porous and uniform sized spheres - should be non-aggregating - should be deformable for ease of passage through smaller vessels - the size of spheres should range from40-1200 micrometers		
38.08	Gelfoam sheet for vascular embolization		
38.09	Non-adhesive liquid polymer for controlled embolization - should be ethylene vinyl copolymer in dimethylsulfoxide solution - should be supplied in various concentrations for use depending on lesion morphology		
38.1	Adhesive liquid polymer for vascular embolization - should be N-butyl cyanoacrylate		
39	**Group -F15**		
39.01	Tantalum powder -should be useful for improved visualization during n-butyl cyanoacrylate embolization - should be supplied as finely ground powder		
39.02	Lipiodol - the material should be iodised oil, containing ethyl esters of iodized fatty acids of poppy seed oil - the Iodine content should be a minimum of 480 mg/ml - should useful as opacifying agent for n-butyl cyanoacrylate on fluoroscopy and an organic diluent for thisagent - should be supplied in 10 ml ampoules		

39.03	Sclerosant for intravenous embolization - the compound should be sodium tetradecyl sulfate - should be available in various concentrations for use depending on lesion type		
39.04	Sclerosant for intravenous embolization - the compound should be aetoxisclerol - should be available in various concentrations for use depending on lesion type		
39.05	Medical grade Ethanolamine oleate for vascular embolization		
39.06	Detachable balloon for embolization - Detachable balloons with radioopaque marker with and without self-sealing valve - 0.1 cc – 3 cc or more in capacity - Please specify the make and capacity of the balloons (latex/silicon). - the catheter shaft should be of at least 120 cm in length		
39.07	Transjugular liver Biopsy Set - should include angled tip needle advanced through percutaneously introduced liver access set - should have a firing spring mechanism - needle gauge should be available in 18 and 19G and needle length should be 45-60 cm - the needle throw distance should be not more than 2 cm - should include the check-flo valve adapter, stiffening cannula curved and straight catheter and introducer sheath (upto 7F size)		
39.08	Transjugular intrahepatic porto-systemic shunt access set - should include a micropuncture introducer set -should include an introducer sheath that should be no more than 10F size, at least 38 cm long and 035/038”compatible - the sheath should provide maximum flexibility without getting kinked - the sheath should have proximal check flo mechanism - the sheath should have distal radiopaque tip to indicate sheath tip on fluoroscopy - the set should also include a needle of 16G and at least 50 cm long with angled tip to facilitate directiontowards portal vein - there should be a curved/angled catheter, a straight catheter and a centimeter sizing catheter incorporated in the set for the various steps of the procedure		
39.09	Transjugular liver access set (10F) for various diagnostic and interventional liver procedures - should include a 10F and at least 38 cm long introducer sheath - should include a stiffening cannula of at least 14 gauge and length of at least 51 cm - should include a trochar with stylet that is 035/038” compatible and at least 60 cm long		
39.1	Transjugular liver access set (7-9F) for various diagnostic and interventional liver procedures - should include a 7f or 9f introducer sheath that is at least 38 cm long - should include needle with angled tip that is 16F (for 9F) and 18G (for 7F) sheath - should be 035/038” compatible - the needle shoud be at least 50 cm long		
40	**Group -F16**		
40.01	IVC Filter - for optimal filtration of IVC diameter of upto 40 mm - made of either nitinol or stainless steel - catheter carrier system inner diameter should be of maximum 12F - It should be possible to insert from either jugular or femoral access - should be for permanent use		
40.02	IVC filter - for optimal filtration of IVC diameter of upto 28 mm - made of nitinol and filter length to be upto 38 mm		

