

JAMMU AND KASHMIR MEDICAL SUPPLIES CORPORATION LTD.

(Public Sector Undertaking of the Government of Jammu and Kashmir)

Corporate Head Office: Plot No. 58, Friends Colony Satyam Road Trikuta Nagar Jammu

Corporate Office: Opposite J&K Motor Garage Deptt near Hajj House Bemina Srinagar

Telephone: 0191-2478842; 191-3510489 (Jammu), 0194-2490662 (Srinagar)

email: mdjkmscl2@gmail.com; ismjkmscl2018@gmail.com **website:** www.jkmsclbusiness.com



**E-BID FOR THE PROCUREMENT OF MACHINERY & EQUIPMENTS
OPERATION THEATRE EQUIPMENTS
FOR STATE CANCER INSTITUTE**

(REFERENCE No: NIT/JKMSCL/M&E/2023/575 DATED: 09/02/2023)

LAST DATE OF SUBMISSION OF ONLINE BIDS: 16-03-2023 upto 1600 hrs

Important Note: *Each page of e-Bid should be properly page marked and indexed. Page Number should be reflected at the bottom of each page. All documents requested in "Annexure-II", should be reflected in the column mentioned against each (Page No. ____). Any deviation may result in rejection of the bid and the bidder shall be solely responsible for the same.*

BIDDING DOCUMENT FOR PROCUREMENT OF MACHINERY & EQUIPMENTS

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(To be submitted on letter head of Firm)

Bid Submission Letter
(Declaration Form)

Sub: - Regarding Bid submission for **NIT/JKMSCL/M&E/2023/ 575**

DATED 09 -02-2023

I/We..... *(Name, Designation and Address of Bidder)* having our office at..... *(Address of Firm)* do hereby declare that I/We have read all the terms & conditions of the bid document floated by JKMSCL and agree to abide by all the terms & conditions set forth therein.

I/We declare that we are participating in this bid in the capacity of *(Manufacturer /Direct Importer/ Authorized representative of the original manufacturer)* I/We have enclosed all the requisite documents and are as per the requirement of the NIT.

I/We further declare that the rates offered by us shall remain valid for the period of 24 months extendable for a further period of three months and shall reduce the rates, if the rates are reduced by us for any other buyer during this period within Union of India. **I/We have enclosed the documents as per details given in Annexure I of the NIB and other documents asked in NIT.**

We further undertake to abide by all the terms & conditions of the NIB.

Dated

Name and signature of bidder with seal



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email: mdjkmscl2@gmail.com; ismjkmscl2018@gmail.com **website:** www.jkmsclbusiness.com

Tender No. NIT/JKMSCL/M&E/2023/575

Dated: 09/02/2023

NOTICE INVITING TENDER

On Behalf of Jammu & Kashmir Medical Supplies Corporation Limited, e-bid under two cover system (Technical bid in cover 1 and Financial bid in cover-2) is invited for the finalization of Rate Contract for the procurement of **“Machinery & Equipment”** from the Original manufacturers / Direct importers/ Authorized Representatives of the manufacturers/ direct importers. Detailed tender document may be downloaded at J&K Govt. Portal www.jktenders.gov.in, www.jkmsclbusiness.com. The cost of the tender along with tender processing charges of Rs.10,000/- (Rupees Ten thousand only/-) i.e. Rs.1,000/- (Rupees one thousand only) as cost of tender & Rs.9,000/- (Rupees Nine thousand only) as tender processing charges shall have to be paid either through **NEFT/RTGS only** in the Corporation's Bank Account No. 0373040500000032 maintained at J&K Bank Limited, Branch Medical College Jammu, IFSC Code JAKA0MEDJAM **or by depositing the amount directly into the above Account No.** along with the submission of requisite valid documentary proof.

- **IMPS mode of transfer is not verifiable and hence shall not be entertained as tender fee or tender processing charges. Bidders claiming to submit money through IMPS Mode shall be out-rightly rejected.**
- **DD as mode of payment for cost of tender/tender processing fees/Bid Security shall only be entertained if the same is deposited physically against proper receipt in the Corporate Office of JKMSCL, before the closing due date of e-bid.**
- **Bid Security** Rs. 1,00,000.00 in the form of FDR/CDR/BG/RTGS/NEFT (FDR/CDR from scheduled/Nationalised Bank / BG from Nationalised Bank) with validity of 30 months. Bids submitted without sufficient bid security & validity shall be summarily rejected. **Firms which are registered as (Micro and Small Enterprise) MSEs Unit(s) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) shall be considered for Exemption of bid security including tender fee of Rs. 1000/- as per provisions of MSME Policy. Tender Processing charges of Rs. 9000/- is to be paid by the MSE Unit(s) also.**
- Physical hard copy of Bid Security in form of FDR/CDR/BG may be submitted to the Corporate Head Office before closing the due date of e-bid. Scanned copy of the same shall be uploaded along with Technical Bid, failing which bid shall be out rightly rejected.
- **The bidders seeking EMD exemption must submit the valid supporting document for the relevant category. Under MSE category only manufacturers for goods and service providers for services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.**
- **Scanned copies of NEFT/RTGS/Bank Transfer/Receipt towards the cost of tender documents and tender processing charges shall have to be uploaded along with Technical Bid, failing which bid shall be out rightly rejected.**

Sd/-

Managing Director

Jammu and Kashmir Medical Supplies Corporation Ltd.

Note: The bidders who opt to bid for multiple manufacturer shall have to provide complete details of each manufacturers in a systemic way covering all documents asked in Cover-A. Separate sheet shall have to be attached for every individual item.



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**BIDDING DOCUMENT FOR
Procurement of Machinery & Equipment**

Tender No. NIT/JKMSCL/M&E/2023/575

: 09-02-2023

Date of publication of e-bid

: 09-02-2023

Start date and time for download of bid document

: 09-02-2023

Last date and time for download of bid document

: 16-03-2023 at 1600 hrs

Clarification start date

: 08-02-2023 at 1100 hrs

Clarification end date

: 20-02-2023 upto 1400 hrs

Pre- bid conference

: 20-02- 2023 AT 11.00 A.M

(at Corporate Office, Jammu/Srinagar)

Start date and time for submission of online bids

: 09-02-2023 at 1500 hrs

Last date and time for submission of online bids

: 16-03-2023 at 1600 hrs

Date and time for online opening of technical bids

: 17-03-2023 at 1100 hrs

Cost of tender document

: Rs. 1000/-

Tender Processing charges

: Rs. 9000/-

ADDRESS FOR COMMUNICATION:

**Managing Director or General Manager,
J&K Medical Supplies Corporation Ltd,**

Address: Plot No. 58, Friends Colony
Satyam Road Trikuta Nagar, Jammu
Bemina Near Haj House- Srinagar
(Kashmir)

Note: -

1. The bidder shall have to get themselves updated with the date & time fixed for Pre-bid as per the item list. After pre-bid meeting necessary changes in bid conditions shall be done with the recommendations of panel of technical experts drawn from the intending department after the approval of the competent authority. Bid should be submitted through e-portal www.jktenders.gov.in after pre-bid meeting including all the clarifications/ modifications/ amendments.
2. Corrigendum/addendum shall be the integral part of terms & conditions of bid which shall be duly signed and attached with the bid document by the bidder.
3. The JKMSCL is not bound to accept the lowest bid and may reject any/part

thereof or all bids without assigning any reason thereof.

4. The bidders shall have to submit a **GST No. and valid 'GST'** clearance certificate/returns submitted from the taxation department and the 'PAN' issued by income tax department.
5. It is clarified that the information required in bidding document should be submitted only in enclosed format bidding forms without any change or modification in its formats. Bids submitted with changed or modified annexure/ formats shall be rejected.
6. Information of award of contract shall be communicated to all participating bidders on the website www.jktenders.gov.in, www.jkmsclbuisness.com

Note: -

If any amendment/clarification is carried out in the technical specifications and bid terms & conditions following pre-bid meeting or any other information, the same shall also be uploaded on the websites mentioned above and the bidders shall keep themselves updated by regularly visiting the website/jk portal.

Important Note:

- 1. No representation shall be allowed, accepted and entertained after the Pre-bid meeting (i.e upto 4.00 P.M of Pre-bid date). Bidders are requested to submit their queries/clarifications by or before the date fixed (mentioned above), so that the same can be discussed and clarified during the Pre-bid meeting.**
- 2. Google Code :** meet.google.com/isp-exjs-ipj

TABLE-1

S. No.	Item code	Name of the item	Average Annual turnover for last 03 years
1.	ON2301	Shadowless LED OT light double dome.	05 Crore
2.	ON2302	Suction Machines.	05 Crore
3.	ON2303	Electro Surgical Unit	05 Crore
4	ON2304	Bipolar TURP Set Resectoscope.	05 Crore
5	ON2305	Laproscope system including 2D and 4K endoscopic camera.	05 Crore
6	ON2306	CUSA (Cavitron Ultrasonic Surgical Aspirator).	05 Crore
7	ON2307	Operative Colour Doppler for Onco-Surgery with Intra-Operative probe.	05 Crore
8	ON2308	C-Arm (Image Intensifier).	05 Crore
9	ON2309	Operative Chair and Stool.	05 Crore
10	ON2310	Laser System.	05 Crore
11	ON2311	Radiofrequency advanced electrosurgical system with bipolar resection & vessel sealing.	05 Crore
12	ON2312	Head Light.	05 Crore
13	ON2313	Surgical Loupe (magnification). A. 2.5X, B. B 3.5X	05 Crore
14	ON2314	Video laryngo - Bronchoscopy flexible adult and pediatric.	05 Crore
15	ON2315	Stem sterilizer.	05 Crore
16	ON2316	Ultrasound cleaner.	05 Crore
17	ON2317	Mandibulectomy set.	05 Crore
18	ON2318	Biopsy set.	05 Crore
19	ON2319	Oral and dental extraction set.	05 Crore
20	ON2320	Washer Dis-infectant.	05 Crore
21	ON2321	Microdrill with oscillating set.	05 Crore
22	ON2322	3D FICamera Control Unit (CCU)	05 Crore
23	ON2323	Operating Microscope.	05 Crore
24	ON2324	Combined Highend RF, Argon Plasma and water jet surgical work station with automatic surgical smoke evacuation system.	05 Crore
25	ON2325	Integrated bipolar & ultrasonic coagulation & cutting unit.	05 Crore
26	ON2326	OMNI tract abdominal retractor.	05 Crore
27	ON2327	Book walter's abdominal retractor.	05 Crore
28	ON2328	Integrated ultrasonic cutting & coagulation device with advance tissue & vessel sealer for open & laparoscopic surgery.	05 Crore
29	ON2329	Gamma probe detection system	05 Crore
30	ON2330	Fluorescence definition camera system for open surgery.	05 Crore
		Instruments	

31	ON2331A	General Surgical Set	02 Crore
	ON2331A	Big General Set	02 Crore
	ON2331A	General Major Basic Surgery Set	02 Crore
	ON2331A	Advanced Laparoscopy Hand Instrument	02 Crore
	ON2331A	Basic Instrument set	02 Crore
	ON2331A	Breast Set	02 Crore
	ON2331A	General Instrument Set	02 Crore
	ON2331A	Abdominal Set	02 Crore
	ON2331A	Tracheostomy Set	02 Crore
	ON2331A	Vascular Set	02 Crore
	ON2331A	Paediatric General Instruments set	02 Crore
	ON2331A	Onco Surgery Set	02 Crore
	ON2331A	Vascular Set for GI/Uro/Thoracic	02 Crore
	ON2331A	Vascular Setfor H&N/BST/Neuro	02 Crore
	ON2331A	Surgical Exposure System	02 Crore
	ON2331A	Uro Nephrectomy (donor) set	02 Crore
	ON2331A	Urorib Resection Set	02 Crore
	ON2331A	Urokidney Set	02 Crore
	ON2331A	Uro Balfour Set	02 Crore
	ON2331A	Uro Nephrectomy Vascular Set	02 Crore
	ON2331A	Uro Vascular Fine Set	02 Crore
	ON2331A	Uro Micro Instrument Set	02 Crore
	ON2331A	UroMinor Set	02 Crore
	ON2331A	Uro Forcep Set	02 Crore
	ON2331A	Vasectomy Spermatic Eyelid clamp Set	02 Crore
	ON2331A	Uro Vascular eyelid Instrument Set	02 Crore
	ON2331A	Retractor For Urologic Surgery System	02 Crore

The Average Annual Turn Over required for the above items pertaining to Group “Procurement of Machinery & Equipment” is mentioned above. Only the bid(s) falling under the category as specified under Annual Turnover is accepted. The bid(s) not falling under the Annual Turnover clause shall be out rightly rejected. Only manufacturer(s) or Importer(s) fulfilling the turnover clause shall be eligible to participate the e.bid.

Note:

- 1. The catalogues/brochures of the item shall be submitted along with the EMD in separate envelopes, prior to submission of online bids. The catalogues/brochures pertaining to the equipment information should be signed by the authorized signatory of the manufacturer.**
- 2. No minimum quantity is guaranteed and the bidder shall not claim any compensation from the Jammu & Kashmir Medical Supplies Corporation Ltd.**

DISCLAIMER

The information contained in this bid document for proposed procurement or subsequently provided to the Bidder(s), in documentary or any other form by or on behalf of the Jammu and Kashmir Medical Supplies Corporation Ltd. (procuring entity) or any of its employees or advisors, is provided to bidder(s) on the terms and conditions set out in this bid and such other terms and conditions subject to which such information is provided to the bidder.

Whilst the information in this bid has been prepared in good faith and contains general information in respect of the proposed procurement, the bid is not and does not purport to contain all the information which the bidder may require.

Jammu and Kashmir Medical Supplies Corporation Ltd., does not accept any liability or responsibility for the accuracy, reasonableness or completeness of, or for any errors, omissions or misstatements, negligent or otherwise, relating to the proposed procurement, or makes any representation or warranty, express or implied, with respect to the information contained in this bid or on which this bid is based or with respect to any written or oral information made or to be made available to any of the recipients or their professional advisers and liability therefore is hereby expressly disclaimed.

This document is neither an agreement and nor an offer or invitation by the Jammu and Kashmir Medical Supplies Corporation Limited, (hereinafter referred to as "procuring entity") to the prospective bidders or any other person. The purpose of the bid document is to provide interested parties with information to assist the formulation of their proposal/offer. The information contained in this bid document is selective and is subject to updating, expansion, revision, and amendment. Each recipient must conduct its own analysis of the information contained in this bid document or to connect any inaccuracies therein that may be in this bid document and is advised to carry out its own investigation into the proposed procurement, the legislative and regulatory regime which applies thereto and by and all matters pertinent to the proposed procurement and seek its own professional advice on the legal, financial, regulatory and taxation consequences of the entering into any agreement or arrangement relating to the proposed procurement.

This bid document includes certain statements, estimates and targets with respect to the procurement. Such statements, estimates and targets reflect various assumptions made by the procuring entity, (and the base information on which they are made) which may or may not prove to be correct. No representation or warranty is given as to the reasonableness of forecasts or the assumptions on which they may be based and nothing in this bid document is, or should be relied on as, a promise, representation, or warranty. Bid document and the information contained therein is meant only for those applying for this procurement, it may not be copied or distributed by the recipient to third parties, or used as information source by the bidder or any other in any context, other than applying for this proposed procurement.

The procuring entity is, its employees and advisors make no representation or warranty and shall have no liability to any person, including any bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or

otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this bid document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the bid document and any assessment, assumption, statement or information contained therein or deemed to form part of this bid document or arising in any way for participation in this bidding process.

The procuring entity also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any bidder upon the statements contained in this bid document.

The procuring entity may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this bid document.

The issue of this bid document does not imply that the procuring entity is bound to select a bidder or to appoint the selected bidder or bidder, as the case may be, for the procurement and the procuring entity reserves the right to reject all or any of the bidders or bids at any point to time without assigning any reason whatsoever.

The bidder shall bear all its costs associated with or relating to the preparation and submission of its bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the procuring entity or any other costs incurred in connection with or relating to its bid. All such costs and expenses shall remain with the bidder and the procuring entity shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a bidder in preparation or submission of the bid, regardless of the conduct or outcome of the bidding process.

Any information/documents including information/ documents pertaining to this bid or subsequently provided to bidder and/or selected bidder and information/documents relating to the bidding process; the disclosure of which is prejudicial and/or detrimental to, or endangers, the implementation of the procurement is not subject to disclosure as public information/documents.

Managing Director
Jammu and Kashmir Medical Supplies Corporation Ltd

Section-I Instruction To Bidders (ITB)

Before uploading bid, kindly go through the following instructions carefully so that your bid may not be considered invalid:

Clause No.	Description
1.	Go through the terms and conditions, annexure and other forms of the document carefully and meticulously & get your digital signatures available for uploading.
2.	Bid form must conform the terms & conditions of the bid documents and Technical Bid in Cover-'A' & Financial Bid in Cover-'B' to be uploaded on www.jktenders.gov.in. The receipt for cost of tender, tender processing fee and catalogues of the quoted items shall be submitted in the office of JKMSCL atleast one day prior to submission of online bids.
3.	It is expected from all bidders that CDR/FDR/BG in separate envelope shall be deposited with the authorised person of JKMSCL at reception against proper receipt from the concerned.
4.	Correspondences/Complaints lodged to JKMSCL should bear signature, name, I.D proof and mobile number of the complainant. Unauthenticated correspondence/complaints may not be acted upon. If any bidder intends to lodge a complaint or make a suggestion with regards to some bid condition, it shall be done in the Pre-bid conference, in the office of JKMSCL in writing. After the stipulated period as decided by the JKMSCL, no such complaint/ suggestion would normally be considered.
5	Certificates/Licenses/Documents which are required should be complete and updated. The bidder shall submit acceptance of terms and conditions of the tender document.
6	If there is any query in bid document/uploading process, bidder may contact JKMSCL office at Jammu/Srinagar during working hours i.e 1000 hrs to 1600 hrs on ph. 0191-2580842, 0194-2432008 or e-mail on gmkjkmscl1@gmail.com / jkmssclem@gmail.com / gmijkmscl@gmail.com
7.	In case a bidder is given any assurance what so ever of being provided with any advantage in JKMSCL by anybody or if a bidder is directly or indirectly threatened of being put to some deliberate disadvantage in the bidding process & in the bidder's subsequent association/ working with JKMSCL, it is requested that the concerned must immediately inform about the same to the Managing Director, JKMSCL/G.M-J(Adm), JKMSCL in writing or through e-mail on gmijkmscl@gmail.com . It is advised that evidence of such unfair activity of such person, if available, is produced along with the complaint, so that action can be taken against such a person(s) and that their details can be put on the website so that other bidders can be forewarned in this regard.
8	The Bidders shall have to submit a GST No. & GST clearance certificate/return submitted from the concerned commercial taxes officer and the 'PAN' issued by income tax department.
9	It is clarified that the information required in bidding document should be uploaded as per enclosed bidding form without any change or modification in its formats. Bids submitted with changed or modified annexure/ formats shall out rightly be rejected.

10	The declaration of technical bid in respect of responsive/non responsive bidders shall be uploaded on website www.jktenders.gov.in Similarly, information regarding financial bid (L-1) shall also be provided to bidders on above websites. Individual bidders shall not be informed separately.
11	No firm/bidder/manufacture/importer shall provide/supply any of the product item at the rate contract /approved by JKMSCL to any of the department/NGO/other procuring institute within or outside the Union Territory of J&K. In case any supply is made in violation to the said condition (or), the supplier/firm shall be liable to be penalised to the tune of 7.5% of order placed/blacklisting for a period not less than five years (or) both as deemed fit, to the competent/Tender Inviting Authority. However, JKMSCL can procure the items for any of the departments within /outside the Union Territory of J&K/after charging the administrative expenses.
12	The qualified bidders are required to submit the relevant documents and annexure uploaded with their e.bid in original along with catalogues at the time of issuance of LOI /execution of agreement before issuance of rate contract.
13	The bidder shall not under any circumstances quote "Zero" anywhere in the BOQ.
14	<p><u>Important Instructions to bidders</u></p> <p>The bidders shall have to abide the clauses/restrictions in terms of Rule 144 (xi) of the General Financial Rules (GFRs) issued by the Ministry of Finance, Department of Expenditure, Public Procurement Division vide No. F.No.6/18/2019-PDD dated 23.07.2020.</p> <p>The bidders are required to submit a certificate/ declaration regarding their compliance with this order. If such certificate given by a bidder whose bid is accepted and is found to be false, it will be a ground for immediate termination & further legal action in accordance with law. Bidders are required to go through the said order & Office Memorandum (s) for the necessary compliance</p> <p>Model Certificate for tenders</p> <p><i>"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that this border is not from such a country and is eligible to be considered."</i></p> <p>Model Certificate for Tenders</p> <p><i>"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fullfills all requirements in this regard and is eligible to be considered (where applicable, evidence of valid registration by the competent Authority shall be attached)"</i></p>

Section-II: Bid Data Sheet (BDS)
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S. No.	Description	Pages
1.	Introduction	
2.	Bidding Document	
3.	Preparation of Bids	
4.	Submission and Opening of Bids	
5.	Evaluation and Comparison of Bids	
6.	Award of Contract	
7.	Redressal of Grievances during Procurement Process	

Section III: Evaluation and Qualification Criteria

2. Qualification Criteria

The lowest evaluated bidder shall have the necessary qualifications to successfully fulfil its obligation under the contract. Minimum acceptable levels with regards to bidder's experience in supply of goods and related services with comparable technical parameters, its financial capability and other factors are defined.

Clause No.	Description
1.	Contractual experience:- The bidder shall be an original manufacturer; direct importer; (or) authorised representative of the original manufacturer/direct importer, who must have manufactured/ imported, supplied and installed such equipments in India satisfactorily. The list of such installations may be asked from the bidder and the bidder should submit self attested copy of purchase order, indent and invoice (inclusive of quantity & rate).
2.	Technical experience:- Client Base on Letter Head of the Bidder / Manufacture/Indian Subsidiary of Principal Manufacturer with references of the supply orders, for any of the three years in last five years along with satisfactory performance certificate of minimum one installation (Copies of reference supply orders and satisfactory performance certificate need to be attached)
3.	Production capacity : The JKMSCL may fix the minimum supply and/ or production capacity required to assure that the bidder is capable of supplying the type, size and quantity of goods required. It should be dedicated quantity to JKMSCL on monthly and annual basis. Production capacity certificate be attached with uploaded document.
4.	Financial position:- The soundness of the bidders financial position showing long term profitability demonstrated through audited annual financial statement (balance sheet, income statement etc.) for last three years.
5.	Cash Flow capacity : The bidder should have sufficient availability of/ access to liquid assets, lines of credit and other finances to meet the possible cash flow requirement which may arise during the execution of the rate contract.
6.	Litigation history:- The information regarding all pending claims, arbitration, or other litigation is asked by the JKMSCL
7.	Tax clearance certificates:- The Latest GST returns and other tax clearance certificate (latest) or declaration to be submitted by the bidder. Bidders shall have to submit a valid & latest 'GST' clearance certificate/return submitted online as per GST rules along with GST No. and the 'PAN' issued by concerned department.
8.	Declaration regarding qualifications :- Declaration regarding qualifications of the bidder shall be given in specified format provided in bidding forms.

1. Evaluation Criteria

Claus	Description
1.	Scope
1.1	Local handling and inland transportation:- The cost for Inland transportation, insurance, related services, installation, commissioning, demonstration and other incidental costs for delivery of goods, or port of entry, or supply point to consignee site, schedule of supply shall be quoted in price schedule.
1.2	Minor omission and missing items:- Pursuant to the relevant clauses, the cost of all quantifiable non-material non-conformities or omissions from the contractual and commercial conditions shall be evaluated. The procuring entity will make its own assessment of the cost of any non-material non-conformities and omissions for the purpose of ensuring fare comparison of bids.
2.	Technical Criteria:- The minimum technical level that the goods and related services shall have in order to comply with the Section V, schedule of supply are specified. These criteria are evaluated on a pass-fail system, with a minimum acceptable level for each criteria enumerated in technical specifications of item. However, a minor deficiency in technical compliance may not be cause for rejection of the bid.
3.	Economic Criteria: - The economic criteria are most important when evaluating a Bid. The price, however, may not be the only criterion, as there could be technical evaluation that may be expressed in mandatory terms i.e. cost per test etc. The following may be examples: - 3.1, 3.2....
3.1	Adjustment for deviations in the delivery and completion schedule: - The deviation from the delivery and completion schedule specified in Section V, schedule of supply are permitted. No credit will be given for earlier completion.
3.2	Operation and maintenance cost: The operation and maintenance costs of equipments are taken into account for bid evaluation purposes. The methodology is elaborated at BOQ for determining lowest bid (L-1).
3.2	Spare parts: - Only those spare parts and tools which are specified on an item wise basis in the list of goods and related services, schedule of supply shall be taken in account in bid evaluation. Supplier recommended spare parts for specified operating requirement shall not be considered in bid evaluation. The price for evaluating L1 (as per BOQs) shall be decided on the basis of cumulative rates of Main item, Accessories (wherever asked) /Indian items (wherever asked) i.e cost of main item + cost of Accessories = Total cost of equipment.
3.3	Performance and productivity of goods:- The performance and productivity of the equipments shall be as per the reference value or norms specified in technical specification of an item and corresponding value guaranteed by the bidder in its bid.
4.	Price preference:-
4.1	The price preference shall be given in evaluation of bids and award of contract as per MSME Policy in vogue.
4.2	Taxes as applicable, should be mentioned clearly and separately.

Section IV: Bidding Forms

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S.No	Name of Bidding Forms	Pages
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2	Bid / Tender charges (Incl. Tender processing fee)	
3	List of Items Quoted (Annexure I)	
4	Technical bid submission sheet (Annexure II)	
5	Financial bid format (BOQ) (Annexure III)	
6.	Declaration and undertaking (Annexure IV)	
7	Client Base (Annexure V)	
8	Authorisation from principal manufacturer (Annexure VI)	
9	Average Annual Turnover Statement (Annexure VII)	

(Annexure I)

On Firm's letter head

LIST OF ITEMS QUOTED IN THE BID

S. No.	Tender Sr. No.	Code	Name of Item	Manufactured By	Imported by	Make & Model quoted/ offered	<u>Quality Certification</u>				
							BIS License	ISO	CE	USFDA	Any Other

**Seal & Signature
(Authorised Signatory)**

Annexure II

(To be submitted on Firms' letter head)
Technical Bid Submission Sheet (Cover 'A')

Managing Director

Jammu & Kashmir Medical Supplies Corporation Ltd.

J&K

We, the undersigned, declare that:

1. I/Wehave examined and have no reservations to the bidding document of NIB No. dated.....including addenda/clarification No.:.....dated We offer to supply in conformity with the bidding document and in accordance with the delivery schedule specified in Section V, schedule of supply, the following goods and related services..... *Name of the item and Guarantee period plus etc.*
2. Our bid shall be valid for a period of minimum 120 working days from the date of technical bid opening in accordance with the bidding document, and it shall remain bidding upon us and may be accepted at any time before the expiration of that period. However, validity may also be extended with mutual consent;
3. If our bid is accepted, we commit to submit a performance security in the amount of 3% of the contract price or as specified in bid document for the due performance of the contract;
4. Our firm, including authorised representative for any part of the contract, have nationalities from the eligible countries;
5. I/We are not participating, as bidders, in more than one bid in this bidding process, in the bidding document;
6. Our firm, its affiliates or subsidiaries, including authorised representative has not been debarred by the Union Govt/any State Government or the procuring entity.
7. I/We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;
8. I/We agree to permit the JKMSCL to ask any relevant documents. I/We shall be bound to provide the said relevant document within the specified period.
9. My/our quoted items..... (*Name of item*).....fully comply with the technical specifications as per bid document Section V, schedule of supply.
10. **The bidder shall ensure that the bid document sheet shall be properly filled with particulars, page numbering and tender document should be properly numbered.**
11. I/We certify that I/We have annexed the following documents with particulars & page No. mentioned against each column :

S. No	Item	Particular	Manufacturer			
			M1	M2	M3	M4
1.	Bid security (as mentioned above)					
2.	Cost of Tender & Tender Processing charges					
3.	List of Items quoted by the Bidder mentioning name of manufacturer/ importer with make & model as per annexure.	Annexure I				

4	Copy of Catalogue of the Quoted product (self attested)					
5	Compliance Sheet for each equipment (self attested)					
6	Technical bid submission sheet duly filled	Annexure II				
7	Financial bid (To be uploaded in BOQ only)	Annexure III				
8	Declaration for Latest Non Conviction, non blacklisting on non judicial Stamp paper of Rs 100 furnished by the Principal Manufacturer / Sole Importer/ Indian Subsidiary as per proforma duly notarised.	Annexure IV A				
9	Declaration for Latest Non Conviction, non blacklisting on non judicial Stamp paper of Rs 100 furnished by the Bidder as per proforma duly notarised.	Annexure IV B				
10	Client Base on Letter Head of the Bidder / Manufacture/Indian Subsidiary of Principal Manufacturer with references of the supply orders, for any of the three years in last five years along with satisfactory performance certificate of minimum one installation (Copies of reference supply orders and satisfactory performance certificate need to be attached)	Annexure V				
11	Authorisation from principal manufacturer / Importer <i>(On the letterhead of Principal manufacturer / Sole Importer)</i> <i>In case authorization to the bidder is furnished by the Sole Importer/Indian Subsidiary, document confirming authorization from foreign Principal Manufacturer in favour of Indian Subsidiary / Sole Importer is to be submitted (strictly as per annexure VI)</i>	Annexure VI				
12	Average Annual Turnover Statement for Last 3 financial Years of the Indian Subsidiary of Principal Manufacturer/ Sole Importer issued by Chartered Accountant/competent authority with UDIN (2018-19, 2019-20 and 2020-21). <i>In case of foreign manufacturer the turnover of Indian Subsidiary/Sole Importer only shall be considered and not of the original manufacturer.</i>	Annexure VII				
13	Copies of Audited Balance sheet & profit loss account for last three financial years certified by Chartered Accountant of the Importer/ Indian Subsidiary for 2018-19, 2019-20 & 2020-21 with UDIN. <i>In case of foreign manufacturer the balance sheets of Indian Subsidiary/Sole Importer only shall be considered</i>					
14	Nature of the Firm/Public Company / Private	Annexure				

	Company/ Partnership/ Proprietorship/any other with Documentary proof.	VIII				
15	Self attested photocopy of IEC certificate and Permission/ Authorization for sale for sale from the foreign principle manufacturer (in case of imported product)	Annexure A (if applicable)				
16	Copy of GST Registration of the Bidder	Annexure B				
17	Latest GST Returns of the Bidder	Annexure C				
18	Copy of the PAN Card of the Bidder	Annexure D				
19	Quality Certifications on the products viz. ISI/CE/USFDA etc. whichever applicable.	Annexure E				
20	Name, photograph & specimen signature of the designated officer/ representative of the Bidder who is authorized to make correspondence with the JKMSCL, if any.	Annexure F				
21	Specify point of supply with full Address. NB: Specifying of point of supply does not means authorization to raise, invoice and receive payments on behalf of bidder(s)	Annexure G				
22	Declaration of bidder regarding acceptance Bid for terms & conditions	Annexure A1				

Important Note

- The Bidders who opt to bid for multiple manufacturers shall have to provide complete details of each manufacturer in a systemic way, sequentially, covering all documents asked in Annexure "II".**
- Please Note the Annexure A"II" should be properly filled showing the page number when the asked document has been attached. All the documents attached with the technical bid should be properly page numbered.**

I/we understand that our bid shall liable to be declared non responsive in case of any deficiency in fulfilment of above requirements on our part.

I/we accept all the terms, conditions and provisions of this bid document.

Name/Address.....
in the capacity of.....(Designation).....
Signed..... duly authorized to sign the bid for and on behalf of..... of Firm).....
Dated..... Tel:.....e-mail:.....

N.B : The original manufacturer/direct importer of the bidding items/their sole authorised representative shall execute tri-partite agreement with the Corporation i.e JKMSCL, inter-alia, stating that :

i. The invoice submitted by the authorised representative for such supplies shall be endorsed by the original manufacturer/direct importer of bidding items. Original copy of the delivery challan of the manufacturer towards authorised representative for such supplies shall be endorsed along with invoice submitted by Authorised representative.

ii. JKMSCL may secure confirmation/or authenticating of such supplies from manufacturer/direct importer before releasing the payment.

iii. No original manufacturer/direct importer shall be allowed to authorize more than one representatives to bid, to negotiate/to raise invoice or to receive payments & to enter into tripartite agreement with regard to business against this specific tender.

iv. In case, original manufacturer/direct importer wish to authorise any representative to bid, to negotiate, to raise invoice to receive payments on behalf of original manufacturer/direct importer/against invoice raised by representative, Annexure All duly filled shall need to be uploaded alongwith e.bid ; otherwise no representation in this matter shall be entertained in the later stage.

ITEM WISE FINANCIAL BID (BOQ)

For Uploading Rates of Equipment

Please read the amended BOQ as follows:

- i) The rates shall be quoted in the BOQ as per format mentioned below.
 ii) The rates of the accessories, if any, shall be quoted cumulative as per NIT.
 iii) The rates of the India items, if any, shall be quoted cumulative as per NIT

m/ The Rates of the India Items, if any, shall be quoted cumulative as per M1															
S. No.	Item Description	Item Code	Unit	Qty	Currency type	Basic Equipment cost for one unit	Packing & forwarding charges/freight insurance charges	Indian Agency Commission for 1 unit in foreign	Custom Duty	SGST	CGST	IGST	Custom clearance in foreign	Total Amount including Taxes	
1	2	3	4	5	6	7	8	9	10	11			12	13	
1	Main item														
2	Accessories, if any.														
3	Indian items, if any														
5.	Optional Items, if any														
6.															
CMC for 1st Year		CMC for 2 nd Year		CMC for 3 rd Year		CMC for 4 th Year		CMC for 5 th Year		CMC for 6 th Year		CMC for 7 th Year		CMC for 8 th Year	Total amount CMC
14		15		16		17		18		19		20		21	

Note: -

- The rate quote should be as per BOQ.
- CGST, SGST or IGST should be separately shown in absolute amount only.
- Rate should be quoted only for packing units as mentioned in the bid
- No quantity or cash discounts should be offered.
- Read all the terms & conditions before filling the Annexure III.
- Please quote rates in absolute amount only.
- Please quote rates per unit only
- The bidder shall not under any circumstances quoted "Zero" anywhere in the BOQ.
- Finalization of the rates shall be made on the basis of price quoted in BOQ
- Custom duty, if applicable shall be indicated separately.
- The final rates quoted at Column No. 13 shall be considered as final rates and shall be considered for evaluating financial bid. L1 rate shall be finalised on the basis rate and taxes as applicable.
- The price for evaluating L1 (as per BOQs) shall be decided on the basis of cumulative rates of Main item, Accessories (wherever asked) i.e cost of main item + cost of Accessories + Indian items = Total cost of equipment.**

13. **The rates quoted for the CMC (Comprehensive Maintenance Contract) and Optional items shall not be considered for finalizing/deciding L1 rates.**

14. **Warranty of 02 years shall be applicable.**

The bidder may quote in foreign currency as per the BOQ uploaded in the e.portal on the following terms & conditions

(For Imported equipment)

100% payment shall be released against 20% Bank Guarantee valid for a period of 12 months, to be submitted by the bidder. The BG shall be released on successful installation of the Machinery

Letter of credit would be opened subject to following additional conditions :

1. At site LC would be opened.
2. A level vessel would be used for shipment of supplies which should not be more than 15 years old.
3. Supplies shall be insured vide comprehensive Insurance Policy including machine insurance by the OEM till the final delivery site shall also include "Force Majeure".
4. Pre-dispatch inspection shall be carried out by OEM by certified inspection agency before shipment of supply.
5. ***The CIF (cost insurance freight)/CIP (cost insurance price) upto New Delhi, should be in Foreign Currency, payable by the Principal company in that currency only as per the mode of L.C stipulations. The CIF prices shall be borne by the firm upto site.***
6. ***The custom duty shall be paid as per actual on the production of documentary proof. No Custom duty exemption certificate shall be issued by JKMSCL to facilitate custom clearance on the concessional rates.***
7. ***CIF price of optional accessories, if any, Percentage of Indian direct Importer/authorized representative's percentage (Indian agency commission), if any, on FOB (Freight on board) Price which shall be payable to the Indian direct Importer (Indian Agency) in Indian currency at the exchange rate as mentioned below. However local accessories, if quoted in Indian currency, GST shall be paid as admissible under rules.***
8. The prices quoted should be as per the price of the manufacturer applicable in within India.
9. ***The L1 shall be calculated on the basis of conversion of currency as on date of opening of financial bid.***

Delivery Period shall be 60 days for Indian Items and 90 days for Imported items.

PLEASE DON'T WRITE 00 AGAINST THE ITEMS FOR WHICH YOU DIDN'T WISH TO QUOTE ; INSTEAD, LEAVE THE COLUMN BLANK" AGAINST THE SAID ITEM; AS THE SYSTEM TAKES RS. 00.00 AS L1.

Important Note : Besides custom duty, the firm shall also mention Health cess and Social Welfare cess amount as applicable. Demurrage charges or late fee will not be paid by JKMSCL.

Note: The L1 of the Instruments shall be ascertained as per the cumulative rates on complete set basis. No individual (instrument) L1 rates shall be considered. The bidders have to quote minimum 95% of the instruments for qualification in the complete set.

Declaration and Undertaking by the Bidder

(On Non Judicial Stamp Paper worth Rs. 100/- Attested by Notary Public and submitted with Cover-'A')

1. I/We..... (Name of firm) certify that the quoted model (of quoted item) is of latest technology and is not outdated.
2. I/We certify that the rates (of quoted item) are reasonable and not sold on lower rates to anyone than charged from JKMSCL.
3. I/We do hereby accept condition of warranty/guarantee period with spare parts of each quoted equipment as per terms & conditions and/or technical specifications. (From the date of installation/ demonstration).
4. (a) I/We do hereby undertake that our company/firm has not been black listed/banned/debarred/Convicted by Union Govt. or any State Govt. or their subordinate departments from participation in bidding.
- (b) I/We do hereby declare that our company/firm has been black listed/banned/debarred/convicted by..... (Name, Address of Govt./dept./State) and detailed information is as given below:
 - (i) Cause of blacklisting/banning/debarring/conviction.
 - (ii) For which item.....
 - (iii) Period of black listing/banning/debarring/ conviction.
 - (iv) Latest Status of black listing/banning/debarring/ conviction.
3. I/We hereby confirm that we have deposited all the GST/all applicable taxes as on date of submission of tender with the concerned authority/department. No GST/other taxes is due on the firm as on date of submission of tender.
4. I/we do hereby agree to the condition that JKMSCL may, if deemed fit go for the third party maintenance under Comprehensive equipment maintenance programme of Govt. of India.

VERIFICATION & DECLARATION

I/we.....S/o.....age d.....years residing at authorized bidder/proprietor/ partner/director of firm M/s..... verify and confirm that the contents of bidding documents , its bidding forms, Annexure and other information submitted for bid no.

..... are true and correct to the best of my knowledge and nothing has been concealed therein.

In case, any variation/discrepancy/wrong declaration is found during scrutiny at later stages, I/We shall be held personally responsible & JKMSCL may take any action including blacklisting/debarring of my/our firm for a period not less than 05 years

Place :-
Dated:-

Signature of the Deponent
Name :
Designation

Annexure IV B

Declaration of Manufacturer/Direct Importer/Indian Subsidiary To be submitted on non judicial stamp paper of Rs. 100 duly notarised

Date:_____ NIB No.:_____

I/We a legally constituted firm/body..... (Name of Firm/Company with address) and represented by Mr..... (Name of Bidder/Sole proprietor/ CMD/ Chairman) declare that I am/we are (manufacturers/direct importer) in the goods and related services for which I/we have bid.

I/we further declare that:-

1. The items (Name of item) is/ are (manufactured/imported) at our premises at (Address of factory & office).
2. I/We..... (Name of firm) certify that the quoted model (of quoted item) is of latest technology and is not outdated.
3. I/We do hereby accept condition of guarantee period with spare parts of each quoted item as per terms & conditions or technical specifications. (From the date of installation/ demonstration).
 - a. Our company/firm has not been black listed/ banned/ debarred/convicted by Union Govt. or any State Govt. or their subordinate departments from participation in bidding.
 - b. Our company/firm has been black listed/banned/debarred/ convicted by (Name, Address of Govt./dept./State) and detailed information is as given below:
 - (i) Cause of black listing/banning/debarring/ conviction.
 - (ii) For which item.....
 - (iii) Period of black listing/banning/debarring/ conviction.
 - (iv) Latest Status of black listing/banning/debarring/ conviction.
4. I/We hereby confirm that we have deposited all the GST/all applicable taxes up to the date of submission of tenders with the concerned authority/department. No GST/other taxes is due on the firm as on date.
5. We undertake that in case of change of dealership, we shall be responsible for providing preventive services and maintenance of the equipment free of cost during the warranty period.
6. We fully qualify the laid down terms & conditions of the NIB including Turnover class.

VERIFICATION & DECLARATION

I/we.....S/o.....aged..... years residing at authorized bidder/proprietor/partner/director of firm M/s..... verify and confirm that the contents of bidding documents , its bidding forms Annexure I to Annexure VIII and other information submitted for bid no. are true and correct to the best of my knowledge and nothing has been concealed therein.

In case, any variation/discrepancy/wrong declaration is found during scrutiny at later stages, I/We shall be held personally responsible & JKMSCL may take any action including blacklisting/debarring of my/our firm for a period not less than 05 years

Place :-
Dated:-

Signature of the Deponent
Name :
Designation

Client Base (Item wise)

On letter Head of Bidder / Manufacture/Indian Subsidiary of Principal Manufacturer

I/We..... (Name of firm.....) do hereby certify that our client base for the offered equipments are as under **{Client Base of the Bidder/Manufacturer/Indian Subsidiary of Principal Manufacturer with reference of the supply orders, for any of three years in last five years along with satisfactory performance certificate of minimum one installation. (Copies of reference supply orders and satisfactory performance certificate need to be attached)}** :-

Item Code	Name of the Item	Client list	Reference to supply order

1. It shall be submitted with technical bid and the above information should be verifiable from relevant documents of the bidder.
2. Firm should have market standing of the quoted product as mentioned above.
3. The different variants of same equipment may be considered.
4. In case of supply of imported item(s), the suppliers may be asked to furnish a certificate and other information to the effect that the firm has completed all the formalities including bill of entries in custom in connection with import of the item in question.

Place:

Date :

Signature of bidder with Seal.

AUTHORISATION from principal manufacturer/importer/Indian Subsidiary

*(On the letterhead of Principal manufacturer / Sole Importer/Indian Subsidiary)
In case authorization to the bidder is furnished by the Sole Importer/Indian Subsidiary,
document confirming authorization from foreign Principal Manufacturer in favour of
Indian Subsidiary / Sole Importer is to be submitted.*

The Managing Director
Jammu and Kashmir Medical Supplies Corporation Limited
J&K

Subject: Regarding authorisation for our products.

Ref.: Your NIB no.dated.....

Name of items.....

Dear Sirs,

I/we.....(Name) for M/S.....(Name of firm) who are proven and reputable manufacturers(Name of item) having factory at (Address of Factory and Office) hereby authorize M/S..... (Name of Bidder firm) 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 documents/NIB for the above goods manufactured / imported by us.

I/we further confirm that no supplier or firm or individual other than M/S..... (Name of bidder firm), 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 documents for the above goods manufactured by us.

I/we also hereby extend our full guarantee, as applicable as per bid conditions of contract, read with modifications/addendum, if any, in the general/special conditions of contract for the goods and services offered for supply by the above firm against this bid document.

I/we also hereby confirm that we shall also be responsible for the satisfactory execution of contract placed on the authorized Firm. In case of default of authorised representative (or) otherwise, we shall also be responsible for the satisfactory execution of contract placed on the authorized Firm & penalty, if any, for non-execution of contract by the authorised representative shall be borne by us.

This authorization shall be valid till the completion of rate contract period and related services i.e. guarantee and comprehensive maintenance obligations, etc., whichever is later.

Yours faithfully,

(Name & Signature)..... verification and signature by bidder
For M/s Seal and address of bidder
AUTHORISED SIGNATORY

Accepted by the authorized Bidder Mr.....
(Signature, Name & Address).....

((On letter head of Chartered
Accountant))

ANNUAL TURN OVER STATEMENT

The average annual turnover of M/S..... (Name of Firm).....
and address

..... for the past three years are given below and certified that the
statement is true and correct:-

It is further certified that the Annual Turnover Statement has been prepared strictly as
per returns filed with Taxation Department for the year 1st year, 2nd year & 3rd year and
shall be responsible, if any variation/discrepancy is found during evaluation /later
stage.

Sl. No.	Financial Years	Turnover in Lakhs (Rs.)
1.	1 st year	
2.	2 nd year	
3.	3 rd year	
Total		- _____ Lakhs

Average gross annual turnover _____ Lakhs

Note :

1. To be prepared strictly as per returns filed with Taxation Department & the statement should be supported with returns filed for the last three financial years.
2. The turnover should be supported by the balance sheets of the respective years.
3. The Certificate issued by Taxation Department shall also be considered for turnover certification.
4. **The Average Annual Turn Over required for the item(s) pertaining to the Group "Procurement of Machinery & Equipment" is as per Table 1. Only the bid(s) falling under the category as specified under Annual Turnover is accepted. The bid(s) not falling under the Annual Turnover clause shall be outrightly rejected.**

Date

Signature of the bidder

Signature of Auditor/Seal
Chartered Accountant
(Name & Address.)
Tel. No.
UDIN NO.

(On Firm's letter head)
Memorandum of Appeal

Appeal no..... of..... Before the.....
(appellate authority)

1. Particulars of appellant:
(i) Name of the appellant:
(ii) Official address, if any:
(iii) Residential address:
2. Name and address of the respondent(s):
(i)
(ii)
(iii)
3. Number and date of the order appealed against and name and designation of the officer/ authority that passed the order (enclose copy), or a statement of a decision, action or omission of the procuring entity in contravention to the provisions of the Act by which the appellant is aggrieved:
4. If the appellant proposes to be represented by a representative, the name and postal address of the representative:
5. Number of affidavits and documents enclosed with the appeal:
6. Ground of appeal:
.....
.....
..... (supported by an affidavit)
7. Prayer:.....
.....
.....