	- catheter carrier system inner diameter should be of maximum 7F size - it should be for permanent use - it should be possible to place the filter from femoral/jugular/antecubital access		
40.03	IVC filter - for optimal filtration of IVC diameter of upto 28 mm - made of nitinol and filter length to be upto 55 mm - catheter carrier system inner diameter should be of maximum 10 F size - it should be for optional (permanent or retrievable) use - it should be possible to place the filter from femoral/jugular/antecubital access		
40.04	IVC Filter - for optimal filtration of IVC diameter of upto 30 mm - made of conichrome material and filter length not more than 50 mm - should be able to be placed either through jugular or femoral approach - should be for optional (permanent or temporary) use		
40.05	Percutaneous mechanical thrombectomy catheter - should allow treatment of fresh and older thrombotic occlusions of peripheral arteries - should combines mechanical fragmentation and aspiration alongwith transport of debris outside thevascular system - should be available in both antegrade or cross-over configurations - For antegrade access – maximum shaft size should be 6F - For cross-over access – maximum shaft size should be 8F		
40.06	Urokinase for intra-arterial thrombolysis		
40.07	Tissue plasminogen activator for intra-arterial thrombolysis		
40.08	Infusion catheter - should have multiple side ports - should provide an Infusion length of 5-15 cm - should have a catheter tip occluder - should have attachment for Tuohy-Borst side arm adapter - should have a maximum OD of 5F - should be compatible with 035/038” wire - should have a shaft length of 60-100 cm		
40.09	Distal embolic protection device - should be on a .014” wire - should be made of nitinol material - should not occlude flow while in placement - should completely cover the vessel circumference at the desired placement site to afford complete protection - should have the least lesion crossing profile - should be available in various sizes for adapting to the vessel size		
40.1	Distal embolic protection device - should be on a .014” wire - should be made of nitinol material - should not occlude flow while in placement - should be rapid exchange type - should allow use of a separate .014/018” wire for initial crossing of the lesion - should be compatible with a 6F guiding catheter (0.066” ID) - should allow longitudinal wire movement with filter remaining in place - should be available in 3-7 mm sizes		
41	**Group -F17**		
41.01	Endovascular stent graft device for treatment of thoracic aortic aneurysms and dissections - Device should be with proximal barbs, with or without distal bare spring configuration, and should beeither tapered or non-tapered. - The aortic device should be available in any one or more of the following sizes: OD 26-44 mm; Length 4-24 cm. The device should be able to be advanced on upto 24F shaft size. - The manufacturer should agree to supply the size customized to the patient’s anatomy based on CTangiography		
41.02	Endovascular stent graft device for treatment of thoracic aortic aneurysms and dissections - Device should be without proximal barbs, without distal bare spring configuration, and should be eithertapered or non-tapered. - The aortic device should be available in any one or more of the following sizes: OD 26-44 mm; Length 4-24 cm. The device should be able to be advanced on upto 24F shaft size. - The manufacturer should agree to supply the size customized to the patient’s anatomy based on CT angiography		

41.03	Endovascular stent graft device for treatment of thoracic aortic aneurysms and dissection - Device should be without proximal barbs, with distal and/or proximal bare spring configurations, andshould be non-tapered. - The aortic device should be available in any one or more of the following sizes: OD 26-44 mm; Length 4-24 cm. The device should be able to be advanced on up to 24F shaft size. - The manufacturer should agree to supply the size customized to the patient's anatomy based on CT angiography		
41.04	Endovascular stent graft device for treatment of thoracic aortic aneurysms and dissection - Device should be without proximal barbs, with distal and/or proximal bare spring configurations, andshould be tapered. - The aortic device should be available in any one or more of the following sizes: OD 12-44 mm; Length 4-24 cm. The device should be able to be advanced on upto 24F shaft size. - The manufacturer should agree to supply the size customized to the patient's anatomy based on CT angiography		
41.05	Endovascular stent graft device for treatment of abdominal aortic aneurysms - Device should be with or without proximal barbs, with or without distal bare spring configuration, andshould be either tapered or non-tapered. - devices with or without transrenal or suprarenal fixation should be quoted. - The aortic device should be available in any one or more of the following sizes: OD 12-44 mm; Length 4-24 cm. The device should be able to be advanced on aupto 24F shaft size. - The limb extensions of the main device for abdominal aortic applications should be available in 12-22 mmdiameter, with or without flared ends and upto 12 cm in length - The manufacturer should agree to supply the size customized to the patient's anatomy based on CTangiography		
41.06	Endovascular stent graft device for treatment of abdominal aortic aneurysms - Device should be with proximal barbs, with or without distal bare spring configuration, and should beeither tapered or non-tapered. - devices with transrenal or suprarenal fixation should be quoted. - The aortic device should be available in any one or more of the following sizes: OD 12-44 mm; Length 4-24 cm. The device should be able to be advanced on aupto 24F shaft size. - The limb extensions of the main device for abdominal aortic applications should be available in 12-22 mmdiameter, with or without flared ends and upto 12 cm in length - The manufacturer should agree to supply the size customized to the patient's anatomy based on CTangiography		
41.07	Endovascular stent graft device for treatment of abdominal aortic aneurysms - Device should be without proximal barbs, with or without distal bare spring configuration, and should beeither tapered or non-tapered. - devices with transrenal or suprarenal fixation should be quoted. - The aortic device should be available in any one or more of the following sizes: OD 12-44 mm; Length 4-24 cm. The device should be able to be advanced on aupto 24F shaft size. - The limb extensions of the main device for abdominal aortic applications should be available in 12-22 mmdiameter, with or without flared ends and upto 12 cm in length -The manufacturer should agree to supply the size customized to the patient's anatomy based on CT angiography		
41.08	Endovascular stent graft device for treatment of abdominal aortic aneurysms - Device should be without proximal barbs, with or without distal bare spring configuration, and should beeither tapered or non-tapered. - devices without transrenal fixation should be quoted. - The aortic device should be available in any one or more of the following sizes: OD 12-44 mm; Length 4-24 cm. The device should be able to be advanced on aupto 24F shaft size. - The limb extensions of the main device for abdominal aortic applications should be available in 12-22 mmdiameter, with or without flared ends and upto 12 cm in length - The manufacturer should agree to supply the size customized to the patient's anatomy based on CTangiography		
41.09	Covered stent-graft (extender or iliac or contralateral limb) in diameters ranging from 12-22 mm and lengths ranging from 30-110 mm for over-the-wire delivery		

41.1	Peripheral vascular catheter for excision of artheroma- should have high rotation speed of the cutting mechanism without causing any trauma to the vessel –		
42	**Group -G1**		
42.01	PERMANENT PACEMAKERS WITH ALL LEADS AND ACCESSORIES • SSIR, • All single chamber modes and basic pacing programmable parameters. • Must have ventricular capture management • The size of lead must be 7 F or less. • The lead must be steroid eluting and should be both bipolar and unipolar configuration. • Must have both active and passive fixation endocardial leads available. • Life term replacement warranty • Direct presence of parent company in India (not only through the distributors) and company mustprovide its trained technical person for each implantation when ever required and for follow upprogramming when it is required. • Company must provide at least one programmer exclusively to the cardiology department. • Company must quote only the latest model of devices commercially available department.		
43	**Group -H1**		
43.01	Temporary pacing leads (FDA approved)		
43.02	Temporary pacing leads (CE approved)		
43.03	Temporary pacing leads (DCGI approved)		
43.04	Temporary pacing lead: woven interweaved, braided		
43.05	Temporary pacing leads: balloon floatable		
43.06	Bipolar catheter with central lumen038 wire compatible, variable length.		
43.07	Screw - in bipolar temporary pacing lead ≥ 65 cm		
43.08	Temporary lead for internal cardio version		
43.09	Long Sheaths /Introducers		
43.1	Long Sheaths /Introducers -Prefaced valved Long Sheaths For Rfa With Mullins Curve, Multipurpose Curve, Other Curves, 7f To 9f, at least 80- Cm Long, 0.038 Wire compatible		
43.11	Long Sheaths /Introducers -Bidirectonal, Steerable Long Sheaths with Variablereach, Autolock		
43.12	Long Sheaths /Introducers -Brite Tip Intervention Sheath with Tip Visualization, Kink Resistant, Cold Shape able With Silicon Coating		
43.13	Long Sheaths /Introducers -Introducer Sheaths For Electrophysiology, With Various Swartz curves SL 0-4, SR 0-4, 8F, 8.5F,9F		
43.14	Long Sheaths /Introducers -Long sheaths (peel away, slit table, with breakable valve) for special applications like coronary sinus intubation, lateral vein. Special curves like renal, hook shape etc		
43.15	Long Sheaths /Introducers -Peel Away Introducer Sheaths With Break Away Hemostatic Valves For pacing Leads, 5f-12f, 10 Cm – 30 Cm, Optional Infusion Side Port, Radio opaque edistal Tip And Multiple Curves		
43.16	Long Sheaths /Introducers -Multiport Catheter Introducer Sheaths		