Demand Draft of Rs..... bearing No.dated
..... as appeal fees

Place
Dated

Appellant's signature

Section V: Schedule of Supply

Table of Contents

S. No.	Description	Pages
1.	List of goods and related services	
2.	Delivery and completion schedule	
3.	Technical specifications	
4.	Drawings	
5.	Inspections and tests	

Section V: Schedule of Supply

Clause No.	Description
1	List of goods and related services
1.1	Name of item.....
1.2	Related services are delivery, local transportation, installation, commissioning, demonstration and training etc.
1.3	Guarantee/Warranty period starts from the date of successful installation for a period of TWO years.
1.4	JKMSCL may, if deemed fit, enter into third party agreement under comprehensive equipment maintenance programme, Govt. of India.
2	Delivery and completion schedule
2.1	SUPPLY ORDERS AND SUPPLY SCHEDULE:
2.1.1	Supply order shall be placed through registered post/e-mail/any communication medium by the JKMSCL. The date of receipt of e mail/fax/other communication shall be treated as the date of order for calculating the period of execution of order. The successful bidder shall execute the orders within a delivery period of 60 days or as specified in the supply order from the date of issuing supply order and handing over of space with the availability of power & other requisite installations by the end users.
2.1.2	In case of imported items, 30 days will be given in addition to above mentioned period, as mentioned in condition No. 2.1.1 above.
2.1.3	The successful bidder shall acknowledge the receipt of orders, if any, within 7 days from the date of dispatch of order, failing which the procuring entity may be at liberty to initiate action to purchase the items on risk & cost purchase provision. However finalization of annual Rate contract does not mean mandatory issuance of supply order. Supply order shall be as per the requirements of items at various end-users.
2.1.4	The Site of delivery shall be Drug ware House of JKMSCL or as per the requirement of the Department. The bidders can visit the site after seeking permission from the competent authority before quoting their rates.
2.1.5	To ensure sustained supply without any interruption, the JKMSCL reserves the right to have more than one approved supplier from amongst the qualified bidders on L1 matched rates only. In such a case, the requirement may be met by dividing be quantity among the R/C holders considering the quantity required and dedicated capacity of the successful bidders.
2.1.6	The ready stock position of the item, if provided by the firm, may be considered by the corporation for the placement of supply orders.
2.1.7	It may be noted that the JKMSCL does not undertake to assist in the procurement of raw material, whether imported or controlled or restricted, and as such the bidders must offer their rates to supply the specific items from own quota of raw material stock by visualizing the prospect of availability and requirement. Any of the above points if taken,

	as argument for non-supply/delayed supply will not be entertained.
2.1.8	The figures indicated, if any, do not constitute any commitment on the part of JKMSCL to purchase any of the articles and the quantities shown therein against each or in any quantity whatsoever and no objection against the quantity of the indent of approved item being more or less than the indicative quantity will be entertained and shall not be acceptable as a ground for non supply of the quantity indented.
2.2	PROCURING ENTITY'S RIGHT TO VARY QUANTITY:
2.2.1	If the JKMSCL procures less than the quantity indicated in the bidding documents (if asked) the bidder shall not be entitled for any claim or compensation except otherwise provided in the conditions of contract.
2.2.2	If the bidder fails to supply, the JKMSCL shall be free to arrange / procure the item(s) from other sources and the extra cost incurred shall be recovered from the supplier.
2.3	SUBMISSION OF CONTRACT COMPLETION REPORT
2.3.1	Firms shall have to submit consolidated statement in duplicate at the end of rate contract as well as after expiry of equipment / instrument guarantee period (as provided in guarantee clause of the contract) to enable the corporation to examine the case for refund of performance security.
2.3.2	The consignee shall intimate the contract /supplier about the defect (s) at once in such a manner, so as to reach the office of the firm immediately and before completion of guarantee period. It shall be the responsibility of the consignee to get the complaint of guarantee period. It shall be the responsibility of the consignee to get the complaint of defective equipment of defective performance registered immediately with the office of JKMSCL.
2.5	PACKING & INSURANCE:
2.5.1	The good shall be delivered at the destination in perfect condition. The firm if so desires may insure valuable goods against loss by theft, destruction or damages by fire, flood, under exposure to weather of otherwise in any situation. The insurance charges will have to be borne by the supplier and the corporation shall not be required to pay any such charges, if incurred.
2.5.2	The firm shall be responsible for the proper packing so as to avoid damages under normal conditions of transport by sea, rail, road or air and delivery of material in good condition to the procurement officer's store. In the event of any loss, damage, breakage or leakage or any shortage the firm shall be liable to make good such loss and shortage found at destination after the checking/inspection of material by the consignee. No extra cost on such account shall be admissible. The firm may keep its representative to verify any damage or loss discovered at the consignee's store, if it so likes.
2.5.3	The material received with damaged packing (or) without packing as per terms & conditions of NIT (or) in damaged state, shall be liable to the minimum penalty of 2% of the value of the damaged item (or) quantity received with damaged packing. Further packing, cases, containers and other allied material if any shall be supplied free, except where

	otherwise specified by the firm(s) and agreed by the corporation and the same shall not be returned to him.
2.5.4.	Packing specifications Schedule for packing – General specifications 1. All items should be packed only in first hand boxes only. 2. Label: Every box should carry a large outer label clearly indicated that the product is for <u>“JKMSCL Supply” for the year, “Not for Sale ”</u> and it should carry the correct technical name, strength or the product, date of manufacturing, date of expiry, quantity packed and net weight of the box in bold letters. Note: The weight/size of the box for packing the item may vary for the safe delivery/installation of equipment. Any deviation in the packing, if necessary shall be made after getting permission from JKMSCL.
2.6	REJECTION OF GOODS:
2.6.1	Articles not as per specification/ or not approved shall be rejected by the corporation / consignee and will have to be replaced by the supplier firm at its own cost within 15 days or with time limit fixed by the corporation.
2.6.2	All the stores supplied shall be of the best quality and conforming to the specification, trademark laid down in the schedule attached to agreement and in strict accordance with and equal to the approved, standard/specifications/ samples. In case of any material of which there are no standards or approved samples, the supply shall be of the best quality to be substantiated by documents/specifications. The decision of JKMSCL as to the quality of stores is final and binding upon the bidder. In case any of the articles supplied are not found as per specification or declared sub-standard, that shall be liable to be rejected and any expenses of loss caused to the supplier as a result of rejection of supplies shall be entirely at his account.
2.6.3	The rejected item must be removed by the firm, within 15 days of the date of intimation of rejection. The officials concerned shall take reasonable care of such material upto 15 days from the date of intimation only but in no case shall be responsible for any loss, damage, shortage that may occur while it is in their premises. In case firm fails to remove the items within fifteen days, JKMSCL shall have full right to get the said item(s) removed & destroyed at the cost & risk of supplier/bidder, without any further correspondence. The destroying charges as per the actual plus 1% penalty shall be deducted from any amount payable to the firm.
2.6.4	No payment shall be made for defective/incorrect items.
2.6.5	In case firm wants to take back item to their service station for rectification then firm has to deposit payment received against such defective supplies. In case supplier has not received any payment then material be returned to supplier firm for rectification. In no case the defective equipment is allowed to be installed after rectification.
2.6.7	The bidder shall be responsible for the proper packing and delivery of the material to the consignee. In the event of any loss, damage, or breakage, leakage or shortage in transit, the bidder shall be responsible. No extra cost on such account shall be admissible.

2.7	Payment Terms (For items quoted in foreign currency)
2.7.1	<p><u>For Payment through Letter of Credit (for imported items only)</u> 100% payment shall be released against 20% Bank Guarantee valid for a period of 12 months, to be submitted by the bidder. The BG shall be released on successful installation of the Machinery. Letter of credit would be opened subject to following additional conditions:-</p> <ol style="list-style-type: none"> 1. At site LC would be opened. 2. In case of supply through sea, LLOYD A level vessel would be used for shipment of supplies which should not be more than 15 years old. 3. Supplies shall be insured by the OEM till the final delivery site shall also include "Force Majeure" 4. Pre-dispatch inspection shall be carried out by OEM by certified inspection agency before shipment of supply. 5. The product shall be comprehensively insured upto site of installation for all type of insurance. 6. The charges of the L.C charged by the Govt. shall be borne by the firm. <p><u>For Indian items :</u> Payment shall be made after successful installation and commissioning of the equipment duly certified by Head of the concerned department.</p>
2.7.2	Payment shall be made by RTGS. Expenses on this account, if any, shall be borne by the firm.
2.7.3	Payment to the authorised representative shall be made as per the tripartite agreement with the Corporation i.e JKMSCL on the basis of Annexure All to e uploaded along with e.bid.
2.7.4	No advance payments towards cost of items shall be made to the bidder.
2.7.5	If at any time during the period of contract, the price of bid items is reduced or brought down by any law or Act of the Central or State Government or by the bidder himself, the bidder shall be bound to inform Managing Director JKMSCL immediately about it. Purchasing authority shall be empowered to unilaterally effect such reduction as is necessary in rates in case the bidder fails to notify or fails to agree for such reduction of rates. In case this reduction of rates comes to the knowledge of JKMSCL in later stage, additional payment made w.e.f of the details of rates shall be charged from the firm with 1.5% monthly interest from the date/till rates have been reduced besides action as desired fit by JKMSCL which may be debarring/any other penalty as per penalty clause.
2.7.6	In case of any enhancement in taxes/duty due to notification of the Government after the date of submission of bids and during the bid period, the quantum of additional taxes/duty so levied shall be allowed to be charged extra as a separate item without any change in the basic price structure of the items approved under the bid. For claiming the additional cost on account of the increase in tax/ duty, the bidder should produce a letter from the concerned authorities for having paid additional tax/duty on the goods supplied to ordering authority and also must claim the same in the invoice separately. Similarly if there is any reduction in the rate of taxes/duty of items, as notified by the

	Government, after the date of submission of bid, the quantum of the price to the extent of reduction of taxes/duty of items will be deducted without any change in the basic price structure of the items approved under the bidder.
2.7.7	In case of successful bidder has been enjoying exemption on any criteria, such bidder will not be allowed to claim taxes/duty at later point of time during the tenure of contract, if the taxes/ duty become chargeable on goods manufactured due to any reason.
2.7.8	If there is any hindrance by the consignee to provide the required site for installation the part payment of equipment shall be made / decided by JKMSCL. In that case, the firm has to inform JKMSCL immediately.
2.8	LIQUIDATED DAMAGES:
2.8.1	The time specified for delivery in the bid form shall be deemed to be the essence of the contract and the successful bidder shall arrange supplies within the period on receipt of order from the purchasing officers.
2.8.2	In case of extension in the delivery period with liquidated damages, recovery of liquidated damages shall be made at the rate of 0.25% per day for every day of delay subject to maximum of 10%. Rest of the terms and conditions of SPP with regard to penalty clause shall remained unchanged Penalty shall not be imposed if claim with regard to any supply i.e. Drugs/Equipment is complete in all respects i.e. QC verification/Board verified etc. is not cleared by the JKMSCL within a period of 60 days
2.8.3	If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrances, he shall apply in writing to Managing Director JKMSCL, J&K, for the same immediately on occurrence of the hindrances but not after the stipulated date of completion of supply. The firms shall ensure extension of delivery period for delayed supplies. The payment shall only be released by corporation after sanction of extension in delivery period.
2.8.4	Delivery period may be extended with or without liquidated damages. If the delay in the supply of goods is on account of force majeure i.e., which is beyond the control of the bidder, the extension in delivery period may be granted without liquidated damage.
2.8.5	If the bidder is unable to complete the supply within the specified or extended period, the corporation shall be entitled to purchase the goods or any part thereof from elsewhere without notice to the bidder on his (i.e., bidders) account at his cost and risk, with the prior approval of Managing Director JKMSCL, J&K. The bidder shall be liable to pay any loss or damage which the purchasing officer may sustain by reasons of such failure on the part of the bidder. The bidder shall not be entitled to any gain on such purchases made against default. The recovery of such loss or damage shall be made from any sums accruing to the bidder under this or any other contract with the corporation/government. If recovery is not possible from the bill and the bidder fails to pay the loss or damage within one month of the demand, the recovery of such amount or sum due from the bidder shall be made

	from the bidder. In case supplier fails to deliver ordered goods, the risk purchases may be made at market rate from any other firm. It is mandatory for the approved supplier to acknowledge receipt of orders within seven days from the date of dispatch of order, failing which the procuring entity will be at liberty to initiate action to purchase the items on risk purchase provision at the expiry of the prescribed supply period.
2.8.6	LD for damaged packing or loose packing equivalent to 2 % of the value of the products received with damaged packing or in loose packing or with packing not conforming to the terms and conditions, specified in the tender document.
2.9	RECOVERIES:-
2.9.1	Recoveries of liquidated damages, short supplies, breakage, rejected articles shall ordinarily be made from bills. Such amount may also be recovered from any other untied dues & security deposits available with the JKMSCL. In case recovery is not possible, action will be taken as per prevailing Acts/rules in J&K State.
2.9.2	Any recovery on account of liquidated damage charges/risk & cost charges in respect of previous rate contracts/supply orders placed on them by the JKMSCL can also be recovered from any sum accrued against this bid after accounting for untied sum or due payment lying with JKMSCL against previous rate contracts/supply orders. Firm shall submit details of pending amount lying with JKMSCL but decision of Managing Director JKMSCL, J&K regarding authenticity of sum payable shall be final.
2.9.3	Testing & Handling Charges : the testing and handling charges to the tune of 1.5% of total cost shall be deducted from the invoices raised by the approved bidder against the supply orders placed from time to time.

3. Technical Specifications:

Annexure: A-III (technical specifications attached for Table I)

General features:

- i. **Bidders are requested to send printed descriptive literature/catalogue of the quoted items duly sealed by MD/Chairman/authorised signatory of the firm/bidder in the office of Jammu and Kashmir Medical Supplies Corporation Ltd. one day prior to last day of uploading of the bid. The catalogues along with compliance sheets should also be uploaded with the technical bid.**
- ii. If bidder supplied to or have rate contract of quoted items with any other Govt. institutions within one year, he may be asked to provide copies of purchase orders, invoices and rate contract.

4) .Drawings if any to be attached with the technical bid.

5. Inspection and Tests

Clause No.	Description
5.1	INSPECTION OF EQUIPMENTS AND INSTRUMENTS:-
5.2	The equipments supplies shall be according to technical specifications and shall be inspected by the committee constituted by JKMSCL as mentioned in the supply order or amended thereafter by competent authority. In case of BIS Items, inspection shall be strictly as per relevant BIS specifications with latest amendments and have been made applicable by B.I.S. at the time of inspection. The inspection and testing of the material may be got done by any inspecting Agency/team of experts at site of installation/commissioning. The supplier shall provide all facilities for inspection/testing free of cost.
5.3	Notwithstanding the fact that the authorized inspecting team had inspected and/or has approved the stores/articles, any officer(s)/team of officer nominated by the corporation may inspect the item/material as soon as it is received in the stores to ensure that the supply is in accordance with the specifications laid down in rate contract/supply order.
5.4	In case of doubts in inspection/ test, same may be got inspected or tested in any laboratory. If the material is not found as per specifications or defective, consignee shall not accept the material and shall inform the corporation within 3 days. Consignee may also simultaneously ask the firm for removal of defect/replacement. The firm shall be bound to replace the defective equipment/item within 15 days of receipt of intimation from the consignee/corporation. However, the date of delivery, in case of defective item shall be taken as the date on which the JKMSCL accepts the item after replacement of defective material/removal of defects as the case may be. Wherever defective item is replaced, the inspection/testing charges, if any, shall be borne by the supplier.
5.5	The corporation/technical expert or team shall match the specification with available reserved sample with the corporation which is submitted by the firm/supplier at the time of technical approval before release to end user. .
5.6	In case of imported item, the supplier shall ensure that the item shall be inspected by the third party inspection agency before dispatched to the consignee. In case any un- inspected item has been found in the item received by consignee, the firm shall be solely responsible for it and the JKMSCL shall be free to take suitable necessary action as per terms and conditions of bid documents/agreement against the firm.

Section VI A: - General Conditions of Contract (GCC)

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SECTION VI A: - GENERAL CONDITIONS OF CONTRACT (GCC)

Bidder should read these terms & conditions carefully and comply strictly while submitting their bids. If a bidder has any doubt regarding the terms & conditions and specifications mentioned in the bid notice/ catalogue, he should refer these to the Jammu and Kashmir Medical Supplies Corporation, J&K, before submitting bids and obtains clarifications. The decision of the Managing Director Jammu and Kashmir Medical Supplies Corporation, J&K, shall be final and binding on the bidder. The clauses of terms & conditions are as follows:-


Clause No.	Description
1.	Definitions
	<p>The following words and expressions shall have the meanings hereby assigned to them:</p> <p>'Act/Rules' means Acts & rules prevailing in J&K Union Territory in terms of procurement.</p> <p>'Completion' Means the fulfilment of the supplies and Related Services by the supplier in accordance with the terms and conditions set forth in the contract.</p> <p>"Contract" Means the Agreement entered into between the procuring entity and supplier, together with the contract documents referred to therein, including all attachments, appendices, specifications and codes and all documents incorporated by reference therein.</p> <p>"Contract Documents" Means the documents listed in the agreement, including any amendments thereto.</p> <p>"Contract Price/Rate" Means the price payable to the supplier as specified in the agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the contract.</p> <p>"Day" Means calendar day.</p> <p>"Delivery" Means the transfer of the goods from the supplier to the procuring entity in accordance with the terms and conditions set forth in the contract.</p> <p>"GCC" Means the general conditions of rate contract.</p> <p>"SCC" Means the special conditions of rate contract".</p> <p>"Goods" Means all of the commodities, raw material, machinery and equipment, documents, warranties and /or other materials that the supplier is required to supply to the Procuring Entity under the Contract.</p> <p>"Procuring Entity" Means the entity purchasing the goods and related services, Managing Director Jammu and Kashmir Medical Supplies Corporation, J&K, or as specified in the special conditions of the contract (SCC).</p> <p>"Related Services" Means the services incidental to the supply of the goods, such insurance, installation, training and initial maintenance, commissioning of equipment or machinery and other similar obligations of the supplier under the contract. "Subcontractor" Means any natural person, private or government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the goods to be supplied is subcontracted by the supplier.</p>

	<p>"Supplier" Means the natural person, private or government entity, or a combination of the above, whose bid to perform the contract has been accepted by the procuring entity and is named as such in the agreement, and includes the legal successors or permitted assigns of the supplier.</p> <p>Authorised representative : Means the natural person, proprietor or Govt entity, duly authorised by the Managing Director/Prop/Chairman/Board of Director of original manufacturer/direct importer under their seal signatures duly notarized ; to bid, negotiate, raise the invoice, receive the payment against the supplies made, enter into tripartite agreement within the Corporation i.e JKMSCL, inter-alia.</p> <p>Authorised signatory : Means the natural person authorised by the proprietor, Managing Director/Chairman/Board of Director of original manufacturer/direct importer under their seal signatures duly notarized to sign on behalf of the company.</p> <p>"The Site" where applicable, means the place of delivery, installation, testing/ commissioning of the goods /equipment or machinery or as mentioned in the supply order.</p> <p>"Consignee" Means the receiver of the stores as mentioned in supply order.</p>
2.	General terms
2.1	Bids are invited from original manufacturers /direct importers/authorized representative of the original manufacturer/direct importer.
2.2	Bid shall have to uploaded as per schedule, to JK e-portal : www.jktenders.gov.in . At any time prior to the date of uploading of bid, bid inviting authority may, for any reason, whether on his own initiative or in response to a clarification requested by a prospective bidder, modify the condition in bid document by an amendment. In order to provide reasonable time to take the amendment into account in preparing their bid, bid inviting authority may at his discretion, extend the date and time for submission of bid. Interested eligible bidders may obtain further information in this regard from the office of the bid inviting authority.
2.3	Supplies shall be made directly by the bidder to be called as "Supplier" after finalization of rate contract, and suppliers. Manufacturer bidder should have permission to manufacture the item quoted as per specification given in the bid from the competent authority.
2.4.1	Direct importer should authenticate import/sale license for the product quoted in the bid issued by the competent authority.
2.4.2	In case, the item/product is supplied through authorised representative, product manufacturing permission, import/sale license of the principal manufacturer (s) direct importer (s) shall have to be uploaded along with technical bid.
2.5	Bid shall be have to be loaded on e-portal i.e www.jktenders.gov.in submitted to Managing Director, Jammu and Kashmir Medical Supplies Corporation, J&K

2.6	<p>The bidder shall also submit the following documents and certificates along with the bid as per technical bid submission letter :-</p> <p>(i) A combined undertaking/declaration regarding that the quoted item :</p> <ul style="list-style-type: none"> a. Model is of latest technology, the item has not become outdated, that the rate quoted is not more than the rate charged from anyone else, b. That the bidder is not black listed or banned or debarred by central or any state government or its append gages, c. Availability of spare parts and consumables for the quoted equipment for at least 10 years/life of the item, from the date of installation. <p>Note : Bid should not be submitted for the quoted item(s) for which the bidder has been blacklisted/banned/debarred either by bid inviting authority or Govt. of J&K or by any other State/Central Govt. and its agencies. This also applies to the bidder for its sister/ allied firm(s)/ unit(s).</p> <p>(ii) The bidder, in case of representative of the manufacturer/direct importer shall submit fresh authorization of the manufacturer/direct importer duly authenticated and notarized.</p> <p>PLEASE ALSO NOTE THAT: -</p> <p>(A) All attested documents must be submitted in English language. If the documents are not in English, translated version of the same, in English, duly signed and attested by authorized translator must be submitted along with copy of original document.</p> <p>(B) All the above mentioned documents should be under the name and address of the premises where the quoted items are actually manufactured/ stored for supply.</p>
2.7	<p>Financial Bid duly filled in (Annexure III/BOQ) giving the rates for quoted items should be uploaded through e portal www.jktenders.gov.in. The rate should not be disclosed/uploaded in the technical bid. Rates uploaded along with technical bid shall means out rightly rejection of bid of the concerned person.</p>
2.8	<p>The required amounts towards cost of bid document and tender processing charges shall be deposited as mentioned at page 5, 01 day before the last date and time of bid submission.</p> <p>All bids received will be opened in the presence of bidders, who choose to be present. Financial bid will be opened only for those bidders, who satisfy the criteria laid down by the JKMSCL on the details furnished by the bidder in technical bid in compliance of terms & conditions of the bid.</p>
2.9	<p>(i) In case of the bid being submitted by a proprietary firm, the bid must be signed by the sole proprietor. In case of a partnership firm, bid must be signed on behalf of the firm by a person authorized, holding a</p>

	<p>power of attorney in his favour to do so; and in the case of a company, the bid must be signed by an authorized signatory, in the manner laid down in the articles of association of the bidder company.</p> <p>(ii) Any change in the constitution of the firm/ company shall be notified forthwith by the bidder/contractor in writing to the Jammu and Kashmir Medical Supplies Corporation, J&K and such change shall not relieve any former member of the firm/ company from the liability under the conditions of the bid/contract. No new partner / partners shall be accepted in the firm by the bidder/contractor in respect of the bid/contract unless he/ they agree to abide by all its terms and conditions and submit a written agreement to this effect. The bidder's/contractor's receipt for acknowledgement or date of any new partner subsequently inducted, as above, shall bind all of them and will be a sufficient discharge for any of the purposes of the contract.</p>
3	BID SECURITY:
	<p>(i) Bid shall have to be accompanied with a scanned copy of FDR/CDR/BG/NEFT/RTGS as bid security. The bid security shall have to be submitted before the opening of technical bid with a validity of 30 months. Bids submitted without sufficient bid security & validity shall be summarily rejected.</p> <p>(ii) The bid security of bidder shall be refunded after the earliest of the following events, namely:-</p> <ol style="list-style-type: none"> the expiry of validity of bid security; the cancellation of the procurement process; or the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted. <p>(iii) The bid security lying with the JKMSCL in respect of other bids awaiting approval or rejection or on account of contracts being completed, shall not be adjusted towards bid security for the fresh bids. The bid security may, however, be taken into consideration in case bids are re-invited for the same item.</p> <p>(vi) In case any document submitted by the bidder or by his authorized representative is found to be forged, false or fabricated, the bid shall be rejected and bid security may be forfeited. Bidder/his representative may also be banned / debarred. Report with police station may also be filed against such bidder/his representative.</p>
4	FORFEITURE OF BID SECURITY: -
	<p>The bid security shall be forfeited if:</p> <ol style="list-style-type: none"> The bidder withdraws or modifies the offer after opening of financial bid, but before acceptance of bid, The bidder does not execute the agreement, if any, prescribed within the specified time or extended time by competent authority (on the request of the bidder), The bidder does not deposit the 'performance security' after the supply order is placed/requested for signing the agreement, The bidder fails to commence the supply of the items as per supply

	<p>order within the time prescribed,</p> <p>(v) The bidder fails to submit samples/demonstration of quoted item on demand</p> <p>(vi) The bidder violates any of the terms & conditions of the bid document.</p>
5	WARRANTY CLAUSE:-
	<p>(i) The bidder would guarantee that the subject matter of procurement would continue to conform to the description and quality as per technical specifications and performs as per descriptions, from the date of delivery/ installation of the said subject matter of procurement. Notwithstanding the fact that the purchaser may have inspected and/or approved the said subject matter of procurement during the guarantee period, if the said subject matter of procurement is discovered not to conform to the description and quality as aforesaid or not performing, as described, the procuring entity will be entitled to reject the said subject matter of procurement or such portion thereof as may be discovered not to conform to the said description and quality or not performing as described. On such rejection, the subject matter of procurement will be at the seller's risk and all the provisions relating to rejection of goods, etc., shall apply. The successful bidder shall, if called upon to do so, replace the goods etc. or such portion thereof, as rejected by the procuring entity. Otherwise, the bidder shall pay such damages, as may arise by reason of such breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the procuring entity in that behalf under this contract or otherwise.</p> <p>(ii) The bidder shall, during the Guarantee period appearing in the contract, replace the whole subject matter of procurement or part(s), if any, and remove the manufacturing defects, if found during the above period so as to make the machinery and equipment/ordered items operative.</p> <p>(iii) In case of the machinery or equipment/ordered items, the successful bidder shall be responsible for carrying out annual maintenance and repairs on the terms & conditions, as agreed. The bidder shall have to ensure that consumables required for the maintenance of machine/equipment are being supplied free of cost during warranty period. The adequate regular supply of spare parts and consumables per incident for the machinery or equipment, whether under their annual maintenance and repairs contract or otherwise shall be ensured. In case of change of model the bidder shall notify the procuring entity sufficiently in advance, to facilitate procurement of sufficient quantity of consumables/ spare parts from the bidder to maintain the machinery or equipment. In case, any item supplied by the successful bidder does not conform to the required specifications, the payment thereof, if received by the supplier, shall have to be refunded to the Jammu and Kashmir Medical Supplies Corporation, J&K along with interest to the tune of</p>

	1.5% per month from the date of release of payment. The supplier will not have any rightful claim to the payment of cost for substandard supplies, which may have been consumed, either in part or whole, pending receipt of laboratory test / inspection report, wherever required. Supply of goods less in weight and volume than those mentioned on the label of the container, the same will be dealt with in the manner prescribed under rules.
6	MARKING
	<p>All items and accessories supplied should bear marking "JKMSCL SUPPLY _____(engraved or non removable material) "NOT FOR SALE" or as mentioned in supply order in English, without which the supply will not be entertained. JKMSCL may ask change in art work to be printed on the item at any stage of the contract.</p> <div style="text-align: center;">  </div> <p style="text-align: center;">JKMSCL SUPPLY (_____) NOT FOR SALE</p>
7	COMPARISON OF RATES:
	<ul style="list-style-type: none"> (i) Only net rates should be quoted. No separate free goods or cash discounts should be offered. Rates must be valid for the entire period of contract. (ii) Consignee may be located at a district headquarter (except equipment/ machinery requiring installation and commissioning, the place may be any other station) or as directed by Jammu and Kashmir Medical Supplies Corporation Limited, J&K and the rates must be quoted accordingly. No cartage or transportation charges shall be payable. (iv) The net rate must be inclusive of all charges by way of packing, forwarding, incidental or transit charges, including transit insurance, and any other levies or duties etc. on the subject matter of procurement. (v) In the event of any subsequent variation (increase or decrease) in the rate of GST or any other taxes by the government (state /UT or central), the same will be admissible accordingly. (vi) If the rates of item quoted are found same from two or more bidders, then the bidders shall be asked to submit revised financial bid, containing reduced rates within given time by Managing Director, Jammu and Kashmir Medical Supplies Corporation Limited, J&K. (vii) The bidder will exercise all due diligence at their own level regarding applicability of other taxes, duties and fees etc. for the unit of supplies as specified in the bid document and accordingly include the same in their quotes. Any additional/extra claims over

	<p>and above the rates agreed pertaining to taxes, duties and fees etc. will not be entertained later on any account.</p> <p>(viii) No part of the bid document should be detached / deleted.</p>
8	SUBMISSION OF SAMPLES/CATALOGUES AND DEMONSTRATION
	<p>(i) Catalogues/samples of the quoted item(s) must be sent free of cost to JKMSCL even though the specifications or description etc. are mentioned in the bid form are complied.</p> <p>(ii) Samples of items(s) should be collected back from the JKMSCL, J&K within 15 days from the date of finalization of list of successful bidder/demonstration of product before the expert panel. The corporation shall not be responsible for any damage, wear and tear or loss during the course of testing / examination, etc. The corporation may retain the sample of approved item for one month beyond expiry of contract. The corporation shall not be responsible for any damage, wear and tear or loss in this period. The corporation shall not make any arrangement for return of samples even if the bidder agrees to pay the cost of transportation.</p> <p>(iii) The bidder may be asked to demonstrate the technique, procedure and utility of item as per specifications given in the bid document before the technical committee constituted by the Corporation for the purpose. In case of heavy equipment, the demonstration may be carried out at the nearby place where the equipment has been installed by the bidder. In that case, the decision of the technical committee shall be final. The firm shall keep ready the quoted item and arrange all logistics within the time frame as and when asked by the JKMSCL. After the due date, no request of the bidder/firm shall be entertained for demonstration.</p> <p>(iv) Sample should be strictly according to the item quoted in the bid form failing which the bid will not be considered. Sample must be submitted duly sealed and marked suitably either by writing on the sample or on a slip or durable paper securely fastened to the sample with the particulars as mentioned below:</p> <ol style="list-style-type: none"> Name and full address of the firm Catalogue no. and name of the item Name of section Name of manufacturer Brand <p>(v) No change in marking on sample will be allowed after the submission of the sample.</p>
10	PERFORMANCE SECURITY (P.S.) AND AGREEMENT:
	<p>(i) The successful bidder shall submit the original copy of Bid document signed on each page at the time of agreement. However, while uploading the technical bid, only the declaration regarding acceptance of terms & conditions shall be uploaded.</p>

- (ii) The period of rate contract shall be 24 months from the date of issuance of rate contract. The Managing Director, JKMSCL can extend the original rate contract subject to original terms and conditions for a period deemed fit by them, but not exceeding three months, for which the bidder shall abide.
- (iii) Successful bidders, whose offers are accepted, shall have to deposit performance security @ 3% of the value of the supply order in favour of Chief Accounts Officer, JKMSCL within 15 days from the date of issuance of letter of intent. The performance security shall be deposited in the form of FDR/CDR/B.G (Bank Guarantee)/NEFT/RTGS. However, the bank guarantee shall be for a validity period of six months, beyond the guarantee period sought for the item.
- (iv) In case of successful bidder(s), the amount of bid security shall be adjusted for performance security for the supply order placed to the firms/bidders. The amount of performance security, if exceeds the bid security, it shall be deposited by the firm against the supply orders issued from time to time.
- (v) The firm may submit bank guarantee issued by any scheduled/nationalised bank. The minimum validity of bank guarantee should be six months after completion of guarantee period for the item.
- (vi) The Performance Security: The Performance Security (P.S.) shall be 3 % of the total value of stores ordered for supply. The payment shall not be released against supplies until the additional Performance Security due is deposited by the supplier or additional.
- (vii) The performance security shall be refunded after six months after satisfactory completion of contract and after satisfying that there are no dues outstanding against the bidder subject to guarantee provisions.
- (viii) It is to be noted that earlier year's bid security and performance security, even if lying in the JKMSCL shall not be considered towards this contract and therefore fresh bid security/performance security shall be deposited. The JKMSCL shall pay no interest on bid security or performance security amount.
- (ix) Successful bidders shall have to execute an agreement on a Non-Judicial stamp paper of an amount mentioned in the offer letter, in the prescribed form with the JKMSCL and deposit performance security within 15 days from the date of acceptance of the bid is communicated to him. However, Managing Director JKMSCL, J&K may condone the delay in execution of contract by the bidder. The expenses in this regard shall be borne by the successful bidder. The validity of contract under this agreement shall be for a period as mentioned.
- (x) The bidder shall furnish the following documents at the time of

	<p>execution of agreement:-</p> <ul style="list-style-type: none"> (i) Attested copy of partnership deed in case of partnership firms. (ii) Registration number and year of registration, in case partnership firm is registered with registrar of firms; (xi) Address of residence and office, telephone numbers, in case of sole proprietorship with : <ul style="list-style-type: none"> (i) Registration issued by registrar of companies under Registrar of companies Act 1956, in case of company. (xiv) In case of breach of any terms and conditions of the contract or on unsatisfactory performance, the amount of performance security shall be liable to forfeiture by JKMSCL, J&K and decision of Managing Director JKMSCL J&K shall be final. (xv) The rate contract can be repudiate/rejected at any time by the Managing Director JKMSCL, J&K if the supplies are not made to his satisfaction after giving an opportunity to the bidder of being heard and after reasons for repudiation being recorded by him in writing. However, Managing Director JKMSCL, J&K may terminate the agreement of contract at any time without notice/intimation to the successful bidder.
11	SUPPLY ORDERS:
	<ul style="list-style-type: none"> (i) Supply order shall be placed through registered post/e-mail/any communication medium by the JKMSCL. The date of receipt of letter of communication date will be treated as the date of order for calculating the period of execution of order. The successful bidder will execute the orders within a period of 60 days or as specified in the supply order. (ii) The successful bidder acknowledge receipt of orders within 7 days from the date of dispatch of order, failing which the procuring entity may be at liberty to initiate action to purchase the items on risk & cost purchase provision. (iii) In case of imported items, 30 days shall be given in addition to above mentioned period, (iv) Except, for equipments / machinery, which requires installation / commissioning, all other supplies shall have to be to FOR district drug warehouse only. In case of non-viable size of order for supplies, the corporation shall take appropriate decision on representation from the supplier on case to case basis. The consignee for supplies shall be JKMSCL. (v) To ensure sustained supply without any interruption, the Managing Director, JKMSCL reserves the right to have more than one approved supplier from amongst the qualified bidders as matched L1 supplied at matched L1 rates. In such a case, the requirement may be met by dividing the quantity among the rate contract holders considering the quantity required and dedicated capacity of the successful bidders. (vi) The ready stock position of the item, if provided by the firm, may be considered by the corporation for the placement of supply orders.

	(vi) It may be noted that the JKMSCL does not undertake to assist in the procurement of raw material, whether imported or controlled or restricted, and as such the bidders must offer their rates to supply the specific items from own quota of raw material stock by visualizing the prospect of availability and requirement. Any of the above points if taken, as argument for non-supply/delayed supply will not be entertained.
12	SUBMISSION OF CONTRACT COMPLETION REPORT
12.1	Firms shall have to submit consolidated statement in duplicate at the end of rate contract well as after expiry of equipment / instrument guarantee period (as provided in guarantee clause of the contract) to enable JKMSCL to examine the case for refund of performance security.
12.2	The end user shall intimate the complaint/defect arise immediately to the manufacturer/importer/representative with copy to JKMSCL for further follow up..
13	LIQUIDATED DAMAGES:
	<p>I. The time specified for delivery in the tender form shall be deemed to be the essence of the contract and the successful Bidder shall arrange supplies within the period on receipt of order from the Purchasing Officers.</p> <p>II. In case of extension in the delivery period with liquidated damages, recovery of liquidated damages shall be made at the rate of 0.25% per day for every day of delay subject to maximum of 10%. Delay beyond 120 (for Indian products) and 150 days (for imported products) shall be treated as unexecuted and attract penalty @20%.</p> <p>III. Penalty shall not be imposed if claim with regard to any supply i.e. Drugs/Equipment is complete in all respects i.e. QC verification/Board verified etc. is not cleared by the JKMSCL within a period of 60 days.</p> <p>IV. Fraction of a day in reckoning the period of delay in supplies shall be eliminated if it is less than half a day.</p> <p>V. The maximum amount of agreed liquidated damage shall be 20%.</p> <p>VI. If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to M.D, JKMSCL, Jammu / Srinagar (J&K), which has placed the supply order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply. The firms shall ensure extension of delivery period for delayed supplies. The payment shall only released by purchase officer after sanction of extension in delivery period by M.D., JKMSCL.</p> <p>VII. Delivery period may be extended with or without liquidated damages. If the delay in the supply of goods is on account of hindrances beyond the control of the Bidder, the extension in delivery period may be granted</p>

	without Liquidated Damage.
VIII.	<p>If the Bidder is unable to complete the supply within the specified or extended period, the purchasing officer (JKMSCL) shall be entitled to purchase the goods or any part thereof from elsewhere without notice to the Bidder on his (i.e. Bidders) account and risk only with the prior approval from M.D., JKMSCL, Jammu / Srinagar (J&K). The Bidder shall be liable to pay any loss or damage which the purchasing officer may sustain by reasons of such failure on the part of the Bidder. The Bidder shall not be entitled to any gain on such purchases made against default. The recovery of such loss or damage shall be made from any sums accruing to the Bidder under this or any other contract with the government. If recovery is not possible from the bill and the Bidder fails to pay the loss or damage, within one month of the demand, the recovery of such amount or sum due from the Bidder shall be made under the law for the time being in force. In case more than one supplier has been approved for any item under the approved list circulated to the purchasing officers, the risk purchases may be made at a higher rate from any other firm whose rate is duly approved. It is mandatory for the approved supplier to acknowledge receipt of orders within fifteen days from the date of dispatch of order, failing which the purchasing officer will be at liberty to initiate action to purchase the items on risk purchase system at the expiry of the prescribed supply period, after taking required approval from M.D., JKMSCL (J&K).</p>
IX.	<p>If the bidder is unable to complete the supply within the specified or extended period, the purchasing officer shall be entitled to purchase the goods or any part thereof from elsewhere without notice to the bidder on his (i.e., bidders) account at his cost and risk, with the prior approval from JKMSCL. The bidder shall be liable to pay any loss or damage which the purchasing officer may sustain by reasons of such failure on the part of the bidder. The bidder shall not be entitled to any gain on such purchases made against default. The recovery of such loss or damage shall be made from any sums accruing to the bidder under this or any other contract with the corporation/government. If recovery is not possible from the bill and the bidder fails to pay the loss or damage within one month of the demand, the recovery of such amount or sum due from the bidder shall be made or any other law for the time being in force. In case supplier fails to deliver ordered goods, the risk purchases may be made at market rate from any other firm. It is mandatory for the approved supplier to acknowledge receipt of orders within seven days from the date of dispatch of order, failing which the procuring entity will be at liberty to initiate action to purchase the items on risk purchase provision at the expiry of the prescribed supply period.</p>
X.	<p>In case of wrong quoting, (or) if successful bidder refuses (or) fails to execute the supplies on the basis of wrong quoting of rates, the bidder shall be penalized with forfeiting of amount equivalent to the Performance security for the said product (or) debaring/ blacklisting of firm for that particular product(s) for a period not less than 02 years (or) both as deemed fit by TIA i.e. MD, JKMSCL.</p>
14	(i) JKMSCL shall procure the machinery & equipment for the Health & Medical Education Institutes of UT of J&K inter-alia.

	(ii) The funds shall be transferred to JKMSCL with indent form and supply orders shall be placed by JKMSCL to suppliers.
15	RECOVERIES
	<p>(i) Recoveries of liquidated damages, short supplies, breakage, rejected articles shall ordinary be made from bills. Such amount may also be recovered from any other untied dues & security deposits available with Corporation. In case recovery is not possible, recourse will be taken under law in force.</p> <p>(ii) Any recovery on account of L.D. charges/risk & cost charges in respect of previous rate contracts/ supply orders placed on them by the corporation can also be recovered from any sum accrued against this tender after accounting for untied sum or due payment sum lying with corporation against previous rate contracts/supply orders. Firm shall submit details of pending amount lying with corporation but decision of M.D., JKMSCL, J&K regarding authenticity of sum payable shall be final.</p>
16	INSPECTION:-
	<p>(i) The equipments supplied shall be according to specifications provided at Section IV (3) schedule of supply and may be inspected by the technical panel/team constituted for the purpose by JKMSCL deemed fit on the site of manufacturer (in case of Indian manufacturer)/ importer (importer site). The manufacturer/importer shall facilitate the demonstration of the said machine/equipment/on the site only. After the receipt of "Certificate of satisfaction" from the technical panel, the supply order shall placed. In case of BIS Items, inspection shall be strictly as per relevant BIS specifications with latest amendments and have been made applicable by B.I.S. at the time of inspection. The machine/equipment shall be further inspected at the time of installation/commissioning at site i.e the end user site. The supplier shall provide all facilities for inspection/testing free of cost.</p> <p>(ii) Notwithstanding the fact that the authorized inspecting agency had inspected and/or has approved the stores/articles, the procurement officer or his representative may inspect the item/material as soon as it is received in the stores to ensure that the supply is in accordance with the specifications laid down in rate contract.</p> <p>(iii) In case of doubts in inspection/ test, same may be got inspected or tested in any laboratory. If the material is not found as per specifications or defective, consignee will not accept the material and shall inform the JKMSCL, J&K within 3 days. Consignee may also simultaneously ask the firm for removal of defect/replacement. The firm shall be bound to remove the defect or replace the defective equipment/item within 15 days of receipt of intimation from the consignee. However, the date of delivery, in case of defective item shall be taken as the date on which the JKMSCL accepts the item after replacement of defective material/removal of defects as the case may be. Wherever defective item is replaced, the inspection /</p>

	<p>testing charges, if any, shall be borne by the supplier.</p> <p>(iv) If required, the consignee may refer inspection committee to match the specification with available reserved sample with the corporation which is submitted by the firm/supplier at the time of technical approval.</p> <p>(v) In case of imported item, the supplier shall ensure that the item shall be inspected by the third party inspection agency before dispatched to the consignee. In case any un-inspected item has been found in the item received by consignee, the firm shall be solely responsible for it and the JKMSCL shall be free to take suitable necessary action as per terms and conditions of bid documents/agreement against the firm.</p>
17	PACKING AND INSURANCE
	<p>(i) The goods will be delivered at the destination in perfect condition. The firm if so desires may insure valuable goods against loss by theft, destruction or damages by fire, flood, under exposure to weather or otherwise in any situation. The insurance charges will have to be borne by the supplier and the corporation shall not be required to pay any such charges, if incurred.</p> <p>(ii) The firm shall be responsible for the proper packing so as to avoid damages under normal conditions of transport by sea, rail, road or air and delivery of material in good condition to the procurement officer's store. In the event of any loss, damage, breakage or leakage or any shortage the firm shall be liable to make good such loss and shortage found at destination after the checking/inspection of material by the consignee. No extra cost on such account shall be admissible. The firm may keep its representative to verify any damage or loss discovered at the consignee's store, if it so likes.</p> <p>(iii) Packing, cases, containers and other allied material if any shall be supplied free, except where otherwise specified by the firm(s) and agreed by the JKMSCL and the same shall not be returned to him.</p>
18	REJECTION
	<p>(i) Articles not as per specifications/or not approved shall be rejected by the JKMSCL and will have to be replaced by the supplier firm at his own cost within 15 days or as time limit fixed by the JKMSCL.</p> <p>(ii) All the stores supplied shall be of the best quality and conforming to the specification, trademark laid down in the schedule attached to agreement and in strict accordance with and equal to the approved, standard, samples. In case of any material of which there are no standards or approved samples, the supply shall be of the best quality to be substantiated by documents. The decision of Managing Director JKMSCL as to the quality of stores be final and binding upon the bidder. In case any of the articles supplied are not found as per specification or declared sub-standard/spurious, that shall be liable to be rejected and any expenses of loss caused to the supplier as a result of rejection of supplies shall be entirely at his account.</p> <p>(iii) The rejected item must be removed by the firm, within 15 days of the date of intimation of rejection. The officials concerned will take reasonable care</p>

	<p>of such material but in no case shall be responsible for any loss, damage, shortage that may occur while it is in their premises.</p> <p>(iv) No payment shall be made for defective/incorrect items. However, if payment has been made, then defective items shall be allowed to be removed only after the firm replaces material as per specifications, duly inspected. If the payment has not been made, the firm may be allowed to remove the material without prior replacement (provided firm has performance security as per condition No. 18). Joint inspection of defective material may be carried out as required by the JKMSCL. However sample of ISI marked material found defective shall be kept by consignee for reference to BIS.</p> <p>(v) In case firm wants to take back item to their works for rectification then firm has to deposit payment received against such defective supplies. In case supplier has not received any payment then material be returned to supplier firm for rectification.</p> <p>The Bidder shall be responsible for the proper packing and delivery of the material to the consignee. In the event of any loss, damage, or breakage, leakage or shortage in transit, the Bidder shall be responsible. No extra cost on such account shall be admissible.</p>
19.	CORRECTION OF ARITHMETIC ERRORS
	<p>Provided that a financial bid is substantially responsive, the procuring entity will correct arithmetical errors during evaluation of financial bids on the following basis:</p> <p>(i) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the procuring entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;</p> <p>(ii) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.</p> <p>(iii) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to clause (a) and (b) above.</p> <p>If the bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid shall be disqualified and its bid security shall be forfeited or its bid securing declaration shall be executed.</p>
20	PROCURING ENTITY'S RIGHT TO VARY QUANTITY:
	<p>(i) The quantity of equipments and instruments originally indicated in the bidding document may vary without any change in the unit prices and other terms and conditions of the bid and the conditions of contract.</p> <p>(ii) If the Managing Director JKMSCL J&K procures less than the</p>

	<p>quantity indicated in the bidding documents the bidder shall not be entitled for any claim or compensation except otherwise provided in the conditions of contract.</p> <p>(i) If the Bidder fails to supply the Managing Director JKMSCL J&K shall be free to arrange/procure the items and the extra cost incurred shall be recovered from the Supplier.</p>
21.	PARALLEL RATE CONTRACT
	<p>The JKMSCL may also execute parallel rate contract to with more than one firm for each item on the lowest approved rates on the same terms and conditions, if the original lowest one each not in a position to supply material as per JKMSCL requirement.</p> <p>(i) To ensure sustained supply without any interruption, the bid inviting authority reserves the right to approve more than one supplier to supply the requirement among the qualified bidders.</p> <p>(ii) Orders will be placed with Lowest I (L-1) firm. However in case of any exigency at the discretion of the bid inviting authority, the orders may also be placed with the other firms, in the ascending order, L-2, L-3 and so on who have matched with the L-1 rates and executed agreement with corporation on same rates (L1), terms and conditions.</p> <p>(iii) After the conclusion of financial bid opening (Cover B) the lowest offer of the bidder is considered for negotiation and rate arrived after negotiations is declared as L-1 rate and L-1 supplier for an item for which the bid has been invited.</p> <p>(iv) The bid who has been declared as L-1 supplier for certain item shall execute necessary agreement for the supply of the required quantity of such item on depositing the required amount performance security and on execution of the agreement such bidder is eligible for the placement of supply orders.</p> <p>(v) JKMSCL will inform the L-1 rate to the bidders who had qualified for financial bid (Cover B) opening, inviting their consent to match with the L-1 rates for the item/items quoted by them and the bidders who agree to match L-1 rate, will be considered as matched L-1</p> <p>(vi) The bidder who agrees to match L-1 rate shall furnish the breakup detail (Rate, GST, CUSTOM DUTY etc.) of rates (L-1 rates).</p> <p>(vii) The supplier, on receipt of the supply orders deems that the purchase orders exceeds the production capacity declared in the bid documents and the delay would occur in executing the order, shall inform the JKMSCL immediately without loss of time and in executing the order, shall be returned within 7 days from the date of issuing order, failing which the supplier would be deprived from disputing the imposition of liquidated damages, and penalty for the delayed supplies.</p> <p>(viii) If the L-1 supplier has failed to supply / intimated JKMSCL about his inability / delay in supply as per the supply order, the required items within the stipulated time or as the case may be, JKMSCL may also</p>

	<p>place purchase orders with the matched L-1 Bidders for purchase of the items provided such matched L-1. Bidders shall execute necessary agreement indicating the production capacity as specified in the bid document on depositing the required amount. Such bidder is eligible for the placement of purchase orders for the item quoted by them.</p> <p>(ix) Subject to para (vii) above, while JKMSCL has chosen to place purchase orders with matched L-1 supplier and there are more than one such matched L-1 supplier, then the purchase orders for the requirement of items will be place with L-2 first on matched rates of L-1 and in case L-2 does not have the required capacity than L-3 would be considered on matched L-1 rates and the same order would be flowed in case of L-3, L-4, etc.</p> <p>(x) The matched L-1 supplier, on placement of purchase orders, will be deemed as L-1 rate supplier for the purpose of the bid and all provisions of the bid document applicable to L-1 rate bidder will apply to the matched L-1 supplier.</p> <p>(xi) If the supplier fails to supply the item for the purchase orders, at any point of time, either fully or partly, within the stipulated time, JKMSCL is at liberty to place purchase orders with other bidders (in ascending order, viz, L-2, L-3 and so on) at the price offered by then and in such cases the supplier is liable to indemnify JKMSCL, without any protest or demur, for the difference in cost incurred by JKMSCL and the JKMSCL is entitled to recover the difference in cost from the amount due / payable to the supplier.</p> <p>(xii) Parallel rate contract may be concluded as described above during any time / currency of rate contract subject to matching of L-1 rates, price fall clause and on same terms and conditions.</p>
22	VALIDITY OF BID:
	Bids shall be valid for a minimum period of 120 days from the date of opening of technical bid. Prior to the expiry of the period of validity of bid, the procuring entity, may request the bidders to extend the bill validity period for an additional specified period of time. A bidder may refuse the request and such refusal shall be treated as withdrawal of the bid but in such circumstances bid security shall not be forfeited.
23	PRICE ESCALATION:
	Price escalation or price variation shall not be applicable or considered under any circumstances for the purchases made under this bid or agreement. However, the provisions provided for tax variations are exclusive to this clause.
24	SUBLETTING OF CONTRACT:
	Subletting or assigning contract to third party is prohibited. In the event of bidder violating this condition, the Jammu and Kashmir Medical Supplies Corporation Limited shall be at liberty to place the contract elsewhere on the Bidder's account and at his risk. The bidder shall be liable for any loss or

	damage, which the Government may sustain in consequence or arising out of such replacement of the contract.
25	FALL CLAUSE:-
	<p>(i) The prices under contract shall be subject to price fall clause. The prices charged for the store supplies under the contract by successful bidder shall in no event exceed the lowest price at which the successful bidder sells the stores of identical description to any other persons during the period of the contract anywhere in India. If any time, during the period of the contract, the bidder reduces the sales price chargeable under the contract, he shall forth with notify such reduction to the JKMSCL, J&K and the price payable under the contract for the stores supplied after the date of coming into force of such reduction or sale shall stand reduced correspondingly. It imply that if the contract holder quotes/ reduces its price to render similar goods at a price lower than the contract price to anyone in the State /UT of India at any time during the currency of contract including extension period, the contract price shall be automatically reduced with effect from the date of reducing or quoting lower price for all delivery of subject matter of procurement under contract and the contract shall be amended accordingly.</p> <p>(ii) The firms holding parallel rate contract shall also reduce their price. Firms shall notify their reduced price and intimate their acceptance to the revised price within 15 days to JKMSCL. Similarly, if parallel rate contract holding firm reduced its price during currency of the rate contract, its reduced price shall be conveyed to other parallel rate contract holding firms and the original rate contract holding firms for corresponding reduction in their prices. If any rate contract holding firm does not agree to reduce price, further transaction with it, shall not be conducted.</p>
26	COMPLIANCE WITH THE CODE OF INTEGRITY AND NO CONFLICT OF INTEREST:
	<p>Any person participating in a procurement process shall-</p> <ol style="list-style-type: none"> Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process; Not misrepresent or omit misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation; Not indulge in any collusion, bid rigging or any-competitive behaviour to impair the transparency, fairness and progress of the procurement process; Not misuse any information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process; Not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any part or to its property to influence the procurement process; Not obstruct any investigation or audit of a procurement process;

	<p>g) Disclose conflict of interest, if any; and</p> <p>h) Disclose any previous transgressions with any entity in India or any other country during the last three years or any debarment by any other procuring entity.</p> <p>Conflict of Interest :</p> <p>The bidder participating in a bidding process must not have a conflict of interest. A conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.</p> <p>A bidder may be considered to be in conflict of interest with one or more parties in bidding process if, including but not limited to :</p> <ol style="list-style-type: none"> Have controlling partners/shareholders in common; or Receive or have received any direct or indirect subsidy from any of them; or Have the same legal representative for purposes of the bid; or Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the procuring entity regarding the bidding process; or The bidder participates in more than one bid in a bidding process. Participation by a bidder in more than one bid will result in the disqualification of all bids in which the bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a bidder, in more than one bid; or The bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specification of the goods, works or services that are the subject of the bid; or bidder or any of its affiliates has been hired (or is proposed to be hired) by the procuring entity as engineer-in charge/consultant for the contract. <p>Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge / consultant for the contract.</p>
27	<p>All correspondence in this connection should be addressed to the Managing Director JKMSCL, J&K. Technical questions should be referred to the Managing Director JKMSCL, J&K direct by correspondence or by personal contact.</p>
28	<ol style="list-style-type: none"> Direct or indirect canvassing on the part of bidders or their representative shall disqualify their bids. Supplier may be disqualified, banned or suspended from business during the rate contract if : <ol style="list-style-type: none"> fails to execute a contract or fails to execute it satisfactorily ; no longer has the technical staff or equipment considered necessary ; is declared bankrupt or insolvent or its financial position has become unsound, and in the case of a limited company, it is

	<p>wound-up or taken into liquidation ;</p> <p>(d) The firm is suspected to be doubtful loyalty to state.</p> <p>(e) The State Bureau of Investigation (SBI) or any other Investigating agency recommends such a course in respect of a case under investigation.</p> <p>(f) Managing Director JKMSCL, J&K is prima- facie of the view that the firm is guilty of an offence involving moral turpitude in relation to business dealings, which if established would result in business dealing with it banned.</p>
29	No action on the letter head of the bidder /firm regarding any complaints against the JKMSCL will be considered unless the letter head bears the signature of the bidder or the authority higher than the bid signatory of the firm.
30	<p>(i) If any certificate/documents/information submitted by the bidder found to be false/ forged/ fabricated/vexatious or frivolous or malicious appeals or complaints etc. than bidder shall be liable for the appropriate legal action along with disqualification, banning, suspension etc. for limited or unlimited period.</p> <p>(ii) Bidders are required to submit wanted information (if any) based on the facts. If the furnished information by the firm found to misleading or not based on facts disciplinary action against the firm may be taken as to banning concerned item/items for certain or uncertain period.</p>
31	The JKMSCL reserves the right to accept any bid not necessarily the lowest. The JKMSCL may reject any bid without assigning any reasons and accept bid for all or anyone or more of the articles for which bidder has been given or distribute items of stores to more than one firm/supplier.
32	GRIEVANCE
	Grievance regarding interpretation of any clause of the contract/agreement executed between the parties shall be referred to Managing Director, JKMSCL for its clarification.
33	ARBITRATION
	<p>33.1 Governing Law: This NIT shall be governed by and construed in accordance with the laws of the Union Territory of Jammu and Kashmir and the laws of India as applicable to the Union Territory of Jammu and Kashmir.</p> <p>33.1.1 Amicable Settlement: Either party is entitled to raise any claim, dispute or difference of whatever nature arising under out of or in connection with the NIT including its existence or validity or termination (collectively "dispute") by giving a written notice to the other party, which shall contain</p> <ol style="list-style-type: none"> a description of the dispute the ground for such dispute all written material in support of its claim <p>33.1.2 The other party shall, within thirty days of issuance of dispute notice issued, furnish:</p>

	<p>I. Counter claim and defences, if any, regarding the dispute; and</p> <p>II. All written material in support of its defences and counter claim</p> <p>34.1.3 Within thirty days of issuance of notice by any party pursuant to para 29.1.2 both the parties to the dispute shall meet to settle such dispute amicably. If the parties fail to resolve the dispute amicably within thirty days of the receipt of the notice referred to in the above para the dispute shall be referred to Managing Director, JKMSCL, J&K for its reference to arbitration.</p> <p>Dispute Resolution: Besides, as referred above may also include any dispute arising out of contract with regard to the interpretation, meaning and breach of the terms of the contract, the matter shall be referred to the Administrative Department H&ME, who will, through Law Department, appoint a senior most officer as sole Arbitrator, of the dispute, who will not be related to this contract and whose decision shall be final and binding on both the parties. The Arbitrator proceedings shall be governed by the J&K Arbitration and Conciliation Act, 1997. The venue of the Arbitration shall be in the UT of Jammu and Kashmir.</p> <p>Note: - Small grievances regarding interpretation of any clause of the Contract / Agreement executed between the parties shall be referred to Managing Director, JKMSCL for its clarification and such interpretation(s) given shall not become subject matter for reference to Arbitration</p>
34	The JKMSCL will have the right of rejection of all or any of the bids without assigning any reason for the same. The right to conclude parallel rate contracts with another firm for the stores detailed in Table I is also reserved by the Managing Director JKMSCL, J&K
35	Extra stipulation or any other condition contrary to the above bid conditions are not acceptable and may render the bid liable to rejection.
36	The bidder must sign all the pages of bid document at the below of terms & conditions agreeing to abide by all conditions of the bid and accept them in toto. The Signing of Annexure A1 shall be treated as acceptance of all the terms and conditions of the bid document.
37	The Managing Director JKMSCL, J&K may relax or change/ modification in terms and conditions in the exigency excluding fundamental changes. In case of such urgency the terms & conditions shall be got approved from Purchase committee of Managing Director JKMSCL, J&K as the case may be.
38	JURISDICTION:- All actions, legal proceedings and suits arising from or connected to this bid shall be subject to the exclusive jurisdiction of courts in J&K only.

Section VI B: - Special Conditions of Contract (SCC)

The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. The clauses of special conditions of contract are as follows:-

Clause No.	Particulars
1.	Technical details, bid security, tender cost, tender processing fee and all other required documents should be uploaded under Cover "A" Technical Bid and financial details (BOQ) should be uploaded under Cover "B" . No document except financial instrument (DD/FDR) & catalogues of the bid items shall be entertained physically by the Corporation.
2.	Pre-requisite, if any, for installation, including UPS, computer, printer, and other items should be provided by the firm in technical bid and financial bid respectively.
3.	Firm shall provide comprehensive maintenance with spare parts for item(s), as mentioned in Technical specification (from the date of installation / demonstration).
4.	Conditional bids shall not be considered.
5.	Normally, payment shall be released after installation, demonstration and successful commissioning of equipment/ITEM and satisfactory operational training.
6.	All certificates should be valid on the date of submission of bids and issue of supply order.
7.	The bidder should have well equipped local service centre in India preferably in J&K.
8.	<ol style="list-style-type: none"> i. The bidder shall be a manufacturer/direct importer/authorised representative of the original manufacturer/importer who must have manufactured/ imported and supplied and installed this equipment(s) in India satisfactorily. ii. The merger / amalgamation / transfer of business / transfer of assets etc. of a firm affects the bid condition relating to 'past performance' in preceding years. In cases where bidder acquired an ongoing business or assets of another entity, eligibility in respect of the past performance and condition relating to minimum turn over in preceding years shall be decided based on specific mention in purchase and transfer of ownership agreement / agreement of sale of business and / or its assets / board of directors (B.O.D) resolution chartered accountant certification or any other document (s) in this regard, which the bidder shall have to submit preferably with the bid. The eligibility of a bidder in this regard shall be ascertained by the purchase committee on the basis of the above stated agreement or any other document(s) and the decision of purchase committee shall be final.

9.	The name, make, model and brand of equipments, which are offered, should be mentioned in against each item. Mere indication of English/USA/Indian will not serve the purpose.
10.	In the case of supply of imported item the suppliers may be asked to furnish a certificate to the effect that the firm has completed all the formalities in connection with import of the item in question.
11.	In case the item approved by the JKMSCL is procured by any other department on the rate contract of JKMSCL, the administrative charges to the extent of 5% of the invoice value shall be deposited by the approved firm or else, the firm/supplier shall be liable to be penalised which may lead to blacklisting/debarring from entering into the tender process for not less than 05 years by JKMSCL besides forfeiture of earnest money or any other action as deemed fit by the Managing Director, JKMSCL.
13	The Supplier/service providing firm shall be liable to pay a penalty of Rupees five thousand per day , if the firm didn't respond after 48 hours from the time of receiving first complaint. The complaint may be sent to firm by way of telephone /fax/letter or e-mail. The amount of liquidation damage shall be directly deducted from the security deposit of the firm at the time of refund or before by way of any adjustment order. All breakdown calls to be attended within 24 hrs at (within city limits) and 48 hrs for other districts/peripheral areas

APPLICABILITY OF CLAUSES: - All the clauses from 1 to 38 of general terms and conditions and from 1 to 13 of special terms and conditions and their annexure, formats & enclosures are applicable for the bid items.

Managing Director
Jammu and Kashmir Medical Supplies Corporation Limited

I/We have read the above terms and conditions and I/We agree to abide myself/ourselves by the above terms & conditions of the bid document

Signature of bid with seal

Section VI C: Contract Forms (CF)

Table of contents

S.No.	Description	Pages
1.	Declaration of bidder regarding acceptance bid for terms & conditions (Annexure A1)	
2.	Agreement Form	To be downloaded from the website
3.	Form for bank guarantee (on bank letter head)	To be downloaded from the website
4.	Format-Authorized Representatives/Agents of Original Manufacturer/Direct Importer (Annexure AII)	
5.	Technical Specifications (Annexure AIII)	

(On Letter Head of the Bidder)

DECLARATION

I/We M/s. represented by its Proprietor/managing Partner/Managing Director having its Registered Office at and its Factory Premises at do declare that I/we have carefully read all the conditions of bid no. Dated.....including all the amendments in Ref.for supply cum rate contract of **Item name** for Jammu and Kashmir Medical Supplies Corporation Ltd. for the year 2022-23 and accepts all conditions of bid including amendments, if any.

I/We agree that the M.D. JKMSCL, Jammu / Srinagar (J&K) may forfeit bid security and or performance security and debar me/us for a period specifying in orders, if any information/document furnished by us is proved to be false/fabricated at the time of inspection and not complying with the terms and conditions of the bid document as presented in bid, Annexure-B and other relevant documents.

Signature & Seal of bidder
Name & Address:

Format-Authorized Representative of Original Manufacturer/Direct Importer

In case, original manufacturer/direct importer wish to authorise any representative to bid, to negotiate, to raise invoice to receive payments on behalf of original manufacturer/direct importer/against invoice raised by representative.

The Managing Director,
Jammu & Kashmir Medical Supplies Corporation Ltd.
J&K
Dear Sir,

We _____ who are established and reputed manufacturers of _____ having factories at _____ Registered office at _____ possessing manufacturing license No. _____ and do hereby authorize M/S _____ (Name and Address of Representative) to submit a bid and subsequently negotiate with you against the above mentioned tender, subject to the condition that I/we, the original manufacturer/direct Importer of the bidding items and our authorized representative _____ are ready to execute Tripartite agreement with the Corporation i.e JKMSCL stating inter-alia that:-

1. The invoice submitted by the authorised representative for such supplies shall be endorsed by me /us i.e. the original Manufacturer/Direct Importer of bidding items and original copy of the delivery challan of Manufacturer's towards authorised representative for such supplies shall also be endorsed along with invoice submitted by our Authorized Representative.
2. JKMSCL may secure an e-mail /alternative confirmation for authenticity of such supplies from Manufacturer/Direct Importer, before releasing the payment, which we are committed to provide.
3. The payment shall however be released on the terms and conditions of tripartite agreement to be signed between JKMSCL, Original Manufacturer / Direct Importer and the authorized representative of Original Manufacturer / Direct Importer of the bidding items for such supplies made by the authorized representative, on behalf of me / us.
4. In case of change of Dealership we shall be responsible for providing after sales services and maintenance of the equipment free of cost during the warranty period..

No company or firm or individual other than M/S _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.

I / we, further agree to comply with the conditions specified under Clause 2(a) –Eligibility Conditions, of the tender document. We hereby extend our full guarantee as per the tender conditions for the goods offered for supply against this invitation for bid by the above Firm.

Yours faithfully

Name

For and on behalf of M/S

(Name of the manufacturer/Direct Importer)

Note: This letter of authority should be on the letter head of original Manufacturer/Direct Importer of bidding items and should be signed and sealed by the Proprietor/ Managing Director of the firm / authorized signatory and shall have to be duly notarised.

1. Shadow less LED OT light double dome

S. No.	Item	Technical Specification
1.	Shadow less LED OT light double dome.	<ul style="list-style-type: none"> ✓ The light must be Horizontal movable, height adjustable spring arm (in each position self-fixing), two cardanic suspension arms and closed coverage type, asymmetric weight balanced light head n fully cardanic suspension. ✓ The light must be smart and compact, aerodynamic light head shape for optimized laminar air flow conditions. ✓ Should have water and dust protected light head with extremely high splash guard grade of IP 55. ✓ Light must be emitting surface made of hardened safety gals for highest durability against cleaning and disinfection agents. ✓ Should have Ergonomic designed sterilisable handle. ✓ Light head must be convex with flat surfaces and smooth shape transitions. Optimized heat management. ✓ Should have optically based triple lens system in Matrix-Technology enables highest values in deep cavity illumination. ✓ Should have integrated microprocessor and sensor controlled shadow management guarantees best possible shadow dilution. ✓ The illuminated field is variable in shape and diameter and offers a sleepless adaption to the surgical field. ✓ Must be the light adjustments is able by using the central sterile handle as well as the control panel in the light body. ✓ Should have quickly and easy positioning by unsterile persons the light head offers several handle elements. These are airflow optimized integrated in the shape of the light body on order to avoid turbulences. ✓ Should have upgradable option of HD Camera system in the centre of the light head. ✓ Must be the Support arm made of laminar flow optimized extruded Aluminum sheath. ✓ Height adjustment of light head must be Min. 1100mm. ✓ Motional radius must be Min. 2335mm. ✓ Light should have rotatable stop less at all joints. ✓ Should have free height below sterile handle Min. 2000mm. ✓ Light should have protection grade of support system IP 30. <p>LIGHT HEAD</p> <ul style="list-style-type: none"> ✓ Light head must be closed without outer connection parts. ✓ Light head should have high splash protection grade of IP 55. ✓ Light head diameter must be max. 73cm. ✓ Light head underside surface must be a smooth surface in order to reduce turbulence in laminar flow. ✓ Should have Minimum 2 handles for Positioning of light head. ✓ Handle elements must be integrated aerodynamically efficient in light head shape. ✓ Should have different type of operating functions at the central sterile hand like light, brightness and intensity control, ON/OFF the lights, changing colour temperature and activate the endo mode. ✓ Protection grade of light head should have min. IP 55. ✓ Light head must be powder coated impact resistant plastic housing with a fine structured surface. ✓ Light head should have splash proof grade of IP55. ✓ Light support arm system must be Laminar Flow optimized low weight Aluminum

		<p>profile with an oval cross-section.</p> <p>LOWER GLASS ELEMENT</p> <ul style="list-style-type: none"> ✓ Should be generating a high, cool, colour homogeny and high colour constant OR field illumination there are a multiple LED's in a special calculated 3D Matrix arranged. ✓ Should have triple lens systems guarantees a illumination of extremely small light field as well as very large light field diameters. Thereby circular light beams as well as oval shaped beam arrangements are adjustable. ✓ Light head must be Special high performance LED - systems offers a natural and daylight oriented colour reproduction with a high possible colour rendering index. ✓ Should have colour temperature is replicable by steps as well as in a step less mode. ✓ At 1m distance a illumination must be 160.00 Lux at field diameter of 14cm. ✓ Due to the integrated logic control the adjusted illumination grade is constant over all filed diameter adjustments. ✓ Electronic operation panel offers a intuitive controlling of all photometric values of the light. ✓ All settings must be storable and customizable. ✓ In addition a special LTM - Mode is available which offers a good illumination characteristic shortly on ly by pushing the buttons. <p>TECHNICAL REQUIREMENTS</p> <ul style="list-style-type: none"> ✓ Colour temperature must be intraoperative adjustable between 3000 K to 3500 K. ✓ Should have automatic Synchronization of Colour temperature in case of more light heads. ✓ Should have 96 individual high performance LED bulbs (combination of Green, Blue and yellow bulbs). ✓ Should have constant illumination power at all settings of colour temperature. ✓ Colour temperature must be adjustable. ✓ Should have High Performance Lighting with ideal focusing and overlapping of light beams offers a constant illumination power in all adjustments of filed diameters. ✓ Max. Illumination power E_c in a distance of 1m at a field size of d_{10} up to 35cm. ✓ Should have focusable light field 14-35cm. ✓ Light field must be intra operatively adjustable circular to oval. ✓ Light field must be geometric shape adjustable. ✓ Ovals light field must be rotatable. ✓ Should have integrated Dimming. ✓ 160,000 Lux must be without Boost - Mode. ✓ Should have shadow dilution with tube and 1 mask $\geq 99\%$. ✓ Should have shadow dilution with tube and 2 masks $\geq 50\%$. ✓ Should have Multifunction handle, sterilisable for controlling of dimming and light field adjustment. ✓ Luminous efficacy must be $\geq 290lm/ Watt$. ✓ Colour rendering index must be $R_a \geq 99$. ✓ D_{50} must be $\geq 0,5xd_{10}$. ✓ Should have light field diameter larger than 340 mm adjustable. ✓ Should have 160klx at light field diameter of $> 340mm$. ✓ should have constant illumination in Lux in case of changing the light field diameter. ✓ Should have spotlight mode with adjustable ambient light.
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	<ul style="list-style-type: none"> ✓ Should have light field adjustment without mechanical devices. ✓ Should have Customizable start settings. ✓ Should have individually nameable and storable settings. ✓ Should have optional touch screen panel for controlling of all light functions. ✓ Touch-control panel must be control up to 4 light system and 2 camera systems individually. ✓ Should have central adaption of camera. ✓ Average expected lifetime of LEDs must be 60,000 hours. ✓ Power consumption of light head must be max. 130W. ✓ Light head weight must be < 15 kg for easy and safe positioning. ✓ The light standards and certification must be IEC 60601-1-2005 (Third Edition) + CORR. 1:2006 + CORR. 2:2007 + A1:2012 IEC 60601-1-2:2014 IEC 60601-2-41: 2009 + A1:2013.
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02. Suction Machine

S. No.	Specifications for Suction Machine
1.	Air flow rate of pumps : 55//min.
2.	Maintenance free membrane pump
3.	Regulated Vacuum with Max of. -93 k Pa(-930 mbar/ -700mmHg)
4.	Power consumption : approx. 100-150 W.
5.	Voltage : 230V – 50-60 Hz.
6.	Noise level : 46 dB(A) @ 1 m (acc. To ISO 7779).
7.	Operating time : Continuous operation for 6 days approx.
8.	Ambient conditions during operation: Temperature 10 to 32°C
	Humidity : 20...80% without condensation;
9.	Approximate dimensions (H x W x D) : 940 x 500 x 390mm
10.	Weight : Around 30-35 Kg.
11.	Mobile system mounted on anti static 4 castors, front 2 should be Lockable Castors.
12.	Standard rail holder for mounting accessories.
13.	Provision for one 3 liter & one 5 liter jars with changeover lever. Should be supplied with additional canisters.
14.	Classification: degree of protection: type BF; protection category; IPXI; Protection class ; I:CE or EN certified product. Should have FDA or CE certification.
	Accessories
1.	Direct docking system (DDS) collection container; Autoclavable, with hose holder, plastic, 5 litres & 3 liters; 2 sets.
2.	DDS collection lid complete set consisting of : <ul style="list-style-type: none"> ○ DDS jar lid with gasket. ○ DDS jar handle. ○ DDS splash protection. ○ DDS hose adapter set, Ø 6 mm + Ø 10 mm DDS bacterial filter/ over suction stop
3.	Foot switch installation set.
4.	Foot regulator set.
5.	Deposit tray of stainless steel:
6.	Hose support of stainless steel:
	Consumables
1.	DDS disposable bacterial filter/ over-suction stop -100 nos per unit
2.	Autoclavable, silicone suction hose, Ø 6 mm, L = 2 m, (136°C) 5 nos per unit.
3.	Autoclavalbe, silicone suction hose, Ø 10 mm, L = 2 m, (136°C) 5 nos per unit.

3. ELECTRO SURGICAL UNIT

ELECTRO SURGICAL UNIT

All purpose digit electro surgical unit with Micro-processor based technology with capacity of 300 – 400 watts and can be used for all Open & laparoscopic surgeries including liver resection & liver transplantation with monopolar and bipolar modes available with capabilities of Mono and Bipolar (cutting and coagulation) with Monopolar under water cutting and coagulation facility.

Each unit should have:

1. Facility of automatic output control through computerized memory
2. Digital display for power setting with touch screen display.
3. Programmable power settings/ recall mode for last setting.
4. Tissue feedback system to adjust power to tissue changes.
5. Two monopolar and one bipolar output.
6. The machine should have minimum 6 bipolar modes of energy.
7. The device should have minimum 4 cutting and coagulation modes.
8. Bipolar coagulation should be available via footswitch and with auto-bipolar mode with bipolar current meter.
9. The system should have audio and visual patient plate error monitoring system.
10. Separate foot pedal for mono polar and bipolar.
11. Should be compatible for use with endoscopic coagulation.
12. The device should come with inbuilt memory of 8Gb for error log and storage.
13. The device should self-test every time it is switched on.
14. The device should be able to use two monopolar output simultaneously.
15. Facility to use monopolar and bipolar without switchover for ease during surgery.
16. The coagulation mode can be shared while using simultaneous monopolar modes.
17. Facility to enable and disable auto bipolar mode as per requirement by the surgeon.
18. The device should be future ready and any upgrade should be done free of cost.
19. The OEM should quote the latest available model present in global market.
20. Automatic limitation of maximum HF power.
21. Output power adjustment with touch screen.
22. The equipment should be compatible to be used along CUSA, Smoke Evacuator and Argon Plasma Generator.

Safety Standard:

1. IEC 60601-1:2012 for leakage currents & patient Auxiliary currents.
2. Safety class I as per IEC 601. Safety type.
3. Standards of voltage transients-Energy platform mains transfer (IEC 60601-1, IEC 60601-2-2, and ANSI/AAMI HF18) so that system continues to operate normally with no errors or system failures when transfer is made between line AC and an emergency system voltage source. The system may momentarily shut down in safe mode.
4. CF Check for LF leakage with alarm as per IEC 601.1.
5. Check for HF leakage with alarm Maximum 150 mA Earth leakage current.
6. Maximum 0.5 mA Enclosure leakage current.
7. Maximum 0.1mA Monopolar leakage current.
8. Maximum 0.01mA Bi-polar output leakage current Maximum 0.1 mA.

Accessories.

The unit should be supplied with following accessories:

1. 3 Button switch pencil with electrode and with cable with cutting and coagulation modes, single use – 25 pcs.
2. Patient plate along with cable with split pads and polyhesive material, single use – 50pcs.
3. Biopolar forcep Resuable – 1.
4. Bipolar Cord Reusable – 1.
5. Monopolar Cord for laproscopic surgeries Reusable – 1.
6. Disposable Laparoscopic Smoke Evacutor – 10.
7. Clean Coat Cautery L – Hook electrode Laproscopic – 10.
8. Clean Coat Cautery Spatula electrode Laproscopic – 10.

The device and accessories should be USFDA approved.

The price of consumables should be freezed for next 10 years.

4. Biplor TURP Set Resectoscope

Biplor TURP Set Resectoscope
Cystoscope, Resectoscopes, Urethrotomes (Adult)
<p>Telescope for standard cystoscopes:</p> <p>HOPKINS Straight Forward Telescope 0°, enlarged view, diameter 4mm, Autoclavable, fiber optic light transmission incorporated. – 2 nos.</p> <p>HOPKINS Forward Oblique Telescope 300, enlarged view, diameter 4mm, Autoclavable, fiber optic light transmission incorporated. – 2nos.</p> <p>Cystscope – Urethroscopes :</p> <ul style="list-style-type: none"> • Cystoscope – urethroscope – sheath, 25 Fr. With obturator, two LUER – LOCK adaptors, with catheter capacity of 12 Fr with single channel bridge & 2 x 8 Fr. With double channel bridge with proper color code – 1 No. • Cystoscope – urethroscope sheath, 22 Fr. With obturator, two LUER – LOCK adaptors. With catheter capacity of 10 FR with single channel bridge & 2 x 7 Fr. With double channel bridge. With proper color code – 1 No. • Cystoscope-urethroscope sheath, 20 Fr. With obturator, two LUER-LOCK adaptors, with catheter capacity of up to 7 Fr. With single channel bridge & 2 x6 Fr. With double channel bridge. With proper color code – 1 No. • Cystoscope-urethroscope sheath, 19 Fr. With obturator, two LUER-LOCK adaptors, with catheter capacity of up to 6 Fr. With single channel bridge & 2 x 5 Fr. With double channel bridge. With proper color code – 1 No. • Cystoscope-urethroscope sheath, 17 Fr. With obturator, two LUER-LOCK adaptors, with catheter capacity of up to 5 Fr. With single channel bridge & double channel bridge. With proper color code – 1 No. <p>Deflecting Mechanism & Telescope Bridges: 1 set</p> <ul style="list-style-type: none"> • Catheter Deflecting Mechanism with two instrument channels, with quick control – 1 No. • Catheter Deflecting Mechanism with two instrument channels, with ratchet. – 1 No. • Telescope Bridge with 2 instrument channel – 1 No. • Telescope bridge with 1 instrument channel – 1 No. <p>Optical Forceps & Scissors:</p>

- Biopsy Forceps, double action jaws, - 1 No.
- Biopsy Forceps, through cutting double action jaws. – 1 No.
- Grasping Forceps, double action jaws. – 1 No.
- Scissors, double action jaws. – 1 No.

Flexible instruments for Standard Cystoscope:

- Grasping Forceps for removal of foreign bodies, 7 Fr., double action jaws, length 40 cm. – 2 No.
- Biopsy Forceps 7 Fr. Double action jaws, length 40 cm – 2 No.
- Scissors, single action jaws, 7 Fr. Double action jaws, length 40 cm – 2 No.
- Ball electrode, Needle electrode, Loop electrode, with proper unipolar High frequency cords. – 1 No.

RESECTOSCOPES (for adults) : 2 Nos.

Technical Specifications:

Resectoscope sheath including connecting tubing for in and outflow, 26 Fr. Obtique beak, fixed inner tube.

Resectoscope sheaths with rotatable inner tube for continuous flow irrigation and suction. Should have:

- Ceramic insulating beak insert for burn resistance.
- Ceramic insulation on Inner tube for easy service.
- Rotatable inner tube.

OBTURATORS:

All the sheaths should be supplied with proper standard – obturator, and compatible visual obturator. – 1 No.

Resectoscope Monopolar – Working Element – 1 set (loops in qty of 6)

Should have the following features.

- One stem electrode with stabilizer type.
- Motion by means of a spring.
- The thumb support is movable.
- In rest position the electrode is inside the sheath;
- Should include 2 cutting loops, 2 Coagulating electrodes, 2 high Frequency cords, 1 protection tub in standard set.

URTHROTOMES FOR ADULTS – 1 SET

SACHSE Urethrotome – Sheath, 21Fr with channel for Filiform – Bougies and 2 LUER – lock adaptors.

Obturator for Urethrotome-Sheath.

Telescope Bridge with channel for instruments 5 Fr. – 1 No.

Supplementary sheath, half round to insert balloon catheter, to slip on urethrotome-sheath. – 1 No.

Supplementary sheath for continuous irrigation and suction. – 1 No.

5. Technical specifications for 4K ICG Fluorescence Ultra High Definition Laparoscopic imaging Endo Vision System/ Laparoscopy Hand instruments

S. No.	Tender Enquiry No.	Brief Description of Goods (item name)	Qty	
1A		4K ICG Florescence Ultra High Definition Laparoscopy imaging Endo Vision System	2 sets	
1B		Laparoscopy Hand instruments	2 sets	

Laparoscopy system including 2D and 4K endoscopic camera

S. No.	4K Fluorescence Ultra High Definition Laparoscopy imaging Endo Vision Systems(1.A)
	1. All items should be Medical Grade. It should feature several enhancements, such as brilliant

	<p>4K resolution, fluorescence, auto-light technology etc. the complete Optical Chain should be 4K for Optimized imaging.</p> <p>2. The 4K ICG Fluorescence High Definition Endoscopic imaging system will consist of the following items:</p> <ol style="list-style-type: none"> Full 4K ICG Fluorescence video image processor 4K camera head & suable coupler, (ICG based) – Qty- 1 No. ICG based powerful LED light source equivalent to 300W intensity/ ICG Xenon light souce not less than 300Watt (Company quoting Xenon shall supply at least 10 Nos extra bulbs) –Qty- 1 No. 32" or more 4K (UHD) Medical Grade Monitor – Qt y- 1 No. 26" or more full HD Medical Grade Monitor for Assitant / nursing staff while operating ;/ assistance – Qty – 1 No. High flow 45-50 ltr. Co2 Gas insufflations unit with integrated heating mechansinm – Qty – 1 No. 4K compatible ICG Telescope – 10mm 0° & 30° – Qty – 1 No. each 4K compatible ICG Telescope – 5mm 0° & 30° – Qty – 1 No. each ICG compatible fibber optic cable – Qty – 2 No. ENDOSCOPIC Trolley/ ENDO Cart – Qty – 1 No. (it should be from same make or marketed/ promoted by same company.) UHD/ 4K Video recorder – Qty- 1No. <p>3. Important Points:</p> <ol style="list-style-type: none"> All the above items from S.No. 2 (A-I) 4K CAMERA/ LED LIGHT SOURCE/ 32 & 26 inches MONITOR/ High Flow CO2 insufflator/ 4K Compatible Telescope/ FIBRE OPTICABLE & b 4K recording system (should be compatible with each other & 4K ICG technology & from a single manufacture/ Company for system compatibility & if not quoted form single company or manufacturer than the bids shall be summarily rejected. ALL ABOVE ITEMS S. No.:- 2 (A-I) SHOULD BE US FDA CERTIFIED & EUROPEAN CE CERTIFIED FROM NOTIFIED BODY & CERTIFICATES SHOULD BE PROVIDED/ SUBMITTED WITH TENDER SUBMISSION. All the items should be compatible with each other & 4K ICG technology. All the items (CAMERA/ LIGHT SOURCE/ MONITOR/ HD TLESCOPE/ FIBRE OPTICALBE/ 4K RECORDER/ should be same make / manufacturer for system compatibility. All items should be USFDA and European CE certified, certificate should be submitted with tender documents.
01.	<p style="text-align: center;">4K ULTRA HIGHT DEFINITION LAPROSCOPIC ENDOVISION SET</p> <p>1. 3 chip CCD/ CMOS 4K CAMERA SYSTEM (with Fluorescence).</p> <ul style="list-style-type: none"> The system should be Digital endoscopic video camera with progressive can to guarantee genuine 4K. Resolution of 3840 x 2160 pixels and 1920 x 1080 should also be selectable. Should provide both 4K output and Full HD output. Full 4K Ultra High Definition Video Image processor should have excellent image quality with progressive scan with 50 or 60 Hz, which offers higher picture quality & eliminates virtually all motion artifacts. Should be ICG compatible for fluorescence. Control of ICG fluorescence viewing from the camera head. System should be capable of Near infrared Fluorescence imaging with below features:- <ol style="list-style-type: none"> White Light Image with super imposed display of fluorescence. Fluorescence signal in white light image display of fluorescence. Automatic adjustment of light intensity to prevent the issues of glare. Controllable feature of increasing or decreasing fluorescence gain and intensity.

- Programmable buttons on camera head to adjust the cavity backlighting and intensity of ICG.
- Integrated gain/ shutter / enhancement with automatic brightness control.
- Automatic identification and brightening of dark image areas without lag time, without increasing foreground glare. Automatic intensification for color contrast levels.
- Should have Auto light.
- Should provide at least 7 or more users preset.
- Pixels 3840 x 2160 & 1920 x 1080 pixels, both should be selectable.
- Video output All port should be 4K and HD compatible.
- Pixels 3840 x 2160 pixels.
- AGC Microprocessor controlled.
- Control Button Should have 4 buttons with at least 3 of them freely programmable
- Power Supply 200 -240 VAC 50/60Hz.

2. LED light Source/ XENON Light Source 300 WATT (ICG COMPATIBLE)

- LED light based cold light source.
- Color temperature should be approximate 5500K or more.
- Should be ICG compatible for fluorescence.
- System should be capable of Near Infrared Fluorescence Imaging with below features:
 - a) White Light Image with super imposed display of fluorescence.
 - b) Fluorescence signal in white light image with dark color background.
 - c) Automatic adjustment of light intensity to prevent the issues of glare.
 - d) Should have facility to use infra Red illuminating Optical Fibers for Ureter Identification (IRIS Feature).
- Power supply should be 100-60 VAC. 50-60 Hz.
- Should have universal socket to accept fiber optic cable of any make.
- Power consumption should not be more than 375 VA.
- Should be under BF class I.
- **Company quoting Xenon Light source should supply at least 10 Npon of Extra Xenon Bulb to compensate lamp life of LED light source.**

3. 32' or more 4K (UHD) Medical Grade Monitor.

- Ultra High Definition (UHD) of 32" or wider screen.
- Resolution of 3840 x 2160 & 1920 x 1200.
- Surgeon specific user selectable settings.
- Color Depth 8 bit.
- Aspect ratio 16:10 /16:9.
- Max observation angle: 178- degree vertical horizontal.
- Inputs: HDMI, DVI etc.
- Should have Class-I Medical Device Certification.
- IEC 601. 1 & ISO. CE Approved.

4. 26' or more Full HD Medical Grade Monitor (OT Assistant Monitor).

- Full High Definition (HD) of 26' or wider screen.
- Resolution of 1920 x 1200.
- Surgeon specific user selectable settings.
- Color Depth 8 bit.
- Aspect ratio 16:10/ 16:9.
- Max observation angle 178-degree vertical horizontal.
- Inputs DVI, SDI etc.
- Should have Class-I Medical Device Certification.
- IEC 601.I & ISO CE Approved.

5. High flow 45 Ltr or More Co2 Gas insufflations Unit with Integrated Heating Facility.

- Insufflators.
- High flow of 45 Ltr or above with LED/ LCD display.
- Microprocessor controlled & Software driven for upgradeability.
- Soft approach pressure control for safe recovery of abdominal pressure.
- Should have neonatal mode & visual and audible alarms with min 0.1 L flow rate internal leakage detection capacity.
- Integrated Gas heating having internal venting system for safety.
- Should include heated tubing hose & yoke.
- Should be US FDA Approved.

6. 4K ICG Compatible Telescope - 10 mm 0° & 30°- 1 No. each.

- Should have Wide angled field of vision.
- Should have 3 types of adaptors for fiber optic cable.
- Should have working length of 310mm or more.
- Should be ICG compatible for fluorescence.
- Should be Automatically.

7. 4K ICG Compatible Telescope – 5mm 0° & 30° – 1 No. each

- Should have Wide angled field of vision.
- Should have 3 types of adaptors for fiber optic cable.
- Should have working length of 310mm or more.
- Should be ICG compatible for fluorescence.
- Should be Automatically.

8. ICG Compatible Fiber Optic Cable – 02 Nos.

Length should be 300mm or more .

Should be compatible with ICG Fluorescence

9. ENDOSCOPIC TROLLEY

- Endoscopic trolley compatible with the above systems.
- It should have main switch and isolating transformer.
- It should be from same make or marked/ promoted by same company.

10. UHD/4K Video recorder.

- Capability of receiving signals and recording video from UHD endoscopic cameras, digital x-ray and ultrasound machines.
- Ability to transfer captured still and video images to external media using USB.
- Camera Head Triggering Control from existing UHD Camera buttons.
- Internal recording hard drive should be 1 TB or more.
- Video input should be HDMI & DICOM connectivity and video output 2xHDMI, 4K SDI and FHDS DI.
- Capability for simultaneous recording on external device through USB interface on front panel.
- Device should be registered as safe for medical grade.
- **Should be USFDA & European CE approved.**
- **4K Recorder should be of same brand.**

Scope of supply for Lap Hand instruments (US FDA CE MARKED)

All Hand instruments (Dissector & forceps should be Rotatable, Dismantlable & Detachable for cleaning purpose).

1.8	Laparoscopy Hand Instrument (to be supplied with equipment)	2 sets
S. No.	Description	Qty per set
1.	120 MM VERSES NEEDLE	2
2.	5MM ASPIRATON NEEDLE, 33CM LONG	1
3.	10MM CLIP APPLYING FORCEPS, ETHICON ML (IC 200 OR LT 400 COMP)	1
4.	5MM 33CM MARYLAND DISSECTOR ROTAT	2
5.	5MM 33CM SPATULA TIP ELECTROSURGICAL PROBE (3BX)	3
6.	5MM 33CM L-TIP ELECTRO SRUGICAL PROBE	3
7.	5MM33CM MIXTER DISSECTOR	1
8.	5MM33CM FUNDUS GRASPER	1
9.	5MM33CM LAIGATOR GRASPER	1
10.	5MM33CM SINGLE ACTION ATRAUMATIC	1
11.	5MM33CM COBRA GRASPER	1
12.	5MM33CM STRONG GRASPER (FENESTRATED)	1
13.	5MM33CM PEEK MONOPOLAR HANDLE	1
14.	55MM CANNULA AUTOMATIC VALVE STOPCOCK WITHOUT TROCAR	2
15.	TOCAR PYRAMIDAL TIP 55MM	2
16.	11MM CANNULA AUTOMATIC VALVE STOPCOCK WITHOUT TROCAR	2
17.	TROCAR PYRAMIDAL TIP, 55MM	2
18.	SUCTION IRRIGATION TRUMPET TYPE	1
19.	2- way value with rotating adapto L1 male 2 L1 female.	1
20.	5MM CURVED LEFT NEEDLE HOLDER	1
21.	PADDLE BABCOCK GRASPER 33CM	1
22.	5MM33CM DORSEY GRSPER	1
23.	5MM33CM CURVED RIGHT NEEDLE HOLDER	1
24.	5MM33CM ENDO EMTZENBAUM SCISSORS (CURVED)	1
25.	5MM33CM STRAIGHT NEEDLE HOLDER	1
26.	5MM33CM CURVED KELLY DISSECT	1
27.	5MM33CM RIGHT ANGLE DISSECTO	1
28.	5MM33CM ALLIS GRASPER (SINGLE)	1
29.	REDUCER	1
30.	RATCHETED HANDLE	1
31.	CLAW FORCEP	1
32.	MAYOMA SCREW	1
33.	TENECULUM FORCEP	1
34.	PUNCH BIOPSY FORCEPS	1
35.	SUTURE PASSER NEEDLE	1
36.	PORT CLOSURE NEEDLE	1
37.	UTERINE MANIPULATOR (FULL CIRCLE)	1
38.	CURVED FAN RETRACTOR (5 LEAF)	1

6. Specifications for Cavitron Ultra Sonic Surgical Aspirator

Should be one versatile systems of exceptional control of soft tissue and fine bone dissection in close proximity to delicate anatomic structures.

Should be able to deliver precise fragmentation, irrigation and aspiration simultaneously in one hand piece.

Ultrasonic Aspiration:-

- Piezoelectric transducer, power to size ratio. Longitudinal & Torsional Vibration Technology for bone dissection in skull base, spine with Non rotational reciprocating motion and should be compatible with Universal 25KHz hand piece.

Console : Qty 1

- Should be compact and minimum space requirement, easy to setup and operate.
- The aspiration & irrigation should be controlled by single switch operation.
- Full Digital System Control.
- Operator control : Full Touch panel
- Irrigation flow: 3 to 4 ml/min.
- Irrigation pump: Peristaltic pump technology.
- Automatically recognizes and pieces for easy set up.
- Suction, irrigation and ultrasonic functions can be used alone or simultaneously.
- Console should be provided with various safety alarms like excessive heat on hand piece.
- Incorrect installation, excessive pressure on tip of hand piece, abnormal oscillation function.
- System should be capable of priming by itself at the beginning to avoid tip damage.
- Weight of console should be less than 24kgs.
- Single Pedal Foot Switch Cord Length should be 12 feet.
- Suction type: Diaphragm pump.

ALARMS

Should have following alarms

- FREQ. (frequency alarm).
- Illuminates if the tip of a handpiece is either damaged or installed incorrectly. Indicator will also illuminate if excessive heat is present at the handpiece tip. An audible signal will also occur.
- OVERLOAD (overload alarm)
- Illuminates if excessive pressure is placed on the tip of the handpiece. An audible signal will also occur.
- US (ultrasound alarm).
- Illuminates if an abnormal oscillation malfunction has occurred. An audible signal will also occur.
- IRR/PV (irrigation/ pinch value alarm).
- Illuminates to indicate there may be a problem with the irrigation pump and/ or pinch valve.