43.17	Long Sheaths /Introducers -Pacing Lead Stabilizers		
43.18	Long Sheaths /Introducers -3-D Braided Steerable Guiding Introducer Sheath, Supporting transseptal Crossing, Atrial Ablation Procedures, With One Device delivery System Having All 8 Steering Curves (Sl And Sr), Can accommodate Multiple Sheath Sizes		
44	**Group -H2 (Diagnostic EP Catheters)**		
44.01	Quadripolar 6		
44.02	Quadripolar 5-7		
44.03	Quadripolar 5-7		
44.04	Quadripolar 5-7		
44.05	Quadripolar 5-7 4-2-		
44.06	Quadripolar 6		
44.07	Tripolar 5-7		
44.08	Tripolar 6		
44.09	Hexapolar 6		
44.1	Decapolar 5-7		
44.11	Decapolar 6		
44.12	Decapolar 5-7		
44.13	Decapolar 5-7		
44.14	Decapolar 5-7		
44.15	EP Cathters for Pediatric EP work -Quadripolar 4 2-5-2-		
44.16	EP Cathters for Pediatric EP work -Quadripolar 4		
44.17	EP Cathters for Pediatric EP work -Decapolar 4		
44.18	Woven EP Diagnostic Catheters (woven material with braided conducting wire, ensuring prolonged stability) -		
44.19	Woven EP Diagnostic Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Quadripolar 6		
44.2	Woven EP Diagnostic Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Quadripolar 5-7 2-5		
44.21	Woven EP Diagnostic Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Quadripolar 5 -7		

44.22	Woven EP Diagnostic Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Quadripolar5 -7		
44.23	Woven EP Diagnostic Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Hexapolar 6		
44.24	Woven EP Diagnostic Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Decapolar 6		
44.25	Woven EP Diagnostic Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Decapolar 5 -7		
44.26	Woven EP Diagnostic Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Decapolar 5 -7		
44.27	Woven EP Diagnostic Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Decapolar 5 -7		
44.28	Woven Pediatric EP Catheters (woven material with braided conducting wire, ensuring prolonged stability) -		
44.29	Woven Pediatric EP Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Quadripolar 4		
44.3	Woven Pediatric EP Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Quadripolar 4		
44.31	Woven Pediatric EP Catheters (woven material with braided conducting wire, ensuring prolonged stability) -Decapolar 4		
45	**Group –H3 [Special Catheters for AF, Flutter, etc (quote all diameters, french size, different electrodes like platinum or stainless steel)]**		
45.01	Deflect Decaduapolar (20 poles) for a flutter----all diameters		
45.02	Deflectable Decapolar (10)(PULM. VEIN)---all diameters		
45.03	Deflectable Decaduapolar (20) (PULM. VEIN)—all diameters		
45.04	2F Multipolar (> Ten electrodes) for mapping through coronary vasculature		
45.05	Basket Catheter with Accessory		
45.06	Crista Catheter with Accessories		
45.07	Other Special EP Catheters		
45.08	Pacing Catheter with Angiographic Capability • Variable Sizes • bipolar or quadripolar with appropriate cable • CVP monitoring & angiographic facility		
45.09	Paediatric Use: All the above Catheters, Sheaths, etc, for Paediatric Use - implying smaller French size like 4F,5F, with certification for use in children		
46	**Group -H4 (Ablation Catheters)** **(All Sizes 4F to 8.5F, ALL CURVES A-K, 270, all electrode sizes and spacing, eg.) (all items differing in make/prices need to be mentioned separately. Quote separately if different in terms of material, braiding, electrode material platinum or stainless steel etc) quote with appropriate connector to existing EPT 1000 and Stockert Ablators. EPT 1000 is not compatible with Thermocouple and appropriate catheters/ connectors should be quoted. Thermistor catheters would therefore by preferred. In addition give prices of all connector cables /accessories separately.**		
46.01	Regular 4mm All		