Handpiece – Qty 1

- Universal handpiece or supportive handpieces (if more than 1 required) for soft tissue & bone dissection having various compatible tips from soft tissue, Hard (Fibrous) tissue, Bone
- Decompression (shaving) Bone cutting (splitting) to Transphenoidal length for Deep Access.
- Lightweight, 120 grams, ergonomic design provides superb tactile feedback and requires no external cooling.
- 25KHz – 36 KHz Universal Handpiece.
- 19 Different types of specialty tips should be attachable.
- Frangible tip covers for improved visualization and access.

Tips- total 30 tips

- **System should be compatible with at least below different tips... ranging from soft tissue, to Hard tissues, to bone, to transphenoidal length.**

- Tip should be made up to Titanium.
- Tip is packaged with a corresponding irrigation sleeve.
- Should be used with irrigation sleeve that should be
 - Frangible.
 - Provides proper irrigation flow.
 - Protects surroundings tissue (patient and surgeon).
- 1. Soft tissue tips – Total 5 pieces (5 normal inner dia 1.5mm).**
- 2. V shape Tip end for Hard or fibrous tumors – 10 pieces (5 inner dia 1.5mm and 5 large inn dia 2.01mm).**
 - To provides mechanical cutting along with ultrasonic cavitation.
 - Ideal for difficult fibrotic lesions I,e Meningioma.
 - Two sizes, tip diameter should be available available.
- 3. Super long Tips Total 10 should be supplied (straight super long 5 for Hard fibrous tissue, Bone Deep access (5) – total 10 pieces.**
- 4. Bone tissue tips – Total 5 bone shaving tips of claw shape – total 5 pieces.**
 - Different types fo claw tips for decompressing nerve roots while irrigating and aspirating should be available for unroofing and skeletonization of the Bone.

The System should have below accessories

- Step Torque Wrench – 1
- Cleaning Wire – 1
- Sterilization Tray – 1
- Plastics Suction Canisters – 10
- Disposable Tubing Set & Extender Filter Tubing – 10.

Others

- US FDA Approved, the system with all the application should have safety quality certification.
- Physical demo should be available with all features and functions within ten days of notice.
- Training to technical and paramedical personal should be provided by the vendor.

7. Specifications for Color Doppler Ultrasound System

1. Should have Ultra High Resolution Imaging and Doppler for Clinical Needs.
2. Should have short boot time not more than 60 seconds.
3. Should have graphic processing unit for faster work process.
4. Should have speckle reduction technology for enhancing tissue margins for better anatomical visualization and to improve better organ anatomy from different angles.
5. Should have optimization of ultrasound image formation by using multi channel synthesis technology to reduce noise and artifacts.
6. Flat panel monitor should have swivel facility.
7. Should have back illuminated keyboard for easy access.
8. Control panel should be sealed and spill proof for easy cleaning and disinfection.
9. Should have height adjustable mechanism with control panel.
10. Should have facility to compensate the motion related imaging artifacts.
11. Should have technology to maintain autofocus for entire imaging depth.
12. System should have auto axial and lateral gain facility.
13. Should have DICOM capabilities.

14. Should have Wifi capabilities.
15. Should have an internal hard drive to store images.
16. USB flash memory drive should be the part of the system.
17. Should be of latest generation digital beam former technology.
18. Sterilizable remote control for convenient control of the system in the sterile field should be supplied.
19. Imaging Modes: System should have following modes:
 - a) B mode.
 - b) M mode
 - c) Color Doppler
 - d) Power Doppler
 - e) Pulsed Wave Doppler
 - f) Continuous Wave Doppler
 - g) Tissue Harmonic imaging.
20. In Doppler mode system should have technology to detect high flow in ROI and place Doppler gates automatically and should provide angle independent Doppler velocity measurements with a compatible transducer.
21. Should have facility to connect at least four transducers.
22. Transducer should have pin less connector for easy insertion and to reduce noise.
23. All quoted transducers should be fully immersible for easy sterilization and also compatible with standard sterilization methods like Sterrad and Steris systems.
24. System should be able to communicate with daVinci surgical robot's tile pro.
25. The following transducers are to be supplied along with the scanner:
 - a) 2-6 MHz convex abdominal transducer with an Autoclavable punctures attachment. It should have programmable start and stop button to activate, freeze, unfreeze, and print functions.
 - b) 3-14 MHz linear transducer with angle independent velocity measurements for vascular, small parts, testes, breast and thyroid scans. System should be able optimizes Doppler parameters automatically. It should have programmable start and stop button to activate, freeze, unfreeze and print functions.
 - c) 12-4MHz four way deflectable laparoscopic transducer with inbuilt biopsy channel. Transducer should compatible with standard sterilization methods like, immersion, ETO and Sterrad.
 - d) Transrectal transducer with simultaneous biplane imaging facility to visualize, sagittal as well as transverse planes of prostate gland simultaneously. The same transducer should have an enfire array for scanning the apical areas of the prostate during nerve sparing lap radical prostatectomies. Transducer should compatible with standard sterilization methods like immersion, ETO and Sterrad. A biopsy attachment for side fire as well as enfire arrays to be supplied. It should have programmable start and stop button to activate, freeze, unfreeze, and print functions.

Optional transducers:

- 4-12 MHz multi frequency convex array Robotic drop in transducer for Robot assisted partial nephrectomy. Transducer should be compatible with standard sterilization methods like immersion and Sterrad.

8. C-Arm (Image Intensifier)

S. No.	Specification for Mobile Flat Panel Detector C-Arm Unit
	Mobile C-Arm with Flat Panel system with true counter balanced C arm for fluoroscopic and X-ray operation.
A.	Gantry/ C-Arm
	Fully counterbalanced C-arm with side –to-side (wig-wag) and the horizontal travel movements, and the

	following features:
1.	Orbital movement: more than 110 degrees.
2.	Angulations; at least 135 degrees.
3.	Horizontal movement : more than 190mm
4.	Vertical movement: at least 40cm motorized movement
5.	Swivel range: ± 10 degrees
6.	Depth of immersion : 50cm
7.	Free space within the C-arm : at least 60 cm
8.	Field of view: square field of view for better ROI coverage.
9.	Remote control (touch based) for control of C-Arm functions.
B	Generator & X-Ray Tube
1.	Generator should be microprocessor – controlled converter & type with output of at least 15 KW or more and minimum 50 KHz frequency.
2.	Modes: continuous, digital pulse fluoroscopy and digital radiography
3.	Fluoroscopic KVp range: 40-120kV, minimum 60mA.
4.	Radiographic WVp range: 40-120kVp, minimum 100 mA or more
5.	X-ray tube should have a rotating anode
6.	Anode heat storage capacity should be 300 KHU or higher
7.	Anode cooling capacity should be 70KHU/minute or higher
8.	Tube housing heat storage capacity should be a minimum of 1500 KHU
9.	Generator should provide digital pulse fluoroscopy with pulse rates of at least 12 frames/second
10.	Additional safety size filtration for the safely scattered radiation
11.	Focal spot size should be 0.3mm & 0.6mm dual focal spots
12.	Automatic dose rate control
13.	Integrated laser high localizer, radiation free collimation
14.	Multifunction foot switch to control all operating modes and single image storage but of the sterile field.
15.	Inbuilt heat management capabilities for long interventional procures
16.	Integrated dose monitoring chamber
17.	Metal Artifact reduction/metal correction should be available.
C	Flat Panel Detector System
1.	Flat detector of Cal Cesium iodide) with amorphous Silicon doping
2.	Size of detector: min 26 X 26 cm
3.	The pixel size should be 195 microns or less
4.	Resolution of the detector must 1.5K 15K
5.	Image inversion: right to left top to down
6.	Provide a last image hold capability that the last image is displayed on the active monitor after the termination of an exposure
7.	Cable free rear side and 180-degree rotatable monitors.
8.	Equipped with two high-resolution 19" HD LED/TFT medical grade monitors with image matrix of 2024 x 1024 or more
9.	Vertically and horizontally adjustable monitor for specific needs.
10.	Viewing angle of at least 150 degree with ergonomic mounting of the monitors on the mobile view station
11.	The system should be equipped with touch screen control panel. On patient table site with preview image.
12.	The system shall allow the user to change the image orientation on the display screen during a live exposure or using the last image hold. Those functions include image rotation, left to right and top bottom image reversals
D	Digital System & Image Management
1.	Multipatient data base for handling large quantities of image, including dose management report
2.	Automatically select proper imaging parameters, Vp and mA during an image, but also provide the user to over - ride these setting manually.

3.	Real time and automatic brightness and contrast should be provided to optimize displayed image
4.	Provide a real time post processing edge enhancement capability to get better image quality according to the density of the tissue. An electronic room function, an automatic save function to hard disk, Mosaic Display
5.	System should save more than 1 LAC image to the internal hard disk and retrieve stored images later
6.	It should have facility to record online fluoroscopy
7.	Should have facility for image and Fluoro sequences retrieval on a CD/DVD/Pen drive and print Images on paper/ firm
8.	System should have facility for DICOM connectivity and DICOM ready (HIS compatible, DICOM send/receive DICOM print, DICOM query retrieve). All DICOM functions should be offered and installed when needed at no additional cost
E	Essential Accessories
1.	Suitable UPS online to run the entire system for at least 15 minutes Back up time.
2.	Zero Lead Aprons-10 nos
3.	Thyroid Shield-05nos
4.	Sterile covers for C-Arm, X-Ray tube and flat panel detector (disposable) 100 for each
5.	Lead goggles 10 nos
6.	Lead Apron Stand: 01 nos
H	Terms & Conditions
3.	Unit should be European CE and US FDA approved. The quoted model must be AERB-type approved for all components of fluoroscopy system
4.	Physical demonstration of the equipment, if required.

9. TECHNICAL SPECIFICATION of Surgeon Stool

Should have the following features:

- Adjustable contoured backrest.
- One kick Front-end locking system.
- Multi articulated arm rests.
- Lumbar support adjustable.
- Teardrop seat and Thermoformed plastic hood.
- Foot-controlled hydraulic, three-spindle base.
- Dual-density foam seat cushions.
- Height adjustment arm: 15cm to 30 cm.
- Max User weight Up to 300 lbs (1.36 kg).
- Height Range.
 - High 28.5" (72 Cm)
 - Low 21" (53cm)
- Height Range with Riser Kit.
 - High 30.5" (77 cm)
 - Low 23" (58 cm)
- Diameter seat cushion 35 x 35 cm (+5cm).
- The product should be USFDA approved.
- Company should have service center in North India, principal company should provide such undertaking on original letter head.
- Principal Company should have head office in India.
- Supplier will have to give demonstration.

Others

1. The cost of all spares should be quoted upfront and should be valid for 10 years.
2. Warranty: 02 years onsite comprehensive including spares 08 years CMC.
17. Original Manufacturer or their subsidiary or authorized dealer who is quoting should be present in India having selling experience of more than 5 years with at least 5 installations in government institutes/hospitals.

10. Laser System

S. No.	Specifications of the Laser System
A)	Laser System:
1.	LASER SYSTEM SHOULD BE EXCLUSIVELY CARBON DIOXIDE LASER WITH A WAVELENGTH 10.60 MICRO METERS, INFRARED
2.	THE SYSTEM SHOULD BE STAND ALONE CO2 LASER WITH SIMPLE TOUCH SCREEN TRANSITION BETWEEN FIBER AND FREE BEAM MODALITIES OFFERING BROADEST RANGE OF CLINICAL APPLICATIONS IN OTOLARYNGOLOGY HEAD AND NECK SURGERY OTOLOGY (INCLUDING ONE SHOT STAPEDOTOMY), BOTH WITH FREE BEAM AND CO2 FIBERS
3.	LASER MACHINE SHOULD HAVE POWER OUTPUT 1-40 WATTS
4.	IT SHOULD HAVE SMW RED DIODE AIMING BEAM 615NM ADJUSTABLE INTENSITY
5.	THE BEAM DELIVERY SHOULD BE THROUGH (BOTH 1&2) <ol style="list-style-type: none"> 1) A7-JOINT, FIXED MIRROR, SPRING BALANCED ARM, THE REACH OF THE ARM SHOULD BE AT LEAST CM WITH 360 DEG ROTATION. 1) A LIGHT WEIGHT CARBON DIOXIDE GLASS HOLLOW FIBER CO2 FIBER SHOULD BE 2 METER LONG 1.04MM OUTSIDE DIAMETER, STERILE, SINGLE/MULTIPLE USE, 2.0 METER LONG
6.	IT SHOULD BE EQUIPPED WITH ONE TOUCH TAS/SWITCH TO CHOOSE EITHER WAVE GUIDE OR ARTICULATED ARM MODALITY WITHOUT SWITCHING OFF/STOPPING THE MACHINE AND WITHOUT CHANGING ANY PART
7.	SPOT SIZE 295MM AT FIBER OUTPUT, UP TO 40 WATT
8.	IT SHOULD BE MICROPROCESSOR BASED
9.	IT SHOULD HAVE A SEALED CO2 LASER TUBE
10.	IT SHOULD HAVE CONTINUOUS SINGLE PULSE AND REPEAT PULSE TISSUE EXPOSURE MODES
11.	IT SHOULD HAVE CONTINUOUS POWER (CW) OF 01-40 WATTS
12.	IT SHOULD HAVE A SUPER PULSE POWER OF 0.5-15 WATTS
13.	IT SHOULD HAVE A TIMED EXPOSURE OF FOLLOWING DURATIONS: <ol style="list-style-type: none"> 1) ON TIME (SINGLE PULSE) -0.05-10 SEC. AT 10 TO 45 WATTS -0.01-10 SEC AT 5-40 WATTS 2) ON TIME (REPEAT PULSE) -0.05-1.0 SEC AT 1-45 WATTS -0.01-10 SEC AT 5-40 WATTS
14.	IT SHOULD HAVE A REPEAT DELAY OFF TIME 001 TO 1.0 SEC.
15.	IT SHOULD HAVE AT LEAST 100 USER DEFINED MEMORY SETTINGS
16.	IT SHOULD HAVE A 0.2MM FOCUSED HAND PIECE
17.	IT SHOULD HAVE AT LEAST TWO BACTERIAL FILTERS
18.	IT SHOULD HAVE THREE LASER SAFETY GLASSES
19.	IT SHOULD HAVE A SELF CONTAINED CLOSED LOOP COOLING SYSTEM
20.	IT SHOULD HAVE A MULTI-COLOUR TOUCH SCREEN PANEL
21.	IT SHOULD BE EQUIPPED WITH INTEGRATED ANIMATED ACCESSORIES VIDEOS DEMONSTRATING HOW TO SET UP IT BEFORE STARTING APPLICATION/SURGERY. THESE VIDEOS/GRAPHICS SHOULD BE SPECIALITY AND PROCEDURE SPECIFIC.
22.	IT SHOULD HAVE A USER FRIENDLY GRAPHIC DISPLAY TO PROVIDE STEP BY STEP OPERATING INSTRUCTIONS.
23.	IT SHOULD BE COMPATIBLE WITH 230V, 3A, 50HZ POWER SUPPLY.
B)	MICROMANUPLATOR WITH FOLLOWING REQUIREMENTS FOR MICROLARYNGEAL LASER SURGERY:
1.	IT SHOULD HAVE AN OPTICAL DESIGN TO ASSURE PERFECT CO-INCIDENCE OF THE DIODE AND CO2

	BEAMS EVEN AT HIGHEST MICROSURGICAL MAGNIFICATIONS.
2.	IT SHOULD BE EASILY ADJUSTABLE AND SHOULD HAVE VARIABLE WORKING DISTANCE FROM 200MM TO 400MM AND THE SAME SHOULD BE ADJUSTABLE DEPENDING UPON PROCEDURAL NEEDS.
3.	IT SHOULD HAVE CONTINUOUSLY VARIABLE DEFOCUS WITH A USES ADJUSTABLE DEFOCUS LIMITER
4.	ITS JOYSTICK HANDLE SHOULD BE TENSION ADJUSTABLE AND AUTOCLAVABLE
5.	IT SHOULD BE USER SELECTABLE FOR LEFT OR RIGHT HAND CONTROLS
6.	IT SHOULD BE LIGHTWEIGHT, TO MAINTAIN BALANCE OF THE SURGICAL MICROSCOPE
7.	IT SHOULD HAVE A MINIMUM SPOT SIZE OF 160 MICRONS
8.	IT SHOULD HAVE A FOCUS RANGE OF 0.16 MM-0.27 MM
9.	IT SHOULD HAVE MAXIMUM DEFOCUS RANGE OF 2.8 MM-4.5 MM
10.	IT SHOULD HAVE A POWER TRANSMISSION OF GREATER THAN 70% WITH UNLIMITED POWER INPUT
11.	IT SHOULD HAVE A ROBOTIC LASER MICROSURGERY SYSTEM WITH FOLLOWING REQUIREMENTS: <ul style="list-style-type: none"> IT SHOULD HAVE BEAM SCAN SHAPE UNEAR & CURVED INCISIONS 0.3MM TO 05MM IN LENGTH (USER DEFINED) 0.7MM TO 3MM FOR PAPILLOMATOSIS. IT SHOULD HAVE PENETRATION DEPTH OF 0.2MM TO 2MM (USER DEFINED)
C)	IT SHOULD HAVE DEDICATED ORAL PHARYNGEAL OTOTOLOGY AND NASAL HANDPIECE SET FOR ORAL PHARYNGEAL AND NASAL APPLICATIONS WHICH SHOULD INCLUDE
	<ul style="list-style-type: none"> 230MM HANDPIECE UNIT (CVD OPTICAL UNIT, PORTS HOLDER CONICAL MAIN EXTENDER EXTRA CONICAL MAIN EXTENDER CONTAMINATION COLLECTOR). BACKSTOP EXTENDER-3 NOS. TIP EXTENDER-3 NOS STRAIGHT TIP KAMAMI NASAL TIP-3 NOS KAMAMI TONSIL TIP-3 NOS 90 DEGREE ANGLED MIRROR TIP EXTENDER CLEANING BRUSH TYGON TUBE(8MM ID,1.5M LONG) W/ REDUCER FITTING.
D)	DEDICATED OTOTOLOGY KIT FOR OTOTOLOGY APPLICATIONS & PROCEDURES
	<ul style="list-style-type: none"> IT SHOULD HAVE OTOTOLOGY STAINLESS STEEL HANDPIECES FOR EXTENDING LASER PRECISION TO THE DELIVERY SITE. SHOULD HAVE SMALL SHAFT BOTH ANGLED AND STRAIGHT HANDPIECES (PREFERABLY AUTOCLAVABLE). SHOULD INCLUDE DETACHABLE ULTRA THIN TIPS (DISPOSABLE) FOR HAND PIECES STRAIGHT & CURVED OUTER DIAMETER OF WHICH SHOULD BE BETWEEN 0.67MM TO 0.8MM SHOULD INCLUDE STERILE DRAPES LENGTH 165CM THE KIT SHOULD BE FROM THE SAME PRINCIPLE MANUFACTURER
E)	FIBER & FIBER ACCESSORIES SHOULD INCLUDE SEPERATE CO2 FIBERS FOR LARYNX & OTOTOLOGY
	REUSABLE FLEXIBLE HOLLOW CO2 FIBER- 01 NOS (DEDICATED SPECIALLY FOR STAPEDOTOMY, ONE SHOT STAPEDOTOMY, GLOMUS TUMOR, TYMPANOSTOMY)
	REUSABLE CO2 FIBER- 01 NOS <ul style="list-style-type: none"> CAN BE USED WITH FLEXIBLE ENDOSCOPY FOR USE IN TUMOR SURGERY IN THE LARYNX, PHARYNX, NASAL AND ORAL STRUCTURES SPECIALLY FOR USE IN STENOSIS & JUVENILE PAPILLOMATOSIS COMPATIBLE WITH WIDE VARIETY OF RIGID AND MALLEABLE HAND PIECES
	RIGID HAND PIECE KIT ATLEAST 8 RIGID HAND PIECES <ul style="list-style-type: none"> ✧ 60MM STRAIGHT TIP, ✧ 60MM CURVED TIP ✧ 140MM STRAIGHT, ✧ 140MM CURVED TIP ✧ 180MM STRAIGHT, ✧ 180MM CURVED TIP, ✧ 240MM STRAIGHT TIP, ✧ 240MM, BENT, STRAIGHT TIP.

	ENDOSCOPE PROTECTION SHEATH – 2 NOS LENGTH: 640 MM, OD: 1.7 MM
	HAND PIECE BENDING TOOL
	SHOULD INCLUDE COMPANY MANUFACTURED,FLEXIBLE INSERT TO BE USED ALONG WITH FIBERS THROUGH 5MM TROCAR SLEEVE CHANNEL TO COLLABORATE THE ADVANTAGES OF LASER TO ROBOTIC SURGERY FOR :- QUICK ACCESS OF TARGETED ANATOMY AND TISSUES. CONTROL ENERGY DELIVERY TO ACHIEVE DESIRED CLINICAL OUTCOME. THE FIBER SHOULD BE ABLE TO WITHSTAND THE MULTIPLE ANGLES OF ARTICULATION IMPOSED BY THE ROBOT.
	HAND PIECE CLEANING KIT: INCLUDES 3 CLEANING BRUSHES AND 20 EXTRA SILICONE TUBE FOR HANDPIECES
	BENDING AND CUTTING TOOLS TO REUSE FIBER
	STERILIZATION TRAY FOR FIBERS.
F)	<p>PRINCIPAL COMPANY MANUFACTURED NASAL PROBE KIT</p> <ul style="list-style-type: none"> • IT SHOULD HAVE DEDICATED NASAL PROBE KIT TO TREAT VARIOUS NASAL RELATED PROBLEMS. • IT SHOULD HAVE DEDICATED NASAL ACCESSORY NASAL PROBE COUPLER WHICH SHOULD EASILY CONNECT WITH EITHER CO2 LASER ARTICULATED ARM, THE FIBER INSERT AND THE AIR PURGE HOSE. THE DESIRED PROBE SHOULD INSTALL OVER THE FIBER INSERT AND ALSO SHOULD CONNECT TO THE SAME NASAL PROBE COUPLER. <p>NASAL PROBE KIT SHOULD HAVE FOLLOWING ITEMS:</p> <ul style="list-style-type: none"> • NASAL PROBE COUPLER FOR FIBER INSERT -1 • FIBER INSERTS FOR NASAL PROBES -1 • NASAL PROBE WITH STRAIGHT TIP- 2 • NASAL PROBE WITH STRAIGHT TIP AND 90 DEGREE RIGHT MIRROR-1 • NASAL PROBE WITH STRAIGHT TIP AND 90 DEGREE LEFT MIRROR -1 • NASAL PROBE WITH STRAIGHT TIP AND SMOKE EVACUATION CHANNEL - 2 • NASAL PROBE WITH STRAIGHT TIP, 90 DEGREE RIGHT MIRROR AND SMOKE EVACUATION CHANNEL- 1 • NASAL PROBE WITH STRAIGHT TIP, 90 DEGREE LEFT MIRROR AND SMOKE EVACUATION CHANNEL - 1 • NASAL PROBE WITH BENT TIP -1 • NASAL PROBE WITH BENT TIP AND SMOKE EVACUATION CHANNEL -1 • CLEANING KIT FOR NASAL PROBES: CONTAINS: LENS CLEANING TISSUES, A PIPE CLEANER, A SOFT BRISTLE BRUSH, A FOLDING MAGNIFYING GLASS AND PLASTIC PICKS.
G)	<p>SMOKE EVACUATOR</p> <ul style="list-style-type: none"> ● COMPATIBLE WITH THE LASER MACHINE, ● IMPORTED QUALITY-INCLUDE SMOKE EVACUATION UNIT WITH PNEUMATIC FOOTSWITCH, ● VI 6 FILTER-6 HOUR DOUBLE PORT 7/8" AND 1-1/4", 7/8" TUBING WITH WAND AND TIP-2 NOS, ● 5ML OF 50-LASER MASK 0.1MM FILTRATION MEDIA(FLAT MASK) ● LASER MASK 0.1MM FILTRATION MEDIA(FLAT MASK)
H)	UPS: MINIMUM OF 3KVA OR MORE FOR THE WHOLE SYSTEM
I)	POWER SUPPLY: 220V,50HZ
J)	TERMS & CONDITIONS
1	INTERNATIONAL STANDARDS: THE UNIT SHOULD COMPLY WITH INTERNATIONAL STANDARDS AND SHOULD HAVE US FDA CERTIFICATIONS.
2	COMPANY SHOULD HAVE DIRECT SERVICE CENTRE IN INDIA (NO THIRD PARTY/DEALER ARRANGEMENT)
3	DURING NON-FUNCTIONAL/REPAIR OF THE EQUIPMENT,THE FIRM SHALL PROVIDE STANDBY EQUIPMENT WITH 99% UPTIME GAURANTEE FAILING WHICH A PENALTY OF RS.10,000/- PER WEEK WILL BE IMPOSED. OEM TO PROVIDE UNDERTAKING ON COMPANY LETTERHEAD TO THIS EFFECT.
4	THE COMPANY SHOULD HAVE SUPPLIED SIMILAR EQUIPMENT/SYSTEM TO AT LEAST 5 REPUTED GOVERNMENT INSTITUTES IN INDIA IN LAST 2 YEARS WITH SATISFACTORY AND FAULTLESS

	FUNCTIONING.
5	LIST OF ALL OPTIONAL ACCESSORIES & CONSUMABLES REQUIRED FOR ONCO SURGERIES NEED TO BE PROVIDED AND QUOTE RATE FOR THE SAME.
6	BACK TO BACK ASSURANCE TO BE TAKEN BY THE SUPPLIER FROM THE OEM TO SUPPLY SPARES FOR MINIMUM 10 YEARS & TO BE SUBMITTED.
7	COMPREHENSIVE WARRANTY SHOULD BE 5 YEARS FROM THE DATE OF INSTALLATION
8	CAMC SHOULD BE 5 YEARS AFTER THE EXPIRY OF WARRANTY.
9	DEMO OF THE QUOTED MODEL WILL BE MANDATORY AT THE COST OF BIDDER IF SO DESIRED BY THE USER, AFTER THE OPENING OF THE TECHNICAL BID AND PRIOR TO OPENING OF FINANCIAL BID. THIS IS FOR TECHNICAL EVALUATION.
10	SHOULD PERFORM CALIBRATION YEARLY & PREVENTIVE MAINTENANCE HALF YEARLY DURING WARRANTY & CMC (IF CMC IS ENTERED INTO) WHICH WILL INCLUDE SPARES REPLACEMENT, PREVENTIVE MAINTENANCE & BREAKDOWN CALLS.

11. Specifications For Radiofrequency advanced electrosurgical system with bipolar resection and vessel sealing.

- ✓ It should be an integrated system with 300W output generator and a single touch screen for Monopolar, Bi-Polar, Vessel Fusion and Under-water Bipolar Resection in Saline integrated in one generator.
- ✓ The system must be micro-processor controlled which should identify the tissue type with a real time feedback system, and adjust the power to get the desired surgical effect on the tissue.
- ✓ The Power Efficiency Rating of the generator should be more than 99.
- ✓ System should have 2 monopolar output, 1 Bipolar output and 1 Vessel Sealing output.
- ✓ The system having 2 monopolar outputs, both working simultaneously, at one time 2 cautery pencils can be attached and they should work together.
- ✓ The Monopolar output must have Cut, Blend, "Hemostasis with division(HWD)", Soft Coag, Fulgurate and Spray mode.
- ✓ The system should have 6 Bipolar modes with Auto Bi-Polar control with ammeter to check the readings.
- ✓ Increment of Bipolar precise mode by 0.5 watts.
- ✓ System should have separate monopolar, bipolar, bipolar resection & Vessel Sealing foot pedal.
- ✓ The system should have one different Vessel Fusion output which should be able to seal artery, veins along with tissue bundle up to and including 7mm in diameter, and fused vessels should be able to withstand more than 3 times of normal systolic blood pressure.
- ✓ The Vessel seal system should be of minimum of 300W at a rated load of 20 ohms.
- ✓ The vessel sealing system should have simple audio visual feedback display from the generator. This should include :
 - System should have System Error Indicator
 - System should have System status indicators such as Self test, ready for use, ready for sealing/seal cycle complete, sealing in process
 - Seal cycle incomplete alert,
 - System should have usage limit indicator
 - System should have instruments status indicator.
- ✓ The vessel sealing system should support both open and laparoscopic hand instruments

- ✓ The vessel sealing hand instruments should have cutting independent of sealing.
- ✓ There should be an option of enabling or disabling the footswitches.
- ✓ The system should have demo mode facility and recall facility to recall the last setting used by user.
- ✓ System should have bipolar resection with saline facility in-built in the integrated in main unit software without any interfacing cable.
- ✓ Selectable range of bipolar cut initiation, Should have six combination of cutting and coagulation settings
- ✓ Should be compatible with Storz and Wolf Resectoscope.
- ✓ System should be compatible of polyhesive contact quality monitoring system.
- ✓ System should have audio-visual alarm facility, to indicate any breakage of direct contact between the patient and patient plate.
- ✓ All open surgery including head and neck and thyroid can be precisely controlled with very less thermal spread by using sealing technique.
- ✓ Integrated seal with choice of cut of 10 mm and 5 mm should be there.
- ✓ Both Footswitch and hand control mode should be available for vessel sealing.
- ✓ System should be able to indicate in case of false vessel sealing.
- ✓ The system should be able to save user-configurable favorite preferences.
- ✓ System should be Compatible with Argon Coagulator and smoke evacuator
- ✓ The system should be upgradable and should have RS232, USB, Ethernet port for on field software downloads, upgrades and serviceability.
- ✓ The system should be able to connect and function with a cardioblate device for ablation procedures.
- ✓ Mounting Cart manufacturer by the original principal manufacturer, to be provided with the equipment.

Accessories :

The System must be accompanied with the following set of accessories :

- Monopolar Footswitch - 1
- Bipolar Footswitch - 1
- Vessel Sealing Footswitch - 1
- Bipolar Resection Footswitch - 1
- Bipolar Resection Cord, Reusable - 1
- Monopolar Reusable Cord - 1
- Universal Monopolar adaptor - 1
- Bipolar straight Forcep with curved tip - 1
- Bipolar Cord Reusable - 1
- Disposable Cautery Patient Plates with Patient Electrode Monitoring - 100
- Disposable 3-Button cautery pencil with power control - 100
- 5mm Laparoscopic instrument for vessel sealing and cutting with blunt jaw - 6
- 5mm Curved jaw Laparoscopic instrument 37cm for vessel sealing and cutting - 6
- 5mm curved jaw open Vessel Sealing instrument with cutting and sealing mode - 6
- 5mm vessel sealing instrument with a curved jaw with cutting mechanism and having a Laparoscopic hook inbuilt - 6
- Open Vessel sealing and cutting instrument with curved jaw (23cm) - 6
- Trolley should From the original manufacturer - 1
- Disposable Laparoscopic Smoke Evacuator - 10
- Clean Coat Cautery L-Hook Electrode Laparoscopic - 10

➤ Clean Coat Cautery Spatula electrode Laparoscopic - 10

Term & Conditions

- ✓ System should be USFDA and European CE approved.
- ✓ The Vessel sealing instruments should also be USFDA and European CE Approved
- ✓ The Manufacturer/Agent should quote the latest model available in the market. (Undertaking to be given by the Manufacturer).
- ✓ Warranty - 02 years.
- ✓ AMC/CMC - 08 Years starting after the completion of the warranty period.
- ✓ The quoted generator should have minimum 50 installations in Govt. Institutions in the country.
- ✓ All accessories should be from OEM and same make

12. Head Light

Head light LED
Headlight with Ultra Bright Coaxial Illumination with illumination of 95,000 lux mounted on headband with soft padding for comfort.
Should have a variable illumination spot size which can be adjusted from 30mm to 80 mm at 420mm working distance.
Light intensity that can be varied steplessly.
Should have the colour temperature of 5500K.
Should have the colour rendering index value of more than 90 and special index for red colours R9>75 to ensure true colour tissues.
Should have a typical LED Operating time of 50,000 hours.
Should be mounted on comfortable headband with portable battery with medical grade plug in transformer.
Should have Li-Ion rechargeable battery once fully charged should last for more than 8 hours with continuous on time at full power.
Should have a 5 step battery level display should be present at the battery which is useful to indicate the charge level.
Should be IEC-60601, European C/ USFDA certified.
Should have a warranty of 3 years

13. Surgical Loop

High Resolution 2.5x Binocular Loupes:
<u>Specification for Binocular Loupe:</u>
Should have the achromatic optics to give bright, colour corrected crisp image with super wide at least 130mm view and super deep view at least 180mm.
Should be water resistant.
Working distance should be of 420mm.
Individual Inter Pupillary adjustment should be there for both right & left optics.
Should be with i-view loupe mount provides any angle of view and flip up options.
Optics should be super light with weight not more than 55 grams.
Should be mounted on light weight S-Frame.
Optional clip-in correction frame for prescription lenses.
Should be supplied with Protective lenses, cleaning fluid, cleaning cloth & carrying case from the same manufacturer.
Should have 5 years warranty.
Product should be European CE Certified.

High Resolution 3.5x Binocular Loupes:

<u>Specification for Binocular Loupe:</u>
Should have the achromatic optics to give bright, colour corrected crisp image with super wide at least 65mm view and super deep view at least 60mm.
Should be water resistant.
Working distance should be of 420mm.
Individual Inter Pupillary adjustment should be there for both right & left optics.
Should be with i-view loupe mount provides any angle of view and flip up options.
Optics should be super light with weight not more than 85 grams.
Should be mounted on light weight S-Frame.
Optional clip-in correction frame for prescription lenses.
Should be supplied with Protective lenses, cleaning fluid, cleaning cloth & carrying case from the same manufacturer.
Should have 5 years warranty.
Product should be European CE Certified.

14. Technical Specification for Laryngo-Broncho Videoscope System

- 1) Video Image Processor including LED light Source.
- 2) HD Monitor Medical Grade
- 3) Video Bronchoscope chip-on-tip
- 4) Video Laryngoscope
- 5) Trolley
- 6) Report Generation Software

Technical Specifications:

1) Video Image processor with inbuilt light source

1. Video processor & light source should be a common unit.
2. Should have automatic white balance
3. Electronic Zoom up to 1.5x
4. Video processor should be CE/FDA approved
5. Should be compact processor, inbuilt LED long life light source
6. Should have pre-freeze function
7. Should be equipped with special detection technology for detailed observation by enhancing visibility of blood capillaries and mucosa like Narrow Band Imaging NBIBLI/Optical Enhancement
8. Should contain USB slot for still image recording
9. Should select the clearest image automatically
10. Voltage 100-240v AC(= -10%)
11. Frequency 50-60Hz(+ -1%)

2) 26" or more Full HD Medical Grade Monitor

- 26 inch full HD LCD with LED backlit monitor with high resolution 1920x1080
- Aspect ratio 16:9
- Should have multi-modality display compatibility, including Picture-in-Picture for various image size combinations
- Should have eco-friendly consumption by low power consumption, various powers saving mode, lightweight and thin body
- Should have advance Image Multiplier Enhancer to enhance image quality
- System should offer 2x DVI-D output, 2 x 3G/HD SDI output
- Should have 2 x DVI-D input and 2 x 3G/HD SDI input, Y/C input

3) Chip-on-the-Tip Video-Laryngo-Broncho-scope

It Should have following specifications:

- Lighter and possess high resolution image quality.
- Fully immersible in disinfectant solution
- Three or more no of remote control switches on control body.
- Compatible with leakage testing device with its air flow and pressure regulation through light source's air pump
- Should have capability of Band Imaging (NBI/BLI/OE)

Field of view : 120 degree or more
 Direction of view : 0 degree, forward viewing
 Depth of field : 3 to 100 mm or better
 Distal end outer diameter : 4.8mm
 Insertion tube outer diameter : 4.9mm
 Tip Bending range : Up 180 deg. Down 130
 Working length : 600 mm or more
 Channel inner diameter : 2 mm
 Minimum Visible distance of instrument used thru channel : 3 mm from distal end.

4) Rhino-Laryngo videoscope (Pediatric) :

- A 2-4 way angulations of scope
- Four or more no of remote control switches on control body
- Distal end & Insertion tube outer diameter should be 3.9 mm or less
- Field of view should be 90 degree or more
- Depth of field should be 3.5 mm-50mm
- Angulation range should be approx Up 130 deg & Dn 130 deg
- Working length should be around 300-350 mm
- Should be supplied with compatible Leakage Tester

5) Surgical Trolley

- Should have proper space to accommodate the full System.
- Should have hanger for the scope.
- Should be from the same Manufacturer.
- Should be provided with the Isolation Transformer.

6) Software

Should provide a Software for report generation and also provide a canon ink jet printer

Note-The equipments should be European CE & USFDA approved.

15. Stem Sterilizer

Specification of Stem Sterilizer

Horizontal Sterilizer Chamber volume – 200-300 litres double door (2 STU and More)	Qty – 1	Imported
<ul style="list-style-type: none"> • Microprocessor/PLC controlled steam under pressure, free standing sterilizer autoclave having double jacketed rectangular 3161 grade St. Steel chamber or better • Size: 200-300 Litres capacity per cycle should be at least 2 STU in One cycle • The Sterilizer should have adjustable cycle time which should be less than 45 minutes • Should have pneumatically / electrically operated vertical sliding Atinged Door Double Door (constructed of 316L or better) 		

- Should be having durable non-lubricated steam activated door seal (gasket) on both the doors
- Sterilizer should be able to perform Bowie & Dick test and vacuum leak test
- Sterilizer should have fully automatic operation with multiple cycle selection as well as & drying phase. The audio as well as visual indication should be provided after the completion of each cycle.
- Sterilizer should be equipped with Pre-programmed cycle.
 - I 134 degree C pre-vacuum wrapped instruments/Porous Load, Rigid
 - II 121deg Crubber, Plastic, heat sensitive material, rigid container, porous load,
 - III 121 deg liquid cycle
 - IV Bowie & Dick
 - V Leak test
- All these cycles should be pre feed into the control system and should be validated as per USFDA AAMI ST8
- Sterilizer should have electronic water saving control function included - which should have condenser, condensing the exhaust chamber steam to acceptable temp, as per environmental favourable good practices as well as excellent drain system preventing pollutants to enter water supply
- Sterilizer should have touch sensitive 4-5" colour display screen with LEDALCD controls with battery back-up and digital thermal printer as standard for records keeping
- Sterilizer should have inbuilt vacuum pure water ejector system for creating pre vacuum before sterilization phase as we post seccation drying phase. It should have the bacteria retentive filter Or HepaFilter
- Sterilizer should be supplied along with Steam Generator with 30 or more capacity for faster cycle. Steam generator should be inbuilt or stand-alone unit. The sterilizer should have any inbuilt/ Standalone steam generator of adequate capacity it should be mounted under the chamber/stand alone separate generator should be made of 35 116 t/carbon steel the same generator should have insulation of minimum 30-50 mm thick chloride free mineral wool with rigid aluminium-steel housing
- Sterilizer should have safety features such as pressure relief safety valve, chamber float switch in case of excess condensate accumulation in the chamber, door safety in case of door obstruction etc
- Quality steam to condensate free, 97 to 100% saturated vapour complete with piping valves and pressure relief etc. delivery at 50 to 80 psig pressure. Importantly to ensure only clean steam enters in the chamber, both jacket & chamber should have independent steam supply lines.
- The panel should include various pressure & temperature display for depiction of actual pressure/temperature in chamber, jacket.
- Water consumption should be low & features like electronic water saving controls should be provided
- Piping should be made of stainless steel/Copper or Better material quality, all the process wall should be stainless steel or copper or better should be pneumatically/electrical operated piston valves for longer trouble free operation
- Electrical Service-380 to 440 V, 50 Hz. 3phase
- The supplier should do the complete onsite stainless-steel to all the sterilizers on the side.
- Sterilizer units should be supplied with the following consumables (consumable approved by EN 285 or USFDA)
- The manufacturing firm should have spares availability in India and must have direct operations in India with own trained service engineers to ensure service backup.
- Imported Accessories to include 55. Loading Carriage (qty 1) & transfer Carriages (Qty:2)
- STANDARDS
 - Standard: Conforming to ANSI AAMIST8 American national standard/EN285
 - USFDA approved/European CE approved
 - ASME Pressure Vessel and others eg UL-61010/CE/CSA etc.
 - ANSI/UL 61010-1 standard for electric equipment: general requirement
 - TUV/PED Pressure equipment Directive 2014
 - Quality Management ISO 13485 2016.

16. Ultrasound cleaner

Tender Specification Ultrasonic Cleaner (20 Litres.)

- Ultrasonic Cleaner is designed to provide external cleaning (remove tissue, blood, and other contaminants) of a variety of reusable surgical instruments
- Then unit should be Manual loading of instruments, setting of wash temperature and time, and adding of water and detergent gives user complete control over the cleaning process
- Ultrasonic cleaner unit should be microprocessor controlled and allows user-set parameters for degassing of water, wash temperature and wash cycle time.
- The units should be a compact free-standing bench model, with a built-in tank manufactured from high-quality stainless steel and a solid-state generator that sends ultrasonic impulses through wash water containing detergent and electrical heating
- The electrical energy should be transformed into sound waves by transducers, fixed to the bottom of the tank
- Ultrasonic Cleaning Power should ensure by four transducers typically operating at 38 kHz providing efficient energy transmission for instrument cleaning and Type of the transducer to be specified by company.
- Ultrasonic cleaner should have Plastic Lid improves safety by containing aerosols and increases efficiency by aiding the thermostat to maintain the solution temperature.
- Ultrasonic cleaner should have included sensors to prevent use with lid open. Tank is also equipped with sensors for water level and temperature monitoring.
- Ultrasonic cleaner should have Touch Screen Display, of size 4.3.
- An internal memory records wash performance data for instrument traceability which can be downloaded to external USB flash drive
- The ultrasonic cleaner should have a display and control which could be easily seen and placed above any liquid for safety and reliability.
- It should have digital read out timer and temperature setting (up to +69° C (temperature adjustable from 20 to 69 °C) monitoring. Illuminated Digital Main Controls should include power ON/OFF, adjustable wash cycle timer, heat control and degas cycle. Digital controller enables precise control of cycle time (0-99 minutes), heat levels (ambient to 80°C [176°F]), power and degas cycle.
- The tank is made of solid stainless steel & also resists chemical damage and prevents cracking from dropped instruments.
- Tank of stainless steel with internal dimensions to be mentioned
 - Voltage range 210-240V
 - Capacity: 18 to 20 Litre
 - Ultrasonic cleaner should have following directives
 - European CE or USFDA Certified. Certificates need to attach.
- Ultrasonic cleaner should supply with wire mesh basket 1 unit of appropriate size to fit into the chamber.

17. Mandibulectomy Set (Each)

S.No	Specifications for General Surgical Instruments for Cancer Institute	Qty
Mandibulectomy Set		
1	Right angled big	Each
2	Mouth gags big	Each
3	Mouth gag small	Each
4	Bone cutter big	Each
5	Bone cutter small	Each
6	Bone nibbler	Each

7	Gernis retractor	Each
8	Bone holder	Each
9	Hammer	Each
10	Osteotome big	Each
11	Osteotome Small	Each
12	Osteotome Medium	Each
13	Bone file big	Each
14	Bone file small	Each
15	Small scale	Each
16	Bone scoop	Each
17	Bone periosteum small	Each
18	Bone periosteum big	Each
19	Gigli saw handle	Each
20	Tongue depressor	Each
21	Fine elevator	Each
22	Cheek retractor	Each
23	Bone hook	Each
24	Lucs forceps	Each
25	Punch biopsy small forceps	Each
26	Vein loop	Each

18. Biopsy Set

S.No	Specifications for General Surgical Instruments for Cancer Institute	Qty
Biopsy Set		
1	Sponge holding forceps	Each
2	Peanut holding forceps	Each
3	Artery forceps curved	Each
4	Artery forceps straight	Each
5	Mosquito artery curved	Each
6	Allis forceps 6"	Each

7	Babcock	Each
8	Towel clip –big	Each
9	Towel clip –small	Each
10	Dissecting scissors 6”	Each
11	Mayo’s scissors straight	Each
12	Dissecting forceps tooth (thick) 6”	Each
13	Dissecting forceps non-tooth (thick) 6”	Each
14	Dissecting forceps tooth (fine) 6”	Each
15	Dissecting forceps non-tooth (fine) 6”	Each
16	Adson’s forceps tooth	Each
17	Adson’s forceps non-tooth	Each
18	B.P handle no. 4	Each
19	B.P handle no. 3	Each
20	Langenbeck retractor	Each
21	Right angled retractor – small	Each
22	Needle holder – 6” thick jaws	Each
23	Needle holder – 6” thin jaws	Each
24	Skin hook	Each
25	Scoop Big	Each
26	Scoop Small	Each
27	Suction cannula – small	Each
28	Suction cannula – big	Each
29	Suturing needles	Each
30	“L’ Shape Retractor Set	Each
31	Straight Scissors 6”	Each
32	Cat's paw retractor	Each

19. ORAL & DENTAL EXTRACTION SET

S.No	Specifications for General Surgical Instruments for Cancer Institute	Qty
ORAL & DENTAL EXTRACTION SET		

1	Right Angled Big	Each
2	Mouth Gags Big	Each
3	Bone Holder	Each
4	Bone Cutter Small	Each
5	Bone Nibbler	Each
6	Hammer	Each
7	Bone File Big	Each
8	Bone File Small	Each
9	Small Scale	Each
10	Bone Scoop	Each
11	Bone Periostoum Big	Each
12	Bone Periostoum Small	Each
13	Gigli Saw Handle	Each
14	Tounge Dipressor	Each
15	Straight Incissor	Each
16	Straight Molar	Each
17	Curved Incissor	Each
18	Curved Molar	Each
19	Curved Root Elevator(Left)	Each
20	Right Flag	Each
21	Left Flag	Each
22	Root Elevator Straight	Each
23	Root Elevator Curved (very fine)	Each
24	Fine Elevator Straight (very fine)	Each
25	Cheek Retractor	Each
26	Biopsy Forcep	Each
27	Suction Cannula No 5	Each
28	Artery Forceps	Each
29	Mosquito Forceps	Each
30	Forceps 6'' Thick Thooted	Each

31	Forceps 6'' thick non thoothered	Each
32	Needle Holder (Double Action)	Each
33	B.P Handle No 7	Each
34	Gigli Saw	Each

20. Washer Dis-infectant

Washer Disinfector (Double Door) Capacity 264 Ltr.	Exterior Dimension 724 x 1981 x 724 mm	Imported – Qty 01
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- Washer Disinfector with touch screen control is intended for use in the cleaning and intermediate-level disinfection of soiled reusable utensils, trays, glassware, rubber and plastic goods, simple hard-surfaced rigid surgical instruments (such as forceps and clamps) Imported and other similar items.
- The washer disinfector shall be suitable for cleaning and disinfection of surgical Instruments/goods. The process shall include prewash, detergent wash and hot water disinfection, rinse, and drying cycles.
- It should be microprocessor Control system to ensure correct program sequence and display irregularities or deviations immediately.
- Washer Disinfector should have four factory pre-programmed and validated cycles (Instruments. Utensils Auto Sink Instruments and Auto Sink Utensils), Nine additional washing cycles may be programmed to meet extra Customer requirements.
- The microprocessor control system features
 - Equipped with audible warning system.
 - Locking program cycle parameters with access code. Security lock-out feature that enables programs and temperatures to be locked and unchangeable without the proper access code
 - Cycle data is stored as a protection against power disruption.
- Washer disinfector is equipped with a touch screen Customer interface. This 5.7" (115 mm) color touch screen is mounted at eye level
- Washer disinfector should have Icon based touch screen control
- The unit should also have an interface standard for a batch printer. The unit should have also had USB port for cycle data.
- Chamber Capacity Chamber Volume should be approx. at least 250 Lts to hold at least 8 Nos of standard DIN trays.
- Washer Disinfector should be clean 8 Din Tray in 30 minute and 16 Din tray 60 Min. It should also have fastest cleaning cycle of 15 Min without Disinfection
- Rack is equipped with rotary spray arms positioned to reach all load surfaces. Removable end-tips ensure easy spray arm cleaning and maintenance, and also have lumen flushing port facility to clean 6 lumen per cycle.
- The chamber should be constructed of argon-welded 20-gauge, #304 L. stainless steel (No. 4 finish) Chamber inhibits corrosive action of detergent. The chamber edges should not have pockets & folds, to avoid bacterial growth. The wash chamber should also be fitted with bright light for clear visibility of the washing process Chamber dimension should suit the capacity
- Washer Disinfector door should be Manual drop-down doors are constructed of double pane tempered glass to allow operator to view chamber interior with doors closed Doors remain cool to touch while cycle is in progress. Each door is mounted on a compressed seal that reduces heat loss and increases heating capability
- Washer Disinfector Pump should be Stainless-steel pump provides circulation using a 3 HP (2.2 kW) motor with up to 22 psig (151 kPa) at pump outlet.
- Washer Disinfector Pump, spray system and all recirculating hard piping are of stainless-steel construction
- Washer Disinfector should have three Chemical injection Peristaltic pumps

- Removable front service panels provide easy access to all piping, valves, electrical components, wiring
Servicing from sides of unit is not required
- Washer Disinfector is equipped with safety lockout feature so program cannot start unless door is fully closed. Door is mechanically interlocked during cycle and cannot be opened until cycle completion
- The design should focus on saving the environment through reduced consumption of all utilities. The water consumption should not be more than 21 Gallon
- **Standards & Norms:**
- Should be US-FDA/European CE certified.
- Manufacturer should EN ISO15883 Compliant
- Medical Devices Directive 93/42/EEC as amended by 2007/47/EC

21. Microdrill with oscillating set

TECHNICAL SPECIFICATION FOR MICRO-DRILL & MICRO SAW SYSTEM FOR ONCOLOGY PROCEDURES	
S/N	DESCRIPTION
A	CONSOLE
1	It should be a multispecialty console with provision to attach multiple handpieces such as Small bone saws & Heavy Duty orthopedic power tools, Bone mill etc
2	It should have touch screen capability
3	should have the provision to attach 3 hand pieces simultaneously and should be able to select any one handpiece by a click of the footswitch
4	The console should have the provision to use 2 handpieces simultaneously with 2 foot switches.
5	Power Supply should be 220- 240V only 50-60Hz.
6	It should identify different hand pieces with display on console
7	It should be programmable as per surgeon preference.
8	It should have function of controlling brightness, contrast and alarms on the console
9	It should have the option of controlling the speeds and features of the different types of hand pieces from the same unit.
10	Console should offer change from variable/fixed mode, forward/reverse/oscillation mode.
11	Integrated irrigation pump should be available Shaver, Drill & Saw system.
12	Should have option to save surgeon preferred setting inside the console with name
13	Should have option to save rep name with contact details inside console
14	Should have torque adjustment software to deliver desired torque as per surgeon preference
B	FOOTSWITCH
1	Should be bi-directional footswitch with two pads
2	Should have fully programmable footswitch as user needs
3	User should be able to control following functions via footswitch: Forward/Reverse/Oscillation, Increase/Decrease the speed, Enable/Disable the handpiece
4	Should have identification marks for ease of use
C	MICRO DRILL HANDPIECE
1	Should run at RPM upto 50000
2	Sterilizable through steam/ ETO/flash autoclavable.
3	Should have torque in range of 4.5-4.8 in oz
4	Weight of the handpiece should not be more than 0.32 lbs
5	Should have output/peak power of 130 watt or more
6	Should be made of durable material
7	Should have special coating to be able to multiple SPD processing cycles
8	Should have straight attachment with micro drill of length between 8 to 11 cm
9	Should have angled attachment with micro drill of length between 13-16 cm
D	MICRO SAW HANDPIECES
1	Maintenance free motor to be provided with each type of saw

2	Sterilizable through steam/ ETO/flash autoclavable
3	Should have output/peak power of 130 watt or more
4	Should have special coating to be able to multiple SPD processing cycles
5	Should have compatibility with torque adjustment software in console to deliver torque as per the need of surgeon
a	SAGITTAL SAW HAND PIECE
1	Should run at CPM of 25000 cpm or more
2	Weight of the handpiece should not be more than 0.37 lbs (0.16 kg)
b	OSCILLATING SAW HAND PIECE
1	Should run at CPM of 20000 cpm
2	Weight of the handpiece should not be more than 0.49 lbs (0.22 kg)
c	RECIPROCATING SAW HAND PIECE
1	Should run at CPM of 14000 cpm
2	Weight of the handpiece should not be more than 0.52 lbs (0.23 kg)
E	UNIVERSAL DRIVER
1	Should run at RPM of 1500 cpm
2	Weight of the handpiece should not be more than 1.20 lbs (0.55 kg)
3	Should have Torque up to 14in/lbs
4	Should be supplied with universal collet which takes both wires and pins between 0.7 to 3.2 mm range
F	CONNECTING CORD
1	Should be supplied with cord used to connect micro drill, sagittal saw, oscillating saw and reciprocating saw to console
2	Length of cord should be up to 12 ft
G	BURS/BLADES
1	Should be supplied with cutting burs for micro drill from size in between 2 mm to 7 mm
2	Should be supplied with diamond burs for micro drill from size in between 2 mm to 7 mm
3	Should be supplied with assorted saw blades of different sizes
4	Should be supplied with routers in sizes range of 8mm/12 mm/20 mm/ 30 mm for MIS surgery compatible with micro drill
H	OTHER
1	International standards : The unit should comply with international standards and should have EU CE from a notified body and US FDA marking.
2	Demo of the quoted model will be mandatory at the cost of bidder if so desired by the user, after the opening of the technical bid and prior to opening of financial bid. This is for technical evaluation.

22. TENDER SPECIFICATION FOR 3D FICAMERA CONTROL UNIT (CCU)

- 3D camera platform that works with 3D or 2D camera heads
- Camera heads are hot pluggable (change of camera head during surgery)
- Display of color bars on monitor if no camera head connected to CCU
- CCU detects the connected camera head and automatically provides the respective camera settings
- 4 preinstalled standard profiles (LAP General Surgery, LAP Uro, LAP Gyn, Cardio/Thoracic)
- Within each profile the following settings can be modified
 - Brightness (-5 to +5 / increments of: 1)
 - Digital zoom (zoom factors 1.0, 1.2, 1.4, 1.6 and 1.8)
 - Contrast (-5 to +5 / increments of: 1)
 - Edge enhancement (-5 to +5 / increments of: 1)
 - Image rotation 180° (on/off) — only for 30° camera head
 - Toggle 2D/3D (on/off)
 - Toggle Visual white light /fluorescence imaging light

- 4 effects and 3 fluorescent imaging modes can be added to the set profile (Red Enhancement, Smoke Reduction, PoP, status indicators on screen)
 - Optional enhanced viewing mode with red enhancement algorithm (intensifies red colors for better visual distinction of different structures)
 - Optional enhanced viewing mode with smoke reduction algorithm (clearer picture in smoky environment)
 - Picture out of Picture (PoP) for split screen function shows original image and image with effect next to each other
 - Status indicators on screen: currently activated image settings are displayed on the screen in the status area (top right)
- Combination mode of red enhancement and smoke reduction
- Favorites: for each profile the CCU offers a pre-defined selection of 10 functions as favorites for quick access
- 3 freely programmable user profiles can be created in addition to the four preinstalled standard profiles
- Current image settings and status indicators are shown on the screen in the form of symbols and messages
- Preset functions of 4 remote control buttons on the camera head or CCU front in the live mode: menu, white balance, image rotation, digital zoom, light source on/off, record still image/start or stop video)
- Remote control buttons on camera head or CCU front can be assigned with a maximum of 8 functions as per customer needs (only in user profiles)
- If 3D display fails, the operation can be continued in 2D
- White balance function button on CCU front and camera head
- Automatic light intensity control in combination with LED light source (MIS-BUS)
- Gain function: always on
- Unit is stackable
- Multilingual user menu: 21 languages selectable
- Connectors on backside
 - 2 x 3D via 3G HD-SDI (1080p)
 - 2 x 3D via DVI-D (1080p)
 - 2 x 2D via DVI-D (1080p)
 - 1 x 2D via HD-SDI (1080i)
 - Connector for equipotential cable
 - Mains power switch
 - MIS-BUS
 - 2 x 3.5mm jack (remote out)
 - 1x LAN Ethernet, galvanically isolated (service)
 - 1 USB (service dongle)
- Wipe disinfection proof
- Maximum power consumption: 120 VA
- Mains supply: 100 - 240 VAC, 50/60 Hz
- Dimensions (w x h x d): 330 x 146 x 353 mm
- Weight: 10.2 kg
- Operating volume: 41 dB(A)
- Protection class: I
- Application part Type CF defibrillation safe
- IEC/DIN EN 60601-1-2 Class A
- Standard conformity IEC/DIN EN 60601-1
- Classification acc. to 93/42/EEC: I

TENDER SPECIFICATION FOR 3D FI CAMERA HEAD WITH ENDOSCOPE AND LIGHT CABLE

- Sensor resolution: native Full HD (1920 x 1080 pixel)
- Image sensors: 2 x 1/3" CMOS
- Scan mode: Progressive Scan (1080 p 50/60 signal)
- Minimum light sensitivity: 0,6 Lux @ f = 1.4
- Minimum shutter speed 1/100,000 sec.
- Signal-to-noise-ratio: 38 dB (acc. to norm ISO 15739)
- Stereo endoscope with rod lens system
- Sterile handling via single use sterile camera drape
- 4 remote control buttons on camera head

- Visual indication of active fluorescence mode via colored LED display in camera head
- Fluorescence modes can be displayed in 2D and 3D
- Camera head can be wipe disinfected
- Function assignment for remote control buttons on camera head identical to function assignment on 3D Camera Control Unit
- Endoscope with outer shaft diameter of 10 mm (including sterile camera drape)
- Automatic brightness adjustment
- Integrated electronically controlled heating at distal endoscope tip to provide controlled anti fog function
- Aperture angle at endoscope tip: 72°
- Depth of field: 20 - 220 mm
- Light cable integrated in video cable (mono cable)
- Endoscope with 0°/30° viewing direction
- 1.8 times digital zoom
- Endoscope working length: 315 mm
- Focal length: 4,6 mm
- Dimensions (w x h x d): 57 mm x 47 mm x 490 mm
- Weight of camera head and endoscope without cable: 538g
- Cable length: approx. 4.1 m
- Application part Type CF defibrillation safe
- Standard conformity acc. to IEC/DIN EN 60601-1
- EMC acc. to IEC/DIN/EN 60601-1-2
- CISPR 11: Class A
- Protection class against falling water: IPX7
- Classification acc. to 93/42/EEC: IIa

TENDER SPECIFICATION FOR LED/LASER LIGHT SOURCE

- Average lifetime of LED module (white light) approx. 30,000 working hours
- Average lifetime of laser module (NIR light) approx. 10,000 working hours
- Monochrome LC display with 2,4 "/ 6 cm diagonal size to indicate operating status (standby), light output, auto light output control, light cable connection and light cable test result
- Front panel with LC display Color temperature of LED module approx. 5665 K (+6,3%)
- Color Rendering Index: 90
- Light flux of LED module: 3,000 lumen (+3,6%)
- Light intensity control via rotation knob in steps of 5% (0-100%)
- Laser module specification for NIR applications:
 - Imaging agent: indocyanine green
 - Laser class (acc. to IEC 60825-1): Class 1 M
 - Laser type: Continuous Wave
 - Laser center wavelength: 805nm (+5/-10)
 - Laser spectral width (FWHM): 3nm
 - Embedded laser: class IV, NIR, 8W
 - Laser aperture: endoscope tip
- Automatic light intensity control via camera control unit (MIS-BUS)
- Deactivation of automatic light output mode by manual control of light intensity rotating knob
- BUS interface — function control (light source on/standby) via camera head of connected Aesculap camera
- Multi light cable connector for Aesculap/Storz, Olympus and Wolf light cables with an outer diameter of 3.5/4.8mm
- Built-in anti-glare protection (if light cable is not connected to light source)
- Automatic dimming of light output when removing the light cable from the receptacle
- Integrated light output measuring control (measures light transmission of connected 4.8 mm light cable and displays result on LCD)
- Orange LED indicator light to show the active laser module
- Two 3.5 mm jack inputs on the rear of the unit for connecting foot switches

- Device is stackable
- Wipe disinfection proof
- Maintenance-free
- Mains supply: 100 - 240 VAC, 50/60 Hz
- Maximum power consumption: 144 W (0.6A @ 240V)
- Power consumption in standby: 5 W
- Operating volume: 43 dB(A)
- Dimensions (w x h x d): 330 x 146 x 362 mm
- Weight: 9.0 kg
- Application part Type CF defibrillation safe
- Standard conformity acc. to IEC 60601-1
- EMC acc. to IEC 60601-1-2
- CISPR11: Class A
- Protection class against falling water: IP21
- Classification acc. to MDR 2017/745: IIa

SPECIFICATION FOR 3D FULL HD LCD MONITOR

- Medically approved color monitor
- Viewable diagonal (inches): 31.5
- Maximum monitor resolution: 1920 x 1080 pixel (Full HD)
- Color LCD panel type with IPS technology
- Front panel protection glass (hardness 9H)
- Optical panel bonding for reduction of light reflections
- Closed housing without ventilation slots and rounded corners
- Display mode selection: 3D/2D
- LED backlight
- Xpol® filter polarization system
- Aspect ratio: 16:9
- Supports major 3D image input formats (side by side, line by line, top and bottom, simultaneous)
- Display direction (normal/90°/180°/270°/mirror)
- Key lock (on/off) prevents unintended inputs
- Video inputs
 - 2x 3G-SDI
 - 2x DVI-D (with HDCP)
 - 1x RGB
 - 1x S-Video
 - 1x Video
 - D-Sub 15pin (mini)
- Video outputs
 - 2x 3G-SDI
 - 1x DVI-D
 - 1x S-Video
 - 1x Video
- Other outputs/connectors
 - GPI input output (D-SUB 9 pin)
 - RS232C output (D-SUB 9 pin)
 - Connector for equipment cable
- OSD On-Screen Display

- Parallel display of two input images (two modes, PIP, POP – switching of display size possible)
- Gamma configuration function (1.8 to 2.6, DICOM, original)
- Configuration of Color, Tint, Brightness, Picture, Backlight, RGB (0 to 100) and Sharpness (0 to 20)
- Color temperature configuration between 6500K/9300K
- Direct control of input switching (function buttons can be registered to input switching)
- Reset function to activate factory settings
- Power save mode
- Function keys on monitor bottom front
- 4 defined function keys (preset, input, menu, 3D/2D)
- 4 user-defined function keys
- Status display via LED
- Menu-driven monitor functions (such as language, color, brightness)
- Noise reduction (off, light, middle, heavy)
- Multilingual user menu: 9 (German, English, French, Italian, Spanish, Japanese, Swedish, Chinese simplified, Chinese traditional)
- User settings: 10
- Change of display direction (2D mode: rotation/mirroring 180°, 3D mode: 180° rotation)
- Parallax adjustment function (3D display only)
- Monitor fixation on wall, cart or extension arm possible
- VESA standard 100 and 200 (100 x 100 mm, 200 x 200 mm)
- Detachable cable connection cover
- Maximum monitor resolution: 1920 x 1080 pixel (Full HD)
- Viewing angle horizontal/vertical: 178°
- Contrast ratio: 1400:1 (typ.)
- Max. brightness: 650 cd/m² (typ.)
- Reaction time (typ.): 16 ms (on/off)
- Display colors: 10-bit (SDI): 1.07 billion (maximum), 8-bit: 16.7 mio.
- Dimensions (w x h x d): 760 x 463 x 96 mm
- Weight: 10.2 kg
- Heat emission: 20,2°C
- Max. power consumption: 97W
- Power consumption in standby: 30W
- Operating volume: <10 dB
- External power supply: I/P 100-240VAC, 50/60 Hz, 24VDC, 3.7A
- Dimensions external power supply (w x h x d): 160 x 37 x 64 mm
- Weight external power supply: 0.7 kg
- Protection class against falling water: IP45 (front), IP32 (rear)
- Protection class against electric shock: I

Compliant with medical safety standards ANSI/AAMI ES60601-1, CSA-C22.2, No.601-1 and EN 60601-1

SPECIFICATION FOR 2D CAMERA HEAD 3CMOS HEAD WITH ZOOM COUPLER

- Sensor resolution: native Full HD (1920 x 1080 pixel)
- Image sensor: 3 x 1/3" CMOS
- Scan mode: Progressive Scan (1080 p 50/60 signal)

- Focallength: 14 to 28 mm
- Shutterspeed: 1/60 to 1/60,000 s
- Minimum light sensitivity: 1.0 Lux @ f = 1.4
- Signal-to-noise-ratio: > 50 dB
- Camera head can be disinfected by wiping or immersion
- Camera head can be cleaned with alkaline und thermally disinfected
- Camera head can be connected to 2D and 3D camera platform
- Length of camera cable: 3.5 m
- 4 remote control buttons on camera head, can be configured to control image display, record images/video and to navigate and change the settings in the configuration menu of the camera control unit
- Function assignment of remote control buttons on camera head identical to function assignment on camera control unit
- Remote control buttons on camera head can be freely programmed with a maximum of 8 functions
- Preset functions of 4 remote control buttons on the camera head in the live mode: menu, white balance, digital zoom, light source on/off, record still image/start or stop video)
- 2 times optical zoom and 1.8 times digital zoom
- Automatic brightness adjustment
- Dimensions (w x h x d): 46 mm x 47 mm x 188 mm
- Weight without cable: approx. 380 g
- Applied part Type CF defibrillation safe
- Standard conformity acc. to IEC/DIN EN 60601-1
- Protection class against falling water: IPX 7
- EMC acc. to IEC/DIN/EN 60601-1-2
- Classification acc. to 93/42/EEC: I

SPECIFICATION FOR 2D/3D DOCUMENTATION SYSTEM

- System: Intel® i-6500 processor with 8GB RAM
- Patient data and worklist transfer and export of still/moving images via DICOM from PACS server
- Patient data transfer from KIS system via HL7 standard
- Direct storage of patient data, still and moving images into the electronic patient record
- „3 step concept“ (input of patient data – record still/moving images – archive data)
- Intermediate storage of data on local HDD, followed by data transfer to CD/DVD, USB storage media or network
- Burning on the fly (storage of 2D/3D still/moving images in real time during surgery)
- Patient input mask (ID number, name, first name, date of birth, surgeon, indication, remarks)
- Record and playback of 2D/3D still/moving images in 16:9 format
- Conversion of 3D video data in bottom-top format (to view Eddy 3D video content on consumer 3D TV sets)
- 4 selectable video compression rates
- Still images can be generated during video live recording
- Freeze function of recorded 2D/3D still images (will be shown on primary monitor for max. 2 seconds)
- Simultaneous connection of 2 camera systems (either 2 x 2D cameras or 1 x 2D and 1 x 3D camera)
- Automatic detection of connected and active camera system
- If 2D camera is connected the recorded data will be automatically stored in 2D

- If 3D camera is connected user needs to specify if data should be stored in 2D or 3D quality
- User can record still/moving images either from the camera head, the CCU, via a foot control or a separate touch screen monitor
- Still/moving images will be permanently linked to patient data
- Still/moving images can be added with comments
- Security backup (recorded data is always stored on internal hard disc in case no other storage media is connected to the documentation system)
- OR report of recorded data can either be printed or exported as PDF
- Data preview for OR report available
- 1080p50/60 video signal format for 2D and 3D recordings
- Recording available with pre-recording function on internal hard disc (max. of 2 minute video material can be stored) for still images (2D/3D) and moving images
- Recording of 2D moving images in DICOM 3.0 format (MPEG-2 or MPEG-4 AVC/H.264 format)
- Recording of 3D moving images in DICOM 3.0 format (MVC format)
- HL7 interface (KIS connectivity)
- Data storage into network via WLAN (WLAN dongle required as accessory)
- Recording button on CCU front membrane supports recording of still and moving images
- Supports external USB storage devices (such as Bluray)
- Storage of Eddy log files on USB stick (e.g. for IT and technical service purposes)
- Implementation of generic printer driver (including network printers)
- Software update possible (via update DVD)
- Eddy viewer (image viewing software) compatible with Windows and OS X operating system (for Intel processors)
- Delete wizard for handling the data on the internal hard disc
- „Data Express“ – a quick way to end the documentation (export function, OR report printing and data deletion can be bypassed)
- Encryption of patient data and safe "transport mode" (in case of service the patient data is secured)
- DICOM configuration wizard: user-friendly DICOM configuration
- Storage Commitment: Acknowledgement of data storage
- Storage capacity of internal hard disc (HDD): 1 TB
- Storage capacity of system hard disc (SSD): 16 GB
- Data storage possible on internal hard disc, CD/DVD, USB or server
- Compatibility to various servers (LAN, HL7, PACS – DICOM 3.0)
- Double Layer DVD drive with slot in mechanics
- Data storage on
 - DVD+R (speed 8x)
 - DVD+R DL (speed 6x)
 - DVD-R (speed 8x)
 - DVD-R DL (speed 6x)
 - DVD+RW (speed 4x)
 - DVD-RW (speed 4x)
 - DVD-RAM (speed 3x)
 - CD-R (speed 24x)
 - CD-RW HS (speed 10x)
 - CD-RW MS (speed 10x)
- Operating system: Windows 8.1 Embedded Industry Pro (64Bit version)
- Operating system and operating software on write-protected SSD hard drive
- Video inputs
 - 2 x 3G-SDI for 3D camera system
 - 1 x 3G-SDI for 2D camera system

- Video outputs 1 x Display port (3D monitor)
 1 x DVI-I (operating monitor)
 1 x 3G-SDI (2D)
- Others 1 x RJ45 (Ethernet 10/100/1000 mbit/s network connection)
 2 x USB 3.0 (front side)
 4 x USB 3.0 (back side)
 4 x USB 2.0 (back side)
 1 x potential equilization
 1 x remote for 2D (3.5 mm jack - mono)
 1 x remote for 3D (3.5 mm jack - mono)
- Multiple 2D/3D monitors can be connected with CCU
- Wipedisinfectionproof
- Unit is stackable
- Maximum power consumption: 180 VA
- Mainssupply: 100 - 240 VAC, 50/60 Hz
- Dimensions (w x h x d): 330 x 146 x 353 mm
- Weight: 8.1 kg
- Classification acc. to 93/42/EEC: I
- Standard conformity acc. to EN 60601-1 safety class 1, EN 60601-1-2, EN 62304
- CISPR 11: Class B

TECHNICAL SPECIFICATIONS ENDO CART

- | | |
|--|--|
| 1. Voltage | Without isolating transformer: 100VACto 240VAC
With isolating transformer: 230 V AC |
| 2. Maximum power input | 10 A at 220 V to 240 V
16 Aat 100Vto 130V |
| 3. Device protection | T10 AH / 250 V |
| <ul style="list-style-type: none"> • Time-Current characteristic • Breaking capacity • Construction | Time lag (T)
H (1 500 A)
5 mm x 20 mm |
| 4. Multi-socket with cold device bus, 2 x 6 sockets IEC320 | |
| 5. Dimensions (W x H x D) | 703 mm x 1 506 mm x 663 mm |
| 6. Footprint (W x H) | 450 mm x 485 mm |
| 7. Weight (unloaded) | |
| <ul style="list-style-type: none"> • Without isolating transformer • With isolating transformer | 55 kg
75 kg |
| 8. Maximum load per shelf | 40 kg |
| 9. Maximum permissible total load | 210 kg |
| 10. Conforming to standard | IECIDIN EN 60601-1
IECIDIN EN 60601-1-2
EN 14971 |

TECHNICAL SPECIFICATIONS ISOLATION TRANSFORMER

Maximum rower consumption	2 200VA [Nominal voltage 230V]
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Protection against water penetration	IP20
Input fuse (primary)	1 x 20 A
Output fuse (secondary)	2 x 10 A f T10 AH I 250V
Temperature protection	120 °C
Monitoring relay	
Alarm threshold for "Isolation resistance low"	50 kΩ

SPECIFICATION FOR 2D FULL HD LCD MONITOR WITH TOUCH TECHNOLOGY

- Medically approved color monitor
- Display with TFT technology and LED backlight
- Viewable diagonal (inches): 21.5
- LCD panel with antireflective protective glass Panel with touch function
- Aspect ratio: 16:9
- Maximum monitor resolution: 1920 x 1080 pixel (Full HD) Multilingual user menu (6 languages)
- Menu navigation via On Screen Display
- Menu-driven monitor functions (such as language, source, contrast, brightness, color mode, color)
- Color adjustment: red, green, blue
- Color mode: cool, neutral, warm, user
- Reset function to activate factory settings
- Input: DVI-D, VGA, HDMI, Display Port, USB
- Pixel pitch: horizontal 0.2475mm x vertical 0.2475mm
- Display area: horizontal 475mm x vertical 267mm Display colors: 16.7 mio. Contrast ratio: 1000: 1
- Max. Brightness: 250 cd/m²
- Viewing angle horizontal/vertical: 178°
- Dimensions (w x h x d) 537 x 59 x 329 mm
- External power supply: I/P 100-250 VAC, 1.5-0.75A, 50/60Hz; O/P 24 VDC, 2.3A
- Monitor fixation on wall, cart or extension arm possible
- VESA 100 standard
- Weight: 5.5 kg
- Max. Power consumption: 48 W
- Power consumption in power saving mode: < 5 W
- Heat emission: 22 W
- Operating volume: 0,3 dB(A)
- Standard conformity: IEC/EN 60601-1 3rd; IEC/EN 60601-1-2, CE, UL60601, FCC
- Classification acc. to 93/42/EEC: I

TECHNICAL SPECIFICATIONS INSUFFLATOR

Mains voltage range	AC 100-240 V		
Supply frequency range	50/60 Hz		
	2x T 4 A H, 250 V,		
Fuse designation	UL-recognized		
	Power consumption		
Power consumption	Current (A)	V)	
Normal operation 100 V AC/60 Hz	1,05	105	
Normal operation 240 V AC/50 Hz	0,50	120	

Max. power consumption	120 VA
Protection class (I, II, III)	I
Application part type (B, BF, CF)	CF
Protection type (IP-Code)	IP21
Classification (I, IIa, IIb, III)	IIa
Operating conditions:	15-37 °C 20-90 % rel. humidity, non condensing 700-1060 hPa air pressure 3000 m/9843 ft max. altitude above sea level for device Use
Storage and transportation conditions:	-20 bis +60 °C 10-95 % rel. humidity, non-condensing 500-1060 hPa air pressure 50 dB
Maximum device noise emission	
heat emission	43 °C
Inlet pressure range	Max. inlet pressure: 80 bar/1160,3 psi Min. inlet pressure for house gas: 2,7 bar/39,2 psi
Max.	75 mmHg (1 mmHg = 1,33 mbar = 133 Pa)
Max. gas flow	50 l/min
Max. suction	12 l/min
Adjustable pressure range	1-30 mmHg
Pressure display resolution	1 mmHg
Dimensions (Width x Height x Depth)	330 mm x 200 mm x 400 mm
Weight	12 kg
Interfaces/connections:	Memory stick interface (USB Typ A) Service interface (Mini-USB) Mains power connection (IEC-60320-1 C14)
Standards	IEC 60601-1:1988 + A1:1991 + A2:1995 (Edition 2.0) IEC 60601-1:2005 + CORR. 1:2006 + CORR. 2:2007 + A1:2012 (Ed. 3.1) EN 60601-1:2006/A1:2013 (Edition 3.1) EN 60601-1-2:2007/AC:2010 (Edition 3) IEC 60601-1-2:2014

23. Operating Microscope

Technical Specification of Surgical Operating Microscope for Neuro Surgery

Required Quantity: 01

MICROSCOPE BODY:

Motorized zoom magnification system with apochromatic optics, zoom magnification factors 0.4x to 2.4x, activation by handgrip and foot control panel, with manual override.

Total magnification range 18X or higher without the use of magnification booster.

Should have Internal motorized fine focusing system, activation by handgrip / foot control panel, continuously adjustable working distance from 200 mm to 625 mm without exchange of objective lens.

BINOCULAR TUBE:

0-180 degree tiltable binocular tube with focal length 170mm or higher graduated knob for continuous adjustment of interpupillary distance from 55mm to 75mm, 360-degree rotatable binocular tube is must.

FACE to FACE:

0-180 degree tiltable binocular tube with focal length 170mm or higher graduated knob for continuous adjustment of interpupillary distance from 55mm to 75mm, for the surgeon operating opposite to main surgeon.

AUTODRAPE (Smart Drape):

System should be capable of auto air evacuation when Draping the microscope by push of a button. It should provide an effortless and simple self-locking mechanism. Integrated RFID chip for easy activation of Autodrape function.

AUTOBALANCE:

System should be capable of balancing the microscope by push of a button.

RECORDING:

System should have completely integrated full HD recording through USB.

VARIOSCOPE:

Should have working distance through continuous varioscope from 200-625mm without any external attachment

EYEPIECES :

Pair of high eye point wide field push-in eyepieces 12.5x magnification with magnetic locks, diopter setting from -8D to +5D, also suitable for spectacles wearers.

ILLUMINATION SYSTEM :

Coaxial xenon illumination 300W with back up 300w xenon with quick-action lamp changer in case of failure of main lamp.

HANDGRIPS :

Microscopes should have easily manoeuvrable handgrips with adjustable keys for zoom and focus, Illumination & Magnetic brakes. It should have programming for magnetic brake for control of stand & Microscope body brakes

FLOOR STAND

Rollable floor stand on base with lockable castors, carrier and swivel arms with large reach of 1.60 m or higher

"Should have free float magnetic system with Six magnetic brakes, Three brakes for Microscope body & three for Microscope Stand with release of magnetic brakes by handgrips" Integrated full HD monitor 21 inch or more for quick set up of different parameters and their activation such as automatic speed adjustment or automatic brightness setting depending on magnification "System should have facility for Auto Air evacuation system for drapes(Auto drapes).

System should have overhead display for showing important parameters".

INTEGRATED DIGITAL 3 chip 4K VIDEO CAMERA SYSTEM

Advanced digital Completely Integrated 3 chip 4K video camera (3840 × 2160 p) system suitable for connection to PC, colour monitor. The camera should not be visible from outside, it should be integrated in the microscope head the microscope should also have video speed focus.

USER PROGRAMMING:

Programming for starting illumination, Magnification, working distance, Zoom speed & Focus speed for up to 40 different users.

IT SHOULD HAVE USFDA or EUROPEAN CE STANDARDS

24. Combined High-End RF Argon Plasma and Water Jet Surgical WorkStation with Automatic Surgical Smoke Evacuation System

An integrated RF, with Argon and Kinetic energy surgical platform, which can dissect, coagulate and seal the tissues during open and laparoscopic surgeries. System should comprise of below Type of Module Energies.

1) **High End RF Energy Platform -Electro surgery unit with Thermo fusion (Vessel Sealing) -01 Nos**

- The Electro surgical generator should be a 400watt touch screen display with 15 digital signal processors.
- Unit should facilitate functions of Monopolar, bipolar & vessel sealer with in-built regulated power supply adapter for bipolar resection.
- Unit should have a Stepguide suggesting appropriate setting configurations for every instrument and application.
- The system should make 25 million measurements / sec for better tissue effect and should measure tissue impedance through power peak system.
- System should have wifi compatibility for future OR integration.
- Unit should be plug & play with 5 or more universal multi-functional sockets to accommodate any instrument.
- System should have remode function to allow user to access 6 sub programmes directly from the sterile field.
- Unit should have high cut mode for Monopolar modalities
- Each socket should support the Autostart function for bipolar instruments.

- Unit should have the facility for socket exchange.
- Unit should have Soft Coagulation mode with quick start function for any open or laparoscopic application
- Unit should have PreciseSect mode for optimized dissection in open or laparoscopic cases
- The generator should work on a supply voltage of 100 – 120 VAC & 220 – 240 VAC
- Power consumption at Max HF power should be 550 watts with max pulse power consumption of 1600 watts.
- Should have a special Coagulation mode called “Thermoseal” with auto start function for highly vascularized tissue bundles and vessels upto 7mm diameter and min. burst 360mmHg burst pressure.
- Unit should have an AutoCut bipolar mode to facilitate bipolar cutting instruments.
- Supply frequency should be in the range of 50 -60 Hz.
- Unit should have the facility to store 1800 programmes or applications.
- Unit should have the facility to show the active instruments on the screen display.
- The generator should have an inbuilt feature of accessory assignment.
- The unit should have high cut bipolar to facilitate bipolar resectoscopes.
- The generator should be supplied with Latest High End Argon Plasma coagulation unit having forced APC, pulsed APC and precise APC modes.
- The generator should be supplied with Patented Hydrojet System to facilitate use of unique hybrid technology instruments for All Surgical Modalities & Procedures.
- Unit must be compatible & Supplied with the latest automatic Intelligent Smoke evacuation module and suction module. from Same OEM
- Unit should support Nussy as a neutral electrode.

2) **Argon Plasma Coagulation Unit- 01 Nos**

For management of bleeding and devitalisation of tissue abnormalities achieved by optimal coordination with RF generator

- The Argon Plasma Coagulation system should have automatic parameters setting for various types of instruments and automatic depth controlled plasma regulation.
- Should have three different APC modes suitable for different indications
 - Precise APC – adjustment made using the effect settings
 - Pulsed APC – adjustment made using the parameter power settings
 - Forced APC – adjustment made using the parameter power settings
- Should have Adjustable argon flow rate from 0.1L/min to 8L/ min in steps of 0.1 L /min with automatic regulation of selected flow rate.
- Should have the facility to use Argon plasma coagulation and monopolar coagulation simultaneously
- Should have automatic monitoring of flow rate and Argon supply and auto purge facility. It should have the facility to connect with central gas supply.
- Should give visual display of argon gas bottle content and should give Acoustic alarm when bottle content reaches a minimum.
- Should have facility for activation of unit by foot pedal of the Electro Surgical unit.
- Should have facility to use in double balloon endoscopy procedures.
- Should have facility for Argon supported cutting and coagulation.

3) Patented Water Jet Tissue Dissection System.

For management of separating the different tissue types with their varying elasticity and firmness with the help of adjusted water pressure based on the kinetic energy principle.

- Should have pressure range:1–80 bars & Volume flow:1–65ml/min. It should indicate delivered fluid vol.
- Should adapt any sterile saline solution bag (disposable) as separation medium.
- Should be integrated with Electro surgical workstation with other accessories and facility to connect Monopolar coagulation with the applicator
- Should have facility to individually configure programs for different surgeries.
- Water jet activation should be via footswitch and Remote facility for switching between two different user settings.
- Should have facility for various applicators to be used in Laparoscopy, flexible endoscopy and open surgeries.

4) Automatic Suction Module

- It Should be Supplied with Automatic Suction Module with all from the same OEM

5) Automatic Smoke Evacuation Unit

- The smoke plume evacuation system should be microprocessor controlled, US-FDA and / or European Certificate marked in accordance with the medical devices directive (93/42/EEC) & Electro Surgical Unit should comply with the requirement of the medical device directive of class I equipment and electromagnetic compatibility.
- The smoke plume evacuation system should be compatible with already installed VIO Surgical Workstation & Electrosurgical Units and should be fitted into same station trolley for smooth functioning and ergonomics.
- The smoke plume evacuation system should be able to extract and filter smoke and aerosol- laden air during surgical procedures & should be also able to filter COVID -19 like viruses and other microorganism present in surgical smoke generated during the procedure.
- The system should have a functional 5.7 inches touch screen display for better visibility& ease of control & display should be able to show settings, operating modes, filter run-time and information messages for the user.
- The System should have Bi-Turbo technology for effective filtration, should have ULPA-15 filter (5 stage filter protection) and active carbon filters & should also have ability to remove 99.9995% of all 0.1µm particles.
- The system filter should have maximum output of 730 l/min & have the ability to give a notification when volume flow of more than 300l/min is reached.
- The system should have ability to be used along with any electrosurgical unit, Laser and ultrasound devices & system should have automatic activation feature, no need of any additional footswitch for activation during monopolar electrosurgical applications.
- The system should display error if filter is not inserted to prevent damage & system should be able to use in vertical as well as horizontal way as per user needs.
- The system should have the ability to be fixed on the ceiling units (OT pendants) & should have the ability to be used with 2 instruments at the same time during any Surgical Procedures.
- The system should be able to used in open as well as lap surgical procedures with All required Accessories from same OEM only & system noise development at 100% evacuation should be ≤ 59 dB as must have sound insulation cladding, integrated ducts and airborne sound absorbers for noise insulations.
- The user should be able to set critical features like - suction efficiency, standby suction efficiency as well as standby suction time in both lap and open surgery modes & should have footswitch activation facility for laser and ultrasonic uses during procedure.

- The system should be provided with self-sealing water trap to protect the main filter cartridge from liquids & weight of system should be < 10kgs.
- Service life of the unit filter should be for:

A. OPEN SURGERIES

- 40 hrs at 30% evacuation
- 32 hrs at 60% evacuation
- 25 hrs at 100% evacuation

B. LAPAROSCOPY SURGERIES

- 80 hrs at 30% evacuation
- 60 hrs at 60% evacuation
- 25 hrs at 100% evacuations

- The smoke evacuator unit should have an interface to connect it to the Electrosurgery system and should also be used as a “stand alone” unit.
- The unit should have provision to be activated via the interface to the Electrosurgery unit, and the time and type of activation can be selected and stored for every output socket and for every cutting or coagulation mode of each program of the Electrosurgery unit.
- The unit should additionally be activated manually using the START / STOP button or the footswitch. Deactivation should be controlled via the interface or by programming an after-run time.
- For safety reasons, an automatic function check of the unit and of the activation components connected to the unit should be performed after the mains switch has been switched on.
- A System display should indicate the filter level.
- The smoke evacuator unit should be supplied with essential accessory Filter Cartridge.
- The smoke evacuator unit should be supplied with essential accessories of same O.E.M
- One pedal foot switch AP & IP 100% waterproof endorsed by IPX8 certification of same O.E.M.

6. Following accessories to be supplied with the Surgical Workstation From the same OEM only.

All the mentioned above Units & Accessories should be Supplied & Should have Valid USFDA/ European CE/BIS Certifications Marked.

- Reusable hand pencil with Coated Monopolar Electrodes – 15 **Nos.**
- Reusable Thermo fusion hand instrument for open surgeries (for vasculatures up to 7mm) – **05Nos.**
- Reusable thermo fusion hand instrument for Laparoscopic surgeries (for vasculatures up to (7mm) – **05Nos.**
- Footswitch with facility for swapping between programs – **2Nos.**
- 5mm bowel shaped sealing and cutting hand instrument with maximum of 1.1 mm thermal spread – **5 Nos.each (Open & Lap Surgeries)**
- Reusable Premium Non Sticky Bipolar forceps with cable – **05 Nos Each.**(Straight & Bayonet)
- Patient plate with equipotential ring -**100 Nos.**
- Argon assisted cutting instrument for open surgery and laparoscopic surgery -02 Each
- Water Jet accessories for Laparoscopy and open surgery -02 Each
- Pump Cartridges for Waterjet Surgeries Single Use – 10 Each
- Workstation trolley with attached Suction unit from same OEM – **1No.**
- Automatic Smoke Evacuation unit from same OEM- 1 Nos

- Reusable Bipolar Scissor for open & Lap surgery with cable – **05 Nos.(Each)**
- Laparoscopic Cable & Attachments for Minimal Invasive Instruments- **02 Nos**

7. Following Accessories from the same OEM only should be supplied as Standard Accessories Along with Automatic Smoke Evacuator unit.

- Main filter cartridge IES 3- 01 Qty
- Automatic Activation Device IES 3- 01 Qty
- Prefilter for smoke evacuation- 10 Qty
- Smoke evacuation pencil, single-use, short with coated spatula electrode, connecting cable 3 m- 20- Qty
- Smoke evacuation pencil, single-use, short with coated spatula electrode, with extension shaft mechanism connecting cable 3 m- 20- Qty
- Evacuation tubing, ø 22 mm, length 2.1 m (reusable)- 01 Qty
- Evacuation tube with optimized streaming- 05 Qty
- Evacuation funnel connection, ø 22 mm- 05 Qty
- LAP tubing set IES 3 with trumpet valve 3m- 20 Qty
- One-pedal foot switch for IES 2, AP & IP X8 equipment; with connecting cable 5 m, with connecting plug 7 poles

A. Advance Laproscopy Hand Instrument Set (To be supplied with equipment)		
SNO	Description	Qty
1	Verses Pneumoperitoneum Needle with spring loaded blunt stylet. LUER-Lock. Length 13cm & 15cm, 18cm	2
2	Trocar, Size 11mm consisting of Trocar only with pyramidal tip Cannula without valve, with insufflation stop- cock. Length 10.5cm Multifunctional valve, three part dismantle with washer pack of 10pcs	2
3	Trocar size 11mm consisting of Trocar only, with blunt up Cannula without valve with insufflation stop cock, length 10.5 cm Multifunctional valve size 11mm	1
4	Trocar size 6mm, consisting of Trocar only, with pyramidal up Cannula without valve with insufflation stop-cock, length 10.5 cm Multifunctional valve. Three part dismantle with washer pack of 10pc	2
5	Hi Flow Trocar size 11mm, consisting of Trocar only, with pyramidal tip oval profile Cannula without valve, with Hi Flow Connection for insufflation, length 10.5 cm Multifunctional Valve for Hi Flow	1
6	Trocar 11 mm diameter with thread and rotating insufflations, should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. The working length of the cannula should be 10.5mm. Telescope stopper.	2
7	Trocar 6mm diameter with thread and rotating Insufflations, should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through he cannula valve. It should have stopcock for CO2 insufflation. The working length of the cannula should be 105mm Telescope Stopper.	2
8	Trocar Size 11mm consisting of Trocar only, with blunt tip Cannula without valve with insufflation stop cock, with 2 flanges of fixation of sutures length 13cm Automatic Valve Sliding Cone.	1

9	Trocar Size 13.5 mm consisting of Trocar only with pyramidal tip. Cannula without valve, with insufflation stopcock, length 11.5cm Multifunctional valve size 13.5mm with washer pack of 10pcs. Reducer 13/5 mm, 13/5mm. Reducer 13.5/10mm & Reducer 11	1
10	Reducer 13/5 mm, 13/5mm, Reducer 13.5/10 mm & Reducer 11/5 mm Reduction Sleeve, 11/5mm	1
11	Reduction Sleeve ,11/5mm	1
12	Injection Needle. LUER-Lock, diameter 1.2mm, size 5mm, length 36cm.	1
13	Three pieces laparoscopic KELLY Dissecting and Grasping Forceps, rotating with connector pin for unipolar coagulation, size 5mm, length 36cm. Double action jaws short consisting of Plastic Handle, without ratchet, Outer Tube insulated, Forceps Insert. Three part dismantle.	1
14	Three Piece laparoscopic Dissecting and Grasping Forceps, rotating with connector pin for unipolar coagulation size 5mm length 36cm, right angled. double action jaws consisting of Plastic Handle without ratchet, with large contact area, Outer Tube Insulated Forceps Insert. Three Part dismantle.	1
15	Three piece laparoscopic KELLY Dissecting and Grasping Forceps, rotating with connector pin for unipolar coagulation size 5mm length 36cm, double action jaws short consisting of Plastic Handle without ratchet, with larger contact area. Outer Tube insulated. Forceps Insert Three part dismantle.	1
16	Three piecelaprosopic dissecting and Grasping Forceps, rotating with connector pin for unipolar coagulation size 5mm length 36cm, alligator jaws, double action jaws consisting of Plastic Handle without ratchet, with large contact area, Outer Tube Insulated Forceps Insert, Three part dismantle	1
17	Three piece Laparoscopic BABCOCK Grasping forceps size 5mm length 36cm with connector pin for unipolar coagulation, atraumatic jaws, double action jaws consisting of Plastic Handle ratchet, with larger contact area outer Tube insulated forceps Inserts three dismantle.	1
18	Three piece laparoscopic BABCOCK Grasping forceps rotating with connector pin for unipolar coagulation, atraumatic jaws with multiple teeth, fenestrated, single action jaws, consisting of Plastic Handle without ratchet, with larger contact area Outer Tube Insulated Forceps Insert three Part dismantle.	1
19	Three piece Laparoscopic Grasping Forceps, 2X4 teeth, rotating with connector pin for Unipolar coagulation, size 5mm length 36cm double action jaws, consisting of plastic handle with ratchet Outer tube Insulated Forceps Insert. Three Part dismantle	1
20	Three Piece Laparoscopic Bowel Grasper, rotating with connector pin for unipolar coagulation size 5mm, length 36cm, double action jaws, consisting of plastic Handle without ratchet with larger contact area Outer Tube Insulated Forceps Insert Three Part dismantle	1
21	Three Piece Laparoscope CROCE-OLMI Grasping Forceps, rotating, dismantling, insulated with connector pin for unipolar coagulation with LUER-Lock Connector for cleaning single action Jaws. Slender, atraumatic, fenestrated, curved size 5mm length 36cm consisting of plastic handle, without ratchet. Metal outer sheath insulated Forceps Insert Three Part Dismantle	2
22	CLICKLINE INAKI Grasping Forceps, rotating, dismantling, without connector pin for unipolar coagulation with LUER-Lock irrigation connector for cleaning, single action jaws slender atraumatic, fenestrated, curved, size 5mm , Length 36cm consisting of Metal handle without rachet with large contact area Outermental outer sheath insulated Forceps Insert	1

23	Three Piece Laparoscopic Bowel Grasper, rotating with connector pin for unipolar coagulation size 5mm, length 36cm, atraumatic fenestrated single action jaws, consisting of plastic Handle without ratchet with larger contact area Outer Tube Insulated Forceps Insert Three Part dismantle	1
24	Three Piece Laparoscopic REDDICK- OLSEN dissecting and Grasping Forceps, rotating with connector pin for unipolar coagulation size 5mm length 36cm heavy double action jaws consisting of Plastic Handle with ratchet Outer Tube insulated Forceps Insert Three Part Dismantle	1
25	METZENBAUM Scissors, rotating,dismantling, insulated, with connector pin for unipolar coagulation with LUER-Lock connector for cleaning double actions jaws curved length of blades 15mm size 5mm length 36cm consisting of plastic Handle insulated without ratchet Metal Outer Sheath insulated. Scissors Insert Three Part dismantle	2
26	Single use scissor insert pack of 10 (1X10)	1
27	Three Piece laparoscope Hook Scissors rotating size 5mm length 36cm jaws not crossing with connector pin for unipolar Coagulation single action jaws consisting of Plastic Handle without ratchet with larger contact area Outer Tube Insulate. Forceps Insert Three part dismantle	2
28	Suction and Irrigation Tube,anti reflex surface with two-way stopcock for single hand control size 5mm length 36cm	1
29	Suction or Irrigation Tube, with protection basket with trumpet valve size 10mm Length 36cm	1
30	Coagulation and Dissecting Electrode, spatula-shaped, blunt with connector pin for unipolar coagulation size 5mm working length 36cm	1
31	Macro Needle Holder ergonomic axial handle with disengage able ratchet, ratchet release on the right side. Left curved jaws, with tungsten carbide insert 5mm, length 33cm	1
32	Macro Needle Holder ergonomic pistol handle with disengage able ratchet, ratchet release on the right side, right curved jaws with tungsten carbide insert 5mm length 33cm	1
33	Three piece laparoscopic needle holder ergonomic pistol grip with disengage able ratchet, ratchet release on the left side, straight jaws, with tungsten carbide insert 5mm, length 33cm	1
34	Unipolar HF Cord with 4mm plug and length 300cm	3
35	Clip Applicator, for use with Titanium Clips LT 300 (medium Large) dismantling, rotating with ratchet to lock the jaw part holding the clip Size 10mm length 36cm consisting of Metal Handle with ratchet Metal Outer Tube Insert Three Part dismantle	1
36	Dismantling Fan Retractor, distend able size 10mm length 36cm	1
37	Polymer clip applicator 10mm and 5mm (1each) of any reputed make with clips	1 each
38	Claw Forceps rotating size 10mm length 36cm 2X3 teeth single action jaws consisting of Metal Handle with MANHES style ratchet Outer Tube Insulated Forceps Insert three Dismantle	1
39	Claw Grasping Forceps rotating with connector pin for unipolar coagulation size 5mm length 36cm 2x3 teeth, single action jaws consisting of Plastic Handle without ratchet with larger contact area outer Tube	1
40	Rotatable Bipolar KELLY Grasping Forceps rotating dismantling with connector pin for bipolar coagulation double action jaws especially suitable for dissection size 5mm length 36cm consisting of Plastic Handle without Ratchet color code light blue outer sheath Forceps Insert Three Part dismantle	1
41	Bipolar HF Connecting Cable Length 300cm compatible with all standard cauterize	2

42	Three Piece laparoscopic autoclavable forceps for retrieving gallstones, double action jaws with 360degree rotational sheath, size 10mm, length 36cm long, ergonomic metal handle with plastic rings with larger contact area at the finger ring to avoid pressure sores can be dismantled with the press of a button.	1
43	Fascial Closure Instruments for sub cutaneous ligature of trocar incisions	1
	All the above Equipment's are to be supplied by the same manufacturer.	