46.02	Regular 8mm		
46.03	Regular 3.5mm All		
46.04	Regular 8mm		
46.05	Regular 4mm		
46.06	Cool Tip (Closed) Any		
46.07	Irrigated Tip (Open) Any		
46.08	Others Any		
46.09	Bidirectional Any		
46.1	Omnidirexnl Any		
47	**Group -H5 (Catheters, Cables, Accessories, for Carto system and Thermocool Infusion Pump)**		
47.01	Navistar catheters regular		
47.02	Navistar catheter irrigated tip		
47.03	Location patch carto system (refstar)		
47.04	Connecting cables for all catheters		
47.05	Access/tubings for cool flow pump and any other accessories		
47.06	CATHETERS, CABLES, ACCESSORIES FOR ENDOCARDIAL SOLUTIONS (ESI) ACCESSORIES • Should be compatible with the available system		
47.07	Navex Patches		
47.08	Balloon Array		
47.09	Other Accessories (quote each separately)		
47.1	Catheters/Accessories for Loca Lisa		
47.11	Reusable Defibrillation/Transcutaneous Pacing Patches (suitable for Equipment in Cath Lab, CT2, CT3, CT6)		
47.12	DISPOSABLE DEFIBRILLATION/TRANSCUTANEOUS PACING PATCHES (suitable for Equipment in cath lab, CT2, CT3, CT6)		
47.13	Defibrillation/Transcutaneous pacing patches for Use In Infants and children		
47.14	Cryo Catheters (and accessories) for Ablation of Arrhythmias in Children and Adults		

47.15	Intra cardiac Ultrasound/Echo Catheter For Guiding RFA compatible with the existing echo machine at NEIGRIHMS (quote all prices of the Catheters and Accessories)		
47.16	DISPOSABLE ELECTROCAUTERY PATCHES FOR RFA (SUITABLE FOR STOCKERT AND EPT 1000 ablators) REUSABLE ELECTROCAUTERY PATCHES FOR RFA (SUITABLE FOR STOCKERT AND EPT 1000 ablators) ELECTROCAUTERY PENCILS FOR USE IN DISSECTION		
48	**Group -H6 (Pacemaker Lead Extraction Systems -mention each system price and also individual accessories)**		
48.01	Laser Guided Lead Extraction System with Accessories (FDA/CE certified)		
48.02	RF Guided Lead Extraction System With Accessories (FDA/CE certified)		
48.03	Other Extraction SystemS (FDA/CE approved)		
48.04	Accessories for Lead Extraction like Locking Stylet, Other Accessories		
48.05	Intracardiac Echocardiographic (ICE) Catheter		

Note:

1. Two fracture set with all accessories to be provided on returnable basis to Faculty /In-charge of department to be returned during the entire contract period
2. Component wise for all sizes to be offered by the Vendor
3. Vendor /Manufacturer to provide compatible implant specific instrumentation sets for each procedure with technical manpower support within 24 hours of intimidation by SMS /E –mail from concerned Faculty.
4. Consumables, Accessories, Implantable Devices, etc on consignment basis shall be recovered on case to case basis, as per notified prevailing rates.
5. The cost of Consumables, Accessories, Implantable Devices, etc on consignment basis shall be remitted by the beneficiary to Bank of Baroda, Mawdiangdiang, (S/B Account no. 30270100005127, IFSC Code: BARB0MAWDIA, Name: NEIGRIHMS Hospital revolving Fund") by Challan or RTGS, prior to the commencement of the procedure. Receipt / e-receipt shall be verified by the Nursing Officer/ senior most technicians on duty and concerned Faculty. The challans under "NEIGRIHMS Hospital Revolving Fund" shall be available with the stores, user department and on the website of the Institute. The same can be deposited with the consent of user department /stores to Bank of Baroda, NEIGRIHMS campus branch by Challan or RTGS. Copy of the receipt/ e-receipt of financial transaction shall be retained in the respective department and copy forwarded by the department to Central Medical Stores / MRD for records.
6. To give demonstration of loading and implantation of IOLs
7. To give replacement in case there is damage/breakage of IOL during loading or implantation
8. Component wise price
9. The "Hospital User Charges" for the services, procedure shall be remitted to the respective payment counter/ MRD, prior to the commencement of the service/ procedure, receipt / e-receipt shall be verified by the Nursing Officer/ Senior Most Technicians on duty and concerned Faculty). Copy of the financial record shall all be retained in the respective departmental and MRD records.
10. The cost of consumables, accessories, implantable devices etc "on consignment basis" shall be recovered on case-to-case basis, as per notified prevailing rates through open e-tender rate contract/ GeM, which shall be available with the department, MRD, Hospital Administration and the Institute's website.
11. The cost of consumables, accessories, Implantable devices, etc 'on consignment basis' shall be remitted by the beneficiary to Bank of Baroda, Mawdiangdiang (S/B Account no. 3 30270100005127; IFSC Code: BARBOMAWDIA; Name: NEIGRIHMS Hospital Revolving Fund") by Challan or RTGS, prior to the commencement of the procedure. Receipt / e-receipt shall be verified by the Nursing Officer/ Senior Most Technicians on duty and concerned Faculty. The challans under "NEIGRIHMS Hospital Revolving Fund' shall be available with the stores, user department and on the website of the Institute. The same can be deposited with the consent of user department /stores to Bank of Baroda, NEIGRIHMS campus branch by Challan or RTGS. Copy of the receipt/ e-receipt of financial transaction shall be retained in the respective department and a copy forwarded by the department to Central Medical Store / MRD for records.
12. The Department should maintain a log book of stores, assistive devices, instrumentation set, service details, equipment, etc provided to the department by the rate contracted vendor in order to fulfill the medical procedures as may be required/ certified by the Head of department/ Faculty In charge. All

details in regard to the vendor/ supplier name, address, contact no, stores provided with cost, warranty period, services provided, repair and maintenance requirement should be clearly recorded.

13. In the process of replenishment of stores thereafter, the Pharmacist / Superintendent Pharmacist , Central Medical Stores shall verify receipt/ e-receipt/challan the procedure/services performed in the respective department, cost of stores utilized from the ” consignment basis /buffer stock" as per record and the inventory of the user department shall be processed for replenishment as per notified prevailing rates through open e-tender rate contract/ GeM, with certification of the concerned Faculty in charge and MS/DMS. The Pharmacist /Superintendent Pharmacist and concerned department shall ensure receipt of stores of the quantity required as per specifications, based on usage. Pharmacist/ Storekeeper will take necessary steps to replenish stocks well in time to avoid any difficulty in supply on account of any item going out of stock.
14. All Standard Operating Procedures (SOP) are as per Office Order No: NEIGR/S&P/S -07/2017 -18/ (Policy); 23.06.2020 for processing of stores /items on consignment basis
15. The Company has to give demonstration of loading and implantation of stores /items.
16. The Company has to give replacement in case there is damage /breakage during loading or implantation during surgery.
17. Fixed cost for all sizes