25. Integrated bipolar & ultrasonic coagulation & cutting unit.

Technical Specification for Integrated Bipolar and Ultrasonic Coagulation & Cutting Unit

The Unit should have following features; with Proprietary features or Unique features

- Synergistic of Ultrasonic energy combined with Bipolar HF energy
- Simultaneous delivery of both ultrasonic and bipolar energy through single instrument –
- There should be no capping on transducer activation both for Synergistic Ultrasonic energy combined with Bipolar HF energy and dedicated Ultra sonic Energy
- Units should also be able to deliver separately the other energy modality like Monopolar bipolar advance bipolar and Ultra sonic energy both for open as well as Endoscopic surgery
- Facility for Rapid Dissection and Reliable vessel sealing up to 7mm Vessels in a Single Instrument
- The unit should also be able to deliver bipolar energy under saline for BPH management
- Dedicated cart for transportation and storage
- Instrument recognition and automatic application of default settings for ease of use
- Provision for Automatic mist and smoke evacuation to maintain a clear laparoscopic view reducing delays associated with compromised visualization when combined with Co2 Gas Insufflator from same manufacturer
- HF Unit should have operational compatibility for all Lap/Gyn /Uro/GI/Open Surgery and should have minimum 16 Monopolar & Bipolar modes to cover all OR requirements, boot time not more than 6 Sec, 4000 times feedback control cycle per second
- LCD and Touch Screen user Interface
- HF unit should have Fast Spark Monitor ensures smooth and reproducible cutting in varying tissue (eg, muscle & fat)
- HF unit should have Automatic Saline Detection mode for Urology/ GYN application
- HF & US device should have CF type Protection against electric shock
- Device should have dedicated Seal and & Seal & Cut mode by hand activation as well as foot switch without exchanging the instruments.
- Device should have best in class versatility, upto and including 7 mm vessel sealing capability, Fast cutting speed, Fine and easy dissection. Haemostatic seal mode Optimized grasping etc for getting less instrument usage & exchange, uninterrupted operation flow and reduced OR time.
- The system must microprocessor controlled which should identify the tissue type with a feedback of at least 430000 times second on real-time basis and adjust the power to get the desired surgical effect of the tissue
- System should have system error indicator
- System should have system status indicator such as self-test, ready for use, ready for sealing/ seal cycle complete, sealing in process
- Seal cycle incomplete alert
- System should have usage limit indicator
- System should have system status indicator
- The vessel sealing hand instruments should have cutting independent of sealing
- There should be an option for enabling or disabling foot switches
- Surgeon should have the facility to control power from sterile zone with a sliding control 3-button hand switching device.
- System should have bipolar resection with saline facility inbuilt in the integrated in main unit software without any interfacing cable

- Should have 6 combination of cutting and coagulation setting
- System should be compatible of REM poly-hesive contact quality monitoring system
- System should have audio visual alarm facility to indicate any breakage of direct contact between the patient and patient plate
- All Open surgery including head and neck and thyroid can be precisely controlled with very less thermal spread by using sealing technique
- Both Footswitch and hand control mode be available.
- System should have both responsible open surgical instrument for Vessel Sealing purposes.
- System should be Compatible with Argon Coagulator and smoke evacuator
- System should be CE/US FDA approved
- The system should be upgradable and should have RS232, USB Ethernet port for on field software downloads, upgrades and serviceability
- Monopolar/Bipolar/Vessel sealing footswitch
- Three Button Hand switching pencils

Device should be supplied with following instrumentations

1. Ultrasonic Generator with Foot Switch
2. Advanced HF Generator with Foot Switch
3. Transportation Cart
4. Communication Cables
5. Autoclavable Transducer with cable (2 pcs)
6. Hand piece probes for lap (5 pcs)
7. Hand Piece probes for open surgery(5pcs)

26. OMNI tract abdominal retractor

SPECIFICATIONS FOR RETRACTOR FOR ONCOLOGY SURGERY SYSTEM

1	RETRACTOR SYSTEM FOR ONCOLOGY SURGERY	Per Set
	Containing with following	
	Clamp® Sterile Field Post Double Coupler 24.3"	Each
	Standard Cross Bar 12*5*12	Each
	Hinged Cross bar 17*5*17.7	Each
	Snap Clamp Blade Holder	Each
	125 Degree Angled Side Arm 7*16	Each
	75 degree Angled Side Arm 8*18	Each
	Mayo Swivel Retractor 3.5*2.75	Each
	Blade Holder with 3626 knob 6*0.375	Each
	Blade Holder with 3626 knob 9*0.375	Each
	Deaver 1.5*6	Each
	Kelly 3.*4.5	Each

Pan/Cover Set, 121/2" x 261/2" x 35/8"	Each
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- Bidder should quote all the instruments specified above
- Instruments should be of high quality and standard used for Retractor/aforesaid equipments.
- The System should have flexibility for the different approaches.
- Manufacturer/Should be US FDA certified. Copy of certificate to be enclosed compulsorily.
- All instruments should be highly heat and corrosion resistant.
- Manufacturer name and part number should be mentioned on each and every instrument
- Bidder has to provide the demonstration of the item
- The system should have 1 year warranty from the date of installation.
- The Principals must give a certificate if the supplier/vender is changed during the course of guarantee/warrantee period
- Performance Certificate from the satisfied customers from Central Govt./State Govt/Reputed Private hospital must be appended in respect of the quoted equipment.

27. Book walter's abdominal retractor

Sr.No.	Description	Qty.
	Bookwalter®Retractor,KitIII IncludesFollowingItems:	
1	Bookwalter®Retractor,TablePost,12in	Each
2	Bookwalter®Retractor,LightweightPostCoupling,ForStandard1inSystem,1x4in,Diameter25mm	Each
3	Bookwalter®Retractor,HorizontalBar,141/4in	Each
4	Bookwalter®Retractor,HorizontalFlexBar,w/360°Rotation,Lightweight	Each
5	Bookwalter®Retractor,Ring,Medium,Oval	Each
6	Bookwalter®Retractor,Ring,Medium,Segmented	Each
7	Bookwalter®Retractor,RatchetMechanism	Each
8	Bookwalter®Retractor,TiltRatchetMechanism	Each
9	Bookwalter®Retractor,Blade,Harrington,21/2inx55/8in,(64mmx143mm)	Each
10	Bookwalter®Retractor,Blade,Balfour,25/8inx3in,(67mmx76mm)	Each
11	Bookwalter®Retractor,Blade,Kelly,2inx3in,(51mmx76mm)	Each
12	Bookwalter®Retractor,Blade,Kelly,2inx4in,(51mmx102mm)	Each
13	Bookwalter®Retractor,Blade,Kelly,2inx5in,(51mmX127mm)	Each
14	Bookwalter®Retractor,Blade,Kelly,2inx6in,(51mmX152mm)	Each
15	Bookwalter®Retractor,Blade,Malleable,11/2inx6in,(38mmx152mm)	Each

16	Bookwalter® Retractor, Blade, 2x6, Malleable, (51mmx152mm)	Each
17	Bookwalter® Retractor, Blade, Malleable, 3inx62/3in, (76mmx168mm)	Each
18	Bookwalter® Retractor, Blade, Sharp, Gelpi	Each
19	Aluminium Case	Each
20	WireBasket Stainless Steel Tray	Each
21	Bookwalter® Retractor, Twister Ratchet	Each
22	Bookwalter® Retractor, Blade, w/Lip, Malleable, 2inx6in, (51mmx152mm)	Each
23	Bookwalter® Retractor, Blade, w/Lip, Malleable, 11/2inx6in, (38mmx152mm)	Each

28. Integrated ultrasonic cutting & coagulation

Technical Specifications For The Integrated ultrasonic cutting and coagulation device with advance issue & vessel sealer for open and laparoscopic surgery

- System should have a universal connector to connect Ultrasonic energy and Advanced RF energy instruments.
- System should have automatic instrument recognition
- System should have a touch screen display for fast and setup, operation and on-screen diagnostics
- System should have the ability for software updates via USB memory stick
- System should be a single generator that provides Ultrasonic energy and Advanced RF energy technology for soft tissue dissection and vessel sealing
- System should have a single footswitch for operating ultrasonic energy or advanced RF energy instruments
- System should be able to power ultrasonic energy Instruments with 55.5 KHz frequency and have the ability to power ultrasonic energy instruments in the frequency range of 30-80 KHz in future.
- System should be equipped with advanced RF energy technology that can simultaneously seal and transect vessels up to and including 7mm, large tissue pedicles and vascular bundles
- System should be equipped with advanced RF energy technology that facilitates a perpendicular approach to vessels through articulation both sides with full 360 Degrees shaft rotation
- System should be equipped with Pure Ultrasonic energy technology that can simultaneously seal and transect vessels up to and including 7mm, large tissue pedicles and vascular bundles both for open and Laparoscopic Surgery
- System should have Advanced RF Energy hand instruments with technology to deliver high compression uniformly across seal area
- System should have installation base of 500 installation in prestigious institutions across india with at least 100 satisfactory performance reports
- System should be equipped with advanced RF energy technology that provides temperature controlled energy delivery which should maintain tissue temperature approximately at 100 degree Celsius
- System should have Advanced RF Energy hand instruments with technology to deliver high compression uniformly across seal area.
- All hand probes for open and lap procedures should be able to simultaneously cut and coagulate tissue.
- Should have USFDA (510(k) clearance for the quoted model.
- System should comprise of the following
 - Hardware
 1. Generator
 2. Footswitch & Cable

Accessories

1. Handpiece (Blue)
 2. Handpiece (Gray)
 3. Generator Cart
 4. Adaptor for ultrasonic energy
- Advance Bipolar Hard Activated probe with 5mm shaft diameter and 35 cm shaft length with 5 mm wide straight jaw design with seal length of 20mm and cut length of 16mm sealing vessel upto and including 7mm through radio frequency energy and having a temperature controlled mechanism within the jaw and having articulation of 110 degree(55 degrees on both sides and capable of 360 degrees rotation - 1 pc
 - Laparoscopic shears 5mm diameter 36cm long. 15mm curved coated blade and a clamp arm with issue pad capable of cutting sealing grasping and coagulating blood vessels up to and including mm in diameter 360 degrees rotation, advance homeostasis hand activation mode for sealing vessels upto 7mm in diameter ergonomic handle compatible with ultrasonic energy source and capable of hand and foot activation with Adaptive Tissue Technology: 1pc
 - Laparoscopic shears 5mm diameter 36cm long, 18mm curved coated blade and a clamp arm with issue pad, capable of cutting sealing grasping and coagulating blood vessels up to and including 7mm in diameter 360 degrees rotation, advance homeostasis hand activation mode for sealing vessels upto 7mm in diameter ergonomic handle compatible with ultrasonic energy source capable of hand and foot activation with an integrated hand piece and transducer 1pc
 - Open shears 5mm diameter 20 cm long, 18mm curved coated blade and a clamp arm with tissue pad capable of cutting sealing grasping and coagulating blood vessels up to and including 7mm in diameter, 360 degrees rotation, advance homeostasis hand activation mode for sealing vessels upto 7mm in diameter ergonomic handle compatible with ultrasonic energy source capable of hand and foot activation with an integrated hand piece and transducer -1 pc
 - Advanced bipolar issue sealer 25 cm long with 5mm shaft diameter, 24 mm Jaw length: 21.8 mm cut length and 13.4 mm Jaw aperture designed for use in open or laparoscopic surgical procedures with curved and tapered tip and uses an advanced algorithm for intelligent and efficient energy delivery Device to have intuitive design with separate Seal and Cut button and 360 degree continuous shaft rotation -1pc
 - Advanced bipolar tissue sealer 37 cm long with 5mm shaft diameter 24 mm Jaw length. 21 8 mm cut length and 134 mm Jaw aperture designed for use in open or laparoscopic surgical procedures with curved and tapered lip and uses an advanced algorithm for intelligent and efficient energy delivery Device to have intuitive design with separate Seal and Cut button and 360 degree continuous shaft rotation- 1pc

S. No	Product Description	
1	Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology with regulated power delivery for improved thermal management & a finer, non-stick coated blade, shaft compatible with 5 mm trocars, 36cm long, capable of sealing blood vessels up to 7 mm in diameter in Advanced hemostasis mode, should have ergonomic handle. From the same OEM make of installed Generator	Each
2	Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology with regulated power delivery for improved thermal management & a finer, non-stick coated blade, shaft diameter 5 mm, 23cm long, capable of sealing blood vessels up to 7 mm in diameter in Advanced hemostasis mode, should have ergonomic handle. From the same OEM make of installed Generator	Each

3	Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology with regulated power delivery for improved thermal management & a finer, non-stick coated blade, shaft compatible with 5 mm trocars, 45cm long, capable of sealing blood vessels up to 7 mm in diameter in Advanced hemostasis mode, should have ergonomic handle. From the same OEM make of installed Generator	Each
4	Hand piece transducer for Harmonic Shears 220v grey lead. From the same OEM make of installed Generator	Each
5	5mm Lap Hand Activated Curved Coagulating Shear capable of sealing blood vessel up to 7mm in diameter with ultrasonic energy, 36 cm in length and 18mm active cutting blade with ergonomic handle with an integrated transducer and two energy delivery buttons. The instrument should have Adaptive Tissue Technology. From the same OEM make of installed Generator	Each
6	5mm Lap Hand Activated Curved Coagulating Shear capable of sealing blood vessel up to 7mm in diameter with ultrasonic energy, 20 cm in length and 18mm active cutting blade with ergonomic handle with an integrated transducer and two energy delivery buttons. The instrument should have Adaptive Tissue Technology. From the same OEM make of installed Generator	Each
7	Hand activated curved taper tip coagulating shear with adaptive tissue technology, with regulated power delivery for improved thermal management & finer, nonstick blade, 240-degree hand activation buttons, 17 cm length, 16 mm active cutting length capable of sealing blood vessels up to 5mm in diameter, with ergonomic symmetrical finger ring grip. From the same OEM make of installed Generator	Each
8	Hand activated curved taper tip coagulating shear with adaptive tissue technology, with regulated power delivery for improved thermal management & finer, nonstick blade, 240-degree hand activation buttons, 9 cm length, 16 mm active cutting length capable of sealing blood vessels up to 5mm in diameter, with ergonomic symmetrical finger ring grip. From the same OEM make of installed Generator	Each
9	Hand piece transducer blue lead for open surgery. From the same OEM make of installed Generator	Each
10	Advance Bipolar electrosurgical instrument with 20mm shaft length and 13mm shaft diameter, intended for use in open surgical procedures where ligation and division of vessels is desired. Should be able to coagulate and transect vessels up to and including 7 mm in diameter, tissue and/or vascular bundles. Should have Adaptive tissue technology. Length of electrode beyond knife should be at least 1mm for better hemostasis. Instrument shaft should rotate 360° to facilitate visualization improve access to targeted tissue. The generator should be able to provide audible feedback tones when using the instrument. From the same OEM make of installed Generator	Each
11	Advance Bipolar electrosurgical instrument with 35cm shaft length, intended for use in laparoscopic surgical procedures where ligation and division of vessels is desired. Should be able to coagulate and transect vessels up to and including 7 mm in diameter, tissue and/or vascular bundles and have articulation on both the sides. From the same	Each

	OEM make of installed Generator	
12	Hand Activated probe with 5mm shaft diameter, 360 degree rotation and 25cm, shaft length with curved /straight jaw and sealing vessel up to 7mm through separate seal and cut buttons functionality through RF energy and having a temperature controlled mechanism through active monitoring of tissue conditions with 360 degree rotation, curved tapered tip with silicone coated jaws.	Each
13	Hand Activated probe with 5mm shaft diameter, 360 degree rotation and, 37cm shaft length with curved / straight jaw and sealing vessel up to 7mm through separate seal and cut buttons functionality through RF energy and having a temperature controlled mechanism through active monitoring of tissue conditions with 360 degree rotation, curved tapered tip with silicone coated jaws.	Each
14	Hand Activated probe with 5mm shaft diameter, 360-degree rotation and and 45cm shaft length with curved jaw and sealing vessel up to 7mm through separate seal and cut buttons functionality through RF energy and having a temperature controlled mechanism through active monitoring of tissue conditions with 360 degree rotation, curved tapered tip with silicone coated jaws.	Each

29. **Gamma Probe detection system**

Technical Specifications for Gamma Probe Detection System

Sr. No.	Technical specifications for Gamma Probe Detection System
1	Portable and compact system for Sentinel node detection
2	Easy to use with intuitive control functions.
3	The wireless probe should have instant power on feature and usable without calibration
4	The main unit must work preferably on battery for better mobility with a extended battery life of more than 10 hours of continuous use
5	Anti-glare display with high visibility's LED indicator shown counts or second.
6	Probe should have high sensitivity with internal collimation and shielding.
7	Ten second count display for displaying anaccumulated event over a period of 10 second.
8	Threshold control for eliminating the scatter from background structures. In cases when the activity is unusually low threshold can be turned OFF manually.
9	Customizable audible range in - 1X, 10X, 100X for instantaneous feedback for rapid and precise localization of targeted tissues.
10	Compatible with various isotopes 1125,511KEV,1131, IN111, TC99, FDG18.
11	Option of Co-Pilot device for hand control and easv snap on connection to the probe.
12	Provision of RS232 data Port for connection to computer for transfer of data.
13	Green LED battery Indicator to Indicate battery life.
14	System should be compatible with both wired and wireless probes.
15	Probes should be made of stainless steel only.
16	For wired probes the wire should be detachable for longer probe life.
17	Following Probes should be supplied with detachable wire.

	A) Superficial head and neck probe for small Incision applications straight 11MM TIP
	B) VATS probe for MIS pulmonary procedures angled 10 MM TIP
	C) LaparoscopicProbe straight 10 mm tip
	D) 14mm straightstandard Probe.
	E) 14mm standard angled Probe.
18	Weigh should be light weight -desirable weight of the control unit less than 2ka.
19	Control unit power source replaceable power pack. Energy range:0-650KEV.
20	Maximum count rate 90,000/second.
21	Power pak Batterv type 10.8V Li-Ionbattery life indicator.
22	Storage Conditions: -15°C to 40°C10%-80% relative humidity.
23	Firm should have service backup
24	Equipment should be US-FDA/European CE approved
25	5 Years warranty and 5 Years CAMC.

30. Fluorescence definition camera system

Technical Specification for Fluorescence Definition Camera system for Open Surgery

ALL ITEMS FROM SERIAL NO: 1-5 SHOULD BE FROM A SINGLE MANUFACTURER / SAME MAKE OR MARKETED BY THE SAME COMPANY WITH US FDA CERTIFIED & EUROPEAN CE CERTIFIED FROM NOTIFIED BODY.

ICG Dye, Drapes & Trolley/Endocart (Indian) Can be of any make with quality standards.

1- Video Processor and Illuminator (VPI) – 01 unit

- The VPI shall be able to provide the VIS (visible) and NIR (near-infrared) illumination to the surgical endoscope via a flexible light guide simultaneously
- The VIS light source shall be consisted of light emitting diode array
- The NIR light source shall be consisted of NIR laser diode array
- The VPI shall be able to generate simultaneous real-time HD video color and ICG fluorescence images as an overlay in the same image
- NIR light source shall be triggered by the button on the camera
- Video output signals: 2 HD-SDI, 1 DVI
- Output HD format: 1080i59.94, 1080p59.94
- Picture elements: 1920 x 1080
- The device shall be able to generate and display 4 different modes of images on the monitor simultaneously: White Light mode, Black and White Fluorescence mode , NIR and VIS overlay mode, Color-segmented Fluorescence mode
- Should comply with below safety standards:
 - Electrical safety:According to IEC 60601-1
 - Type of protection against electric shocks: Class I
 - Degree of protection against electric shocks: CF-type
 - Laser class: 3R (According to IEC/EN 60825-1, Complies with 21CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007
 - Radio frequency emission: Group 1, Class A (According to CISPR 11/EN 55011)
 - Harmonic emissions: Class A (According to IEC/EN 61000-3-2)
 - Embedded Laser Source Classification: Class 4

- Accessible NIR radiation Should be
 - Embedded Laser Source Classification: Class 4
 - Repetition rate: 20 pulse/ sec
 - Energy output(maximum): 2 mJ/pulse
 - Beam divergence: 75°+- 5°
 - Wavelength: 805nm

2- Full HD Portable Handheld Imager – 01 unit

- Image Sensors: CMOS HD sensor assembly
- Resolution: 1080P
- Frame rate: 60fps
- Working distance: 10 - 40cm
- Aspect ratio: 16:9 which can display captured images in widescreen monitor without any signal conversion
- The imager should have twin anamorphic illumination ports to visually define FOV extent for the operator and ensure adequate illumination of anatomy irrespective of lighting conditions.
- The imager should be immune to ambient room lighting, which means room lights can be turned on during imaging
- The imager has to be supplied with bed-mount arm to avoid fatigue of operator for long-term procedures.
- The imager has to be supplied with sterile drape so that it can be placed in the surgical field without contamination.
- The imager shall have five buttons for quick functions and setting purpose
 - Two focus buttons for focusing the image
 - A button to toggle between VIS and NIR
 - A button to toggle between different modes of NIR
 - A button to call for menu functions
 - Basic functions including turning camera light on and off, white balance, screen capture and recording can be done using the buttons on the camera
- Drapes for hand held imager: 50 Nos.

3- High Resolution Medical Grade Monitor- 01 unit

- 26 Inch LED surgical display
- Resolution of 1920 x 1080
- Should have DVI, and HDMI inputs
- Aspect Ratio 16:9
- Should meet European CE or USA FDA approval standards

4- Articulating Arm - 01 unit

- This arm is used to hold and position the camera head as per the surgical requirements
- This product has three components: the table clamp, the main arm and the imaging head holder
- The table clamp Provides an attachment point to the operating table side rail. Accepts and holds the column of the main arm in position and allows for full range of rotation.
- The Main Arm provides three-point positioning of the imaging head into the surgical field
- The imaging head holder Connects to the distal end of the main arm to provide an attachment point for the imaging head
- The arm is made up of metal with and has the ability to be sterilized for reuse through autoclaving

Quantification

VPI of the system that enables relative quantification of nearinfrared (NIR) fluorescence. should be able to detect the onset and stability of the fluorescence signal within the field of view and displays fluorescence signal intensity as

- Percentage value relative to a reference set by the user
- Its user interface has following details on the screen:

Quantification box ,Stability time stamp ,Relative value ,Timer

- State indicator: Following should be provided
- Onset of fluorescence
- Fluorescence stability
- Fluorescence imaging mode icon
- Reference timestamp

When active, replaces the CSF mode with color maps mode. The colour maps mode displays the

- visual reference of the fluorescence signal with following features:
- There should be a legend when viewing colour maps display mode.
- After reference is set or reset the colour maps it should be able to adjust the scale to be relative to the reference
- The stability state indicator and timestamp display if the system confirms the fluorescence stability.
- The quantification box should display in the middle of the screen and a reference value should beset using the region of interest in the quantification box.

At 15 minutes from the first onset of fluorescence the state indicator, timestamps, timer andreference value should be automatically reset and the system should be ready to detect thesecondonset when the VPI is kept on standby.

5- HD Image and Video Management System (Shall be of same make /manufacturer /marketed by the same company.

Should have touch screen/ touch buttons on conrol, resolution should be 1920 x 1080p, internal capacity of 500 GB minimum, should be compatible with above camera asked & it should give HD 1920X1080 resolution on still and videos in full HD resolution, provision of using USB

The above-mentioned systems should be provided with below mentioned accessories (Indian with good quality standard:

1- Aluminum Sterilization tray - 01 unit (Indian)

- Tray for Camera & Light guide Cable

2- ICG (Indocyanine Green): 50 Voiles/Bottles

- ICG contains not more than 5.0% sodium iodide
- ICG is a sterile, water soluble, tri carbocyanine dye with a peak spectral absorlasma or blood at 800-810nm of near infrared light range

3- - Trolley / Endo Cart with four wheels for keeping the above unit with safety. (Indian)

31. Surgical Instruments

Specifications for Surgical Instruments

1. The data tabulated pertains to instruments pertaining to one set only for increasing the number of sets the individual instruments should be added up accordingly.
2. All instruments should be of international quality & made from surgical grade stainless steel with carbon bonding on it.
3. All instruments should preferably have Tungsten Carbide Inserts/Carbon Inserts in Jaws.
4. The Instruments must be vacuum-hardened, in order to receive the necessary hardness, tenacity and corrosion resistant Supporting test reports/certificates must be furnished.
5. The Instruments should have a certificate of Primary passivation process.
6. Every instrument has to be delivered with an artificial passivation in form of a chromium oxide layer, to support the natural mutation of this layer from the beginning. to make every instrument more corrosion resistant. This passivation process must be executed according ASTM A967.
7. The instrument steel should comply with EN 150 7153 standard for stainless steel use for surgical instruments and 150 13402 standards Surgical hand instruments- Determination of resistance against autoclaving, corrosion and thermal exposure. Necessary certificate should be furnished.
8. The hinges should be rust proof.
9. The instruments should be guaranteed against metal fatigue and rust.
10. The instruments surface should be non-reflective.
11. The instruments should carry US FDA or European CE with four digit notified number.
12. The instrument will be compared on individual basis.
13. The brand name along with catalogue number should be attached on the instruments.
14. Material used in scissors should be alloy of Titanium & Stainless steel/ Tungsten carbide resulting in superior corrosion resistance and precise cutting with durable cutting.
15. Instruments should have at least 5 years warranty against manufacturing defect.
16. All instruments should have catalogue number embossed on them.
17. The company must have their service centre in India and the regional service support.
18. The firm will have to demonstrate the instruments if required.
19. All instruments quoted should be from same manufacturer with International quality standards with maximum 5 % variation in sizes may be allowed.
20. All surgical Instrument sets should be from same country of origin and from same manufacturer.
21. All instruments and equipment's must be of high grade medical quality stainless steel, reflection free (matte finish), lightweight, and user friendly (both for application & comfortable use) unless otherwise specified, in anti-glare style finishing, if the used material and the construction of the instrument will allow it. The matting shouldn't be affected in an electro plating process.
22. Surgical Instruments should have following certifications:
 - US FDA or European CE with four digit notified body

- DIN Certificate
 - ISO 9001: 2015
 - EN ISO 13485:2016
 - EN ISO 7153
23. Instruments should be supplied with Sterilization containers for storage as well as for sterilization purpose, same container should be autoclavable along with instruments.
 24. The containers should meet International standards and approved for steam sterilization procedures to EN 285: 2008 and validated according to ISO17665.
 25. The sterilization container lid made of high performance plastic-PPSU.
 26. The sterilization container should be resistant to permanent deformation.
 27. The sterilization container should be light weighted and scratch proof.
 28. The sterilization container bottom made of high quality aluminium.
 29. The sterilization container should have carrying handles with 90degree arrester made of fibre glass reinforced PEEK that prevents jamming of the hands with 90 degree arrester.
 30. The sterilization container handle should have low heat conductivity and heat storage properties (burning of hands).
 31. The sterilization container should have frontal accommodation field for labels and colour tags.
 32. The lid of the sterilization container should have microbial barrier filter to resist the passage of microbes.
 33. The microbial barrier filter should be reusable and easily accessible during manual and mechanical cleaning.
 34. The sterilization container lid should have silicone lip gasket with functional safety design which provides hygienically perfect smooth surface and no cavities for particles/ germs.
 35. The locking system of the sterilization container should have hinge-less opening button.
 36. The sterilization container should have red/ green indicator- during the sterilization cycle the indicator turns to green, as soon as the opening button is pushed the indicator turns to red.
 37. The surgical instruments and sterilization containers should be from same manufacturer (no third party product will be accepted).
 38. The sterilization containers must have following certifications:
 - DIN 58953-9
 - ISO 17665-1
 - ISO 11607
 - EN 868
 - US FDA or European CE with four digit notified body

Note: The L1 of the Instruments shall be ascertained as per the cumulative rates on complete set basis. No individual (instrument) L1 rates shall be considered. The bidders have to quote minimum 95% of the instruments for qualification in the complete set.

S.No	Specifications for General Surgical Instruments for Cancer Institute	Qty.	Weight (g)
B. General Set			
1	DOYEN-COLLIN Mouth Gag, 120 mm (4 3/4"), non-sterile, reusable	Each	90
2	FERGUSON-ACKLAND Mouth Gag, 145 mm (5 3/4"), non-sterile, reusable	Each	131
3	HARTMANN Tongue Depressor, 150 mm (6"), fenestrated, non-sterile, reusable	Each	69
4	MIDDELDORPF Retractor, 215 mm (8 1/2"), open, fenestrated, depth: 20 mm, width: 22 mm, non-sterile, reusable	Each	84
5	LISTON Bone Cutting Forceps, straight, 220 mm (8 3/4"), non-sterile, reusable	Each	263

6	LUER Bone Rongeur, straight, 175 mm (7")	Each	173
7	BONE RONGEUR STRONG CVD 180MM	Each	
8	Osteotome, 6 mm, 140 mm, 5 1/2"	Each	50
9	STILLE Osteotome, curved, 10 mm, 205 mm, 8"	Each	113
10	FARABEUF Raspatory, curved, 145 mm (5 3/4"), sharp, width: 12,500 mm, non-sterile, reusable	Each	100
11	Mallet, 165 mm (6 1/2"), diam. 22,50 mm, stainless steel, 80 g	Each	162
12	GIGLI Hook handle for saw	Each	21
13	JOSEPH Bone Rasp, straight, 165 mm (6 1/2"), serrated (cross), width: 7,50 mm	Each	73
14	LONDON HOSPITAL COLEMAN Root Elevator, straight, cross serrated handle, non-sterile, reusable	Each	49
15	SELDIN Root Elevator, non-sterile, reusable	Each	62
16	ANATOMICA Tooth Forceps, Fig. 73, non-sterile, reusable	Each	167
17	ANATOMICA Tooth Forceps, Fig. 2, non-sterile, reusable	Each	151
18	Scalpel Handle, 125 mm (5"), No. 3, non-sterile, reusable	Each	28
19	Scalpel Handle, 135 mm (5 1/4"), No. 4, non-sterile, reusable	Each	29
20	Scalpel Handle, 160 mm (6 1/4"), No. 7, non-sterile, reusable	Each	22
21	SEMKEN Tissue Forceps, straight, 150 mm (6"), delicate, toothed (1x2), non-sterile, reusable	Each	22
22	Tissue Forceps, standard, straight, 160 mm (6 1/4"), standard, toothed (1x2), non-sterile, reusable	Each	34
23	Tissue Forceps, standard, straight, 200 mm (7 7/8"), standard, toothed (1x2), non-sterile, reusable	Each	54
24	CUSHING Dressing Forceps (Tweezers), straight, 200 mm (7 7/8"), delicate, serrated, non-sterile, reusable	Each	51
25	CUSHING Dressing Forceps (Tweezers), straight, 250 mm (9 3/4"), delicate, serrated, non-sterile, reusable	Each	54
26	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing DE BAKEY, width: 2 mm, non-sterile, reusable	Each	52
27	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing DE BAKEY, width: 2,800 mm, non-sterile, reusable	Each	29
28	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing DE BAKEY, width: 2,800 mm, non-sterile, reusable	Each	55

29	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 240 mm (9 1/2"), toothed DE BAKEY, width: 2,800 mm, non-sterile, reusable	Each	61
30	BACKHAUS Towel Clamp, curved, 90 mm (3 1/2"), sharp, non-sterile, reusable	Each	17
31	BACKHAUS Towel Clamp, curved, 110 mm (4 1/4"), sharp, non-sterile, reusable	Each	23
32	DOYEN Towel Clamp, straight, 180 mm (7"), toothed (2x2), sharp, ring handle, non-sterile, reusable	Each	55
33	DUROTIP Suture Scissors, curved, TC: yes, wave cut, blunt/blunt, 180 mm (7")	Each	46
34	STRULLY Vascular Scissors, curved, sharp/sharp, 220 mm (8 3/4")	Each	121
35	MAYO DUROTIP Dissecting Scissors, curved, TC: yes, heavy pattern, rounded blades, blunt/blunt, 170 mm (6 3/4")	Each	66
36	METZENBAUM DUROTIP Dissecting Scissors, curved, TC: yes, delicate pattern, blunt/blunt, 180 mm (7")	Each	42
37	METZENBAUM DUROTIP Dissecting Scissors, curved, TC: yes, delicate pattern, blunt/blunt, 230 mm (9")	Each	77
38	CRILE-WOOD DUROTIP TC Needleholder, straight, 185 mm (7 1/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	45
39	HEGAR-MAYO DUROGRIP TC Needleholder, straight, 185 mm (7 1/4"), with 0.5 mm pitch of serration, suture up to 3/0, non-sterile, reusable	Each	49
40	HEGAR-MAYO DUROTIP TC Needleholder, straight, 235 mm (9 1/4"), with 0.5 mm pitch of serration, suture up to 3/0, non-sterile, reusable	Each	71
41	DE BAKEY DUROTIP TC Needleholder, straight, 180 mm (7"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	40
42	DE BAKEY DUROTIP TC Needleholder, straight, 230 mm (9"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	57
43	ALLIS Intestinal Grasping Forceps, straight, 155 mm (6"), toothed (3x4), non-sterile, reusable	Each	28
44	ALLIS Intestinal Grasping Forceps, straight, 190 mm (7 1/2"), slender pattern, toothed (5x6), non-sterile, reusable	Each	40
45	Intestinal Grasping Forceps, straight, 175 mm (6 7/8"), width: 8 mm, non-sterile, reusable	Each	39
46	BABCOCK Intestinal Grasping Forceps, straight, 215 mm (8 1/2"), width: 10 mm, non-sterile, reusable	Each	57
47	OVERHOLT Dissecting Forceps, curved, 215 mm (8 1/2"), delicate, Fig. 0, non-sterile, reusable	Each	47

48	GEMINI Dissecting Forceps, angled right, 140 mm (5 1/2"), non-sterile, reusable	Each	25
49	GEMINI Dissecting Forceps, angled right, 180 mm (7"), non-sterile, reusable	Each	39
50	GEMINI Dissecting Forceps, angled right, 200 mm (7 7/8"), non-sterile, reusable	Each	54
51	GEMINI Dissecting Forceps, angled right, 230 mm (9"), non-sterile, reusable	Each	67
52	GEMINI Dissecting Forceps, angled right, 280 mm (11"), non-sterile, reusable	Each	92
53	HALSTED (MOSQUITO) Hemostatic Forceps, straight, 125 mm (5"), delicate, non-sterile, reusable	Each	20
54	HALSTED (MOSQUITO) Hemostatic Forceps, curved, 125 mm (5"), delicate, non-sterile, reusable	Each	21
55	CRILE Hemostatic Forceps, straight, 160 mm (6 1/4"), delicate, blunt, non-sterile, reusable	Each	33
56	CRILE Hemostatic Forceps, curved, 160 mm (6 1/4"), delicate, blunt, non-sterile, reusable	Each	34
57	KELLY Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each	29
58	FRASER-KELLY (CRILE) Hemostatic Forceps, curved, 180 mm (7"), delicate, blunt, non-sterile, reusable	Each	47
59	GROSS Dressing Forceps, straight, 200 mm (7 7/8"), serrated, box lock, with ratchet, non-sterile, reusable	Each	60
60	GROSS Dressing Forceps, curved, 200 mm (7 7/8"), serrated, box lock, with ratchet, non-sterile, reusable	Each	61
61	LANE Towel Clamp, straight, 155 mm (6"), toothed (1x2), sharp, non-sterile, reusable	Each	49
62	LERICHE Hemostatic Forceps, straight, 150 mm (6"), delicate, toothed (1x2), non-sterile, reusable	Each	25
63	LERICHE Hemostatic Forceps, curved, 150 mm (6"), delicate, toothed (1x2), non-sterile, reusable	Each	26
64	PARKER Wound Retractor, 135 mm (5 1/4"), double ended, 18 x 15 mm, 22 x 15 mm, 18 x 15 mm, 22 x 15 mm, non-sterile, reusable, Set of 2	Each	81
65	FARABEUF Wound Retractor, 150 mm (6"), double ended, large, 20 x 16 mm, 23 x 16 mm, 24 x 16 mm, 28 x 16 mm, non-sterile, reusable, Set of 2	Each	97
66	KOCHER Retractor, 205 mm (8"), open, depth: 20 mm, width: 12 mm, non-sterile, reusable	Each	76

67	DESMARRES Lid Retractor, 140 mm (5 1/2"), depth: 9 mm, width: 12 mm, non-sterile, reusable	Each	20
68	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 28 mm, width: 10 mm, non-sterile, reusable	Each	79
69	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 33 mm, width: 14 mm, non-sterile, reusable	Each	80
70	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 40 mm, width: 10 mm, non-sterile, reusable	Each	85
71	KOCHER-LANGENBECK Retractor, 215 mm (8 1/2"), depth: 55 mm, width: 11 mm, non-sterile, reusable	Each	89
72	CZERNY Wound Retractor (Double Ended), 175 mm (7"), s-shaped, 38 x 22 mm, 38 x 22 mm, non-sterile, reusable	Each	69
73	DEAVER Retractor, 300 mm (11 3/4"), Fig. 1, width: 25 mm, non-sterile, reusable	Each	109
74	DEAVER Retractor, 300 mm (11 3/4"), Fig. 3, width: 38 mm, non-sterile, reusable	Each	198
75	KELLY Abdominal Wall Retractor, 265 mm (10 1/4"), depth: 150 mm, width: 39 mm, non-sterile, reusable	Each	258
76	KELLY Abdominal Wall Retractor, 260 mm (10 1/4"), depth: 155 mm, width: 57 mm, non-sterile, reusable	Each	330
77	ST. MARKS Pelvis Retractor, 290 mm (11 1/2"), depth: 124 mm, width: 60 mm, non-sterile, reusable	Each	253
78	DOYEN Abdominal Wall Retractor, 250 mm (9 3/4"), depth: 53 mm, width: 80 mm, non-sterile, reusable	Each	235
79	DOYEN Intestinal Clamp, straight, 240 mm (9 1/2"), soft and elastic, non-sterile, reusable	Each	66
80	DOYEN Intestinal Clamp, curved, 240 mm (9 1/2"), soft and elastic, non-sterile, reusable	Each	63
81	BIPOLAR CABLE 28.6MM	Each	148
82	Bipolar Forceps, straight, 185 mm (7 1/4"), sintram tips, non-sticking, width: 0,90 mm	Each	127
83	Bipolar Forceps, straight, 200 mm (8"), sintram tips, non-sticking, width: 0,90 mm	Each	129

NO	Specifications for General Surgical Instruments for Cancer Institute	QTY
B. BIG GENERAL SET		
1	Scalpel Handle, 125 mm (5"), No. 3, non-sterile, reusable	Each

2	Scalpel Handle, 135 mm (5 1/4"), No. 4, non-sterile, reusable	Each
3	Scalpel Handle, 160 mm (6 1/4"), No. 7, non-sterile, reusable	Each
4	SEMKEN Tissue Forceps, straight, 150 mm (6"), delicate, toothed (1x2), non-sterile, reusable	Each
5	Tissue Forceps, standard, straight, 160 mm (6 1/4"), standard, toothed (1x2), non-sterile, reusable	Each
6	Tissue Forceps, standard, straight, 200 mm (7 7/8"), standard, toothed (1x2), non-sterile, reusable	Each
7	CUSHING Dressing Forceps (Tweezers), straight, 200 mm (7 7/8"), delicate, serrated, non-sterile, reusable	Each
8	CUSHING Dressing Forceps (Tweezers), straight, 250 mm (9 3/4"), delicate, serrated, non-sterile, reusable	Each
9	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing DE BAKEY, width: 2 mm, non-sterile, reusable	Each
10	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing DE BAKEY, width: 2,800 mm, non-sterile, reusable	Each
11	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing DE BAKEY, width: 2,800 mm, non-sterile, reusable	Each
12	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 240 mm (9 1/2"), toothing DE BAKEY, width: 2,800 mm, non-sterile, reusable	Each
13	BACKHAUS Towel Clamp, curved, 90 mm (3 1/2"), sharp, non-sterile, reusable	Each
14	BACKHAUS Towel Clamp, curved, 110 mm (4 1/4"), sharp, non-sterile, reusable	Each
15	DOYEN Towel Clamp, straight, 180 mm (7"), toothed (2x2), sharp, ring handle, non-sterile, reusable	Each
16	CARBIDE TIP Suture Scissors, curved, TC: yes, wave cut, blunt/blunt, 180 mm (7")	Each
17	STRULLY Vascular Scissors, curved, sharp/sharp, 220 mm (8 3/4")	Each
18	MAYO CARBIDE TIP Dissecting Scissors, curved, TC: yes, heavy pattern, rounded blades, blunt/blunt, 170 mm (6 3/4")	Each
19	METZENBAUM CARBIDE TIP Dissecting Scissors, curved, TC: yes, delicate pattern, blunt/blunt, 180 mm (7")	Each
20	METZENBAUM CARBIDE TIP Dissecting Scissors, curved, TC: yes, delicate pattern, blunt/blunt, 230 mm (9")	Each
21	CRILE-WOOD CARBIDE GRIP TC Needleholder, straight, 185 mm (7 1/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each
22	HEGAR-MAYO CARBIDE GRIP TC Needleholder, straight, 185 mm (7 1/4"), with 0.5 mm pitch of serration, suture up to 3/0, non-sterile, reusable	Each
23	HEGAR-MAYO CARBIDE GRIP TC Needleholder, straight, 235 mm (9 1/4"), with 0.5 mm pitch of serration, suture up to 3/0, non-sterile, reusable	Each
24	DE BAKEY CARBIDE GRIP TC Needleholder, straight, 180 mm (7"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each

25	DE BAKEY CARBIDE GRIP TC Needleholder, straight, 230 mm (9"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each
26	ALLIS Intestinal Grasping Forceps, straight, 155 mm (6"), toothed (3x4), non-sterile, reusable	Each
27	ALLIS Intestinal Grasping Forceps, straight, 190 mm (7 1/2"), slender pattern, toothed (5x6), non-sterile, reusable	Each
28	Intestinal Grasping Forceps, straight, 175 mm (6 7/8"), width: 8 mm, non-sterile, reusable	Each
29	BABCOCK Intestinal Grasping Forceps, straight, 215 mm (8 1/2"), width: 10 mm, non-sterile, reusable	Each
30	OVERHOLT Dissecting Forceps, curved, 215 mm (8 1/2"), delicate, Fig. 0, non-sterile, reusable	Each
31	GEMINI Dissecting Forceps, angled right, 140 mm (5 1/2"), non-sterile, reusable	Each
32	GEMINI Dissecting Forceps, angled right, 180 mm (7"), non-sterile, reusable	Each
33	GEMINI Dissecting Forceps, angled right, 200 mm (7 7/8"), non-sterile, reusable	Each
34	GEMINI Dissecting Forceps, angled right, 230 mm (9"), non-sterile, reusable	Each
35	GEMINI Dissecting Forceps, angled right, 280 mm (11"), non-sterile, reusable	Each
36	HALSTED (MOSQUITO) Hemostatic Forceps, straight, 125 mm (5"), delicate, non-sterile, reusable	Each
37	HALSTED (MOSQUITO) Hemostatic Forceps, curved, 125 mm (5"), delicate, non-sterile, reusable	Each
38	CRILE Hemostatic Forceps, straight, 160 mm (6 1/4"), delicate, blunt, non-sterile, reusable	Each
39	CRILE Hemostatic Forceps, curved, 160 mm (6 1/4"), delicate, blunt, non-sterile, reusable	Each
40	KELLY Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each
41	FRASER-KELLY (CRILE) Hemostatic Forceps, curved, 180 mm (7"), delicate, blunt, non-sterile, reusable	Each
42	GROSS Dressing Forceps, straight, 200 mm (7 7/8"), serrated, box lock, with ratchet, non-sterile, reusable	Each
43	GROSS Dressing Forceps, curved, 200 mm (7 7/8"), serrated, box lock, with ratchet, non-sterile, reusable	Each
44	LANE Towel Clamp, straight, 155 mm (6"), toothed (1x2), sharp, non-sterile, reusable	Each
45	LERICHE Hemostatic Forceps, straight, 150 mm (6"), delicate, toothed (1x2), non-sterile, reusable	Each
46	LERICHE Hemostatic Forceps, curved, 150 mm (6"), delicate, toothed (1x2), non-sterile, reusable	Each

47	PARKER Wound Retractor, 135 mm (5 1/4"), double ended, 18 x 15 mm, 22 x 15 mm, 18 x 15 mm, 22 x 15 mm, non-sterile, reusable, Set of 2	Each
48	FARABEUF Wound Retractor, 150 mm (6"), double ended, large, 20 x 16 mm, 23 x 16 mm, 24 x 16 mm, 28 x 16 mm, non-sterile, reusable, Set of 2	Each
49	KOCHER Retractor, 205 mm (8"), open, depth: 20 mm, width: 12 mm, non-sterile, reusable	Each
50	DESMARRES Lid Retractor, 140 mm (5 1/2"), depth: 9 mm, width: 12 mm, non-sterile, reusable	Each
51	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 28 mm, width: 10 mm, non-sterile, reusable	Each
52	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 33 mm, width: 14 mm, non-sterile, reusable	Each
53	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 40 mm, width: 10 mm, non-sterile, reusable	Each
54	KOCHER-LANGENBECK Retractor, 215 mm (8 1/2"), depth: 55 mm, width: 11 mm, non-sterile, reusable	Each
55	CZERNY Wound Retractor (Double Ended), 175 mm (7"), s-shaped, 38 x 22 mm, 38 x 22 mm, non-sterile, reusable	Each
56	DEAVER Retractor, 300 mm (11 3/4"), Fig. 1, width: 25 mm, non-sterile, reusable	Each
57	DEAVER Retractor, 300 mm (11 3/4"), Fig. 3, width: 38 mm, non-sterile, reusable	Each
58	KELLY Abdominal Wall Retractor, 265 mm (10 1/4"), depth: 150 mm, width: 39 mm, non-sterile, reusable	Each
59	KELLY Abdominal Wall Retractor, 260 mm (10 1/4"), depth: 155 mm, width: 57 mm, non-sterile, reusable	Each
60	ST. MARKS Pelvis Retractor, 290 mm (11 1/2"), depth: 124 mm, width: 60 mm, non-sterile, reusable	Each
61	BIPOLAR CABLE 28.6MM	Each
62	Bipolar Forceps, straight, 185 mm (7 1/4"), sintram tips, non-sticking, width: 0,90 mm	Each
63	Bipolar Forceps, straight, 200 mm (8"), sintram tips, non-sticking, width: 0,90 mm	Each
64	BIPOL.FORCEPS CABLE 28.6 MM	Each
65	BIPOL.FORCEPS AAG FL.STR.0.9MM 185MM	Each
66	BIPOL.FORCEPS AAG FL.STR.0.9MM 200MM	Each

S.No	Description / Comment	Qty.
	C. GENERAL MAJOR BASIC SURGERY SET	
1	FOERSTER-BALLENGER Sponge Forceps, straight, 245 mm (9 5/8"), oval, serrated, fenestrated, box lock, with ratchet, non-sterile, reusable	Each
2	Towel Clamp, curved, 115 mm (4 1/2"), non perforating, blunt, non-sterile, reusable	Each

3	Scalpel Handle, 135 mm (5 1/4"), No. 4, non-sterile, reusable	Each
4	Scalpel Handle, 125 mm (5"), No. 3, non-sterile, reusable	Each
5	METZENBAUM CARBIDETIP Dissecting Scissors, curved, TC: yes, blunt/blunt, 145 mm (5 3/4")	Each
6	METZENBAUM CARBIDETIP Dissecting Scissors, curved, TC: yes, blunt/blunt, 200 mm (7 7/8")	Each
7	CARBIDETIP Suture Scissors, curved, TC: yes, wave cut, blunt/blunt, 180 mm (7")	Each
8	MAYO CARBIDETIP Dissecting Scissors, curved, TC: yes, heavy pattern, blunt/blunt, 170 mm (6 3/4")	Each
9	Surgical Scissors, straight, standard, sharp/blunt, 145 mm (5 3/4")	Each
10	Tissue Forceps, standard, straight, 145 mm (5 3/4"), standard, toothed (1x2), non-sterile, reusable	Each
11	Tissue Forceps, standard, straight, 200 mm (7 7/8"), standard, toothed (1x2), non-sterile, reusable	Each
12	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing DE BAKEY, width: 2 mm, non-sterile, reusable	Each
13	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing DE BAKEY, width: 2,800 mm, non-sterile, reusable	Each
14	KOCHER Hemostatic Forceps, straight, 140 mm (5 1/2"), toothed (1x2), non-sterile, reusable	Each
15	HALSTED (MOSQUITO) Hemostatic Forceps, curved, 125 mm (5"), delicate, non-sterile, reusable	Each
16	CRILE Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each
17	HALSTED Hemostatic Forceps, curved, 185 mm (7 1/4"), delicate, blunt, non-sterile, reusable	Each
18	KOCHER-OCHSNER Hemostatic Forceps, straight, 200 mm (7 7/8"), toothed (1x2), non-sterile, reusable	Each
19	MIKULICZ Peritoneum Forceps, curved, 200 mm (7 7/8"), toothed (1x2), non-sterile, reusable	Each
20	OVERHOLT-GEISSENDOERFER Dissecting a. Ligature Forceps, curved, 220 mm (8 3/4"), Fig. 2, non-sterile, reusable	Each
21	MIXTER (BABY) Dissecting Forceps, strongly curved, 180 mm (7"), non-sterile, reusable	Each
22	BABCOCK Intestinal Grasping Forceps, straight, 155 mm (6 1/8"), non-sterile, reusable	Each
23	ALLIS ATRAUMATA Grasping Forceps, straight, 160 mm (6 1/4"), toothing DE BAKEY, width: 6,200 mm, non-sterile, reusable	Each
24	CRILE-WOOD CARBIDEGRIP TC Needleholder, straight, 145 mm (5 3/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each
25	HEGAR-MAYO CARBIDEGRIP TC Needleholder, straight, 205 mm (8"), with 0.5 mm pitch of serration, suture up to 3/0, non-sterile, reusable	Each
26	DE BAKEY CARBIDEGRIP TC Needleholder, straight, 180 mm (7"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each
27	KOCHER-LANGENBECK Retractor, 215 mm (8 1/2"), depth: 55 mm, width: 11 mm, non-sterile, reusable	Each
28	VOLKMANN Wound Retractor (With Prong), 220 mm (8 3/4"), 4 prongs, semi-sharp, depth: 8,500 mm, width: 19 mm, non-sterile, reusable	Each
29	SENN-MILLER Wound Retractor (With Prong), 165 mm (6 1/2"), 1 side sharp/1 side blunt, 3 prongs, sharp, 8 x 7 mm, 18 x 5,5 mm, non-sterile, reusable	Each
30	PATTERN US-ARMY Wound Retractor, 220 mm (8 3/4"), double ended, 22 x 15 mm, 26 x 15 mm, 39 x 15 mm, 43 x 15 mm, non-sterile, reusable, Set of 2	Each
31	CUSHING Vein Retractor, 205 mm (8"), depth: 10 mm, width: 13 mm, non-sterile, reusable	Each

32	NELATON Director, curved, 160 mm (6 1/4")	Each
33	Probe With Eye, straight, 145 mm (5 3/4"), diam. 2,50 mm	Each
34	Round Bowl, 95 mm, height: 41 mm, 0,16 l	Each
35	Kidney Tray, 250 mm (10"), stainless steel	Each
36	SUPPLEMENT GASTROINTESTINAL/GALLBLADDER	Each
37	Scalpel Handle, 210 mm (8 1/4"), long pattern, No. 3 L, non-sterile, reusable	Each
38	Scalpel Handle, 215 mm (8 1/2"), No. 4 L, non-sterile, reusable	Each
39	CARBIDETIP Suture Scissors, curved, TC: yes, wave cut, blunt/blunt, 230 mm (9")	Each
40	NELSON-METZENBAUM CARBIDETIP Dissecting Scissors, curved, TC: yes, blunt/blunt, 260 mm (10 1/4")	Each
41	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 240 mm (9 1/2"), toothed DE BAKEY, width: 2 mm, non-sterile, reusable	Each
42	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 240 mm (9 1/2"), toothed DE BAKEY, width: 3,500 mm, non-sterile, reusable	Each
43	MIXTER Dissecting a. Ligature Forceps, angled right, 230 mm (9"), non-sterile, reusable	Each
44	BENGOLEA Hemostatic Forceps, curved, 245 mm (9 5/8"), delicate, blunt, non-sterile, reusable	Each
45	KOCHER-OCHSNER Hemostatic Forceps, straight, 240 mm (9 1/2"), toothed (1x2), non-sterile, reusable	Each
46	DOYEN ATRAUMATA Intestinal Clamp, curved, 230 mm (9"), soft and elastic, toothed DE BAKEY, non-sterile, reusable	Each
47	FOERSTER-BALLENGER Sponge Forceps, curved, 245 mm (9 5/8"), oval, serrated, fenestrated, box lock, with ratchet, non-sterile, reusable	Each
48	BABCOCK ATRAUMATA Grasping Forceps, straight, 215 mm (8 1/2"), toothed DE BAKEY, width: 10 mm, non-sterile, reusable	Each
49	ALLIS ATRAUMATA Grasping Forceps, straight, 200 mm (7 7/8"), very delicate, toothed DE BAKEY, width: 7 mm, non-sterile, reusable	Each
50	HEGAR-MAYO CARBIDEGRIP TC Needleholder, straight, 235 mm (9 1/4"), with 0.5 mm pitch of serration, suture up to 3/0, non-sterile, reusable	Each
51	DE BAKEY CARBIDEGRIP TC Needleholder, straight, 260 mm (10 1/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each
52	HOLLOW GUIDE PROBE PEEK CVD 8MM 185MM	Each
53	RIBBON Abdominal/Intestinal Spatula, 330 mm (13"), malleable, width: 40 mm, non-sterile, reusable	Each
54	DEAVER Retractor, 300 mm (11 3/4"), Fig. 1, width: 25 mm, non-sterile, reusable	Each
55	DEAVER Retractor, 300 mm (11 3/4"), Fig. 3, width: 38 mm, non-sterile, reusable	Each
56	DEAVER Retractor, 310 mm (12 1/4"), Fig. 4, width: 50 mm, non-sterile, reusable	Each
57	MIKULICZ Abdominal Wall Retractor, 250 mm (10"), depth: 121 mm, width: 50 mm, non-sterile, reusable	Each
58	KELLY Abdominal Wall Retractor, 265 mm (10 1/4"), depth: 150 mm, width: 39 mm, non-sterile, reusable	Each
59	BALFOUR Abdominal Retractor, complete retractor, 200 mm, width: 250 mm, opening width: 235 mm, consisting of BV609R, non-sterile, reusable	Each
60	SUPPLEMENT RECTUM/LONG INSTRUMENTS SET	Each

61	MUELLER Rectum Scissors, strongly curved, heavy pattern, blunt/blunt, 325 mm (12 3/4")	Each
62	NELSON-METZENBAUM CARBIDETIP Dissecting Scissors, curved, TC: yes, blunt/blunt, 285 mm (11 1/4")	Each
63	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 300 mm (11 3/4"), toothing DE BAKEY, width: 2 mm, non-sterile, reusable	Each
64	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 300 mm (11 3/4"), toothing DE BAKEY, width: 3,500 mm, non-sterile, reusable	Each
65	ZENKER Dissecting a. Ligature Forceps, slightly curved, 300 mm (11 3/4"), non-sterile, reusable	Each
66	ZENKER Dissecting a. Ligature Forceps, strongly curved, 290 mm (11 1/2"), non-sterile, reusable	Each
67	ALLIS ATRAUMATA Grasping Forceps, straight, 300 mm (11 3/4"), toothing DE BAKEY, width: 8,400 mm, non-sterile, reusable	Each
68	CRILE-WOOD CARBIDEGRIP TC Needleholder, straight, 305 mm (12"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each
69	RESANO ATRAUMATA Anastomosis Clamp, angled, 90 °, 265 mm (10 1/2"), elastic pattern, toothing DE BAKEY, non-sterile, reusable	Each
70	DE BAKEY ATRAUMATA Tangential Occlusion Clamp, curved, 280 mm (11"), satinsky-shaped, toothing DE BAKEY, jaw length: 119 mm (4 3/4"), width: 75 mm, non-sterile, reusable	Each
71	BRUNNER Retractor, 250 mm (10"), depth: 180 mm, width: 30 mm, non-sterile, reusable	Each
72	ST. MARKS Pelvis Retractor, 290 mm (11 1/2"), depth: 124 mm, width: 60 mm, non-sterile, reusable	Each
73	ST. MARKS Pelvis Retractor, 330 mm (13"), depth: 174 mm, width: 60 mm, non-sterile, reusable	Each
74	SUPPLEMENT VASCULAR-AORTA/ABDOMINAL SET	Each
75	DE BAKEY CARBIDETIP Vascular Scissors, angled, TC: yes, 60 °, sharp/sharp, 220 mm (8 3/4")	Each
76	CUSHING Nerve- And Vessel Hook, 90 °, angled, 280 mm (11"), blunt, depth: 6 mm, non-sterile, reusable	Each
77	DE BAKEY ATRAUMATA Vascular Clamp, angled, 60 °, 275 mm (10 3/4"), toothing DE BAKEY, jaw length: 100 mm (4"), width: 65 mm, non-sterile, reusable	Each
78	DE BAKEY ATRAUMATA Aorta Aneurism Clamp, curved, 315 mm (12 3/8"), toothing DE BAKEY, jaw length: 130 mm, non-sterile, reusable	Each
79	DE BAKEY ATRAUMATA Tangential Occlusion Clamp, curved, 280 mm (11"), satinsky-shaped, toothing DE BAKEY, jaw length: 119 mm (4 3/4"), width: 75 mm, non-sterile, reusable	Each
80	DE BAKEY ATRAUMATA Bulldog Clamp, curved, 115 mm (4 1/2"), toothing DE BAKEY, jaw length: 58 mm (2 3/8"), non-sterile, reusable	Each

D. Advance Laproscopy Hand Instrument Set

SNO	Description	Qty
1	Verses Pneumoperitoneum Needle with spring loaded blunt stylet. LUER-Lock. Length 13cm & 15cm, 18cm	Each
2	Trocar, Size 11mm consisting of Trocar only with pyramidal tip Cannula without valve, with insufflation stop- cock. Length 10.5cm Multifunctional valve, three part dismantle with washer pack of 10pcs	Each
3	Trocar size 11mm consisting of Trocar only, with blunt up Cannula without valve with insufflation stop cock, length 10.5 cm Multifunctional valve size 11mm	Each

4	Trocar size 6mm, consisting of Trocar only, with pyramidal up Cannula without valve with insufflation stop-cock, length 10.5 cm Multifunctional valve. Three part dismantle with washer pack of 10pc	Each
5	Hi Flow Trocar size 11mm, consisting of Trocar only, with pyramidal tip oval profile Cannula without valve, with Hi Flow Connection for insufflation, length 10.5 cm Multifunctional Valve for Hi Flow	Each
6	Trocar 11 mm diameter with thread and rotating insufflations, should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. The working length of the cannula should be 10.5mm. Telescope stopper.	Each
7	Trocar 6mm diameter with thread and rotating Insufflations, should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through he cannula valve. It should have stopcock for CO2 insufflation. The working length of the cannula should be 105mm Telescope Stopper.	Each
8	Trocar Size 11mm consisting of Trocar only, with blunt tip Cannula without valve with insufflation stop cock, with 2 flanges of fixation of sutures length 13cm Automatic Valve Sliding Cone.	Each
9	Trocar Size 13.5 mm consisting of Trocar only with pyramidal tip. Cannula without valve, with insufflation stopcock, length 11.5cm Multifunctional valve size 13.5mm with washer pack of 10pcs. Reducer 13/5 mm, 13/5mm. Reducer 13.5/10mm & Reducer 11	Each
10	Reducer 13/5 mm, 13/5mm, Reducer 13.5/10 mm & Reducer 11/5 mm Reduction Sleeve, 11/5mm	Each
11	Reduction Sleeve ,11/5mm	Each
12	Injection Needle. LUER-Lock, diameter 1.2mm, size 5mm, length 36cm.	Each
13	Three pieces laparoscopic KELLY Dissecting and Grasping Forceps, rotating with connector pin for unipolar coagulation, size 5mm, length 36cm. Double action jaws short consisting of Plastic Handle, without ratchet, Outer Tube insulated, Forceps Insert. Three part dismantle.	Each
14	Three Piece laparoscopic Dissecting and Grasping Forceps, rotating with connector pin for unipolar coagulation size 5mm length 36cm, right angled. double action jaws consisting of Plastic Handle without ratchet, with large contact area, Outer Tube Insulated Forceps Insert. Three Part dismantle.	Each
15	Three piece laparoscopic KELLY Dissecting and Grasping Forceps, rotating with connector pin for unipolar coagulation size 5mm length 36cm, double action jaws short consisting of Plastic Handle without ratchet, with larger contact area. Outer Tube insulated. Forceps Insert Three part dismantle.	Each
16	Three piecelaposcopic dissecting and Grasping Forceps, rotating with connector pin for unipolar coagulation size 5mm length 36cm, alligator jaws, double action jaws consisting of Plastic Handle without ratchet, with large contact area, Outer Tube Insulated Forceps Insert, Three part dismantle	Each
17	Three piece Laparoscopic BABCOCK Grasping forceps size 5mm length 36cm with connector pin for unipolar coagulation, atraumatic jaws, double action jaws consisting of Plastic Handle ratchet, with larger contact area outer Tube insulated forceps Inserts three dismantle.	Each
18	Three piece laparoscopic BABCOCK Grasping forceps rotating with connector pin for unipolar coagulation, atraumatic jaws with multiple teeth, fenestrated, single action jaws, consisting of Plastic Handle without ratchet, with larger contact area Outer Tube Insulated Forceps Insert three Part dismantle.	Each

19	Three piece Laparoscopic Grasping Forceps, 2X4 teeth, rotating with connector pin for Unipolar coagulation, size 5mm length 36cm double action jaws, consisting of plastic handle with ratchet Outer tube Insulated Forceps Insert. Three Part dismantle	Each
20	Three Piece Laparoscopic Bowel Grasper, rotating with connector pin for unipolar coagulation size 5mm, length 36cm, double action jaws, consisting of plastic Handle without ratchet with larger contact area Outer Tube Insulated Forceps Insert Three Part dismantle	Each
21	Three Piece Laparoscope CROCE-OLMI Grasping Forceps, rotating, dismantling, insulated with connector pin for unipolar coagulation with LUER-Lock Connector for cleaning single action Jaws. Slender, atraumatic, fenestrated, curved size 5mm length 36cm consisting of plastic handle, without ratchet. Metal outer sheath insulated Forceps Insert Three Part Dismantle	Each
22	CLICKLINE INAKI Grasping Forceps, rotating, dismantling, without connector pin for unipolar coagulation with LUER-Lock irrigation connector for cleaning, single action jaws slender atraumatic, fenestrated, curved, size 5mm , Length 36cm consisting of Metal handle without ratchet with large contact area Outer tube outer sheath insulated Forceps Insert	Each
23	Three Piece Laparoscopic Bowel Grasper, rotating with connector pin for unipolar coagulation size 5mm, length 36cm, atraumatic fenestrated single action jaws, consisting of plastic Handle without ratchet with larger contact area Outer Tube Insulated Forceps Insert Three Part dismantle	Each
24	Three Piece Laparoscopic REDDICK- OLSEN dissecting and Grasping Forceps, rotating with connector pin for unipolar coagulation size 5mm length 36cm heavy double action jaws consisting of Plastic Handle with ratchet Outer Tube insulated Forceps Insert Three Part Dismantle	Each
25	METZENBAUM Scissors, rotating, dismantling, insulated, with connector pin for unipolar coagulation with LUER-Lock connector for cleaning double actions jaws curved length of blades 15mm size 5mm length 36cm consisting of plastic Handle insulated without ratchet Metal Outer Sheath insulated. Scissors Insert Three Part dismantle	Each
26	Single use scissor insert pack of 10 (1X10)	Each
27	Three Piece laparoscope Hook Scissors rotating size 5mm length 36cm jaws not crossing with connector pin for unipolar Coagulation single action jaws consisting of Plastic Handle without ratchet with larger contact area Outer Tube Insulate. Forceps Insert Three part dismantle	Each
28	Suction and Irrigation Tube, anti reflex surface with two-way stopcock for single hand control size 5mm length 36cm	Each
29	Suction or Irrigation Tube, with protection basket with trumpet valve size 10mm Length 36cm	Each
30	Coagulation and Dissecting Electrode, spatula-shaped, blunt with connector pin for unipolar coagulation size 5mm working length 36cm	Each
31	Macro Needle Holder ergonomic axial handle with disengage able ratchet, ratchet release on the right side. Left curved jaws, with tungsten carbide insert 5mm, length 33cm	Each
32	Macro Needle Holder ergonomic pistol handle with disengage able ratchet, ratchet release on the right side, right curved jaws with tungsten carbide insert 5mm length 33cm	Each
33	Three piece laparoscopic needle holder ergonomic pistol grip with disengage able ratchet, ratchet release on the left side, straight jaws, with tungsten carbide insert 5mm, length 33cm	Each
34	Unipolar HF Cord with 4mm plug and length 300cm	Each

35	Clip Applicator, for use with Titanium Clips LT 300 (medium Large) dismantling, rotating with ratchet to lock the jaw part holding the clip Size 10mm length 36cm consisting of Metal Handle with ratchet Metal Outer Tube Insert Three Part dismantle	Each
36	Dismantling Fan Retractor, distend able size 10mm length 36cm	Each
37	Polymer clip applicator 10mm and 5mm (1each) of any reputed make with clips	Each (1 each)
38	Claw Forceps rotating size 10mm length 36cm 2X3 teeth single action jaws consisting of Metal Handle with MANHES style ratchet Outer Tube Insulated Forceps Insert three Dismantle	Each
39	Claw Grasping Forceps rotating with connector pin for unipolar coagulation size 5mm length 36cm 2x3 teeth, single action jaws consisting of Plastic Handle without ratchet with larger contact area outer Tube	Each
40	Rotatable Bipolar KELLY Grasping Forceps rotating dismantling with connector pin for bipolar coagulation double action jaws especially suitable for dissection size 5mm length 36cm consisting of Plastic Handle without Ratchet color code light blue outer sheath Forceps Insert Three Part dismantle	Each
41	Bipolar HF Connecting Cable Length 300cm compatible with all standard cauterize	Each
42	Three Piece laparoscopic autoclavable forceps for retrieving gallstones, double action jaws with 360degree rotational sheath, size 10mm, length 36cm long, ergonomic metal handle with plastic rings with larger contact area at the finger ring to avoid pressure sores can be dismantled with the press of a button.	Each
43	Fascial Closure Instruments for sub cutaneous ligature of trocar incisions	Each
	All the above Equipment's are to be supplied by the same manufacturer.	Each
S. No.	E.. Specifications for General Surgical Instruments for Cancer Institute (set)	Qty
1.	Sponge Holder	Each
2.	Strong Artery (Long)	Each
3.	Cocker (Long)	Each
4.	Mixture (Long)	Each
5.	Straight Arter 6"	Each
6.	Babcock 6"	Each
7.	Allis 6"	Each
8.	Artery 6"	Each
9.	Mosquito 4"	Each
10.	Towel Clip (Big)	Each
11.	Needle Holder 8"	Each
12.	Needle Holder 6"	Each
13.	Fine Scissor 6"	Each
14.	Mayo Scissor 8"	Each
15.	Straight Scissor 8"	Each
16.	Suction Cannula (Tonsilor)	Each
17.	Fine Suction Cannula 4"	Each
18.	Fine Suction Cannula 3"	Each
19.	Skin Hook	Each
20.	"C" Shape (3)	Each
21.	Catspaw	Each
22.	Right Angled (thick medium)	Each
23.	Straight Scoop Qurantte	Each
24.	Forceps Tooth Thick 6"	Each
25.	Forceps Non Tooth Thick 6"	Each

26.	Forceps Tooth Fine 6"	Each
27.	Forceps Non tooth fine 6"	Each
28.	"L" Shape Retractor	Each
29.	Adson Tooth Forcep	Each
30.	Adson Plain Forcep	Each
31.	B.P Handle No. 3	Each
32.	B.P Handle No. 4	Each
33.	Small (Rt) angled	Each
34.	Deep (Rt) angled	Each
35.	Loupe retractor	Each
36.	Stily Scissor 6 in	Each
37.	Stily Scissor 8 in	Each

S.No	Specifications for General Surgical Instruments for Cancer Institute	Qty.	Weight (g)
F. Breast Set			
1	CRILE Hemostatic Forceps, straight, 160 mm (6 1/4"), delicate, blunt, non-sterile, reusable	Each	33
2	HALSTED (MOSQUITO) Hemostatic Forceps, curved, 125 mm (5"), delicate, non-sterile, reusable	Each	21
3	KELLY Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each	29
4	FRASER-KELLY (CRILE) Hemostatic Forceps, curved, 180 mm (7"), delicate, blunt, non-sterile, reusable	Each	47
5	ALLIS Intestinal Grasping Forceps, straight, 155 mm (6"), toothed (3x4), non-sterile, reusable	Each	28
6	BABCOCK Intestinal Grasping Forceps, straight, 155 mm (6 1/8"), non-sterile, reusable	Each	25
7	GROSS Dressing Forceps, curved, 200 mm (7 7/8"), serrated, box lock, with ratchet, non-sterile, reusable	Each	61
8	CRILE-WOOD DUROTIP TC Needleholder, straight, 185 mm (7 1/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	45
9	MAYO DUROTIP Dissecting Scissors, straight, TC: yes, rounded blades, blunt/blunt, 170 mm (6 3/4")	Each	68
10	BACKHAUS Towel Clamp, curved, 110 mm (4 1/4"), sharp, non-sterile, reusable	Each	23
11	DESMARRES Lid Retractor, 140 mm (5 1/2"), depth: 9 mm, width: 12 mm, non-sterile, reusable	Each	20
12	OVERHOLT Dissecting Forceps, curved, 215 mm (8 1/2"), delicate, Fig. 0, non-sterile, reusable	Each	47

13	GILLIES Skin Hook, 180 mm (7"), small, 1 prong, sharp, non-sterile, reusable	Each	45
14	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 64 mm, width: 20 mm, non-sterile, reusable	Each	109
15	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 33 mm, width: 14 mm, non-sterile, reusable	Each	80
16	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 28 mm, width: 10 mm, non-sterile, reusable	Each	79
17	KOCHER Retractor, 205 mm (8"), open, depth: 20 mm, width: 12 mm, non-sterile, reusable	Each	76
18	PARKER Wound Retractor, 135 mm (5 1/4"), double ended, 18 x 15 mm, 22 x 15 mm, 18 x 15 mm, 22 x 15 mm, non-sterile, reusable, Set of 2	Each	81
19	SEMKEN Tissue Forceps, straight, 150 mm (6"), delicate, toothed (1x2), non-sterile, reusable	Each	22
20	WAUGH Tissue Forceps, straight, 200 mm (7 7/8"), delicate, toothed (1x2), non-sterile, reusable	Each	53
21	SEMKEN Tissue Forceps, straight, 125 mm (5"), delicate, toothed (1x2), non-sterile, reusable	Each	16
22	Tissue Forceps, standard, straight, 160 mm (6 1/4"), standard, toothed (1x2), non-sterile, reusable	Each	34
23	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothed DE BAKEY, width: 2 mm, non-sterile, reusable	Each	52
24	Scalpel Handle, 125 mm (5"), No. 3, non-sterile, reusable	Each	28
25	Scalpel Handle, 135 mm (5 1/4"), No. 4, non-sterile, reusable	Each	29

S.No	Specifications for General Surgical Instruments for Cancer Institute	Qty.	Weight (g)
G). General Set			
1	DOYEN-COLLIN Mouth Gag, 120 mm (4 3/4"), non-sterile, reusable	Each	90
2	FERGUSON-ACKLAND Mouth Gag, 145 mm (5 3/4"), non-sterile, reusable	Each	131
3	HARTMANN Tongue Depressor, 150 mm (6"), fenestrated, non-sterile, reusable	Each	69
4	MIDDELDORPF Retractor, 215 mm (8 1/2"), open, fenestrated, depth: 20 mm, width: 22 mm, non-sterile, reusable	Each	84

5	LISTON Bone Cutting Forceps, straight, 220 mm (8 3/4"), non-sterile, reusable	Each	263
6	LUER Bone Rongeur, straight, 175 mm (7")	Each	173
7	BONE RONGEUR STRONG CVD 180MM	Each	0
8	Osteotome, 6 mm, 140 mm, 5 1/2"	Each	50
9	STILLE Osteotome, curved, 10 mm, 205 mm, 8"	Each	113
10	FARABEUF Raspatory, curved, 145 mm (5 3/4"), sharp, width: 12,500 mm, non-sterile, reusable	Each	100
11	Mallet, 165 mm (6 1/2"), diam. 22,50 mm, stainless steel, 80 g	Each	162
12	GIGLI Hook handle for saw	Each	21
13	JOSEPH Bone Rasp, straight, 165 mm (6 1/2"), serrated (cross), width: 7,50 mm	Each	73
14	LONDON HOSPITAL COLEMAN Root Elevator, straight, cross serrated handle, non-sterile, reusable	Each	49
15	SELDIN Root Elevator, non-sterile, reusable	Each	62
16	ANATOMICA Tooth Forceps, Fig. 73, non-sterile, reusable	Each	167
17	ANATOMICA Tooth Forceps, Fig. 2, non-sterile, reusable	Each	151
18	Scalpel Handle, 125 mm (5"), No. 3, non-sterile, reusable	Each	28
19	Scalpel Handle, 135 mm (5 1/4"), No. 4, non-sterile, reusable	Each	29
20	Scalpel Handle, 160 mm (6 1/4"), No. 7, non-sterile, reusable	Each	22
21	SEMKEN Tissue Forceps, straight, 150 mm (6"), delicate, toothed (1x2), non-sterile, reusable	Each	22
22	Tissue Forceps, standard, straight, 160 mm (6 1/4"), standard, toothed (1x2), non-sterile, reusable	Each	34
23	Tissue Forceps, standard, straight, 200 mm (7 7/8"), standard, toothed (1x2), non-sterile, reusable	Each	54
24	CUSHING Dressing Forceps (Tweezers), straight, 200 mm (7 7/8"), delicate, serrated, non-sterile, reusable	Each	51
25	CUSHING Dressing Forceps (Tweezers), straight, 250 mm (9 3/4"), delicate, serrated, non-sterile, reusable	Each	54
26	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing DE BAKEY, width: 2 mm, non-sterile, reusable	Each	52
27	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing	Each	29

	DE BAKEY, width: 2,800 mm, non-sterile, reusable		
28	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing DE BAKEY, width: 2,800 mm, non-sterile, reusable	Each	55
29	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 240 mm (9 1/2"), toothing DE BAKEY, width: 2,800 mm, non-sterile, reusable	Each	61
30	BACKHAUS Towel Clamp, curved, 90 mm (3 1/2"), sharp, non-sterile, reusable	Each	17
31	BACKHAUS Towel Clamp, curved, 110 mm (4 1/4"), sharp, non-sterile, reusable	Each	23
32	DOYEN Towel Clamp, straight, 180 mm (7"), toothed (2x2), sharp, ring handle, non-sterile, reusable	Each	55
33	DUROTIP Suture Scissors, curved, TC: yes, wave cut, blunt/blunt, 180 mm (7")	Each	46
34	STRULLY Vascular Scissors, curved, sharp/sharp, 220 mm (8 3/4")	Each	121
35	MAYO DUROTIP Dissecting Scissors, curved, TC: yes, heavy pattern, rounded blades, blunt/blunt, 170 mm (6 3/4")	Each	66
36	METZENBAUM DUROTIP Dissecting Scissors, curved, TC: yes, delicate pattern, blunt/blunt, 180 mm (7")	Each	42
37	METZENBAUM DUROTIP Dissecting Scissors, curved, TC: yes, delicate pattern, blunt/blunt, 230 mm (9")	Each	77
38	CRILE-WOOD DUROTIP TC Needleholder, straight, 185 mm (7 1/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	45
39	HEGAR-MAYO DUROGRIP TC Needleholder, straight, 185 mm (7 1/4"), with 0.5 mm pitch of serration, suture up to 3/0, non-sterile, reusable	Each	49
40	HEGAR-MAYO DUROTIP TC Needleholder, straight, 235 mm (9 1/4"), with 0.5 mm pitch of serration, suture up to 3/0, non-sterile, reusable	Each	71
41	DE BAKEY DUROTIP TC Needleholder, straight, 180 mm (7"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	40
42	DE BAKEY DUROTIP TC Needleholder, straight, 230 mm (9"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	57
43	ALLIS Intestinal Grasping Forceps, straight, 155 mm (6"), toothed (3x4), non- sterile, reusable	Each	28
44	ALLIS Intestinal Grasping Forceps, straight, 190 mm (7 1/2"), slender pattern, toothed (5x6), non-sterile, reusable	Each	40
45	Intestinal Grasping Forceps, straight, 175 mm (6 7/8"), width: 8 mm, non-	Each	39

	sterile, reusable		
46	BABCOCK Intestinal Grasping Forceps, straight, 215 mm (8 1/2"), width: 10 mm, non-sterile, reusable	Each	57
47	OVERHOLT Dissecting Forceps, curved, 215 mm (8 1/2"), delicate, Fig. 0, non-sterile, reusable	Each	47
48	GEMINI Dissecting Forceps, angled right, 140 mm (5 1/2"), non-sterile, reusable	Each	25
49	GEMINI Dissecting Forceps, angled right, 180 mm (7"), non-sterile, reusable	Each	39
50	GEMINI Dissecting Forceps, angled right, 200 mm (7 7/8"), non-sterile, reusable	Each	54
51	GEMINI Dissecting Forceps, angled right, 230 mm (9"), non-sterile, reusable	Each	67
52	GEMINI Dissecting Forceps, angled right, 280 mm (11"), non-sterile, reusable	Each	92
53	HALSTED (MOSQUITO) Hemostatic Forceps, straight, 125 mm (5"), delicate, non-sterile, reusable	Each	20
54	HALSTED (MOSQUITO) Hemostatic Forceps, curved, 125 mm (5"), delicate, non-sterile, reusable	Each	21
55	CRILE Hemostatic Forceps, straight, 160 mm (6 1/4"), delicate, blunt, non-sterile, reusable	Each	33
56	CRILE Hemostatic Forceps, curved, 160 mm (6 1/4"), delicate, blunt, non-sterile, reusable	Each	34
57	KELLY Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each	29
58	FRASER-KELLY (CRILE) Hemostatic Forceps, curved, 180 mm (7"), delicate, blunt, non-sterile, reusable	Each	47
59	GROSS Dressing Forceps, straight, 200 mm (7 7/8"), serrated, box lock, with ratchet, non-sterile, reusable	Each	60
60	GROSS Dressing Forceps, curved, 200 mm (7 7/8"), serrated, box lock, with ratchet, non-sterile, reusable	Each	61
61	LANE Towel Clamp, straight, 155 mm (6"), toothed (1x2), sharp, non-sterile, reusable	Each	49
62	LERICHE Hemostatic Forceps, straight, 150 mm (6"), delicate, toothed (1x2), non-sterile, reusable	Each	25
63	LERICHE Hemostatic Forceps, curved, 150 mm (6"), delicate, toothed (1x2), non-sterile, reusable	Each	26

64	PARKER Wound Retractor, 135 mm (5 1/4"), double ended, 18 x 15 mm, 22 x 15 mm, 18 x 15 mm, 22 x 15 mm, non-sterile, reusable, Set of 2	Each	81
65	FARABEUF Wound Retractor, 150 mm (6"), double ended, large, 20 x 16 mm, 23 x 16 mm, 24 x 16 mm, 28 x 16 mm, non-sterile, reusable, Set of 2	Each	97
66	KOCHER Retractor, 205 mm (8"), open, depth: 20 mm, width: 12 mm, non-sterile, reusable	Each	76
67	DESMARRES Lid Retractor, 140 mm (5 1/2"), depth: 9 mm, width: 12 mm, non-sterile, reusable	Each	20
68	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 28 mm, width: 10 mm, non-sterile, reusable	Each	79
69	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 33 mm, width: 14 mm, non-sterile, reusable	Each	80
70	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 40 mm, width: 10 mm, non-sterile, reusable	Each	85
71	KOCHER-LANGENBECK Retractor, 215 mm (8 1/2"), depth: 55 mm, width: 11 mm, non-sterile, reusable	Each	89
72	CZERNY Wound Retractor (Double Ended), 175 mm (7"), s-shaped, 38 x 22 mm, 38 x 22 mm, non-sterile, reusable	Each	69
73	DEAVER Retractor, 300 mm (11 3/4"), Fig. 1, width: 25 mm, non-sterile, reusable	Each	109
74	DEAVER Retractor, 300 mm (11 3/4"), Fig. 3, width: 38 mm, non-sterile, reusable	Each	198
75	KELLY Abdominal Wall Retractor, 265 mm (10 1/4"), depth: 150 mm, width: 39 mm, non-sterile, reusable	Each	258
76	KELLY Abdominal Wall Retractor, 260 mm (10 1/4"), depth: 155 mm, width: 57 mm, non-sterile, reusable	Each	330
77	ST. MARKS Pelvis Retractor, 290 mm (11 1/2"), depth: 124 mm, width: 60 mm, non-sterile, reusable	Each	253
78	DOYEN Abdominal Wall Retractor, 250 mm (9 3/4"), depth: 53 mm, width: 80 mm, non-sterile, reusable	Each	235
79	DOYEN Intestinal Clamp, straight, 240 mm (9 1/2"), soft and elastic, non-sterile, reusable	Each	66
80	DOYEN Intestinal Clamp, curved, 240 mm (9 1/2"), soft and elastic, non-sterile, reusable	Each	63
81	BIPOLAR CABLE 28.6MM	Each	148

82	Bipolar Forceps, straight, 185 mm (7 1/4"), sintram tips, non-sticking, width: 0,90 mm	Each	127
83	Bipolar Forceps, straight, 200 mm (8"), sintram tips, non-sticking, width: 0,90 mm	Each	129

S.No	Specifications for General Surgical Instruments for Cancer Institute	Qty.	Weight (g)
H.. Abdominal Set			
1	DE BAKEY DUROTIP TC Needleholder, straight, 260 mm (10 1/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	77
2	DE BAKEY DUROTIP TC Needleholder, straight, 305 mm (12"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	92
3	HEGAR-MAYO DUROTIP TC Needleholder, straight, 305 mm (12"), with 0.5 mm pitch of serration, suture up to 3/0, non-sterile, reusable	Each	106
4	DE BAKEY DUROTIP TC Needleholder, straight, 260 mm (10 1/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	77
5	DE BAKEY DUROTIP TC Needleholder, straight, 230 mm (9"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	94
6	DUROTIP TC Needleholder, straight, 200 mm (7 7/8"), very delicate, with 0.2 mm pitch of serration, suture 6/0 - 10/0, non-sterile, reusable	Each	44
7	DE BAKEY DUROTIP TC Needleholder, straight, 230 mm (9"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	57
8	HEGAR-MAYO DUROTIP TC Needleholder, straight, 185 mm (7 1/4"), with 0.5 mm pitch of serration, suture up to 3/0, non-sterile, reusable	Each	49
9	DE BAKEY DUROTIP TC Needleholder, straight, 305 mm (12"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	92
10	DUROTIP TC Needleholder, straight, 200 mm (7 7/8"), very delicate, with 0.2 mm pitch of serration, suture 6/0 - 10/0, non-sterile, reusable	Each	44
11	DUROTIP TC Needleholder, straight, 200 mm (7 7/8"), very delicate, with 0.2 mm pitch of serration, suture 6/0 - 10/0, non-sterile, reusable	Each	44

S.No	Specifications for General Surgical Instruments for Cancer Institute	Qty.	Weight (g)
I) .. Tracheostomy Set			

1	KELLY Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each	29
2	Tissue Forceps, straight, 145 mm (5 3/4"), medium, toothed (1x2), non-sterile, reusable	Each	24
3	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothed DE BAKEY, width: 2 mm, non-sterile, reusable	Each	31
4	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 28 mm, width: 10 mm, non-sterile, reusable	Each	79
5	Wound- And Trachea Retractor, large curve, 165 mm (6 1/2"), 4 prongs, sharp, depth: 7,500 mm, width: 14 mm, non-sterile, reusable	Each	23
6	Wound- And Trachea Retractor, large curve, 165 mm (6 1/2"), 1 prong, sharp, non-sterile, reusable	Each	20
7	CRILE-WOOD DUROGRIP TC Needleholder, straight, 185 mm (7 1/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	45
8	Scalpel Handle, 125 mm (5"), No. 3, non-sterile, reusable	Each	28
9	Scalpel Handle, 135 mm (5 1/4"), No. 4, non-sterile, reusable	Each	29
10	Scalpel Handle, 160 mm (6 1/4"), No. 7, non-sterile, reusable	Each	22
11	GROSS Dressing Forceps, curved, 200 mm (7 7/8"), serrated, box lock, with ratchet, non-sterile, reusable	Each	61
12	DUROTIP Suture Scissors, curved, TC: yes, wave cut, blunt/blunt, 180 mm (7")	Each	46

S.No	Specifications for General Surgical Instruments for Cancer Institute	Qty.	Weight (g)
J.) Vascular Set			
1	KELLY Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each	29
2	BABCOCK Intestinal Grasping Forceps, straight, 155 mm (6 1/8"), non-sterile, reusable	Each	25
3	CRILE-WOOD DUROTIP TC Needleholder, straight, 185 mm (7 1/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	45
4	SATINSKY (BABY) Vascular Clamp, curved, 150 mm (6"), satinsky-shaped, non-sterile, reusable	Each	34

5	DE BAKEY ATRAUMATA Bulldog Clamp, curved, 125 mm (5"), toothing DE BAKEY, jaw length: 53 mm , ring handle, non-sterile, reusable	Each	21
6	MIXTER (BABY) Dissecting Forceps, strongly curved, 180 mm (7"), non-sterile, reusable	Each	37
7	KIEBACK Dissecting a. Ligature Forceps, curved to side, 235 mm (9 1/4"), non-sterile, reusable	Each	75
8	GLOVER ATRAUMATA Vascular Clamp, curved, 215 mm (8 1/2"), toothing DE BAKEY, jaw length: 65 mm , non-sterile, reusable	Each	58
9	DE BAKEY ATRAUMATA Aorta Aneurism Clamp, curved, 255 mm (10"), toothing DE BAKEY, jaw length: 70 mm , non-sterile, reusable	Each	96
10	GLOVER ATRAUMATA Vascular Clamp, double curved, 220 mm (8 3/4"), toothing DE BAKEY, jaw length: 60 mm , non-sterile, reusable	Each	57
11	DERRA-COOLEY ATRAUMATA Vascular Clamp, curved, 175 mm (6 7/8"), pediatric pattern, toothing COOLEY, jaw length: 80 mm , width: 27 mm, non-sterile, reusable	Each	43
12	DE BAKEY DUROTIP TC Needleholder, straight, 260 mm (10 1/4"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	77
13	DE BAKEY DUROTIP TC Needleholder, straight, 305 mm (12"), with 0.4 mm pitch of serration, suture 4/0 - 6/0, non-sterile, reusable	Each	92
14	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 240 mm (9 1/2"), toothing DE BAKEY, width: 1,500 mm, non-sterile, reusable	Each	63
15	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 300 mm (11 3/4"), toothing DE BAKEY, width: 2 mm, non-sterile, reusable	Each	86
16	JOHNS-HOPKINS Applying Forceps For Bulldog C, angled on flat, 240 mm (9 1/2"), box lock, with ratchet, non-sterile, reusable	Each	86
17	DE BAKEY ATRAUMATA Bulldog Clamp, straight, 80 mm (3 1/8"), toothing DE BAKEY, jaw length: 25 mm (1"), non-sterile, reusable	Each	15
18	DE BAKEY ATRAUMATA Bulldog Clamp, curved, 80 mm (3 1/8"), toothing DE BAKEY, jaw length: 23 mm (1"), non-sterile, reusable	Each	14
19	DIETHRICH Bulldog Clamp, angled, 48 mm (1 7/8"), jaw length: 13 mm (1/2"), micro, non-sterile, reusable	Each	11
20	COOLEY ATRAUMATA Vascular Clamp, curved, 160 mm (6 1/4"), pediatric pattern, toothing DE BAKEY, width: 24 mm, non-sterile, reusable	Each	40
21	DE BAKEY ATRAUMATA Tangential Occlusion Clamp, curved, 220 mm (8 3/4"), satinsky-shaped, toothing DE BAKEY, jaw length: 85 mm (3 3/8"), width: 38 mm, non-sterile, reusable	Each	58

22	DE BAKEY-SATINSKY ATRAUMATA Tangential Occlusion Clamp, curved, 245 mm (9 5/8"), satinsky-shaped, toothing DE BAKEY, jaw length: 84 mm (3 3/8"), width: 47 mm, non-sterile, reusable	Each	79
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S.R NO	Specifications for General Surgical Instruments for Cancer Institute	QTY
K. PAEDIATRIC GENERAL TRAY		
1	KELLY Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each
2	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing DE BAKEY, width: 1,500 mm, non-sterile, reusable	Each
3	DERRA ATRAUMATA Vascular Clamp, curved, 170 mm (6 3/4"), pediatric pattern, toothing DE BAKEY, width: 20 mm, non-sterile, reusable	Each
4	BABCOCK Intestinal Grasping Forceps, straight, 155 mm (6 1/8"), non-sterile, reusable	Each
5	BABCOCK Intestinal Grasping Forceps, straight, 200 mm (8"), non-sterile, reusable	Each
6	MIXTER (BABY) Dissecting Forceps, curved, 140 mm (5 1/2"), non-sterile, reusable	Each
7	MIXTER (BABY) Dissecting Forceps, curved, 140 mm (5 1/2"), non-sterile, reusable	Each
8	MIXTER (BABY) Dissecting Forceps, strongly curved, 180 mm (7"), non-sterile, reusable	Each
9	DOYEN ATRAUMATA Intestinal Clamp, straight, 170 mm (6 3/4"), soft and elastic, toothing DE BAKEY, non-sterile, reusable	Each
10	DOYEN ATRAUMATA Intestinal Clamp, curved, 170 mm (6 3/4"), soft and elastic, toothing DE BAKEY, non-sterile, reusable	Each
11	TUTTLE Lung Grasping Forceps (Tweezer, straight, 230 mm (9"), non-sterile, reusable	Each
12	ROBERTS Hemostatic Forceps, curved, 225 mm (9"), blunt, non-sterile, reusable	Each
13	MOSQUITO (HARTMANN) Hemostatic Forceps, curved, 100 mm (4"), delicate, non-sterile, reusable	Each
14	CRILE (BABY) Hemostatic Forceps, straight, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each
15	KELLY Hemostatic Forceps, straight, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each
16	FRASER-KELLY (CRILE) Hemostatic Forceps, curved, 180 mm (7"), delicate, blunt, non-sterile, reusable	Each
17	HALSTED (MOSQUITO) Hemostatic Forceps, curved, 125 mm (5"), delicate, non-sterile, reusable	Each
18	CRILE (BABY) Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt, non-sterile, reusable	Each
19	CRILE Wound Retractor, 110 mm (4 1/4"), double ended, 11 x 4 mm, 19 x 6 mm, non-sterile, reusable	Each
20	ALLIS (BABY) Intestinal Grasping Forceps, straight, 130 mm (5 1/8"), toothed (4x5), non-sterile, reusable	Each
21	ALLIS ATRAUMATA Grasping Forceps, straight, 160 mm (6 1/4"), toothing DE BAKEY, width: 6,200 mm, non-sterile, reusable	Each

22	MAIER Dressing Forceps, curved, 260 mm (10 1/4"), serrated, box lock, with ratchet, non-sterile, reusable	Each
23	KOCHER Hemostatic Forceps, straight, 140 mm (5 1/2"), toothed (1x2), non-sterile, reusable	Each
24	STILLE Dissecting Scissors, curved, blunt/blunt, 150 mm (6")	Each
25	METZENBAUM (BABY) CARBIDE TIP Dissecting Scissors, curved, TC: yes, delicate pattern, blunt/blunt, 145 mm (5 3/4")	Each
26	MAYO CARBIDE TIP Dissecting Scissors, straight, TC: yes, rounded blades, blunt/blunt, 170 mm (6 3/4")	Each
27	MAYO CARBIDE TIP Dissecting Scissors, straight, TC: yes, heavy pattern, blunt/blunt, 140 mm (5 1/2")	Each
28	Tissue Forceps, straight, 145 mm (5 3/4"), medium, toothed (1x2), non-sterile, reusable	Each
29	Tissue Forceps, straight, 180 mm (7"), medium, toothed (1x2), non-sterile, reusable	Each
30	SEMKEN Tissue Forceps, straight, 125 mm (5"), delicate, toothed (1x2), non-sterile, reusable	Each
31	ADSON (MICRO) Tissue Forceps, straight, 120 mm (4 3/4"), delicate, toothed (1x2), non-sterile, reusable	Each
32	ADSON (MICRO) Dressing Forceps (Tweezers), straight, 120 mm (4 3/4"), delicate, serrated, with plateau / platform tip, non-sterile, reusable	Each
33	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing DE BAKEY, width: 1 mm, non-sterile, reusable	Each
34	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing DE BAKEY, width: 1,500 mm, non-sterile, reusable	Each
35	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing DE BAKEY, width: 2 mm, non-sterile, reusable	Each
36	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing DE BAKEY, width: 2,800 mm, non-sterile, reusable	Each
37	Scalpel Handle, 125 mm (5"), No. 3, non-sterile, reusable	Each
38	Scalpel Handle, 135 mm (5 1/4"), No. 4, non-sterile, reusable	Each
39	DESMARRES Lid Retractor, 140 mm (5 1/2"), depth: 9 mm, width: 12 mm, non-sterile, reusable	Each
40	PARKER Wound Retractor, 135 mm (5 1/4"), double ended, 18 x 15 mm, 22 x 15 mm, 18 x 15 mm, 22 x 15 mm, non-sterile, reusable, Set of 2	Each
41	FARABEUF Wound Retractor, 125 mm (5"), double ended, small, 22 x 10 mm, 25 x 10 mm, 28 x 12 mm, 32 x 12 mm, non-sterile, reusable, Set of 2	Each
42	ROUX (BABY) Wound Retractor, 135 mm (5 1/4"), double ended, 17 x 16 mm, 18 x 22 mm, non-sterile, reusable	Each
43	BACKHAUS Towel Clamp, curved, 110 mm (4 1/4"), sharp, non-sterile, reusable	Each
44	Towel Clamp, curved, 115 mm (4 1/2"), non perforating, blunt, non-sterile, reusable	Each
45	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 28 mm, width: 10 mm, non-sterile, reusable	Each
46	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 28 mm, width: 14 mm, non-sterile, reusable	Each

47	LANGENBECK Retractor, 210 mm (8 1/4"), depth: 28 mm, width: 16 mm, non-sterile, reusable	Each
48	LANGENBECK-GREEN Wound Retractor (With Blade), 160 mm (6 1/4"), depth: 16 mm, width: 6 mm, non-sterile, reusable	Each
49	Wound- And Trachea Retractor, large curve, 165 mm (6 1/2"), 4 prongs, sharp, depth: 7,500 mm, width: 14 mm, non-sterile, reusable	Each

	<u>L).. ONCO SURGERY SET</u>	
SN	DESCRIPTION	QTY
1	Scalpel Handle #3	Each
2	Scalpel Handle #4	Each
3	Scalpel Handle #7	Each
4	Tissue Fcps 1x2T Narrow 16cm	Each
5	Gillies Tissue Fcps 1x2T 15cm	Each
6	Tissue Fcps Fine Narrow 1x2T, 20cm	Each
7	Potts Smith Tissue Fcps 1x2T 21cm	Each
8	Standard Tissue Fcps 1x2T 30cm	Each
9	Dressing Fcps Narrow 2mm tip 30cm	Each
10	Adson Tissue Fcps 1x2T 12cm	Each
11	Adson Dressing Fcps 12cm	Each
12	Dressing Fcps Narrow Tip 16cm	Each
13	McIndoe Dissecting Fcps 15cm	Each
14	Dressing Fcps Narrow 20cm	Each
15	DebakeyAtrauma forceps, jaw 1.5mm, straight, 15cm	Each
16	DebakeyAtrauma forceps, jaw 1.5mm, straight, 20cm	Each
17	DebakeyAtrauma forceps, jaw 1.5mm, straight, 24cm	Each
18	DebakeyAtrauma forceps, jaw 2mm, straight, 24cm	Each
19	Backhaus Towel Fcps 11cm	Each
20	Backhaus Towel Fcps 15cm	Each
21	Schaedel Towel Clip 9cm	Each
22	Metzenbaum Scissors str 15cm TC	Each
23	Metzenbaum Scissors cvd 15cm TC	Each
24	Mayo Stille Scissors cvd 17cm TC	Each
25	Mayo Stille Scissors cvd 17cm TC	Each
26	Mayo Stille Scissors str 21cm TC	Each
27	Mayo Stille Scissors cvd 21cm TC	Each
28	Mayo Scissors cvd 18cm TC	Each
29	Mayo Scissors str 18cm TC	Each
30	Mayo Scissors str 15cm	Each
31	DeBakey Vascular Scissors 16cm 45° TC	Each
32	Mayo Scissors cvd 19cm TC	Each
33	Mayo Stille Scissors cvd 21cm TC	Each

34	HEATH Ligature Scissors 15cm	Each
35	Mayo HegarNdle Holder 15cm TC	Each
36	Mayo HegarNdle Holder 18cm TC	Each
37	Crile-Wood Ndle Holder 18cm TC	Each
38	Mayo HegarNdle Holder 20cm TC	Each
39	DeBakeyNdle Holder 23cm TC	Each
40	Crile-Wood Ndle Holder 20cm TC	Each
41	Stratte Reverse Ndle Holder 20cm TC	Each
42	Stratte Reverse Ndle Holder 23cm TC	Each
43	Heaney Ballentine Hyst. Fcpscvd 1 Tooth 21cm	Each
44	Ballentine Hysterectomy Fcps str 1 Tooth 21cm	Each
45	Stratte Reverse Ndle Holder 20cm TC	Each
46	Allis Tissue Fcps 4x5T, 15cm	Each
47	Allis Tissue Fcps 4x5T, 19cm	Each
48	Allis Tissue Fcps 4x5T, 19cm	Each
49	Babcock Tissue Fcps Long. serr 16cm	Each
50	Babcock Tissue Fcps Long. serr 20cm	Each
51	Babcock Tissue Fcps Atraumatic 20cm	Each
52	Gemini Hemostatic Fcpscvd 16cm	Each
53	Gemini Hemostatic Fcpscvd 20cm	Each
54	Gemini Hemostatic Fcpscvd 25cm	Each
55	De BakeyAtrauma Clamp, curved, 21,0cm	Each
56	De Bakey-PeanAtrauma Clamp, curved,16,0 cm	Each
57	De Bakey-PeanAtrauma Clamp, curved,20,0 cm	Each
58	De Bakey-PeanAtrauma Clamp, curved,26,0 cm	Each
59	Halstead Mosquito Fcps str 12.5cm	Each
60	Halstead Mosquito Fcpscvd 12.5cm	Each
61	Rochester Pean Hemostatic Fcps str 14cm	Each
62	Rochester Pean Hemostatic Fcpscvd 14cm	Each
63	Crile Rankin Hemostatic Fcps str 16cm	Each
64	Crile Rankin Hemostatic Fcpscvd 16cm	Each
65	Roberts Hemostatic Fcpscvd 22cm	Each
66	Kelly Hemostatic Fcpscvd 24cm	Each
67	Foerster Sponge Holding Fcpsserr str 25cm	Each
68	Foerster Sponge Holding Fcpsserrcvd 25cm	Each
69	Lane Tissue Fcps 1x2T, 19cm, Fenestrated	Each
70	Rochester Ochsner Fcps str 16cm	Each
71	Rochester Ochsner Fcpscvd 16cm	Each
72	Rochester Ochsner Fcps str 20cm	Each
73	Rochester Ochsner Fcpscvd 20cm	Each
74	Yankauer Suction Tube 27cm	Each
75	Fergusson Suction Cannula 1.5mm, 13cm	Each
76	Fergusson Suction Cannula 2.0mm, 13cm	Each
77	Fergusson Suction Cannula 3.0mm, 13cm	Each
78	Fergusson Suction Cannula 4.0mm, 13cm	Each
79	Roux Retractor dbl ended set/3 17cm	Each
80	Green Goitre Retractor 22cm	Each

81	Retractor Vein Loop	Each
82	Kocher Langenbeck Retractor 35x11mm, 21.5cm	Each
83	Kocher Retractor 60x20mm, 23cm	Each
84	Kocher Retractor 75x30mm, 23cm	Each
85	Kocher Langenbeck Retractor 25x6mm, 21.5cm	Each
86	Kocher Langenbeck Retractor 80x16mm, 21.5cm	Each
87	Volkmann double Curette sharp 20cm	Each
88	Curette medium w/fiber handle 15mm, 28cm	Each
89	Clip applying forceps f. Titan LigatingClips MEDIUM-LARGE, for ETHICON Clips,green, 28 cm	Each
90	Clip applying forceps f. Titan LigatingClips MEDIUM, for ETHICON Clips, white,28 cm	Each
91	Fergusson Suction Cannula 2.0mm, 13cm	Each
92	Hook Retractor single 16cm Fig.2	Each
93	Iterson Trachea Hook sharp 16cm	Each
94	Clip applying forceps f. Titan LigatingClips MEDIUM, for ETHICON Clips, white,15 cm	Each
95	Clip applying forceps f. Titan LigatingClips SMALL, for ETHICON Clips, blue,15 cm	Each
96	Clip applying forceps f. Titan LigatingClips MEDIUM-LARGE, for ETHICON Clips,green, 20 cm	Each
97	Gillies Ndle Holder w/Scissors R-Hand 16cm TC	Each
98	Laborde Tracheal Dilator 14cm	Each
99	SatinskyAtrauma Clamp, angled, shaftangled, 22,0 cm	Each
100	SatinskyAtrauma Clamp, angled, shaftangled, 26,5 cm	Each
101	SatinskyAtrauma Clamp, angled, shaftangled, 28,5 cm	Each
102	De BakeyAtrauma Clamp, curved, C-Form,25,0 cm	Each
103	LACK Tongue Depressor cvd 19mm wide, 10cm	Each
104	Sternberg Cheek & Lip Retractor 16cm	Each
105	Denhart Mouth Gag 12cm	Each
106	Fergusson Mouth Gag Parllel jaws 19cm	Each
107	Bone Mallet 450g 26.5cm	Each
108	Balfour Abdominal Retractor 25cm	Each
109	Doyen Retractor 40x85mm, 25cm	Each
110	Doyen Retractor 50x85mm, 25cm	Each
111	Doyen Retractor 60x85mm, 25cm	Each
112	Deaver Retractor 75x300mm	Each
113	Deaver Retractor 38x300mm	Each
114	Deaver Retractor 25x300mm	Each
115	Ribbon Retractor 50x330mm	Each
116	Ribbon Retractor 32x330mm	Each
117	Kocher Intestinal FcpsAtrauma str 25cm	Each
118	Mayo Robson Intestinal clamp str 25cm	Each
119	Mayo Robson Intestinal clamp cvd 25cm	Each
120	Doyen Intestinal Fcps str 23cm	Each
121	Doyen Intestinal Fcpscvd 23cm	Each
122	Ruskin-Liston Bone Cutting Fcps str 18.5cm	Each

123	Self Centering Bone Holding Fcps 15cm	Each
124	Stille Bone Osteotome 5mm, 20cm (Maceven) curved	Each
125	Stille Bone Osteotome 5mm, 20cm (Maceven)	Each
126	Stille Bone Osteotome 10mm, 20cm (Maceven)	Each
127	Stille Bone Osteotome 15mm, 20cm (Maceven)	Each
128	Stille Bone Osteotome 20mm, 20cm (Maceven)	Each
129	Stille Bone Osteotome 25mm, 20cm (Maceven)	Each
130	Farabeuf Periosteal Elevator str 15cm	Each
131	Ruler Metal 30cm	Each
132	Olivecrona Gigli Saw wire x3 twist 50cm	Each
133	Gigli Saw Handle	Each
134	Bone File & Rasp 20mm, 22cm	Each
135	root elevator standard fig. 3A	Each
136	MILLER root elev. stand. fig. 8	Each
137	extracting forceps Engl. fig.4	Each
138	extracting forceps Engl. fig.1	Each
139	DeBakey bulldog str 80/23 mm	Each
140	DeBakey bulldog cvd 75/16 mm	Each
141	SS Kidney Bowl Small Size : 8"	Each
142	SS Kidney Bowl Medium Size : 10"	Each
143	SS Kidney Bowl Large Size : 12"	Each
144	SS Bowl Extra Large Size : 10"	Each
145	SS Bowl Medium Size : 6"	Each
146	SS Bowl Small Size : 4"	Each
147	SS Bowl Extra Small Size : 3.25"	Each
148	Harrington Retractor w/hook handle 40x320mm	Each
149	Kogan Speculum w/scale ratchet 24cm Laser	Each
150	Thomas Gaylor Cervical Biopsy Fcps 22cm	Each
151	Schumacher Biopsy Fcps Fig.1	Each
152	Hegar Uterine Dilator D/E set/8	Each
153	Lister Urethral Bouges set/18, 00/1- 15/18	Each
154	Hurd Tonsil Dissector & Piller Retractor 22cm	Each
155	Perforated SS Tray Medium Size : 12 x 8"	Each
156	Kerrison Punch, 180 mm, 1 mm, 40° upwith thin footplate	Each
157	Kerrison Punch, 180 mm, 2 mm, 40° upwith thin footplate	Each
158	Kerrison Punch, 180 mm, 3 mm, 40° upwith thin footplate	Each
159	Kerrison Punch, 180 mm, 2 mm, 90° downwith thin footplate	Each
160	Eicken Killian Frontal Sinus Cannula 3mm,14cm	Each
161	Eicken irrigation cannula, wide curve, Ø 2,5 mm, LUER-LOCK, with finger cut-off, TL 14,5 cm	Each
162	Eicken irrigation cannula, wide curve, Ø 3,0 mm, LUER-LOCK, with finger cut-off, TL 14,5 cm	Each
163	Eicken irrigation cannula, wide curve, Ø 4,0 mm, LUER-LOCK, with finger cut-off, TL 14,5 cm	Each
164	Eicken irrigation cannula, narrow curve, Ø 2,5 mm, LUER-LOCK, with finger cut-off, TL 14,5 cm	Each

165	Weil Blakesley Ethmoid Forceps, straightthrough cutting, 2,5 mm, WL 120 mm	Each
166	Weil Blakesley Ethmoid Forceps, 45° upcvd., through cutting, 2,5 mm, WL 120 mm	Each
167	Citelli Antrum Punch up cutt. bite 2.5mm	Each
168	Littauer Nasal Polypus Fcps 18cm	Each
169	Freer-Gorney Suction elevator, 4 mm 18cm	Each
170	Fergusson Suction Cannula 2.0mm, 13cm	Each
171	SS Basin 14"	Each
172	SS Tray with Cover Size : 18 x 12 x 3"	Each
173	Mayo Safety Clip 14cm	Each

	<u>M).. VASCULAR SET FOR GI / URO / THORACIC</u>	
	DESCRIPTION	QTY
1	DeBaKeyPeanAtrauma Artery Fcps str 20cm	Each
2	DeBaKeyPean Artery Fcps str 26cm	Each
3	Babcock Tissue Fcps Atraumatic 20cm	Each
4	Mayo HegarNdle Holder 24cm TC	Each
5	Mayo HegarNdle Holder 26cm TC	Each
6	Crile-Wood Ndle Holder 26cm TC	Each
7	Castroviejo Micro Ndle Holder str 23cm TC R/H	Each
8	Ryder Ndle Holder (Mini) 18cm TC	Each
9	Metzenbaum Fino Scissors blunt cvd 18cm TC	Each
10	Metzenbaum Fino Scissors blunt cvd 20cm TC	Each
11	DerraDeBaKey Atraumatic Fcps 16cm	Each
12	Satinsky Tangential Occlusion Clamp 20cm	Each
13	Satinsky Tangential Occlusion Clamp 24cm	Each
14	Leland Jones Peripheral Vascular Clamp 18cm	Each
15	Gemini Hemostatic Fcpscvd 16cm	Each
16	Gemini Hemostatic Fcpscvd 13cm	Each
17	Babcock Tissue Fcps Atraumatic 20cm	Each
18	DeBaKey Bulldog clamp Atraumacvd 7.5cm	Each
19	DeBaKey Bulldog clamp Atrauma str 7.5cm	Each
20	Metzenbaum Fino Scissors blunt cvd 23cm TC	Each
21	Metzenbaum Fino Scissors blunt cvd 25cm TC	Each
22	SS Perforated Tray Size : 14 x 10 x 2"	Each
23	Castroviejo Micro Ndle Holder str 21cm TC R/H	Each
24	DeBaKey Atraumatic Tissue Fcps 1.5mm, 20cm	Each
25	DeBaKey Atraumatic Tissue Fcps 1.5mm, 24cm	Each
26	DeBaKey Atraumatic Tissue Fcps 1.5mm, 30cm	Each
27	Gemini Hemostatic Fcpscvd 23cm	Each
28	Gemini Hemostatic Fcpscvd 28cm	Each
29	Meeker Hemostatic Fcps 28cm	Each
30	Metzenbaum Fino Scissors blunt cvd 14.5cm TC	Each
31	Metzenbaum Fino Scissors blunt cvd 20cm TC	Each
32	Castaneda Neonatal clamp very deli. ang. 13cm	Each

N).. VASCULAR SET FOR H&N / BST / NEURO

POS	DESCRIPTION	QTY
1	De Bakey-PeanAtrauma Clamp, straight,16,0 cm	Each
2	De Bakey-PeanAtrauma Clamp, straight,20,0 cm	Each
3	Babcock Atrauma Intestinal Forceps, str.20 cm	Each
4	Mayo-Hegar TC-Needle Holder, 18 cm	Each
5	Mayo-Hegar TC-Needle Holder, 20 cm	Each
6	De Bakey TC-Needle Holder, 23 cm	Each
7	Jacobson Micro NH w. catch, straight,1,0 mm, 21,5 cm, jaw diamond dusted	Each
8	Ryder-Vascular TC-Needle Holder, 18 cm	Each
9	TC Metzenbaum Fino Scissors, Fig 1, cvd.delicate pattern, 14 cm	Each
10	TC Metzenbaum Fino Scissors, Fig 1, cvd.delicate pattern, 20 cm	Each
11	DerraAtrauma Clamp, angled, shaftangled, 16,5 cm	Each
12	SatinskyAtrauma Clamp, angled, shaftangled, 22,0 cm	Each
13	Castaneda-Neonatal Vascular Clamp, del.,Fig. 1, angled, atrauma, 15,5 cm	Each
14	De BakeyAtrauma Clamp, 60° angled, shaft angled, 21,0 cm	Each
15	Gemini Forceps, curved, 16 cm	Each
16	Gemini Forceps, curved, 13 cm	Each
17	Babcock Atrauma Intestinal Forceps, str.16 cm	Each
18	De Bakey Bulldog Clamp, atrauma,curved, TL 78 mm	Each
19	De Bakey Bulldog Clamp, atrauma,straight, TL 80 mm	Each
20	Denis Brown Tonsil Holding Fcps large 21cm	Each
21	Friedmann-Joll Vulva Retractor, 155 mm	Each
22	SS Perforated Tray Size : 14 x 10 x 2"	Each
23	Gemini Forceps, curved, 20 cm	Each

	O).. ADVANCED TABLE MOUNTED SURGICAL EXPOSURE SYSTEM FOR ONCOLOGY SURGERY :	
S.No	DESCRIPTION	QTY
1	Elite III Rail Clamp w/2 Cam Joints 18"	Each
2	34" BiLat Crossbar Hinged 11.5x8.5x11.5"	Each
3	24" Angled Arm 8x16"	Each
4	#REF!	Each
5	Micro Adj II Clip-On QA 10"	Each
6	Micro Adj II Clip-On QA 7 3/4"	Each
7	Cam II QA Handle 8"	Each
8	Hinged Extension Arm 12" x 12"	Each
9	Cam II Slide-On Joint 1/2x1/2"	Each
10	T-Handle	Each
11	Instrument Case 26x10x5"	Each
12	Balfour Small Lip 70x73mm	Each
13	Balfour Small Lip 83x73mm	Each
14	Kelly 76x89mm	Each
15	Splanchnich 51x114mm	Each
16	Deaver 51x127mm (2"x5")	Each
17	#REF!	Each
18	Harrington 64x152mm	Each
19	Malleable 51x203mm	Each
20	Malleable 76x254mm	Each
21	Malleable Finger 6"	Each

	DESCRIPTION	QTY
1).	P).. URO NEPHRECTOMY (DONOR) SET	
1	Forster-Ballenger Sponge Forceps, str., serrated jaw, 25 cm	Each
2	Mayo-Hegar TC-Needle Holder, 18 cm	Each
3	Mayo-Hegar TC-Needle Holder, 16 cm	Each
4	Mayo-Hegar TC-Needle Holder, 26 cm	Each
5	De Bakey TC-Needle Holder, 20 cm	Each
6	Gemini Forceps, curved, 23 cm	Each
7	Gemini Forceps, curved, 25 cm	Each
8	Gemini Forceps, curved, 20 cm	Each
9	Mixter-O'Shaughnessy Forceps, cvd., 19 cm	Each
10	Lahey Forceps, curved, 19 cm	Each
11	Crile-Rankin Forceps, curved, 16 cm	Each
12	Leriche Forceps, curved, 15 cm	Each
13	Leriche Forceps, straight, 15 cm	Each
14	Pean Forceps, curved, 20 cm	Each
15	Pean Forceps, straight, 20 cm	Each
16	Kelly Forceps, Fig. 1, curved, 19 cm	Each
17	Halsted-Mosquito Forceps, str., 14 cm	Each
18	Halsted-Mosquito Forceps, cvd., 14 cm	Each
19	Babcock Intestinal Forceps, str., 16 cm	Each

20	Allis Intestinal Forceps 5:6, 19 cm	Each
21	Allis Intestinal Forceps 5:6, 15 cm	Each
22	Ochsner-Kocher Forceps 1:2, cvd., 20 cm	Each
23	Guyon Kidney Pedicle Forceps, cvd., 23cm	Each
24	Guyon Kidney Pedicle Forceps, cvd., 24cm	Each
25	Guyon Kidney Pedicle Forceps, atrauma, curved, 24 cm	Each
26	Guyon Kidney Pedicle Forceps, cvd., 20cm	Each
27	Metzenbaum Fino Scissors, Fig 1, cvd., delicate pattern, 23 cm	Each
28	Mayo Scissors, straight, 23 cm	Each
29	Mayo Scissors, straight, 17 cm	Each
30	Metzenbaum Fino Scissors, Fig 1, cvd., delicate pattern, 18 cm	Each
31	Metzenbaum Scissors, Fig 1, cvd., 14 cm	Each
32	TC Metzenbaum Fino Scissors, Fig 1, cvd delicate pattern, 23 cm	Each
33	Mayo Scissors, straight, 17 cm	Each
34	Metzenbaum Scissors, Fig 1, str., short blade, 15 cm	Each
35	TC Metzenbaum Fino Scissors, Fig 1, cvd delicate pattern, 18 cm	Each
36	Scalpel handle, Standard, No. 3, 12 cm	Each
37	Scalpel handle, Standard, No. 4, 13,5cm	Each
38	Scalpel handle No. 7, 16 cm	Each
39	Backhaus Towel Forceps, 13 cm	Each
		Each
Q)..	URO RIB RESECTION SET	
1	Davidson Retractor, Fig. 1, 75 x 50 mm 19 cm	Each
2	Bailey-Baby Rip Contractor, 16 cm	Each
3	Ruskin-Liston Bone cutting forceps, angled, 19 cm	Each
4	Bohler Bone cutting forceps, 14,5cm curved forwards	Each
5	Deaver Retractor, Fig. 7, 38 mm, 30 cm	Each
6	Deaver Retractor, Fig. 8, 50 mm, 31 cm	Each
7	Gluck Rip Shears, 22 cm	Each
8	Frykholm Bone rongeur, angled, 24 cm	Each
9	Farabeuf Periosteal Elevator, curved, 12,5 mm, 15 cm	Each
10	Hoehn Periosteal Elevator, 7 mm, 16 cm	Each
11	Doyen Periosteal Elevator, adult, left, 17 cm	Each
12	Doyen Periosteal Elevator, adult, right, 17 cm	Each
13	Tissue grasping forceps, russian type, 25 cm	Each
R).	URO KIDNEY SET (RECIPIENT)	Each
1	Forster-Ballenger Sponge Forceps, str., serrated jaw, 25 cm	Each
2	Mayo-Hegar TC-Needle Holder, 16 cm	Each
3	Mayo-Hegar TC-Needle Holder, 18 cm	Each
4	Mayo-Hegar TC-Needle Holder, 24 cm	Each
5	Mayo-Hegar TC-Needle Holder, 20 cm	Each
6	De Bakey TC-Needle Holder, 20 cm	Each
7	Gemini Forceps, curved, 20 cm	Each
8	Gemini Forceps, curved, 28 cm	Each
9	Baby-Mixter Forceps, slightly cvd., 14cm	Each
10	Gemini Forceps, curved, 18 cm	Each

11	Gemini Forceps, curved, 23 cm	Each
12	Hartmann Forceps, curved, 10 cm	Each
13	Micro-Mosquito Forceps, curved, 10 cm	Each
14	Halsted-Mosquito Forceps, cvd., 12,5 cm	Each
15	Crafoord forceps, curved, 18 cm	Each
16	Crile-Rankin Forceps, curved, 16 cm	Each
17	Crile-Rankin Forceps, straight, 16 cm	Each
18	Pean Forceps, straight, 18 cm	Each
19	Pean Forceps, curved, 22 cm	Each
20	Pean Forceps, straight, 22 cm	Each
21	Ochsner-Kocher Forceps 1:2, cvd., 18 cm	Each
22	Ochsner-Kocher Forceps 1:2, cvd., 22 cm	Each
23	Allis Intestinal Forceps 5:6, 15 cm	Each
24	Allis Intestinal Forceps 5:6, 19 cm	Each
25	Babcock Intestinal Forceps, str., 16 cm	Each
26	Babcock Intestinal Forceps, str., 20 cm	Each
27	De Bakey-PeanAtrauma Clamp, straight, 20,0 cm	Each
28	Mayo-Guyon Kidney Pedicle Forceps, cvd., 23 cm	Each
29	Wertheim-Cullen Forceps, angled, 21 cm	Each
30	De Bakey-SatinskyAtrauma Clamp, angled, shaft angled, 24,0 cm	Each
31	Glover Bulldog Clamp, atrauma, straight, TL 68 mm	Each
32	Backhaus Towel Forceps, 13 cm	Each
33	Surg. Scissors, Fig 2 sh/bl, str., 14 cm SUPERCUT	Each
34	Mayo Scissors, straight, 17 cm	Each
35	Mayo Scissors, curved, 17 cm	Each
36	Mayo-Harrington Scissors, straight, 23cm	Each
37	Mayo-Harrington Scissors, curved, 23 cm	Each
38	TC Metzenbaum Scissors, Fig 1, cvd.,23cm	Each
39	TC Metzenbaum Scissors, Fig 1, str.,20cm	Each
S).	URO BALFOUR SET	
1	Balfour Abdominal Retractor, 20 cm spreading 250 mm, lateral blades 100 x 35 mm, central blade 70 x 85 mm	Each
2	Balfour Abdominal Retractor, 20 cm spreading 180 mm, lateral blades 70 x 35 mm, central blade 45 x 80 mm	Each
3	Legueu Bladder Retractor, complete	Each
4	Millin Bladder Retractor, complete with Central blade 45 x 110 mm and 2 pairs of lateral blades 57 x 25 / 80 x 25 mm	Each
T1).	URO NEPHRECTOMY VASCULAR SET (DONOR) 1st	
1	Mayo-Hegar Needle Holder, 20 cm	Each
2	De BakeyAtrauma Clamp, 60° angled, shaft angled, 21,0 cm	Each
3	Gemini Forceps, curved, 23 cm	Each
4	Lahey Forceps, curved, 23 cm	Each
5	Metzenbaum Fino Scissors, Fig 1, cvd., delicate pattern, 20 cm	Each
6	TC Metzenbaum Scissors, Fig 1, cvd.,23cm	Each
7	De Bakey Bulldog Clamp, atrauma, curved, TL 86 mm	Each

8	De Bakey Bulldog Clamp, atrauma, curved, TL 97 mm	Each
9	Gemini Forceps, curved, 23 cm	Each
10	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 30 cm	Each
11	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 24 cm	Each
12	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 20 cm	Each
13	De Bakey-SatinskyAtrauma Clamp, angled, shaft angled, 24,5 cm	Each
14	De Bakey-SatinskyAtrauma Clamp, angled, shaft angled, 24,0 cm	Each
15	De Bakey-SatinskyAtrauma Clamp, angled, shaft angled, 23,5 cm	Each
16	SatinskyAtrauma Clamp, angled, shaft angled, 26,0 cm	Each
17	Crile-Wood TC-Needle Holder, 20 cm	Each
18	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 20 cm	Each
19	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 20 cm	Each
T2).	URO NEPHRECTOMY VASCULAR INSTRUMENTS SET (DONOR) 2nd	
1	Mayo-Hegar Needle Holder, 20 cm	Each
2	Cooley Atrauma Clamp, angled, shaft angled, 26,5 cm	Each
3	Gemini Forceps, curved, 23 cm	Each
4	Lahey Forceps, curved, 23 cm	Each
5	Metzenbaum Fino Scissors, Fig 1, cvd., delicate pattern, 23 cm	Each
6	TC Metzenbaum Fino Scissors, Fig 1, cvd delicate pattern, 23 cm	Each
7	De Bakey Bulldog Clamp, atrauma, curved, TL 86 mm	Each
8	De Bakey Bulldog Clamp, atrauma, curved, TL 97 mm	Each
9	Gemini Forceps, curved, 23 cm	Each
10	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 30 cm	Each
11	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 24 cm	Each
12	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 20 cm	Each
13	De Bakey-SatinskyAtrauma Clamp, angled, shaft angled, 24,5 cm	Each
14	De Bakey-SatinskyAtrauma Clamp, angled, shaft angled, 24,0 cm	Each
15	SatinskyAtrauma Clamp, angled, shaft angled, 22,0 cm	Each
16	De Bakey-SatinskyAtrauma Clamp, angled, shaft angled, 23,5 cm	Each
17	Crile-Wood TC-Needle Holder, 20 cm	Each
18	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 20 cm	Each
19	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 20 cm	Each
U1).	URO VASCULAR FINE SET (RECIPIENT) 1st	
1	Crile-Wood TC-Needle Holder, 18 cm	Each
2	Crile-Wood TC-Needle Holder, 20 cm	Each
3	Crile-Wood TC-Needle Holder, 23 cm	Each
4	Ryder-Vascular TC-Needle Holder, 20 cm	Each
5	Gemini Forceps, curved, 18 cm	Each
6	Gemini Forceps, curved, 23 cm	Each
7	TC Metzenbaum Fino Scissors, Fig 1, cvd delicate pattern, 18 cm	Each
8	TC Metzenbaum Fino Scissors, Fig 1, str. delicate pattern, 18 cm	Each
9	Cooley Atrauma Clamp, angled, shaft angled, 16,0 cm	Each
10	De Bakey Vascular Scissors, 60° angled, 16 cm	Each
11	Potts De Martel Vascular Scissors, 60° angled, 22 cm	Each
12	De Bakey Bulldog Clamp, atrauma, straight, TL 80 mm	Each

13	De Bakey Bulldog Clamp, atrauma, straight, TL 90 mm	Each
14	De Bakey Bulldog Clamp, atrauma, curved, TL 86 mm	Each
15	De Bakey Bulldog Clamp, atrauma, curved, TL 78 mm	Each
16	De Bakey Bulldog Clamp, atrauma, straight, TL 105 mm	Each
17	De Bakey Bulldog Clamp, atrauma, curved, TL 97 mm	Each
18	Diethrich Bulldog Clamp, straight, jaw 8 mm, TL 49 mm	Each
19	Diethrich Bulldog Clamp, angled, jaw 8 mm, TL 49 mm	Each
20	De BakeyAtrauma Clamp, 60° angled, shaft angled, 21,0 cm	Each
21	Weber Atrauma Clamp, circle curved, right shaft angled, 26,0 cm	Each
22	Lahey Forceps, modif., curved, 19 cm	Each
23	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 20 cm	Each
24	Cooley Atrauma Clamp, Fig. 2, angled, shaft angled, 14,0 cm	Each
25	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 16 cm	Each
26	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 20 cm	Each
27	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 24 cm	Each
28	Micro Ring forceps, round handle Ø 8 mm, straight, 1,0 x 0,5 mm, jaw diamond dusted, 21 cm	Each
29	De Bakey-SatinskyAtrauma Clamp, angled, shaft angled, 24,5 cm	Each
30	SatinskyAtrauma Clamp, angled, shaft angled, 26,5 cm	Each
31	SatinskyAtrauma Clamp, angled, shaft angled, 26,0 cm	Each
32	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 20 cm	Each
33	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 24 cm	Each
34	Graefe fixation Forceps, w/o lock, 10cm	Each
35	Aorta Punch Dia 2.0mm	Each
36	De BakeyAtrauma Clamp, 60° angled, shaft angled, 21,0 cm	Each
37	Penfield Dura Dissector, Fig. 1, 17,5 cm	Each
U2).	URO VASCULAR FINE SET (RECIPIENT) 2nd:	
1	Crile-Wood TC-Needle Holder, 18 cm	Each
2	Crile-Wood TC-Needle Holder, 20 cm	Each
3	Crile-Wood TC-Needle Holder, 23 cm	Each
4	Ryder-Vascular TC-Needle Holder, 20 cm	Each
5	Gemini Forceps, curved, 18 cm	Each
6	Gemini Forceps, curved, 23 cm	Each
7	TC Metzenbaum Fino Scissors, Fig 1, cvd delicate pattern, 18 cm	Each
8	TC Metzenbaum Scissors, Fig 1, str., 18cm	Each
9	TC Metzenbaum Fino Scissors, Fig 1, str delicate pattern, 18 cm	Each
10	De Bakey Vascular Scissors, 25° angled, 16 cm	Each
11	Potts De Martel Vascular Scissors, 60° angled, 22 cm	Each
12	De Bakey Bulldog Clamp, atrauma, straight, TL 80 mm	Each
13	De Bakey Bulldog Clamp, atrauma, straight, TL 90 mm	Each
14	De Bakey Bulldog Clamp, atrauma, curved, TL 86 mm	Each
15	De Bakey Bulldog Clamp, atrauma, curved, TL 78 mm	Each
16	De Bakey Bulldog Clamp, atrauma, straight, TL 105 mm	Each
17	De Bakey Bulldog Clamp, atrauma, curved, TL 97 mm	Each
18	De BakeyAtrauma Clamp, 60° angled, shaft angled, 21,0 cm	Each
19	Weber Atrauma Clamp, circle curved, right shaft angled, 26,0 cm	Each

20	Lahey Forceps, modif., curved, 19 cm	Each
21	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 20 cm	Each
22	Cooley Atrauma Clamp, Fig. 2, angled, shaft angled, 14,0 cm	Each
23	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 16 cm	Each
24	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 20 cm	Each
25	De BakeyAtrauma forceps, jaw 1,5 mm, straight, 24 cm	Each
26	Micro Ring forceps, round handle Ø 8 mm, straight, 1,0 x 0,5 mm, jaw diamond dusted, 21 cm	Each
27	De Bakey-SatinskyAtrauma Clamp, angled, shaft angled, 24,5 cm	Each
28	SatinskyAtrauma Clamp, angled, shaft angled, 26,5 cm	Each
29	SatinskyAtrauma Clamp, angled, shaft angled, 26,0 cm	Each
30	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 20 cm	Each
31	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 24 cm	Each
32	Graefe fixation Forceps, w/o lock, 10cm	Each
33	Aorta Punch Dia 2.0mm	Each
34	De BakeyAtrauma Clamp, 60° angled, shaft angled, 21,0 cm	Each
35	Penfield Dura Dissector, Fig. 1, 17,5 cm	Each
V).	URO PERFUSION SET	
1	Halsted-Mosquito Forceps, cvd., 12,5 cm	Each
2	Halsted-Mosquito Forceps, str.,12,5 cm	Each
3	Micro forceps, round handle Ø 8 mm, str. 0,7 x 6,0 mm with platform, diamond dusted, 15 cm	Each
4	TC Metzenbaum Scissors, Fig 1, str.,14cm	Each
5	TC Metzenbaum Scissors, Fig 1, cvd.,14cm	Each
6	Reynolds Scissors, straight, 15 cm	Each
7	Adson Dressing Forceps, 12 cm	Each
8	Scalpel handle, Standard, No. 4, 13,5cm	Each
9	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 16 cm	Each
10	De BakeyAtrauma forceps, jaw 2,0 mm, straight, 20 cm	Each
11	Bowman probe, German silver Fig. 3/4	Each
12	Bowman probe, German silver Fig. 1/2	Each
W).	URO MICRO INSTRUMENTS SET	
1	Micro Needle Holder, with catch, 11,0 x 0,8 mm, Ø 9 mm, straight, jaw diamond dusted, 21 cm	Each
2	Jacobson Micro Scissors, cvd., 18,5 cm STREAMLINE	Each
3	Nelson lung grasping forceps 6:7, 15 cm	Each
4	Applying forceps for Acland micro single clamps size 24 - 35 mm, straight, without lock, 14 cm	Each
5	Jeweller forceps, Fig. 5, 11 cm	Each
6	Jeweller forceps, Fig. 5a, 11 cm	Each
7	Jeweller forceps, Fig. 4, 11 cm	Each
8	Jeweller forceps, 1:2 teeth, straight, 0,4 mm, 13,5 cm	Each
9	Micro forceps, Vessel dilator, 0,2 mm, 11 cm	Each
10	Diethrich Bulldog Clamp, straight, jaw 8 mm, TL 49 mm	Each
11	Diethrich Bulldog Clamp, straight, jaw 12 mm, TL 53 mm	Each
12	Diethrich Bulldog Clamp, angled, jaw 12 mm, TL 53 mm	Each

X).	URO MINOR SET	
1	Forster-Ballenger Sponge Forceps, str., serrated jaw, 25 cm	Each
2	Mayo-Hegar Needle Holder, 16 cm	Each
3	Mayo-Hegar Needle Holder, 18 cm	Each
4	Pean Forceps, curved, 20 cm	Each
5	Crile-Rankin Forceps, curved, 16 cm	Each
6	Allis Intestinal Forceps 4:5, 15 cm	Each
7	Gemini Forceps, curved, 20 cm	Each
8	Halsted-Mosquito Forceps, str., 12,5 cm	Each
9	Halsted-Mosquito Forceps, cvd., 12,5 cm	Each
10	Backhaus Towel Forceps, 13 cm	Each
11	Metzenbaum Scissors, Fig 1, cvd., 20 cm	Each
12	Mayo Scissors, curved, 15 cm	Each
13	Metzenbaum Scissors, Fig 1, cvd., 25 cm	Each
14	Scalpel handle, Standard, No. 3, 12 cm	Each
15	Scalpel handle, Standard, No. 4, 13,5cm	Each
16	Adson Diss. Forceps 1:2., 12 cm	Each
17	Adson Dressing Forceps, 12 cm	Each
18	Diss. Forceps 1:2, narrow, str., 16 cm	Each
19	Dressing Forceps, narrow, str., 16 cm	Each
20	Kocher Langenbeck Retractor, 55 x 11 mm 21,5 cm	Each
21	Czerny retractor, double ended, 20 cm	Each
22	Kidney Bowls, 250 x 140 x 40 mm	Each
23	Kidney Bowls, 170 x 100 x 35 mm	Each
24	Round Bowl, 150 x 65 mm, 0,5 l	Each
		Each
Y).	URO FORCEPS SET	
1	Mayo-Hegar TC-Needle Holder, 18 cm	Each
2	Metzenbaum Scissors, Fig 1, cvd., 18 cm	Each
3	Metzenbaum Scissors, Fig 1, cvd., 23 cm	Each
4	Metzenbaum Scissors, Fig 1, str., 18 cm	Each
5	De Bakey Atrauma forceps, jaw 2,0 mm, straight, 20 cm	Each
6	Semken Diss. Forceps 1:2, 0,7 mm, 12,5 cm	Each
7	Potts-Smith Dressing Forceps, str., 18cm	Each
8	Diss. Forceps 1:2, stand., str., 20 cm	Each
9	Adson Diss. Forceps 1:2., 12 cm	Each
10	Diss. Forceps 1:2, stand., str., 20 cm	Each
11	Diss. Forceps 1:2, narrow, str., 18 cm	Each
12	Diss. Forceps 1:2, narrow, str., 16 cm	Each
13	Diss. Forceps 1:2, stand., str., 25 cm	Each
14	Yankauer Suction tube, 27 cm, with large central bore Ø 4,8 mm	Each
15	Cushing Vein Hook, 16 mm, 20 cm	Each
Z).	VASECTOMY SPERMATIC EYELID CLAMP SET	
1	Halsted-Mosquito Forceps, str., 14 cm	Each
2	Halsted-Mosquito Forceps, cvd., 12,5 cm	Each

3	Glans Grasping forceps, Ø 4,8 mm, 12,5cm	Each
4	Fixation Clamp, spermatic cord, 14,5 cm	Each
5	Fixation Clamp, spermatic cord, 16,5 cm	Each
AA). URO VASCULAR EYELID INSTRUMENTS SET		
1	Lahey Forceps, curved, 19 cm	Each
2	Taylor Dressing Forceps, bayonet, with dissector end, 17 cm	Each
3	Mixter-O'Shaughnessy Forceps, cvd., 19 cm	Each
4	Cushing Vein Hook, 12 mm, 20 cm	Each
5	Cushing Vein Hook, 14 mm, 20 cm	Each
6	Schonborn Tracheal Retractor, 6 x 13mm, 20,5 cm	Each
7	Gemini Forceps, curved, 18 cm	Each

SPECIFICATIONS FOR RETRACTOR SYSTEM FOR UROLOGIC SURGERY

AB	RETRACTOR FOR UROLOGIC SURGERY SYSTEM	Set
	Containing with following	
1	Clamp® Sterile Field Post	Each
	Standard Frame	Each
	Snap Clamp™ Blade Holder	Each
	Hinged Extension Arm, 19"	Each
	Mayo Swivel Retractor, 2-3/4" x 2"	Each
	Fence Swivel Retractor, 4" x 6"	Each
	Fence Swivel Retractor, 4" x 6"	Each
	Deaver Swivel Retractor, 2-3/4" x 4-1/2"	Each
	Malleable Slotted Swivel Retractor, 2" x 6-1/2"	Each
	Malleable Slotted Swivel Retractor, 3" x 6-1/2"	Each
	Harrington Sweetheart Swivel Retractor, 2" x 5"	Each
	Kelly Modified Swivel Retractor 3"*2 1/2"	Each
	Kelly Modified Swivel Retractor 3"*2 1/2"	Each
	Pan/Cover Set, 121/2" x 261/2" x 35/8"	Each

- Bidder should quote all the instruments specified above
- Instruments should be of high quality and standard used for Retractor/aforesaid equipment's.
- The System should have flexibility for the different approaches.
- Manufacturer/Should be US FDA certified. Copy of certificate to be enclosed compulsorily.
- All instruments should be highly heat and corrosion resistant.
- Manufacturer name and part number should be mentioned on each and every instrument
- Bidder has to provide the demonstration of the item
- The system should have 1 year warranty from the date of installation.

- The Principals must give a certificate if the supplier/vender is changed during the course of guarantee/warrantee period
- Performance Certificate from the satisfied customers from Central Govt./State Govt/Reputed Private hospital must be appended in respect of the quoted equipment.